Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): ~~1/15/14~~ 1/15/15
Field Personnel: DANIEL BEALL
General Weather Conditions: CLOUDY
Ambient Air Temperature: 50° F

Facility Name: TISDALES QUICK STOP
Site ID # 18686 Monitoring Well # MW-25
Well Diameter (D): 0.167 feet
Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness: 0 feet
Depth to Ground Water (DGW) 11.91 feet
Total Well Depth (TWD) 20.52 feet
Length of the water column (LWC = TWD-DGW) 8.61 feet

1 casing volume (CV = LWC X C) = 1.40
3 casing volume 3 X CV = 4.20 gals (standard purge volume)

Total volume of Water Purged Before Sampling 0. gals
Total volume of Water Purged for Post Sampling 0 gals
_____ Total Purged
*If free product is present over 1/8 inch, sampling will not be required.

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		Standard	
pH=7.0		Standard	
pH=10.0		Standard	

Chain of Custody

MWA 7525 YSI 13 B1000 13/13 A34 CALIBRATED 1/14/14

Relinquished by	Date/Time	Received by	Date/Time

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)	1307							1307
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	5.72							
PID readings, if required								

Remarks:

NO PURGE

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): ~~1/15/14~~ 1/15/15
Field Personnel: DANIEL BEALL
General Weather Conditions: CLOUDY
Ambient Air Temperature: 50° F

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		Standard	
pH=7.0		Standard	
pH=10.0		Standard	

Chain of Custody

MWA 7525 YS113B1000 13/13A34 CALIBRATED 1/14/14

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: TISDALES QUICK STOP
Site ID # 18686 Monitoring Well # MW-26
Well Diameter (D): 0.167 feet
Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	10.10	feet
Total Well Depth (TWD)	19.38	feet
Length of the water column (LWC = TWD-DGW)	9.28	feet
1 casing volume (CV = LWC X C) =	1.50	
3 casing volume 3 X CV =	4.50	gals (standard purge volume)
Total volume of Water Purged Before Sampling	0	gals
Total volume of Water Purged for Post Sampling	0	gals
		Total Purged

*if free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)	1317							1317
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)	-							
Dissolved Oxygen (mg/l)	5.71							
PID readings, if required								

Remarks:

NO PURGE

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): ~~1/5/14~~ 1/15/15
Field Personnel: DANIEL BEALL
General Weather Conditions: CLOUDY
Ambient Air Temperature: 50° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____
Standard _____
Standard _____
Standard _____

Chain of Custody

MWA 7525 YS113B1D0013/13A34 CALIBRATED 1/14/14

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: TISDALES QUICK STOP
Site ID # 18686 Monitoring Well # MW-27
Well Diameter (D): 0.167 feet
Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	15.79	feet
Total Well Depth (TWD)	24.69	feet
Length of the water column (LWC = TWD-DGW)	8.90	feet
1 casing volume (CV = LWC X C) =	1.45	
3 casing volume 3 X CV =	4.35	gals (standard purge volume)
Total volume of Water Purged Before Sampling	0	gals
Total volume of Water Purged for Post Sampling	0	gals
		Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)	1216							1216
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	4.81							
PID readings, if required								

Remarks:

NO PURGE

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): ~~1/15/14~~ 1/15/15
Field Personnel: DANIEL BEALL
General Weather Conditions: CLOUDY
Ambient Air Temperature: 50° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard
pH=7.0 _____ Standard
pH=10.0 _____ Standard

Conductivity Meter serial no. _____
_____ Standard
_____ Standard
_____ Standard

Chain of Custody

MANWA 7525 YS113B1D0013/13A34 CALIBRATED 1/14/14

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: TISDALES QUICK STOP
Site ID # 18686 Monitoring Well # MW-28
Well Diameter (D): 0.167 feet
Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	16.19	feet
Total Well Depth (TWD)	24.38	feet
Length of the water column (LWC = TWD-DGW)	8.19	feet
1 casing volume (CV = LWC X C) =	1.35	
3 casing volume 3 X CV =	4.05	gals (standard purge volume)
Total volume of Water Purged Before Sampling	0	gals
Total volume of Water Purged for Post Sampling	0	gals
		Total Purged

*if free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)	1154							1159
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	6.19							
PID readings, if required								

Remarks:

NO PURGE

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): ~~1/15/14~~ 1/15/15
Field Personnel: DANIEL BEALL
General Weather Conditions: CLOUDY
Ambient Air Temperature: 50° F

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		Standard	
pH=7.0		Standard	
pH=10.0		Standard	

Chain of Custody

MWA 7525 YSI 13B10001 3/13A34 CALIBRATED 1/14/14

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: TISDALES QUICK STOP
Site ID # 18686 Monitoring Well # MW-29
Well Diameter (D): 0.167 feet
Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	14.98	feet
Total Well Depth (TWD)	23.68	feet
Length of the water column (LWC = TWD-DGW)	8.70	feet
1 casing volume (CV = LWC X C) =	1.40	
3 casing volume 3 X CV =	4.20	gals (standard purge volume)
Total volume of Water Purged Before Sampling	0	gals
Total volume of Water Purged for Post Sampling	0	gals
		Total Purged

*if free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)	1146							1146
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	6.19							
PID readings, if required								

Remarks:
NO PURGE

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): ~~1/15/14~~ 1/15/15
Field Personnel: DANIEL BEALL
General Weather Conditions: CLOUDY
Ambient Air Temperature: 50° F

Facility Name: TISDALES QUICK STOP
Site ID # 18686 Monitoring Well # MW-30
Well Diameter (D): 0.167 feet
Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness: 0 feet
Depth to Ground Water (DGW) 14.04 feet
Total Well Depth (TWD) 18.56 feet
Length of the water column (LWC = TWD-DGW) 4.52 feet

1 casing volume (CV = LWC X C) = 0.75
3 casing volume 3 X CV = 2.25 gals (standard purge volume)

Total volume of Water Purged Before Sampling 0 gals
Total volume of Water Purged for Post Sampling 0 gals
____ Total Purged
*if free product is present over 1/8 inch, sampling will not be required.

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	Standard		Standard
pH=7.0	Standard		Standard
pH=10.0	Standard		Standard

Chain of Custody

MANUAL 7525	YSI 13 B10001 3/13 A34	CALIBRATED 1/14/14	
Relinquished by	Date/Time	Received by	Date/Time

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)	1010							1010
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	6.61							
PID readings, if required								

Remarks:

NO PURGE

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): ~~1/15/14~~ 1/15/15
Field Personnel: DANIEL BEALL
General Weather Conditions: CLOUDY
Ambient Air Temperature: 50° F

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		Standard	
pH=7.0		Standard	
pH=10.0		Standard	

Chain of Custody

MANWA 7525 YS113B1D0013/13A34 CALIBRATED 1/14/14

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: TISDALES QUICK STOP
Site ID # 18686 Monitoring Well # MW-31
Well Diameter (D): 0.167 feet
Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	15.06	feet
Total Well Depth (TWD)	20.02	feet
Length of the water column (LWC = TWD-DGW)	4.96	feet
1 casing volume (CV = LWC X C) =	0.80	
3 casing volume 3 X CV =	2.40	gals (standard purge volume)
Total volume of Water Purged Before Sampling	0.	gals
Total volume of Water Purged for Post Sampling	0	gals
		Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)	0959							0959
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	6.11							
PID readings, if required								

Remarks:
NO PURGE

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): ~~1/15/14~~ 1/15/15
Field Personnel: DANIEL BEALL
General Weather Conditions: CLOUDY
Ambient Air Temperature: 50° F

Facility Name: TISDALES QUICK STOP
Site ID # 18686 Monitoring Well # MW-1A
Well Diameter (D): 0.167 feet
Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness: 0 feet
Depth to Ground Water (DGW) 13.40 feet
Total Well Depth (TWD) 21.21 feet
Length of the water column (LWC = TWD-DGW) 7.81 feet

1 casing volume (CV = LWC X C) = 1.30
3 casing volume 3 X CV = 3.90 gals (standard purge volume)

Total volume of Water Purged Before Sampling 0 gals
Total volume of Water Purged for Post Sampling 0 gals
Total Purged

*if free product is present over 1/8 inch, sampling will not be required.

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		Standard	
pH=7.0		Standard	
pH=10.0		Standard	

Chain of Custody

MANWA 7525	YSI 13B10001313A34	CALIBRATED 1/14/14	
Relinquished by	Date/Time	Received by	Date/Time

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)	1528							1528
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	2.29							
PID readings, if required								

Remarks:

NO PURGE

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): ~~1/15/14~~ 1/15/15
Field Personnel: DANIEL BEALL
General Weather Conditions: CLOUDY
Ambient Air Temperature: 50° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____

Chain of Custody

MANWA 7525 YSI 13B1D00 13/13A34 CALIBRATED 1/14/14

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: TISDALES QUICK STOP
Site ID # 18686 Monitoring Well # MW-2A

Well Diameter (D): 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	13.74	feet
Total Well Depth (TWD)	20.49	feet
Length of the water column (LWC = TWD-DGW)	6.75	feet
1 casing volume (CV = LWC X C) =	1.10	
3 casing volume 3 X CV =	3.30	gals (standard purge volume)
Total volume of Water Purged Before Sampling	0	gals
Total volume of Water Purged for Post Sampling	0	gals
		Total Purged

*if free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)	1537							1537
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	3.33							
PID readings, if required								

Remarks:

NO PURGE

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): ~~1/15/14~~ 1/15/15
Field Personnel: DANIEL BEALL
General Weather Conditions: CLOUDY
Ambient Air Temperature: 50° F

Facility Name: TISDALES QUICK STOP
Site ID # 18686 Monitoring Well # MW-3A
Well Diameter (D): 0.167 feet
Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness: 0 feet
Depth to Ground Water (DGW) 13.46 feet
Total Well Depth (TWD) 20.03 feet
Length of the water column (LWC = TWD-DGW) 6.57 feet

1 casing volume (CV = LWC X C) = 1.10
3 casing volume 3 X CV = 3.30 gals (standard purge volume)

Total volume of Water Purged Before Sampling 0 gals
Total volume of Water Purged for Post Sampling 0 gals
Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		Standard	
pH=7.0		Standard	
pH=10.0		Standard	

Chain of Custody

			CALIBRATED
MANWA 7525	YS113B1D0013/13A34		1/14/14
Relinquished by	Date/Time	Received by	Date/Time

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)	1521							1521
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	1.69							
PID readings, if required								

Remarks:

NO PURGE

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): ~~1/15/14~~ 1/15/15
Field Personnel: DANIEL BEALL
General Weather Conditions: CLOUDY
Ambient Air Temperature: 50° F

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		Standard	
pH=7.0		Standard	
pH=10.0		Standard	

Chain of Custody

HANNA 7525 YSI 13B1000 13/13A34 CALIBRATED 1/14/14

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: TISDALES QUICK STOP
Site ID # 18686 Monitoring Well # MW-4A

Well Diameter (D): 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	13.81	feet
Total Well Depth (TWD)	20.72	feet
Length of the water column (LWC = TWD-DGW)	6.91	feet
1 casing volume (CV = LWC X C) =	1.15	
3 casing volume 3 X CV =	3.45	gals (standard purge volume)
Total volume of Water Purged Before Sampling	0.	gals
Total volume of Water Purged for Post Sampling	0	gals
		Total Purged

*if free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)	1512							1512
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	3.77							
PID readings, if required								

Remarks:

NO PURGE

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): ~~1/15/14~~ 1/16/15
Field Personnel: DANIEL BEALL
General Weather Conditions: CLOUDY
Ambient Air Temperature: 50° F

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		Standard	
pH=7.0		Standard	
pH=10.0		Standard	

Chain of Custody

MANWA 7525 YS113B1D0013/13A34 CALIBRATED 1/14/14

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: TISDALES QUICK STOP
Site ID # 18686 Monitoring Well # ~~MW-~~ TW-1
Well Diameter (D): 0.167 feet
Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	14.31	feet
Total Well Depth (TWD)	45.38	feet
Length of the water column (LWC = TWD-DGW)	31.07	feet
1 casing volume (CV = LWC X C) =	5.00	
3 casing volume 3 X CV =	15.00	gals (standard purge volume)
Total volume of Water Purged Before Sampling	15.00	gals
Total volume of Water Purged for Post Sampling	0	gals
		Total Purged

*if free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	5.00	10.00	15.00				
Time (military)	0841	0852	0859	0911				0911
pH (s.u.)	5.57	5.29	5.27	5.24				
Specific Cond. (umhos/cm)	437	440	442	414				
Water Temperature (degrees C)	19.47	18.48	18.31	15.97				
Turbidity (subjective: clear, slightly cloudy, cloudy)	10.0	55.0	27.0	23.0				
Dissolved Oxygen (mg/l)	4.77	2.54	1.98	1.83				
PID readings, if required								

Remarks:

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): ~~1/15/14~~ 1/15/15
Field Personnel: DANIEL BEALL
General Weather Conditions: CLOUDY
Ambient Air Temperature: 50° F

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		Standard	
pH=7.0		Standard	
pH=10.0		Standard	

Chain of Custody

MANWA 7525	YS113B1D0013/13A34	CALIBRATED 1/14/14	
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: TISDALES QUICK STOP
Site ID # 18686 Monitoring Well # ~~MW-6~~ TW-2

Well Diameter (D): 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	13.14	feet
Total Well Depth (TWD)	50.31	feet
Length of the water column (LWC = TWD-DGW)	37.17	feet
1 casing volume (CV = LWC X C) =	6.00	
3 casing volume 3 X CV =	18.00	gals (standard purge volume)
Total volume of Water Purged Before Sampling	18.00	gals
Total volume of Water Purged for Post Sampling	0	gals
		Total Purged

*if free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	6.00	12.00	18.00				
Time (military)	1046	1059	1111	1131				1131
pH (s.u.)	5.90	6.11	6.20	6.24				
Specific Cond. (umhos/cm)	672	686	719	709				
Water Temperature (degrees C)	17.45	17.67	17.87	16.99				
Turbidity (subjective: clear, slightly cloudy, cloudy)	9.60	9.60	11.0	10.0				
Dissolved Oxygen (mg/l)	4.30	3.31	3.29	3.34				
PID readings, if required								

Remarks:

APPENDIX C

Contractor Checklist

Contractor Checklist

For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, the No box should be checked and a thorough description of the reason must be provided.

Item #	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?	X		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?			X
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided?	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	X		
24	If free-product is present, has the thickness been provided?	X		
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?	X		
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	X		
34	Has the current and historical laboratory data been provided in tabular format?	X		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)	X		
40	Has the site potentiometric map been provided? (Figure 5)	X		
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)			X
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

Explanation for missing or incomplete information.

D H E C

PROMOTE PROTECT PROSPER

W. Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment



MR MARTY EASLER
196 RICHBURG ROAD
GREELEYVILLE SC 29056

FEB 19 2015

Re: **AFVR Directive**
Tisdales Quick Stop, 1989 Thurgood Marshall Blvd, Kingstree, SC
UST Permit # 18686; CA#49734
Release reported March 30, 2001
Monitoring Report received February 4, 2015
Williamsburg County

Dear Mr. Easler:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site utilizing Geological Resources, Inc. In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations, a 96-hour Aggressive Fluid and Vapor Recovery (AFVR) event\ may commence as outlined in the UST Quality Assurance Program Plan (QAPP) Revision 2.0. **Please be aware that the AFVR Procedures have been updated.** Please connect to MW-1, MW-2, MW-3 & MW-4 for the duration of the event. The stingers shall be lowered at six inch intervals starting at the water table interface to a maximum depth of 20, 25, 25, & 25 feet in the wells. A copy of Agency QAPP Version 2.0 for the Underground Storage Tank Division is available at http://www.dhec.sc.gov/environment/docs/qapp_rev-2_april2013.pdf.

As soon as the beginning date of the event has been scheduled, please contact Jim Martin at martinjm@dhec.sc.gov.

The AFVR Report should be submitted within 90 days from the date of this correspondence. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

Cost Agreement #49734 has been approved in the amount shown on the enclosed cost agreement. Geological Resources, Inc., can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. If the invoice and completed report are not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval is obtained from the UST Management Division. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved by the Agency for the cost to be paid. The Agency reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Agency reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

The Agency grants preapproval for transportation of virgin petroleum-contaminated groundwater from the referenced site to a permitted treatment facility.

On all correspondence concerning this site, please reference UST Permit #18686 and CA #49734. If you have any questions, please contact me at (803) 898-0605 or by e-mail at martinjm@dhec.sc.gov.

Sincerely,



Jim Martin, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Technical File (with enclosure)
Geological Resources, Inc., 3502 Hayes Rd., Monroe, NC 28110 (with enclosure)

Approved Cost Agreement 49734

Facility: 18686 TISDALES QUICK STOP

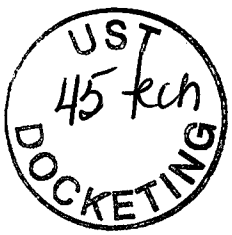
MARTINJM

PO Number.

Task / Description Categories	Item Description	Qty / Pct	Unit Price	Amount
19 RPT/PROJECT MNGT & COORDINATIO				
	PRT REPORT PREPARATION	0 1200	22,768.00	2,732 16
23 EFR				
	A4 96 HOUR EVENT	1 0000	12,567 50	12,567.50
	C4 OFF GAS TREATMENT 96 HOUR	1.0000	780 00	780 00
	D SITE RECONNAISSANCE	1.0000	203 25	203 25
	E1 ADDITIONAL WELL HOOK-UPS	1.0000	25 75	25.75
	F1 EFFLUENT DISPOSAL	20,000.0000	0 44	8,800.00
	G AFVR EQUIPMENT MOB	1.0000	391.50	391.50
		Total Amount		25,500 16

Geological Resources, Inc.





March 12, 2015

Mr. Jim Martin, Hydrogeologist
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201-1708

Re: AFVR Report
Tisdales Quick Stop
1989 Thurgood Marshall Blvd.
Kingstree, Williamsburg County
UST Permit #: 18686
CA #: 49734
GRI Project No. 1543

Dear Mr. Martin:

This report presents the results of the aggressive fluid-vapor recovery (AFVR) event conducted in March 2015 at the above referenced site. The activities were conducted in accordance with the requirements outlined in correspondence from the SCDHEC dated February 19, 2015 and addressed to Mr. Marty Easler. The purpose of the activities was to remove residual free-phase product and reduce dissolved phase contaminant concentrations in monitoring wells MW-1, MW-2, MW-3 and MW-4. The following Figures, Tables and Appendix have been included:

Figure 1:	Site Location Map
Figure 2:	Site Map
Table 1:	AFVR Event Chronology – March 2-6, 2015
Table 2:	Summary of Monitoring Well Gauging Data
Appendix A:	AFVR Report, Calculations, Disposal Manifests

3502 Hayes Road • Monroe, North Carolina 28110
Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012

Tisdales Quick Stop
AFVR Report
UST Permit # 18686

The AFVR contractor, Hazmat Emergency Response and Remediation, Inc. (HERR), arrived on-site on March 2, 2015 for the AFVR event. The event was conducted on monitoring wells MW-1, MW-2, MW-3 and MW-4. General weather conditions were sunny/fair with an ambient air temperature of approximately 68°F at the time of system start-up. A free product thickness of 0.04 feet was measured in MW-2 prior to the event. Free product was not measured in any of the other extraction wells prior to the event. AFVR activities were conducted for ninety-six (96) hours on MW-1, MW-2, MW-3 and MW-4 using a vacuum truck with a maximum vacuum rating of 25 in. Hg and a capacity of 325 cubic feet per minute. During the course of the event, the vacuum at the wells remained steady at 20 in. Hg. Please note that the vacuum truck was equipped with an activated charcoal filter for off-gas treatment of vapor phase hydrocarbons. A total of 29,598 gallons of liquid were removed during the event. However, there was no measureable amount of liquid phase free product noted in the tanker. No measurable free product was present in any of the vacuum wells (MW-1, MW-2, MW-3 and MW-4) at the conclusion of the event. Based on data collected during the AFVR event, an estimated total of 22.5816 pounds (approximately 3.67 gallons) of vapor phase hydrocarbons were calculated to have been removed during the event.

If you have any comments or questions concerning this project, please do not hesitate to contact the undersigned at (704) 845-4010.

Sincerely,
Geological Resources, Inc.

W. Scott Ball
Project Manager

JOHANNA MARIE TESCHNER REGISTERED PROFESSIONAL GEOLOGIST No. 2576 SOUTH CAROLINA

Johanna M. Teschner, P.G.
License No. 2576

Enclosures

cc: Mr. Marty Easler
File

FIGURES

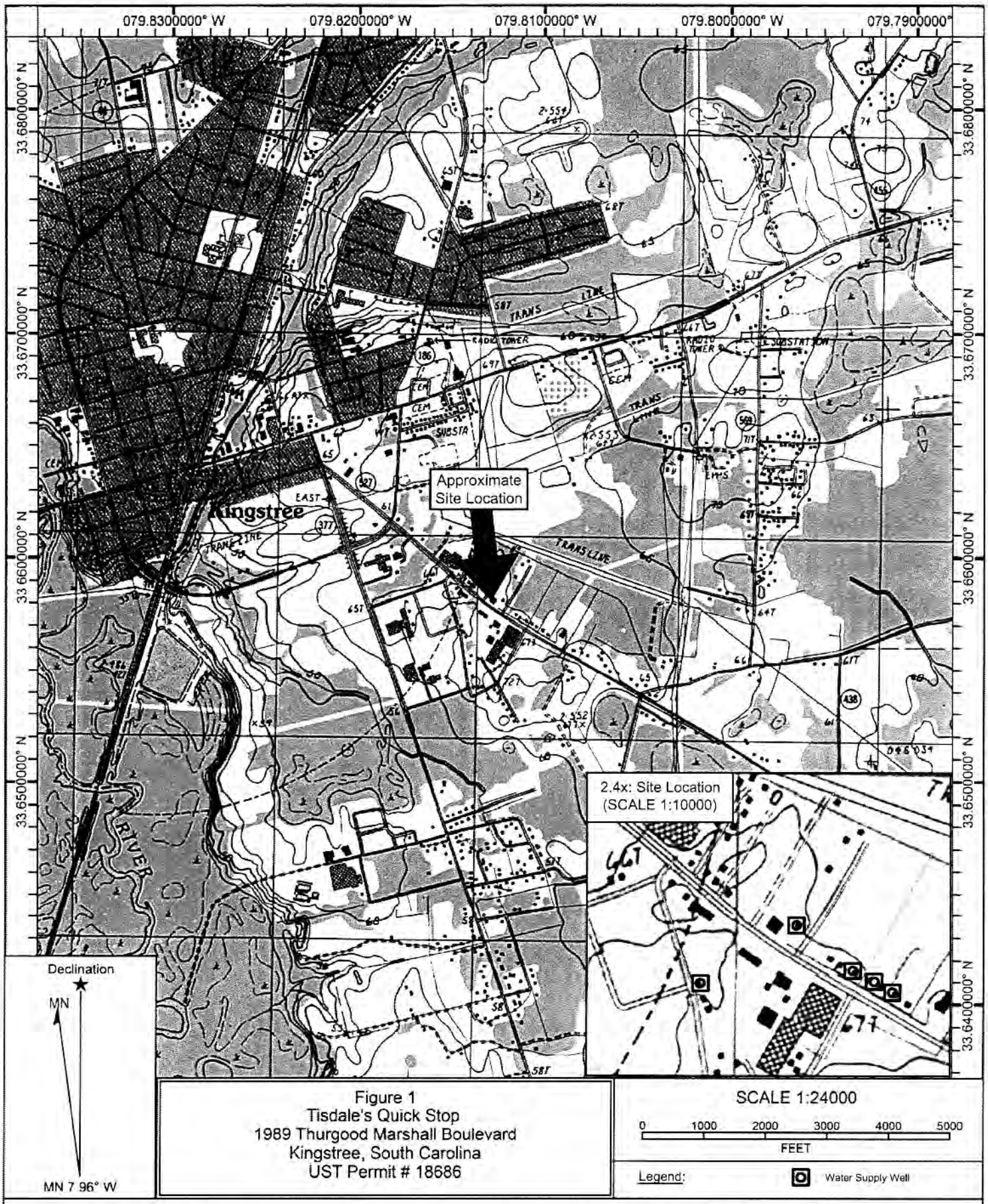


Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit # 18686

SCALE 1:24000

0 1000 2000 3000 4000 5000
FEET

Legend: Water Supply Well

Name: Topographic Map
Date: 09/16/14
Scale: 1 inch = 2,000 ft.

Location: 033.6579897° N 079.8127613° W

Generated by ECH at Geological Resources, Inc.

LEGEND

- LIGHT POLE
- TELEPHONE PEDESTAL
- SEWER MANHOLE
- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- WATER SUPPLY WELL
- FIRE HYDRANT
- FIBER OPTIC CABLE MARKER
- PROPERTY LINE
- T — UNDERGROUND TELEPHONE LINE
- W — UNDERGROUND WATER LINE
- PP & OVERHEAD POWER LINE
- S — UNDERGROUND SEWER LINE
- G — UNDERGROUND GAS LINE
- FOC — UNDERGROUND FIBER OPTIC LINE
- D — DITCH
- X — FENCE
- 18-055 — WILLIAMSBURG COUNTY TAX MAP #
- (18) — PARCEL #

N

OPEN GRASS FIELD

WARSAW ROAD

DRIVEWAY

CONC.

SHED

WOODS

AST/LP GAS

LUCKY 7

GATE

SALVATION AVE

MOBILE HOME

SC HIGHWAY 527

S-45-787

BLOCK STORAGE BLDG.

WILLIAMSBURG TECHNICAL COLLEGE

BLOCK STORAGE BLDG.

WOODS

ABANDONED RES.

CANOPY

DIESEL DISP.

TBM
1/2" REBAR IN P.P.
ASSUMED ELEV. 100.00'

MW-1 MW-1A MW-2 MW-2A MW-3 MW-3A MW-4 MW-4A MW-5 MW-6 MW-7 MW-8 MW-9 MW-10 MW-11 MW-12 MW-13 MW-14 MW-15 MW-16 MW-17 (DESTROYED) MW-18 MW-19 MW-20 MW-21 (NOT LOCATED) MW-22 MW-23 MW-24 MW-25 MW-26 MW-27 MW-28 MW-29 MW-30 MW-31

TW-1 TW-2

WSW-1 WSW-2 (INACTIVE) WSW-3

18-055 (20) 18-055 (21) 18-055 (22) 18-055 (23) 18-055 (24) 18-055 (18) 18-055 (19) 11-40 (1) 18-056 (18) 18-056 (19)

120 0 60 120 240 480
(IN FEET)
1 inch = 120 ft.

SITE MAP		
Tisdale Quick Stop	1989 Thurgood Marshall Boulevard	
Kingstree, Williamsburg County, SC	UST Permit # 18686	
Date: 04/05/06	Drawn by: L. Mann	Figure: 2
GEOLOGICAL RESOURCES, INC.		

TABLES

TABLE 1
AFVR EVENT CHRONOLOGY
MARCH 2-6, 2015
TISDALE'S QUICK STOP
UST PERMIT #18686

Task	Hours	Personnel	Equipment	Company
Gauge Liquid Levels in MW-1, MW-2, MW-3 and MW-4	8:30 3/2/15	Vacuum Truck Operator	Interface Probe	HERR
Vacuum Truck Setup for Fluid Removal in MW-1, MW-2, MW-3 and MW-4	8:30 - 9:00 3/2/15	Vacuum Truck Operator	Vacuum Truck	HERR
Fluid Recovery in MW-1, MW-2, MW-3 and MW-4	9:00 3/2/15 - 9:00 3/6/15	Vacuum Truck Operator	Vacuum Truck	HERR
Gauge Liquid Levels in MW-1, MW-2, MW-3 and MW-4	9:30 3/6/15	Vacuum Truck Operator	Interface Probe	HERR

TABLE 2
SUMMARY OF MONITORING WELL GAUGING DATA
TISDALE'S QUICK STOP
UST PERMIT #18686

Well No.	Date	Time	Depth to Free Product	Depth to Ground Water	Free Product
MW-1	03/02/15	8:45	---	12.30	---
MW-2		8:45	12.14	12.18	0.04
MW-3		8:45	---	12.19	---
MW-4		8:45	---	12.06	---
MW-1	03/06/15	09:15	---	12.93	---
MW-2		09:15	---	14.31	---
MW-3		09:15	---	15.10	---
MW-4		09:15	---	13.55	---

Note:
• Data reported in feet.

APPENDIX

APPENDIX A

AFVR Report, Calculations, Disposal Manifests

HAZMAT EMERGENCY RESPONSE AND REMEDIATION, INC.

Post Office Box 381 • 217 North 701 By Pass • Tabor City, NC 28463 • 910-653-6399
Fax: 910-653-6398 • E-mail:herrteam@hotmail.com • www.herrteam.com

Wednesday, March 11, 2015

Scott Ball
Geological Resources, Inc.
2301-F Crown Point Executive Dr.
Charlotte, NC 28227

Re: Site Name: Tisdale's Quick Stop
Kingstree, SC
UST Permit #: 18686

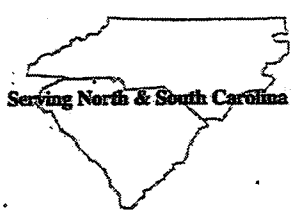
Scott,

Hazmat Emergency Response and Remediation, Inc. (HERR) completed one 96 hour Aggressive Fluid Vapor Recovery (AFVR) event at the above site on March 2-6, 2015. Included is the documentation for the event. The 96 hour event was conducted on monitoring wells MW-1, MW-2, MW-3, and MW-4.

If you have any questions, please do not hesitate to contact our office.

Sincerely,

Marc Cox
HERR Project Manager



Tisdale's Quick Stop
Kingstree, SC
March 2-6, 2015

AFVR

HERR mobilized personnel and equipment to Tisdale's Quick Stop on 03/02/15. The ambient temperature was 68 deg F and weather conditions were sunny/fair. The depths to product and water were measured prior to and subsequent to the AFVR event (See attached data). Personnel from Geological Resources, Inc. (GRI) were on site to supervise the event.
The 96 Hour AFVR event was conducted using a Global Vacuum Liquid Ring Pump with off gas treatment through a vapor phase granular activated carbon scrubber. The vacuum unit is capable of providing 325 CFM at 25 inches of mercury.

Pollutant Mass Removal
Total weight of 22.5816 pounds of petroleum in the vapor phase (total non-methane organic emissions) was removed during the 96 hour AFVR event. This amount is based on data collected during the AFVR event (see attached data sheets)

Liquid Disposal
Approximately 29,598 gallons of petroleum contact water was collected during the AFVR event (See attached disposal manifest)

APPENDICES

A. AFVR FIELD NOTES
B. POLLUTANT MASS REMOVAL DATA SHEET
C. LIQUID DISPOSAL MANIFEST

APPENDIX A

AFVR FIELD NOTES

HERR, Inc.

AFVR – Field Notes

Site Name: TISDALE'S QUICK STOP Location: KINGSTREE, SC

AFVR Contractor: HERR, Inc. Personnel: STEVE

Date: 3/2-6/15 Ambient Air Temperature and General Weather Condition: 68° Sunny-Hazy

Start Time 1: 9:00 Stop Time 1: 9:00 Start Time 2: _____ Stop Time 2: _____

Total volume of water removed during the 8-hour AFVR Event: 29,598 gal.

Total volume of product removed during the 8-hour AFVR Event: _____

Product Recovery Rate: _____

Monitoring Well	Depth to product prior to stinger placement (ft. below TOC)	Depth to water prior to stinger placement (ft. below TOC)	Depth to product at cessation of vacuuming (ft. below TOC)	Depth to water at cessation of vacuuming (ft. below TOC)	Estimated volume of water removed during this event	Relevant Observations
MW 1	-0-	12.30	-0-	~~13.35~~	12.95	
MW 2	12.14	12.18	-0-	~~14.50~~ 14.31		
MW 3	-0-	12.19	-0-	15.10		
MW 4	-0-	12.06	-0-	13.55	29,598	

Aggressive Fluid/Vapor Recovery Notes

vacuum conversion: (inches of water X 0.07355 = inches of mercury)

		MW- 1	MW- 2	MW- 3	MW- 4	Stinger Placement			
	9.00 Time	Vacuum at Targeted Well (in. Hg)	Vacuum at Targeted Well (in. Hg)	Vacuum at Targeted Well (in. Hg)	Vacuum at Targeted Well (in. Hg)	Stinger Depth	Product Depth	Water Level	Notes
	MW 1					13'	---	1230	
	MW 2					13'	17.16	12.18	
	MW 3					13'	---	12.19	
	MW 4					13'	---	12.06	
3-2 Mon									
	12.00	20	20						
	6.00	20	20						
3-3 Tue									
	8.00								
	12.00								
	6.00								
3-4 Wed									
	8.00								
	12.00								
	6.00								
3-5 Th									
	8.00								
	12.00								
	6.00								
3-6 Fri									
	8.00								
	9.00	Shut	Down						

Vacuum at Pump: 24 Epm

Aggressive Fluid/Vapor Recovery Notes

vacuum conversion: (inches of water X 0.07355 = inches of mercury)

		MW- 1	MW- 2	MW- 3	MW- 4	Stinger Placement			
	Time	Vacuum at Targeted Well (in. Hg)	Vacuum at Targeted Well (in. Hg)	Vacuum at Targeted Well (in. Hg)	Vacuum at Targeted Well (in. Hg)	Stinger Depth	Product Depth	Water Level	Notes
3-3									
WED	8.00	20	20	20	20				
	10 00	20	20	20	20	15			
THU	12 00	20	20	20	20				
	2 00	20	20	20	20				
	4 00	20	20	20	20				
	6 00	20	20	20	20				
	8.00	20	20	20	20				
	12 00	20	20	20	20	14			
FRI	17 00	20	20	20	20				
3-4									
THU	8.00	20	20	20	20				
	1000	20	20	20	20				
FRI	12 00	20	20	20	20	15			
	2 00	20	20	20	20				
	4 00	20	20	20	20				
	6 00	20	20	20	20				
	8.00	20	20	20	20				
	10 00	20	20	20	20				
SAT	12 00	20	20	20	20				
3-5									
SUN	8.00	20	20	20	20				
	9 00	Shut	Down			MW-1	-0-	12.93	
						MW-2	-0-	14.31	
						MW-3	-0-	15.18	
						MW-4	-0-	17.55	

Vacuum at Pump: 14

Aggressive Fluid/Vapor Recovery Notes

(1)

Time	PID at stack (ppm)	PID after off-gas treatment (carbon) (ppm)	Velocity (ft. / min.)	Temperature (Farenheit)	Relative Humidity (%)	Other
9:00						
3-2-15 9:30	796	142	904	84	42	
Mon. 10:00	852	161	909	94	42	
10:30	859	166	909	95	42	
11:00	871	171	912	85	42	
11:30	892	175	918	86	42	
12:00	936	179	923	87	42	
12:30	957	182	942	87	42	
1:00	978	186	961	87	42	
1:30	994	198	978	86	42	
2:00	1038	195	992	86	42	
2:30	1082	204	1007	96	42	
3:00	1146	212	1028	85	42	
3:30	1182	225	1044	85	42	
4:00	1205	228	1056	85	42	
4:30	1245	231	1063	85	42	
5:00	1236	229	1067	84	42	
6:00	1235	230	1077	84	42	
7:00	1231	229	1084	84	42	
8:00	1215	226	1095	83	42	
9:00	1200	224	1099	83	42	
10:00	1176	220	1110	82	42	
11:00	1171	218	1110	82	42	
12:00	1131	214	1115	82	42	

Aggressive Fluid/Vapor Recovery Notes

(2)

	Time	PID at stack (ppm)	PID after off-gas treatment (carbon) (ppm)	Velocity (ft. / min.)	Temperature (Farenheit)	Relative Humidity (%)	Other
3-3-15 Tue.	8:00	671	98	1135	80	40	
	10:00	608	94	1141	84	40	
	12:00	546	88	1148	84	41	
	2:00	485	81	1155	82	41	
	4:00	456	79	1165	82	41	
	6:00	421	76	1175	82	41	
	8:00	412	75	1180	81	41	
	10:00	392	73	1195	80	41	
	12:00	377	71	1208	80	41	
3-4-15 Wed.	8:00	326	69	1358	80	42	
	10:00	321	62	1353	82	42	
	12:00	318	55	1366	83	42	
	2:00	312	54	1372	83	42	
	4:00	309	53	1378	82	42	
	6:00	304	52	1382	82	42	
	8:00	299	52	1389	80	42	
	10:00	296	50	1407	80	42	
	12:00	292	50	1417	79	42	
3-5-15 Thur.	8:00	248	37	1484	82	46	
	10:00	245	37	1488	84	46	
	12:00	239	35	1495	85	48	
	2:00	240	36	1506	86	48	
	4:00	238	35	1511	85	49	

Aggressive Fluid/Vapor Recovery Notes

(3)

Time	PID at stack (ppm)	PID after off-gas treatment (carbon) (ppm)	Velocity (ft. / min.)	Temperature (Farenheit)	Relative Humidity (%)	Other
6:01	226	33	1518	83	49	
8.00	221	31	1524	82	49	
10:00	218	31	1533	79	49	
12:00	215	31	1540	77	51	
3-6-15 Fri. 8:00	223	30	1526	83	48	
9:00	Shut Down					

APPENDIX B

POLLUTANT MASS REMOVAL DATA SHEETS

Site: Tisdale's Quick Stop
UST Permit #: 18686

Calculations - Flow at DSCFM							
Date	Time	Velocity (ft/min)	Cross Sec. Stack Area (ft^2)	Temperature (F)	Rel. Humidity	Water Vapor (%)	Qstd (flow)
3/2/15	9:00						
3/2/15	9:30	904	0.022	84	42	0.010473917	19.10
3/2/15	10:00	908	0.022	84	42	0.010473917	19.19
3/2/15	10:30	909	0.022	85	42	0.010821439	19.16
3/2/15	11:00	912	0.022	85	42	0.010821439	19.23
3/2/15	11:30	918	0.022	86	42	0.011179174	19.31
3/2/15	12:00	923	0.022	87	42	0.011547389	19.37
3/2/15	12:30	942	0.022	87	42	0.011547389	19.77
3/2/15	1:00	961	0.022	87	42	0.011547389	20.17
3/2/15	1:30	978	0.022	86	42	0.011179174	20.57
3/2/15	2:00	992	0.022	86	42	0.011179174	20.87
3/2/15	2:30	1007	0.022	86	42	0.011179174	21.18
3/2/15	3:00	1028	0.022	85	42	0.010821439	21.67
3/2/15	3:30	1044	0.022	85	42	0.010821439	22.01
3/2/15	4:00	1056	0.022	85	42	0.010821439	22.26
3/2/15	4:30	1063	0.022	85	42	0.010821439	22.41
3/2/15	5:00	1067	0.022	84	42	0.010473917	22.54
3/2/15	6:00	1077	0.022	84	42	0.010473917	22.76
3/2/15	7:00	1084	0.022	84	42	0.010473917	22.90
3/2/15	8:00	1095	0.022	83	42	0.010136350	23.19
3/2/15	9:00	1099	0.022	83	42	0.010136350	23.27
3/2/15	10:00	1110	0.022	82	42	0.009808485	23.56
3/2/15	11:00	1110	0.022	82	42	0.009808485	23.56
3/3/15	12:00	1115	0.022	82	42	0.009808485	23.66
3/3/15	8:00	1135	0.022	80	40	0.008737549	24.20
3/3/15	10:00	1141	0.022	84	40	0.009967167	24.12

3/3/15	12:00	1148	0.022	84	41	0.010220441	24.26
3/3/15	2:00	1155	0.022	82	41	0.009571356	24.52
3/3/15	4:00	1165	0.022	82	41	0.009571356	24.73
3/3/15	6:00	1175	0.022	82	41	0.009571356	24.94
3/3/15	8:00	1180	0.022	81	41	0.009260756	25.10
3/3/15	10:00	1195	0.022	80	41	0.008959134	25.48
3/4/15	12:00	1208	0.022	80	41	0.008959134	25.75
3/4/15	8:00	1358	0.022	80	42	0.009180875	28.94
3/4/15	10:00	1353	0.022	82	42	0.009808485	28.71
3/4/15	12:00	1366	0.022	83	42	0.010136350	28.93
3/4/15	2:00	1372	0.022	83	42	0.010136350	29.05
3/4/15	4:00	1378	0.022	82	42	0.009808485	29.24
3/4/15	6:00	1382	0.022	82	42	0.009808485	29.33
3/4/15	8:00	1389	0.022	80	42	0.009180875	29.60
3/4/15	10:00	1407	0.022	80	42	0.009180875	29.99
3/5/15	12:00	1417	0.022	79	42	0.008880653	30.27
3/5/15	8:00	1484	0.022	82	46	0.010758784	31.46
3/5/15	10:00	1488	0.022	84	46	0.011489860	31.41
3/5/15	12:00	1495	0.022	85	48	0.012398173	31.47
3/5/15	2:00	1506	0.022	86	48	0.012809087	31.63
3/5/15	4:00	1511	0.022	85	49	0.012661726	31.80
3/5/15	6:00	1518	0.022	83	49	0.011857949	32.09
3/5/15	8:00	1524	0.022	82	49	0.011473387	32.29
3/5/15	10:00	1533	0.022	79	49	0.010385475	32.69
3/6/15	12:00	1540	0.022	77	51	0.010115071	32.98
3/6/15	8:00	1526	0.022	83	48	0.011611433	32.27
3/6/15	9:00	shut down					
Averages		1202.96	0.022	83.12	43.02	0.010448154	25.470

Site: Tisdale's Quick Stop
UST Permit #: 18686

Calculations - Pollutant Mass Removal in pounds									
Marg. Elap. Time	Elapsed Time (min)	Flow (DSCFM) (Qstd)	PPM measured (ppm)	K (#C-gas)	PPMg	Cg:m (mg/dsm^3)	Cg (lb/dscf)	PMRg (lb/hr)	PMR (lb)
0	0								
30	30	19.10088	796	1	796	4232.99	0.000264265	0.303	0.151
30	60	19.1854	852	1	852	4530.79	0.000282857	0.326	0.163
30	90	19.16455	859	1	859	4568.01	0.000285181	0.328	0.164
30	120	19.2278	871	1	871	4631.82	0.000289165	0.334	0.167
30	150	19.31187	892	1	892	4743.50	0.000296137	0.343	0.172
30	180	19.37434	936	1	936	4977.48	0.000310744	0.361	0.181
30	210	19.77316	957	1	957	5089.16	0.000317716	0.377	0.188
30	240	20.17198	978	1	978	5200.83	0.000324688	0.393	0.196
30	270	20.57408	994	1	994	5285.92	0.000330000	0.407	0.204
30	300	20.8686	1038	1	1038	5519.90	0.000344607	0.431	0.216
30	330	21.18415	1082	1	1082	5753.88	0.000359215	0.457	0.228
30	360	21.67344	1146	1	1146	6094.23	0.000380462	0.495	0.247
30	390	22.01077	1182	1	1182	6285.67	0.000392414	0.518	0.259
30	420	22.26377	1205	1	1205	6407.98	0.000400050	0.534	0.267
30	450	22.41135	1245	1	1245	6620.69	0.000413330	0.556	0.278
30	480	22.54495	1236	1	1236	6572.83	0.000410342	0.555	0.278
60	540	22.75625	1235	1	1235	6567.51	0.000410010	0.560	0.560
60	600	22.90415	1231	1	1231	6546.24	0.000408682	0.562	0.562
60	660	23.18709	1215	1	1215	6461.15	0.000403370	0.561	0.561
60	720	23.27179	1200	1	1200	6381.39	0.000398390	0.556	0.556
60	780	23.55589	1176	1	1176	6253.76	0.000390422	0.552	0.552
60	840	23.55589	1171	1	1171	6227.17	0.000388762	0.549	0.549
60	900	23.662	1131	1	1131	6014.46	0.000375483	0.533	0.533
480	1380	24.20178	671	1	671	3568.26	0.000222766	0.323	2.588
120	1500	24.12087	608	1	608	3233.24	0.000201851	0.292	0.584
120	1620	24.26264	546	1	546	2903.53	0.000181267	0.264	0.528

120	1740	24.51673	485	1	485	2579.14	0.000161016	0.237	0.474
120	1860	24.72899	456	1	456	2424.93	0.000151388	0.225	0.449
120	1980	24.94126	421	1	421	2238.80	0.000139769	0.209	0.418
120	2100	25.10156	412	1	412	2190.94	0.000136781	0.206	0.412
120	2220	25.47548	392	1	392	2084.59	0.000130141	0.199	0.398
120	2340	25.75262	377	1	377	2004.82	0.000125161	0.193	0.387
480	2820	28.9439	326	1	326	1733.61	0.000108229	0.188	1.504
120	2940	28.71272	321	1	321	1707.02	0.000106569	0.184	0.367
120	3060	28.92563	318	1	318	1691.07	0.000105573	0.183	0.366
120	3180	29.05268	312	1	312	1659.16	0.000103581	0.181	0.361
120	3300	29.24326	309	1	309	1643.21	0.000102585	0.180	0.360
120	3420	29.32814	304	1	304	1616.62	0.000100925	0.178	0.355
120	3540	29.60462	299	1	299	1590.03	0.000099266	0.176	0.353
120	3660	29.98826	296	1	296	1574.08	0.000098270	0.177	0.354
120	3780	30.2666	292	1	292	1552.80	0.000096942	0.176	0.352
480	4260	31.46251	248	1	248	1318.82	0.000082334	0.155	1.243
120	4380	31.40811	245	1	245	1302.87	0.000081338	0.153	0.307
120	4500	31.46902	239	1	239	1270.96	0.000079346	0.150	0.300
120	4620	31.62934	240	1	240	1276.28	0.000079678	0.151	0.302
120	4740	31.79732	238	1	238	1265.64	0.000079014	0.151	0.301
120	4860	32.08839	226	1	226	1201.83	0.000075030	0.144	0.289
120	4980	32.28722	221	1	221	1175.24	0.000073370	0.142	0.284
120	5100	32.6946	218	1	218	1159.29	0.000072374	0.142	0.284
120	5220	32.97522	215	1	215	1143.33	0.000071378	0.141	0.282
480	5700	32.26555	223	1	223	1185.87	0.000074034	0.143	1.147
60	5760	shut down							
Averages		25.47	668.35	1.00	668.35	3554.18	0.000221888	0.310	0.443
							Total Emission in pounds:		22.5816

Pollutant Mass Removal Calculations

Qstd = (1-water vapor) * velocity * (PI * (diameter/24)^2) * (528degrees R/(Temp + 460)
PPMg = PPM measured * K
Cg:m = PPMg * (Mg/K3)
Cg = Cg:m * 62.43E-09 lb-m^3/mg-ft^3
PMRg = Cg * Qstd * 60 min/hr
PMR = PMRg * ((T2 –T1)/60)

Qstd = Flow at DSCFM
Vacuum = The level of vacuum being applied should be recorded from the vacuum truck tank (inches of Hg)
Velocity = rate at which air flow is measured at the blower discharging pipe (anemometer)
Cross Sectional Area = area in ft^2 of discharge stack
Relative Humidity = The % relative humidity of the air stream exiting from the blower discharge piping
Water Vapor in % = Pounds of water/ pound of dry air, derived from the psychrometric chart (temp vs relative humidity)
PPM = PPM measurements taken with an OVA/ PID at the blower discharge piping
K = Number of carbons in calibration gas: K=1
PPMg = PPMv, Volumetric concentration as gasoline emission, dry basis at STP
Cg:m =mg/dsm3, mass concentration of gasoline emission
Mg = 128 mg/mg-mole, molecular weight of gasoline
K3 = 24.07 dsm^3/1E6 mg-mole, mass to volume conversion factor at STP
Cg = lb/dcsf, mass concentration of gasoline emission, dry basis at STP
PMRg = lb/hr, pollutant mass removal rate of gasoline emission
PMR = pollutant mass removal of gasoline emission over time

APPENDIX C

LIQUID DISPOSAL MANIFEST

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address
Tisdales Quick Stop
Kingstree SC

4. Generator's Phone ( )

5. Transporter 1 Company Name
HERA ENC

6. US EPA ID Number
NCR-000139816

A. State Transporter's ID

B. Transporter 1 Phone 704 640-2607

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
CWS 303 Maultsby St
Whiteville NC

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone 910-648-2608

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON-Reg Petroleum Contact Water		TT	7185	See
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Steve Rivenbark | Signature | Date: Month 3 Day 3 Year 15

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Mark Core | Signature | Date: Month 3 Day 3 Year 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Ryan Cox | Signature | Date: Month 3 Day 3 Year 15

NON-HAZARDOUS WASTE — GENERATOR — TRANSPORTER — FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address: TISDALE'S QUICK STOP, 1989 THURGOOD MARSHALL BLVD. KINGSTREE, SC

4. Generator's Phone ( )

5. Transporter 1 Company Name: HERR Inc.

6. US EPA ID Number: NCR-000139816

A. State Transporter's ID

B. Transporter 1 Phone: 910-640-2607

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: CWS, 307 E. MAULDIN ST. WHITEVILLE NC

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone: 910-640-2608

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non-Reg. Petroleum Contact Water			5557	GAL
b.				
c.				
d.				

GENERATOR

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

NON-HAZARDOUS WASTE

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Steve Riverbark — Signature — Date: Month 3 Day 4 Year 15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Mark Gore — Signature — Date: Month 3 Day 4 Year 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Tyler Cox — Signature — Date: Month 3 Day 4 Year 15

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NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address
Tisdales Quick Stop
Kingstree SC

4. Generator's Phone ( )

5. Transporter 1 Company Name
HERA INC

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone 9106802607

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
CWS 303 Mauntsby St
Whiteville NC.

10. US EPA ID Number

E. State Facility's ID
910-690 2608

F. Facility's Phone

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON-Reg Petroleum Contact Water		TT	6625	gal
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Steve Rivenbark — Signature — Date: Month 3 Day 5 Year 15

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Mark Gore — Signature — Date: Month 3 Day 5 Year 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Tyler Cox — Signature — Date: Month 3 Day 5 Year 15

NON-HAZARDOUS WASTE — GENERATOR — TRANSPORTER — FACILITY

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NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address: Tisdales Quick Mart Kingstree SC.

4. Generator's Phone ( )

5. Transporter 1 Company Name: HEBR INC

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: CWS 303 Mauldsby St Whiteville NC

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON Reg Petroleum Water Mix		TT	5113	Gal
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Steve Riverbark | Signature | Date: Month 3 Day 16 Year 15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Mark Gore | Signature | Date: Month 3 Day 16 Year 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: TOMMY COX | Signature | Date: Month 3 Day 16 Year 15

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address: TISDALES QUICK STOP, 1989 THURGOOD MARSHALL BLVD, KINGSTREE, SC

4. Generator's Phone ( )

5. Transporter 1 Company Name: HERR TRANSPORT, LLC

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone: 910-640-2607

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: CWS, 303 S. MAULTSBY ST., WHITEVILLE, NC

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone: 910-640-2608

GENERATOR

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit WL/Vol.
a. Non-Reg. Petroleum Contact Water	4	TT	5,116	GAL
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Steve Rivenbark — Signature — Date: Month 3 Day 6 Year 15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Mark Gore — Signature — Date: Month 3 Day 6 Year 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: RYAN COX — Signature — Date: Month 3 Day 6 Year 15

NON-HAZARDOUS WASTE

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D H E C
PROMOTE PROTECT PROSPER
W. Marshall Taylor Jr., Acting Director
Promoting and protecting the health of the public and the environment



MR MARTY EASLER
196 RICHBURG ROAD
GREELEYVILLE SC 29056

MAR 3 1 2015

Re: **AFVR Directive**
Tisdales Quick Stop, 1989 Thurgood Marshall Blvd, Kingstree, SC
UST Permit # 18686; CA#50006
Release reported March 30, 2001
AFVR Report received March 16, 2015
Williamsburg County

Dear Mr. Easler:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site utilizing Geological Resources, Inc. In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations, a 96-hour Aggressive Fluid and Vapor Recovery (AFVR) event\ may commence as outlined in the UST Quality Assurance Program Plan (QAPP) Revision 2.0. **Please be aware that the AFVR Procedures have been updated.** Please connect to MW-1a, MW-2a, MW-3a & 4a for the duration of the event. The stingers shall be lowered at six inch intervals starting at the water table interface to the maximum depth in all the wells. The maximum depth is currently unknown so please have the wells gauged prior to the event to determine total depth. A copy of Agency QAPP Version 2.0 for the Underground Storage Tank Division is available at http://www.dhec.sc.gov/environment/docs/qapp_rev-2_april2013.pdf.

As soon as the beginning date of the event has been scheduled, please contact Jim Martin at martinjm@dhec.sc.gov.

The AFVR Report should be submitted within 90 days from the date of this correspondence. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

Cost Agreement #50006 has been approved in the amount shown on the enclosed cost agreement. Geological Resources, Inc., can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. If the invoice and completed report are not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval is obtained from the UST Management Division. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved by the Agency for the cost to be paid. The Agency reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Agency reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

The Agency grants preapproval for transportation of virgin petroleum-contaminated groundwater from the referenced site to a permitted treatment facility.

On all correspondence concerning this site, please reference UST Permit #18686 and CA #50006. If you have any questions, please contact me at (803) 898-0605 or by e-mail at martinjm@dhec.sc.gov.

Sincerely,

Jim Martin, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Technical File (with enclosure)
Geological Resources, Inc., 3502 Hayes Rd., Monroe, NC 28110 (with enclosure)

Approved Cost Agreement 50006

Facility: 18686 TISDALES QUICK STOP

MARTINJM

PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0.1200	22,768.00	2,732.16
23 EFR						
		A4	96 HOUR EVENT	1.0000	12,567.50	12,567.50
		C4	OFF GAS TREATMENT 96 HOUR	1.0000	780.00	780.00
		D	SITE RECONNAISSANCE	1.0000	203.25	203.25
		E1	ADDITIONAL WELL HOOK-UPS	1.0000	25.75	25.75
		F1	EFFLUENT DISPOSAL	20,000.0000	0.44	8,800.00
		G	AFVR EQUIPMENT MOB	1.0000	391.50	391.50
				Total Amount		25,500.16

Geological Resources, Inc.

UST
MAY 15 2015
PROGRAM

May 13, 2015

UST
47 tech
DOCKETING

Mr. Jim Martin, Hydrogeologist
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201-1708

Re: AFVR Report
Tisdales Quick Stop
1989 Thurgood Marshall Blvd.
Kingstree, Williamsburg County
UST Permit #: 18686
CA #: 50006
GRI Project No. 1543

Dear Mr. Martin:

This report presents the results of the aggressive fluid-vapor recovery (AFVR) event conducted in April-May 2015 at the above referenced site. The activities were conducted in accordance with the requirements outlined in correspondence from the SCDHEC dated March 31, 2015 and addressed to Mr. Marty Easler. The purpose of the activities was to remove residual free-phase product and reduce dissolved phase contaminant concentrations in monitoring wells MW-1A, MW-2A, MW-3A and MW-4A. The following Figures, Tables and Appendix have been included:

Figure 1:	Site Location Map
Figure 2:	Site Map
Table 1:	AFVR Event Chronology – April 27 – May 1, 2015
Table 2:	Summary of Monitoring Well Gauging Data
Appendix A:	AFVR Report, Calculations, Disposal Manifests

Geological Resources, Inc. visited the site on April 8, 2015 to gauge monitoring wells MW-1A, MW-2A, MW-3A and MW-4A. Approximately 0.01 feet of free product was measured in MW-4A. There was no measurable amount of free product in MW-1A, MW-2A or MW-3A. The AFVR contractor, Hazmat Emergency Response and Remediation, Inc. (HERR), arrived on-site on April 27, 2015 for the AFVR event. The event was conducted on monitoring wells MW-1A, MW-2A, MW-3A and MW-4A. General weather conditions were sunny/fair with an ambient air temperature of approximately 76°F at the time of system start-up. No free product was measured in any of the extraction wells prior to the event. AFVR activities were conducted for ninety-six (96) hours on MW-1A, MW-2A, MW-3A and MW-4A using a vacuum truck with a maximum vacuum rating of 25 in. Hg and a capacity of 325 cubic feet per minute.

3502 Hayes Road • Monroe, North Carolina 28110
113 West Firetower Road, Suite G • Winterville, North Carolina 28590
Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012

During the course of the event, the vacuum at the wells remained steady at 22 in. Hg. Please note that the vacuum truck was equipped with an activated charcoal filter for off-gas treatment of vapor phase hydrocarbons. A total of 27,977 gallons of liquid were removed during the event. However, there was no measureable amount of liquid phase free product noted in the tanker. No measurable free product was present in any of the vacuum wells (MW-1A, MW-2A, MW-3A and MW-4A) at the conclusion of the event. Based on data collected during the AFVR event, an estimated total of 18.3904 pounds (approximately 2.94 gallons) of vapor phase hydrocarbons were calculated to have been removed during the event.

If you have any comments or questions concerning this project, please do not hesitate to contact the undersigned at (704) 845-4010.

Sincerely,
Geological Resources, Inc.

W. Scott Ball
Project Manager

JOHANNA MARIE TESCHNER REGISTERED No. 2576 PROFESSIONAL GEOLOGIST SOUTH CAROLINA

Johanna M. Teschner, P.G.
License No. 2576

Enclosures

cc: Mr. Marty Easler
File

FIGURES

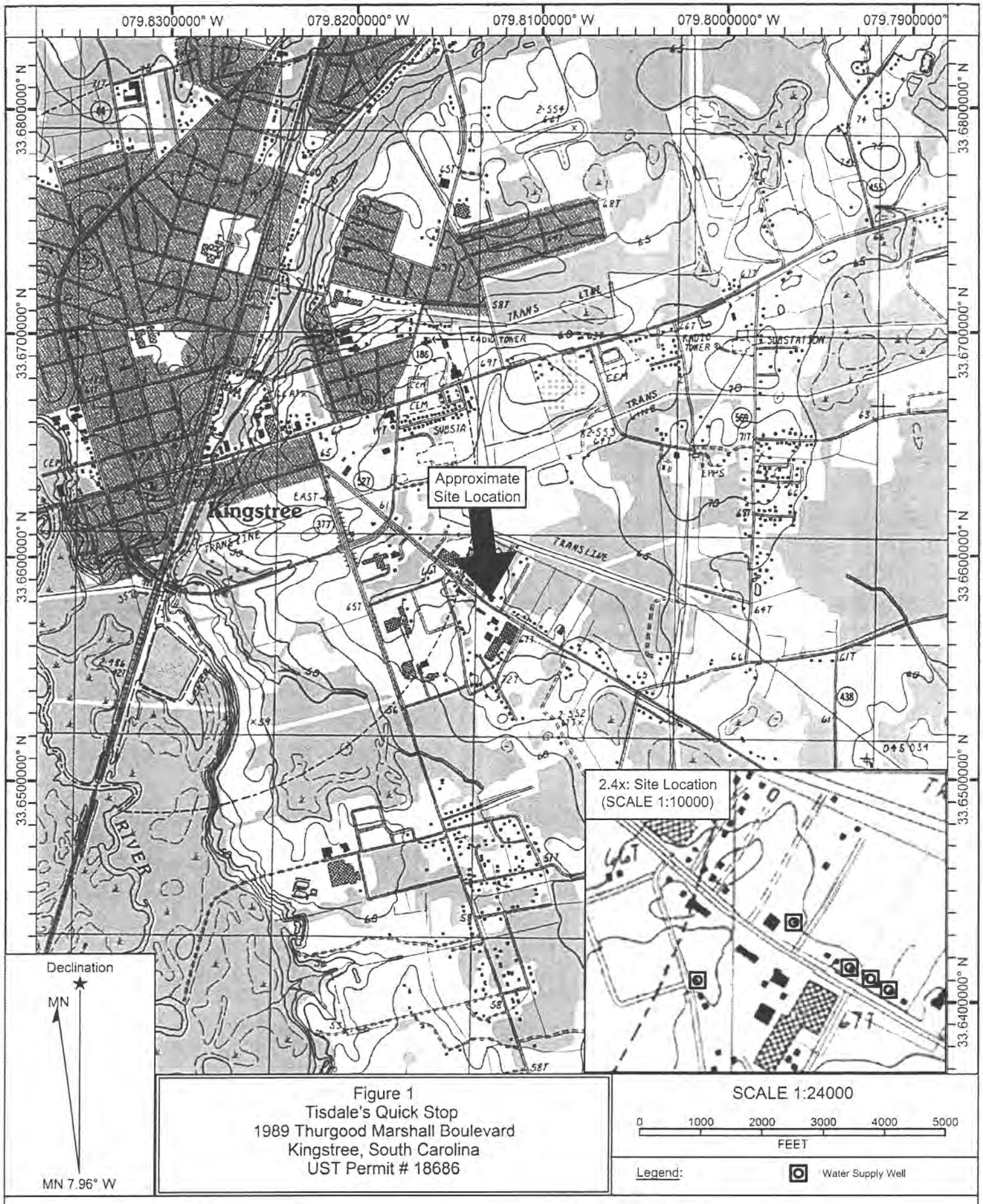


Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit # 18686

Name: Topographic Map
Date: 09/16/14
Scale: 1 inch = 2,000 ft.

Location: 033.6579897° N 079.8127613° W

Generated by ECH at Geological Resources, Inc.

LEGEND

- LIGHT POLE
- TELEPHONE PEDESTAL
- SEWER MANHOLE
- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- WATER SUPPLY WELL
- FIRE HYDRANT
- FIBER OPTIC CABLE MARKER
- PROPERTY LINE
- T — UNDERGROUND TELEPHONE LINE
- W — UNDERGROUND WATER LINE
- PP & OVERHEAD POWER LINE
- S — UNDERGROUND SEWER LINE
- G — UNDERGROUND GAS LINE
- FOC — UNDERGROUND FIBER OPTIC LINE
- D — DITCH
- X — FENCE
- 18-055 — WILLIAMSBURG COUNTY TAX MAP #
- (18) — PARCEL #

N

OPEN GRASS FIELD

WARSAW ROAD

DRIVEWAY

CONC.

WILLIAMSBURG TECHNICAL COLLEGE

BLOCK STORAGE BLDG.

BLOCK STORAGE BLDG.

WOODS

WOODS

SHED

WOODS

AST/LP GAS

LUCKY 77

SALVATION AVE.

MOBILE HOME

S-45-787

SC HIGHWAY 527

GATE

GATE

ABANDONED RES.

CANOPY

DIESEL DISP.

TBM
1/2" REBAR IN P.P.
ASSUMED ELEV. 100.00'

MW-1, MW-1A, MW-2, MW-2A, MW-3, MW-3A, MW-4, MW-4A, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-17 (DESTROYED), MW-18, MW-19, MW-20, MW-21 (NOT LOCATED), MW-22, MW-23, MW-24, MW-25, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31

TW-1, TW-2

WSW-1, WSW-2 (INACTIVE), WSW-3

18-055 (18), 18-055 (19), 18-055 (20), 18-055 (21), 18-055 (22), 18-055 (23), 18-055 (24)

11-40 (1)

18-056 (18), 18-056 (19)

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

SITE MAP

Tisdale Quick Stop — 1989 Thurgood Marshall Boulevard

Kingstree, Williamsburg County, SC — UST Permit # 18686

Date: 04/05/06	Drawn by: L. Mann	Figure: 2

GEOLOGICAL RESOURCES, INC.

TABLE 1
AFVR EVENT CHRONOLOGY
MARCH 2-6, 2015
TISDALE'S QUICK STOP
UST PERMIT #18686

Task	Hours	Personnel	Equipment	Company
Gauge Liquid Levels in MW-1A, MW-2A, MW-3A and MW-4A	7:30 4/27/15	Vacuum Truck Operator	Interface Probe	HERR
Vacuum Truck Setup for Fluid Removal in MW-1A, MW-2A, MW-3A and MW-4A	7:30 - 8:00 4/27/15	Vacuum Truck Operator	Vacuum Truck	HERR
Fluid Recovery in MW-1A, MW-2A, MW-3A and MW-4A	8:00 4/27/15 - 8:00 5/1/15	Vacuum Truck Operator	Vacuum Truck	HERR
Gauge Liquid Levels in MW-1A, MW-2A, MW-3A and MW-4A	8:30 5/1/15	Vacuum Truck Operator	Interface Probe	HERR

TABLE 2
SUMMARY OF MONITORING WELL GAUGING DATA
TISDALE'S QUICK STOP
UST PERMIT #18686

Well No.	Date	Time	Depth to Free Product	Depth to Ground Water	Free Product
MW-1A	4/7/2015	8:10	---	11.39	---
MW-2A		8:10	---	11.53	---
MW-3A		8:10	---	11.54	---
MW-4A		8:10	11.72	11.73	0.01
MW-1A	04/27/15	7:45	---	12.82	---
MW-2A		7:45	---	11.92	---
MW-3A		7:45	---	11.83	---
MW-4A		7:45	---	12.60	---
MW-1A	05/01/15	08:15	---	14.12	---
MW-2A		08:15	---	14.15	---
MW-3A		08:15	---	14.69	---
MW-4A		08:15	---	13.45	---

Note:
• Data reported in feet.

APPENDIX

APPENDIX A

AFVR Report, Calculations, Disposal Manifests

HAZMAT EMERGENCY RESPONSE AND REMEDIATION, INC.
PO Box 2345 · 303 South Maultsby Street · Whiteville, NC 28472 · Phone: 910-640-2607
Fax: 910-640-2609 · e-mail: herrteam@hotmail.com · www.herrteam.com

Friday, May 8, 2015

Scott Ball
Geological Resources, Inc.
3502 Hayes Rd
Monroe, NC 28110

Re: Site Name: Tisdale's Quick Stop
Kingstree, SC
UST Permit #: 18686

Scott,

Hazmat Emergency Response and Remediation, Inc. (HERR) completed one 96 hour Aggressive Fluid Vapor Recovery (AFVR) event at the above site on April 27 – May 1, 2015. Included is the documentation for the event. The 96 hour event was conducted on monitoring wells MW-1A, MW-2A, MW-3A, and MW-4A.

If you have any questions, please do not hesitate to contact our office.

Sincerely,

Marc Cox
HERR Project Manager

Tisdale's Quick Stop
Kingstree, SC
April 27-May1, 2015

AFVR

HERR mobilized personnel and equipment to Tisdale's Quick Stop on 04/27/15. The ambient temperature was 76 deg F and weather conditions were sunny/fair. The depths to product and water were measured prior to and subsequent to the AFVR event (See attached data). Personnel from Geological Resources, Inc. (GRI) were on site to supervise the event.
The 96 Hour AFVR event was conducted using a Global Vacuum Liquid Ring Pump with off gas treatment through a vapor phase granular activated carbon scrubber. The vacuum unit is capable of providing 325 CFM at 25 inches of mercury.

Pollutant Mass Removal

Total weight of 18.3904 pounds of petroleum in the vapor phase (total non-methane organic emissions) was removed during the 96 hour AFVR event. This amount is based on data collected during the AFVR event (see attached data sheets).

Liquid Disposal

Approximately 27,977 gallons of petroleum contact water was collected during the AFVR event (See attached disposal manifest)

APPENDICES

A. AFVR FIELD NOTES
B. POLLUTANT MASS REMOVAL DATA SHEET
C. LIQUID DISPOSAL MANIFEST

APPENDIX A

AFVR FIELD NOTES

HERR, Inc.

AFVR – Field Notes

Site Name: TISDALE'S QUICK STOP Location: KINGSTREE, SC

AFVR Contractor: HERR, Inc. Personnel: Steve

Date: 4/27/15 - 5/1/15 Ambient Air Temperature and General Weather Condition: Sunny - Foni 76°

Start Time 1: 8:00 Stop Time 1: 8:00 Start Time 2: _____ Stop Time 2: _____

Total volume of water removed during the 8-hour AFVR Event: 27,977 gal.

Total volume of product removed during the 8-hour AFVR Event: ~2.94 Gallons - VAPOR PHASE

Product Recovery Rate: _____

Monitoring Well	Depth to product prior to stinger placement (ft. below TOC)	Depth to water prior to stinger placement (ft. below TOC)	Depth to product at cessation of vacuuming (ft. below TOC)	Depth to water at cessation of vacuuming (ft. below TOC)	Estimated volume of water removed during this event	Relevant Observations
MW1A	-0-	12.82	-0-	14.12		
MW2A	-0-	11.92	-0-	14.15		
MW3A	-0-	11.93	-0-	14.69		
MW4A	-0-	12.60	-0-	13.45		

Aggressive Fluid/Vapor Recovery Notes

vacuum conversion: (inches of water X 0.07355 = inches of mercury)

	4R	MW- 1R	MW- 2R	MW- 3R	Stinger Placement			
	Time	Vacuum at Targeted Well (in. Hg)	Vacuum at Targeted Well (in. Hg)	Vacuum at Targeted Well (in. Hg)	Stinger Depth	Product Depth	Water Level	Notes
MW1R					14'	--	12.82	14.12
MW2R					14'	--	11.92	14.15
MW3R					14'	--	11.83	14.69
MW4R					14'	--	12.60	13.45
Mon								
8.00	22	22	22	22				
12.00	22	22	22	22	14.5			
6.00	22	22	22	22				
12.00	22	22	22	22				
Tue								
8.00	22	22	22	22				
12.00	22	22	22	22	15'			
6.00	22	22	22	02				
12.00	22	22	22	22				
Wed								
8.00	22	22	22	22				
12.00	22	22	02	22				
6.00	22	22	22	22				
12.00	22	22	22	22				
Th								
8.00	22	22	22	22				
12.00	22	22	22	22				
6.00	22	22	22	22				
12.00	22	22	22	22				
Fri	Shut	Down						

Vacuum at Pump: 25" @ 4pm

Aggressive Fluid/Vapor Recovery Notes

	Time	PID at stack (ppm)	PID after off-gas treatment (carbon) (ppm)	Velocity (ft. / min.)	Temperature (Farenheit)	Relative Humidity (%)	Other
	8:00						
Mon. 4-27	8:30	695	118	972	92	54	
	9:00	726	121	980	96	54	
	9:30	731	122	987	102	54	
	10:00	729	122	994	105	54	
	10:30	721	121	1002	112	54	
	11:00	715	119	1011	115	54	
	11:30	708	119	1016	116	54	
	12:00	699	117	1022	116	54	
	12:30	691	115	1026	117	54	
	1:00	687	114	1031	117	54	
	1:30	682	114	1036	117	54	
	2:00	678	113	1042	117	54	
	2:30	670	112	1050	117	54	
	3:00	655	110	1065	117	54	
	3:30	641	108	1073	117	54	
	4:00	636	107	1079	117	54	
	5:00	615	103	1084	116	54	
	6:00	596	102	1095	115	54	
	7:00	584	100	1104	115	54	
	8:00	577	98	1113	113	54	
	9:00	572	97	1116	112	54	
	10:00	569	96	1120	112	54	
	11:00	560	94	1126	112	54	
	12:00	554	93	1129	112	54	

Aggressive Fluid/Vapor Recovery Notes

	Time	PID at stack (ppm)	PID after off-gas treatment (carbon) (ppm)	Velocity (ft. / min.)	Temperature (Farenheit)	Relative Humidity (%)	Other
Tues. 4-29	8:00	441	82	1257	114	53	
	10:00	427	80	1278	115	53	
	12:00	415	78	1291	116	53	
	2:00	407	74	1314	116	53	
	4:00	395	72	1322	115	53	
	6:00	371	69	1336	113	53	
	8:00	357	66	1352	112	53	
	10:00	341	65	1362	112	53	
	12:00	327	62	1385	112	53	
Wed. 4-29	8:00	315	58	1471	110	55	
	10:00	312	59	1475	112	55	
	12:00	306	57	1477	114	55	
	2:00	305	57	1492	114	55	
	4:00	301	57	1485	113	55	
	6:00	301	57	1498	112	55	
	8:00	298	56	1492	112	55	
	10:00	297	57	1494	112	55	
	12:00	294	54	1495	112	55	
Thurs 4-30	8:00	277	55	1527	113	54	
	10:00	275	54	1530	115	54	
	12:00	273	54	1533	116	54	
	2:00	273	53	1535	116	54	

Aggressive Fluid/Vapor Recovery Notes

Time	PID at stack (ppm)	PID after off-gas treatment (carbon) (ppm)	Velocity (ft. / min.)	Temperature (Farenheit)	Relative Humidity (%)	Other
Cont. Tues 4-30 4:00	261	51	1538	115	54	
5:00	268	50	1539	115	54	
9:00	266	49	1541	114	54	
10:00	267	48	1545	112	54	
12:00	265	42	1549	112	54	
Fri. 5-1 8:00	228	35	1512	111	56	

APPENDIX B

POLLUTANT MASS REMOVAL DATA SHEETS

Site: Tisdale's Quick Stop
UST Permit #: 18686

Calculations - Flow at DSCFM							
Date	Time	Velocity (ft/min)	Cross Sec. Stack Area (ft^2)	Temperature (F)	Rel. Humidity	Water Vapor (%)	Qstd (flow)
4/27/15	8:00						
4/27/15	8:30	972	0.022	92	54	0.017537570	20.10
4/27/15	9:00	980	0.022	96	54	0.019914952	20.07
4/27/15	9:30	987	0.022	102	54	0.024028322	19.91
4/27/15	10:00	994	0.022	105	54	0.026360840	19.90
4/27/15	10:30	1002	0.022	112	54	0.032626477	19.68
4/27/15	11:00	1011	0.022	115	54	0.035707382	19.69
4/27/15	11:30	1016	0.022	116	54	0.036792442	19.74
4/27/15	12:00	1022	0.022	116	54	0.036792442	19.85
4/27/15	12:30	1026	0.022	117	54	0.037907872	19.87
4/27/15	1:00	1031	0.022	117	54	0.037907872	19.97
4/27/15	1:30	1036	0.022	117	54	0.037907872	20.07
4/27/15	2:00	1042	0.022	117	54	0.037907872	20.18
4/27/15	2:30	1050	0.022	117	54	0.037907872	20.34
4/27/15	3:00	1065	0.022	117	54	0.037907872	20.63
4/27/15	3:30	1073	0.022	117	54	0.037907872	20.78
4/27/15	4:00	1078	0.022	117	54	0.037907872	20.88
4/27/15	5:00	1084	0.022	116	54	0.036792442	21.06
4/27/15	6:00	1095	0.022	115	54	0.035707382	21.33
4/27/15	7:00	1104	0.022	115	54	0.035707382	21.51
4/27/15	8:00	1113	0.022	113	54	0.033625170	21.80
4/27/15	9:00	1116	0.022	112	54	0.032626477	21.92
4/27/15	10:00	1120	0.022	112	54	0.032626477	22.00
4/27/15	11:00	1126	0.022	112	54	0.032626477	22.12
4/28/15	12:00	1128	0.022	112	54	0.032626477	22.16
4/28/15	8:00	1257	0.022	114	53	0.033975132	24.57
4/28/15	10:00	1278	0.022	115	53	0.035008916	24.91

4/28/15	12:00	1291	0.022	116	53	0.036071588	25.10
4/28/15	2:00	1314	0.022	116	53	0.036071588	25.54
4/28/15	4:00	1322	0.022	115	53	0.035008916	25.77
4/28/15	6:00	1336	0.022	113	53	0.032969476	26.19
4/28/15	8:00	1352	0.022	112	53	0.031991207	26.58
4/28/15	10:00	1362	0.022	112	53	0.031991207	26.77
4/29/15	12:00	1385	0.022	112	53	0.031991207	27.23
4/29/15	8:00	1471	0.022	110	55	0.031307561	29.04
4/29/15	10:00	1475	0.022	112	55	0.033262982	28.96
4/29/15	12:00	1477	0.022	114	55	0.035330036	28.83
4/29/15	2:00	1482	0.022	114	55	0.035330036	28.93
4/29/15	4:00	1485	0.022	113	55	0.034282178	29.07
4/29/15	6:00	1488	0.022	112	55	0.033262982	29.21
4/29/15	8:00	1492	0.022	112	55	0.033262982	29.29
4/29/15	10:00	1494	0.022	112	55	0.033262982	29.33
4/30/15	12:00	1495	0.022	112	55	0.033262982	29.35
4/30/15	8:00	1527	0.022	113	54	0.033625170	29.91
4/30/15	10:00	1530	0.022	115	54	0.035707382	29.80
4/30/15	12:00	1533	0.022	116	54	0.036792442	29.78
4/30/15	2:00	1535	0.022	116	54	0.036792442	29.82
4/30/15	4:00	1538	0.022	115	54	0.035707382	29.96
4/30/15	6:00	1539	0.022	115	54	0.035707382	29.98
4/30/15	8:00	1541	0.022	114	54	0.034651885	30.10
4/30/15	10:00	1545	0.022	112	54	0.032626477	30.35
5/1/15	12:00	1549	0.022	112	54	0.032626477	30.43
5/1/15	8:00	1612	0.022	111	56	0.032889472	31.71
5/1/15	8:00	shut down					
Averages		1268.77	0.022	112.92	54.04	0.033848695	24.848

Site: Tisdale's Quick Stop
UST Permit #: 18686

Calculations - Pollutant Mass Removal in pounds									
Marg. Elap. Time	Elapsed Time (min)	Flow (DSCFM) (Qstd)	PPM measured (ppm)	K (#C-gas)	PPMg	Cg:m (mg/dsm^3)	Cg (lb/dscf)	PMRg (lb/hr)	PMR (lb)
0	0								
30	30	20.10	695	1	695	3695.89	0.000230734	0.2782	0.1391
30	60	20.07	726	1	726	3860.74	0.000241026	0.2902	0.1451
30	90	19.91	731	1	731	3887.33	0.000242686	0.2899	0.1450
30	120	19.90	728	1	728	3871.38	0.000241690	0.2885	0.1443
30	150	19.68	721	1	721	3834.15	0.000239366	0.2827	0.1414
30	180	19.69	715	1	715	3802.24	0.000237374	0.2805	0.1403
30	210	19.74	708	1	708	3765.02	0.000235050	0.2783	0.1392
30	240	19.85	699	1	699	3717.16	0.000232062	0.2764	0.1382
30	270	19.87	691	1	691	3674.62	0.000229406	0.2735	0.1368
30	300	19.97	687	1	687	3653.34	0.000228078	0.2733	0.1366
30	330	20.07	682	1	682	3626.76	0.000226418	0.2726	0.1363
30	360	20.18	678	1	678	3605.48	0.000225090	0.2726	0.1363
30	390	20.34	670	1	670	3562.94	0.000222434	0.2714	0.1357
30	420	20.63	655	1	655	3483.17	0.000217455	0.2691	0.1346
30	450	20.78	641	1	641	3408.72	0.000212807	0.2654	0.1327
30	480	20.88	636	1	636	3382.14	0.000211147	0.2645	0.1323
60	540	21.06	615	1	615	3270.46	0.000204175	0.2580	0.2580
60	600	21.33	596	1	596	3169.42	0.000197867	0.2532	0.2532
60	660	21.51	584	1	584	3105.61	0.000193883	0.2502	0.2502
60	720	21.80	577	1	577	3068.38	0.000191559	0.2506	0.2506
60	780	21.92	572	1	572	3041.79	0.000189899	0.2498	0.2498
60	840	22.00	568	1	568	3020.52	0.000188571	0.2489	0.2489
60	900	22.12	560	1	560	2977.98	0.000185915	0.2468	0.2468
60	960	22.16	554	1	554	2946.07	0.000183923	0.2445	0.2445
480	1440	24.57	441	1	441	2345.16	0.000146408	0.2159	1.7269
120	1560	24.91	427	1	427	2270.71	0.000141760	0.2119	0.4238

120	1680	25.10	415	1	415	2206.90	0.000137777	0.2075	0.4149
120	1800	25.54	403	1	403	2143.08	0.000133793	0.2050	0.4101
120	1920	25.77	395	1	395	2100.54	0.000131137	0.2028	0.4056
120	2040	26.19	371	1	371	1972.91	0.000123169	0.1936	0.3871
120	2160	26.58	357	1	357	1898.46	0.000118521	0.1890	0.3780
120	2280	26.77	341	1	341	1813.38	0.000113209	0.1819	0.3637
120	2400	27.23	327	1	327	1738.93	0.000108561	0.1773	0.3547
480	2880	29.04	315	1	315	1675.11	0.000104577	0.1822	1.4577
120	3000	28.96	312	1	312	1659.16	0.000103581	0.1800	0.3599
120	3120	28.83	306	1	306	1627.25	0.000101589	0.1758	0.3515
120	3240	28.93	305	1	305	1621.94	0.000101257	0.1758	0.3515
120	3360	29.07	301	1	301	1600.66	0.000099929	0.1743	0.3486
120	3480	29.21	301	1	301	1600.66	0.000099929	0.1752	0.3503
120	3600	29.29	298	1	298	1584.71	0.000098934	0.1739	0.3477
120	3720	29.33	297	1	297	1579.39	0.000098602	0.1735	0.3470
120	3840	29.35	294	1	294	1563.44	0.000097606	0.1719	0.3438
480	4320	29.91	277	1	277	1473.04	0.000091962	0.1651	1.3205
120	4440	29.80	275	1	275	1462.40	0.000091298	0.1633	0.3265
120	4560	29.78	273	1	273	1451.77	0.000090634	0.1619	0.3239
120	4680	29.82	273	1	273	1451.77	0.000090634	0.1621	0.3243
120	4800	29.96	269	1	269	1430.49	0.000089306	0.1605	0.3211
120	4920	29.98	268	1	268	1425.18	0.000088974	0.1600	0.3201
120	5040	30.10	266	1	266	1414.54	0.000088310	0.1595	0.3190
120	5160	30.35	267	1	267	1419.86	0.000088642	0.1614	0.3229
120	5280	30.43	265	1	265	1409.22	0.000087978	0.1606	0.3213
480	5760	31.71	228	1	228	1212.46	0.000075694	0.1440	1.1523
Averages		24.85	472.23	1.00	472.23	2511.24	0.000156777	0.2191	0.3537
							Total Emission in pounds:		18.3904

Pollutant Mass Removal Calculations

Qstd = (1-water vapor) * velocity * (PI * (diameter/24)^2) * (528degrees R/(Temp + 460)
PPMg = PPM measured * K
Cg:m = PPMg * (Mg/K3)
Cg = Cg:m * 62.43E-09 lb-m^3/mg-ft^3
PMRg = Cg * Qstd * 60 min/hr
PMR = PMRg * ((T2 –T1)/60)

Qstd = Flow at DSCFM
Vacuum = The level of vacuum being applied should be recorded from the vacuum truck tank (inches of Hg)
Velocity = rate at which air flow is measured at the blower discharging pipe (anemometer)
Cross Sectional Area = area in ft^2 of discharge stack
Relative Humidity = The % relative humidity of the air stream exiting from the blower discharge piping
Water Vapor in % = Pounds of water/ pound of dry air, derived from the psychrometric chart (temp vs relative humidity)
PPM = PPM measurements taken with an OVA/ PID at the blower discharge piping
K = Number of carbons in calibration gas: K=1
PPMg = PPMv, Volumetric concentration as gasoline emission, dry basis at STP
Cg:m =mg/dsm3, mass concentration of gasoline emission
Mg = 128 mg/mg-mole, molecular weight of gasoline
K3 = 24.07 dsm^3/1E6 mg-mole, mass to volume conversion factor at STP
Cg = lb/dcsf, mass concentration of gasoline emission, dry basis at STP
PMRg = lb/hr, pollutant mass removal rate of gasoline emission
PMR = pollutant mass removal of gasoline emission over time

APPENDIX C

LIQUID DISPOSAL MANIFEST

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address
Tisdale Quick Stop
Kingstree SC

4. Generator's Phone ( )

5. Transporter 1 Company Name
HERA Transport

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone 910-640-2607

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
CWS 303 Mauldin Rd
Whiteville NC.

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone 910-640-2688

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON-Reg Petroleum Contact Water	HD	TT	6518	Gals
b.				
c.				
d.				

GENERATOR

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date (Month / Day / Year)
Steve Rivenbark		5 / 1 / 15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)
Scott Strickland		5 / 1 / 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date (Month / Day / Year)
Ryan Cox		5 / 1 / 15

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address
Tisdales Quick Stop
Kingstree SC.

4. Generator's Phone ( )

5. Transporter 1 Company Name
HERR Transport

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone 910-640-2607

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
CWS 303 Maultsby St
Whiteville NC

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone
910-640-2608

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON-Reg Petroleum Contact Water	HT	TT	6572	Gal
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. This materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Steve Rivenbark		4	30	15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Scott Strickland		4	30	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
Ryan Cox		4	30	15

NON-HAZARDOUS WASTE

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Rev. 3/95

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address
Tisdales Quick Stop
Kingstree SC

4. Generator's Phone ( )

5. Transporter 1 Company Name
HERR Transport

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone 910-640-2667

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
CWS 303 Maultsby St
Whiteville NC.

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone 910-640-2608

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON-Reg Petroleum Water	HM	TT	6435	Bbl
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Steve Rivenbark | Signature | Date: Month 4 Day 29 Year 15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Scott Strickland | Signature | Date: Month 4 Day 29 Year 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Tyler Cox | Signature | Date: Month 4 Day 29 Year 15

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address: TISDALE'S QUICK STOP
1989 THURGOOD MARSHALL BLVD
KINGSTREE, SC

4. Generator's Phone ( )

5. Transporter 1 Company Name: HERR

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone: 910.640.2607

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: CWS
313 S. MAULTSBY ST
WHITEVILLE, NC

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone: 910-640-2608

GENERATOR

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non-Reg. Petroleum Contact Water	1	TT	4952	GAL
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Steve Riverbark | Signature | Date: Month 4 Day 28 Year 15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Scott Strickland | Signature | Date: Month 4 Day 28 Year 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: TUAN Cox | Signature | Date: Month 4 Day 28 Year 15

NON-HAZARDOUS WASTE

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NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address: TISDALE'S QUICK STOP
1989 THURGOOD MARSHALL BLVD.
KINGSTREE, SC

4. Generator's Phone ( )

5. Transporter 1 Company Name: Herr Transport

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone: 910-640-2607

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address:
EWS
303 Smaultsby St
Whiteville N.C

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone: 910-640-2608

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non-Reg Petroleum Contact Water	4T1	TT	3500	Gals
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Steve Rivenbark

Signature: Steve E Rivenbark

Date: Month 4 Day 27 Year 15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Scott Strickland

Signature: Scott

Date: Month 4 Day 27 Year 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: RYAN Cox

Signature: Ryan Cox

Date: Month 4 Day 27 Year 15

NON-HAZARDOUS WASTE

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Rev. 3/95

D H E C

PROMOTE PROTECT PROSPER

W. Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment

MR MARTY EASLER
196 RICHBURG ROAD
GREELEYVILLE SC 29056

MAY 2 8 2015



Re: **Site Specific Work Plan Request**
Tisdales Quick Stop, 1989 Thurgood Marshall Blvd, Kingstree, SC
UST Permit # 18686
Release reported March 30, 2001
AFVR Report received May 15, 2015
Williamsburg County

Dear Mr. Easler:

The Underground Storage Tank (UST) Management Division (Division) of the South Carolina Department of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site using Geological Resources, Inc., as your contractor. The next scope of work is a groundwater sampling event as outlined in Revision 2.0 of the UST Quality Assurance Program Plan (QAPP). Please have your contractor plan to conduct a comprehensive groundwater sampling of all monitoring wells located at the site. Samples should be analyzed for BTEX, Naphthalene, Oxygenates, 1,2-DCA, MTBE, and EDB, in accordance with QAPP Rev. 2.0, and in compliance with all applicable regulations. A copy of the QAPP is available at http://www.scdhec.gov/environment/docs/qapp_rev-2_april2013.pdf.

Please have your contractor complete and submit the Site Specific Work Plan and Cost Agreement within thirty (30) days of the date of this letter. The Site Specific Work Plan form can be found at http://www.dhec.sc.gov/library/D-0653.pdf. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that technical and financial preapproval from the Agency must be issued before work begins.**

On all correspondence concerning this site, please reference UST Permit # 18686. If there are any questions, feel free to contact me by telephone at (803) 898-0605, by fax at (803) 898-0673, or by e-mail at martinjm@dhec.sc.gov.

Sincerely,

Jim Martin, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Geological Resources, Inc., 3502 Hayes Rd., Monroe, NC 28110
Technical File

Geological Resources, Inc.

UST
JUN 04 2015
DIVISION

UST
4944ch
DOCKETING

June 1, 2014

Mr. Jim Martin
South Carolina Department of Health
And Environmental Control
Underground Storage Tank Management Division
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201

Re: Site Specific Work Plan
Tisdale's Quick Stop
1989 Thurgood Marshall Blvd
Kingstree, Williamsburg County
UST Permit No. 18686

Dear Mr. Martin:

Attached is a Site Specific Work Plan for approved ACQAP and the associated Assessment Component Cost Agreement for the above referenced site in Kingstree, Williamsburg County, South Carolina.

Please contact me at (704) 845-4010 or by e-mail at wsb@geologicalresourcesinc.com if you have questions or comments concerning this matter.

Sincerely,

W. Scott Ball
Senior Project Manager

Enclosures

cc: file

3502 Hayes Road • Monroe, North Carolina 28110
Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012

D H E C

PROMOTE PROTECT PROSPER

Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division

To: Jim Martin (SCDHEC Project Manager)

From: Scott Ball (Contractor Project Manager)

Contractor: Geological Resources, Inc. UST Contractor Certification Number: 74

Facility Name: Tisdale's Quick Stop UST Permit #: 18686

Facility Address: 1989 Thurgood Marshall Blvd, Kingstree, Williamsburg County, SC

Responsible Party: Mr. Marty Easler Phone: (843) 426-2557

RP Address: 196 Richburg Road, Greeleyville, SC 29056

Property Owner (if different): Andy McKnight

Property Owner Address: 316 McCullough Loop,Kingstree, SC

Current Use of Property: Commercial - Restaurant

Scope of Work (Please check all that apply)

- ☐ IGWA
- ☐ Tier I
- ☐ Tier II
- ☐ Monitoring Well Installation
- ☑ Groundwater Sampling
- ☐ Other
- ☐ GAC

Analyses (Please check all that apply)

Groundwater/Surface Water:

- ☑ BTEXNMDCA (8260B)
- ☑ Oxygenates (8260B)
- ☑ EDB (8011)
- ☐ PAH (8270D)
- ☐ Lead
- ☐ 8 RCRA Metals
- ☐ TPH
- ☐ pH
- ☐ BOD
- ☐ Nitrate
- ☐ Sulfate
- ☐ Other
- ☐ Methane
- ☐ Ethanol
- ☐ Dissolved Iron

Soil:

- ☐ BTEXN
- ☐ PAH
- ☐ 8 RCRA Metals
- ☐ Oil & Grease (9071)
- ☐ TPH-DRO (3550B/8015B)
- ☐ TPH-GRO (5030B/8015B)
- ☐ Grain Size
- ☐ TOC

Air:

- ☐ BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

____ Soil	2 Water Supply Wells	____ Air	1 Field Blank
36 Monitoring Wells	____ Surface Water	2 Duplicate	1 Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

# of shallow points proposed: NA Estimated Footage: ____ feet per point

# of deep points proposed: ____ Estimated Footage: ____ feet per point

Field Screening Methodology: ____

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells: NA Estimated Footage: ____ feet per point

# of deep wells: ____ Estimated Footage: ____ feet per point

# of recovery wells: ____ Estimated Footage: ____ feet per point

Monitoring Well development method (consistent with SOP): ____

Comments, if warranted:

UST Permit #: 18686 Facility Name: Tisdale's Quick Stop

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 5 days from approval Field Work Completion: 8 days from approval
Report Submittal: 45 days from approval # of Copies Provided to Property Owners: 1

Aqulfer Characterization
Pump Test: ☐ Slug Test: ☐ (Check one and provide explanation below for choice)
NA

Investigation Derived Waste Disposal
Soil: _____ Tons Purge Water: 100 Gallons
Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons

Additional Details For This Scope of Work
For example, list wells to be sampled, wells to be abandoned/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.
Sample monitoring wells MW-1 through MW16, MW-18 through MW-31, MW-1A through MW-4A, TW-1 and TW-2. Sample water supply wells WSW-1 and WSW-3. If any of the monitoring wells contain free product they will only be gauged and no samples will be collected. All ground water samples collected will be submitted for analyses of BTEX, MTBE, naphthalene, 1, 2-DCA and 8 oxygenates by Method 8260 and EDB by Method 8011.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)
Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.
Name of Laboratory: _____
SCDHEC Certification Number: _____
Name of Laboratory Director: _____

NA Well Driller as indicated in ACQAO? (Yes/No) If no, indicate driller information below.
Name of Well Driller: _____
SCLLR Certification Number: _____

NA Other variations from ACQAP. Please describe below.

Attachments
1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:
   - North Arrow
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664

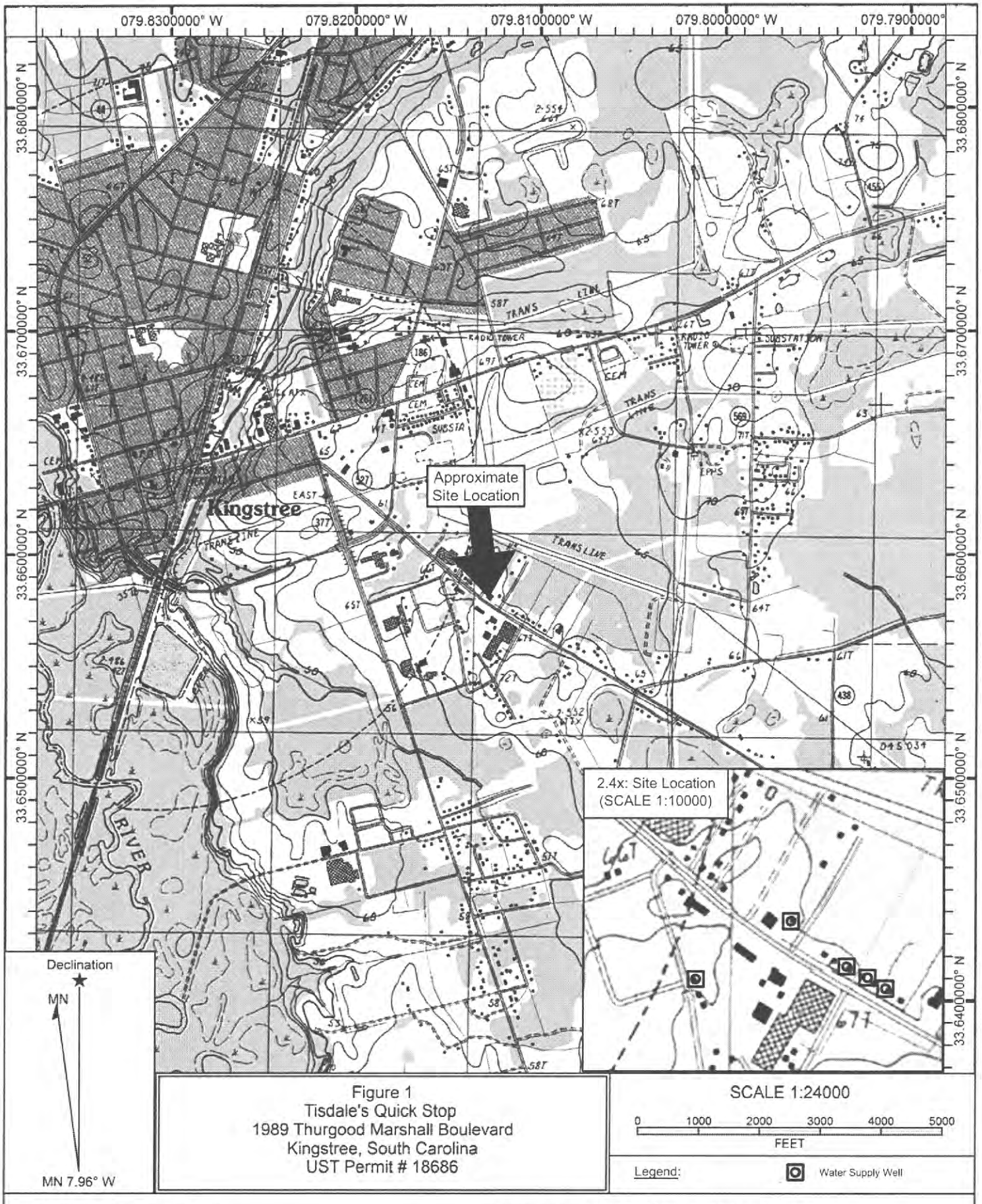


Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit # 18686

SCALE 1:24000

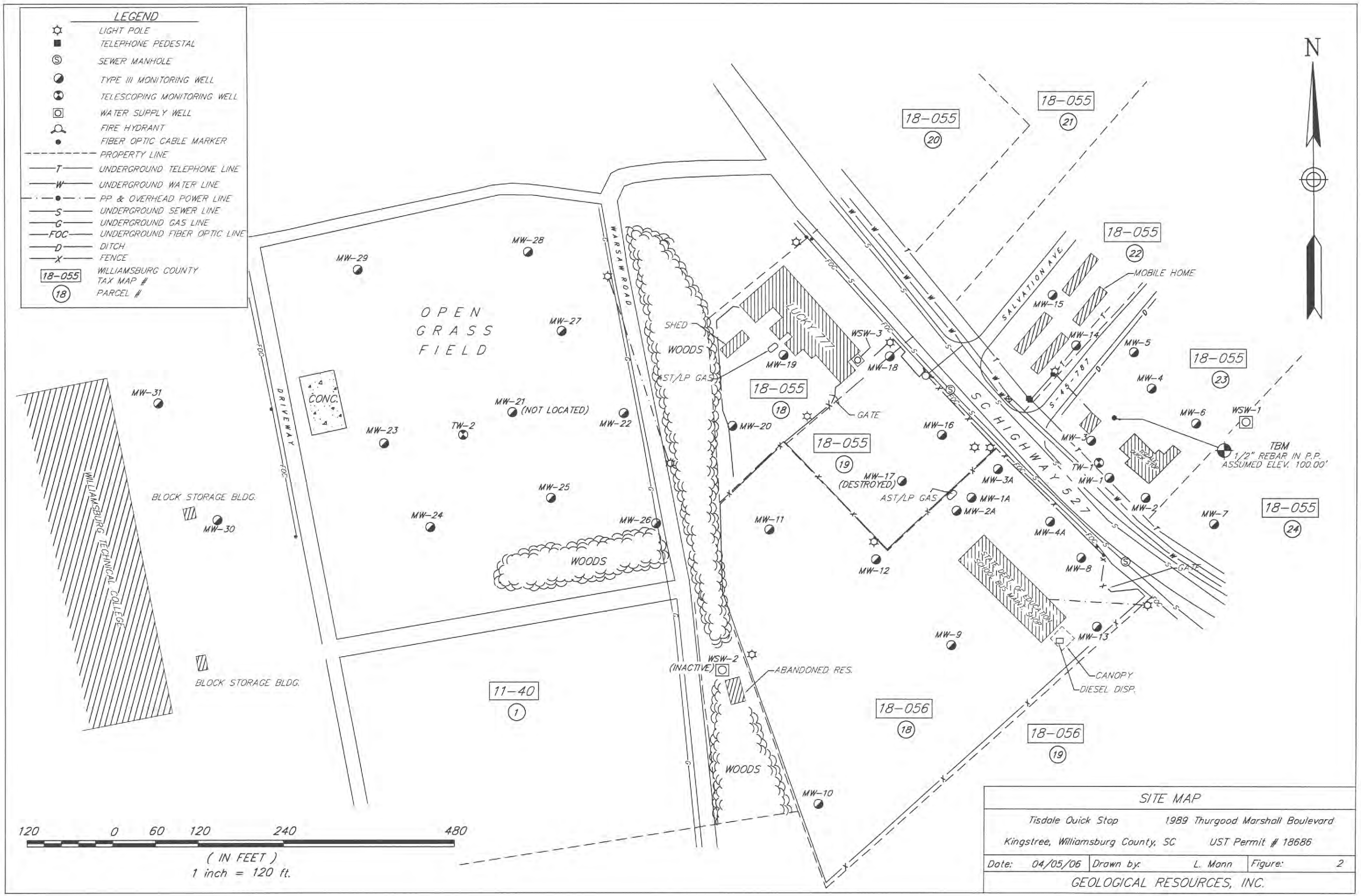
0 1000 2000 3000 4000 5000
FEET

Legend: Water Supply Well

Name: Topographic Map
Date: 09/16/14
Scale: 1 inch = 2,000 ft.

Location: 033.6579897° N 079.8127613° W

Generated by ECH at Geological Resources, Inc.



SITE MAP

Tisdale Quick Stop — 1989 Thurgood Marshall Boulevard

Kingstree, Williamsburg County, SC — UST Permit # 18686

Date: 04/05/06	Drawn by: L. Mann	Figure: 2

GEOLOGICAL RESOURCES, INC.

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

ASSESSMENT COMPONENT INVOICE
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
May 15, 2014

Facility Name: Tisdale's Quick Stop

GRI Proposal #15-330

UST Permit #: 18686 **Cost Agreement #:**

ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
1. **Plan Preparation**					
A1. Site-specific Work Plan	1	each	$150.00		$150.00
B1. Tax Map		each	$70.00		$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00		$0.00
2. A1. **Receptor Survey ***		each	$551.00		$0.00
3. **Survey (500 ft x 500 ft)**					
A1. Comprehensive Survey		each	$1,040.00		$0.00
B. Subsurface Geophysical Survey					
1B. < 10 meters below grade		each	$1,300.00		$0.00
2B. > 10 meters below grade		each	$2,310.00		$0.00
C1. Geophysical UST or Drum Survey		each	$910.00		$0.00
4. **Mob/Demob**					
A1. Equipment		each	$1,020.00		$0.00
B1. Personnel	2	each	$423.00		$846.00
C1. Adverse Terrain Vehicle		each	$500.00		$0.00
5. A1. **Soil Borings (hand auger)***		foot	$5.00		$0.00
6. **Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)***					
AA. Standard		per foot	$15.00		$0.00
C1. Fractured Rock		per foot	$20.20		$0.00
7. A1. **Soil Leachability Model**		each	$60.00		$0.00
8. **Abandonment (per foot)***					
A1. 2" diameter or less		per foot	$3.10		$0.00
B1. Greater than 2" to 6" diameter		per foot	$4.50		$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	$15.00		$0.00
9. **Well Installation (per foot)***					
A1. Water Table (hand augered)		per foot	$10.60		$0.00
B1. Water Table (drill rig)		per foot	$38.00		$0.00
CC. Telescoping		per foot	$50.00		$0.00
DD. Rock Drilling		per foot	$58.00		$0.00
E1. 2" Rock Coring		per foot	$30.90		$0.00
G1. Rock Multi-sampling ports/screens		per foot	$33.40		$0.00
HH. Recovery Well (4" diameter)		per foot	$45.00		$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	$15.00		$0.00
J1. Rotosonic (2" diameter)		per foot	$44.00		$0.00
K. Re-develop Existing Well		per foot	$11.00		$0.00
10. **Groundwater Sample Collection / Gauge Depth to Water or Product ***					
A1. Groundwater Purge	2	per well/receptor	$60.00		$120.00
B1. Air or Vapors		per receptor	$12.00		$0.00
C1. Water Supply	2	per well/receptor	$22.00		$44.00
D1. Groundwater (No Purge or Duplicate	36	per well/receptor	$28.00		$1,008.00
E1. Gauge Well only		per well	$7.00		$0.00
F1. Sample Below Product		per well	$12.00		$0.00
G1. Passive Diffusion Bag		each	$26.00		$0.00
H1. Field Blank	1	each	$24.60		$24.60

11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(82	42	per sample	$122.00		$5,124.00
AA1. Lead, Filtered		per sample	$13.80		$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	$153.60		$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	$36.40		$0.00
D1. PAH's		per sample	$60.60		$0.00
E1. Lead		per sample	$16.00		$0.00
F1. EDB by EPA 8011	41	per sample	$45.20		$1,853.20
FF1. EDB by EPA Method 8011 Rush		per sample	$68.20		$0.00
G1. 8 RCRA Metals		per sample	$63.40		$0.00
H1. TPH (9070)		per sample	$41.00		$0.00
II. pH		per sample	$5.20		$0.00
J1. BOD		per sample	$20.00		$0.00
PP. Ethanol		per sample	$14.80		$0.00
11. Analyses-Soil					
Q1. BTEX + Naphth.		per sample	$64.00		$0.00
R1. PAH's		per sample	$64.04		$0.00
S1. 8 RCRA Metals		per sample	$56.40		$0.00
U1. TPH-DRO (3550C/8015C)		per sample	$40.00		$0.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96		$0.00
W1. Grain size/hydrometer		per sample	$104.00		$0.00
X1. Total Organic Carbon		per sample	$30.60		$0.00
11. Analyses-Air					
Y1. BTEX + Naphthalene		per sample	$216.00		$0.00
11. Analyses-Free Phase Product					
Z1. Hydrocarbon Fuel Identification		per sample	$357.00		$0.00
12. Aquifer Characterization					
A1. Pumping Test*		per hour	$23.00		$0.00
B1. Slug Test*		per test	$191.00		$0.00
C1. Fractured Rock		per test	$100.00		$0.00
13. A1. Free Product Recovery Rate Test*		each	$38.00		$0.00
14. Fate/Transport Modeling					
A1. Mathematical Model		each	$100.00		$0.00
B1. Computer Model		each	$100.00		$0.00
15. Risk Evaluation					
A. Tier I Risk Evaluation		each	$300.00		$0.00
B1. Tier II Risk Evaluation		each	$100.00		$0.00
16. A1. Subsequent Survey*		each	$260.00		$0.00
17. Disposal (gallons or tons)*					
AA. Wastewater	100	gallon	$0.56		$56.00
BB. Free Product		gallon	$0.50		$0.00
C1. Soil Treatment/Disposal		ton	$60.00		$0.00
D1. Drilling fluids		gallon	$0.42		$0.00
18. Miscellaneous (attach receipts)					
		each	$0.00		$0.00
		each	$0.00		$0.00
		each	$0.00		$0.00
20. Tier I Assessment (Use DHEC 3665 form)		standard			$0.00
21. IGWA (Use DHEC 3666 form)		standard			$0.00
22. Corrective Action (Use DHEC 3667 form)		PFP Bid			$0.00

23. **Aggressive Fluid & Vapor Recovery (AFVR)**					
A1. 8-hour Event*		each	$1,375.00		$0.00
AA. 24-hour Event*		each	$3,825.00		$0.00
A3. 48-hour Event*		each	$6,265.00		$0.00
A4. 96-hour Event*		each	$12,567.50		$0.00
C1. Off-gas Treatment 8 hour		per event	$122.50		$0.00
C2. Off-gas Treatment 24 hour		per event	$241.50		$0.00
C3. Off-gas Treatment 48 hour		per event	$327.00		$0.00
C4. Off-gas Treatment 96 hour		per event	$780.00		$0.00
D. Site Reconnaissance		each	$203.25		$0.00
E1. Additional Hook-ups		each	$25.75		$0.00
F1. Effluent Disposal		gallon	$0.44		$0.00
G. AFVR Mobilization/Demobilization		each	$391.50		$0.00
24. **Granulated Activated Carbon (GAC) filter system installation & service:**					
A1. New GAC System Installation*		each	$1,900.00		$0.00
BB. Refurbished GAC Sys. Install*		each	$900.00		$0.00
C1. Filter replacement/removal*		each	$350.00		$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	$275.00		$0.00
E1. GAC System housing*		each	$250.00		$0.00
F. In-line particulate filter		each	$150.00		$0.00
G1. Additional piping & fittings		foot	$1.50		$0.00
25. **Well Repair**					
A1. Additional Copies of the Report Delivered		each	$50.00		$0.00
B1. Repair 2x2 MW pad*		each	$50.00		$0.00
C1. Repair 4x4 MW pad*		each	$88.00		$0.00
D1. Repair well vault*		each	$118.00		$0.00
F1. Replace well cover bolts		each	$2.60		$0.00
G. Replace locking well cap & lock		each	$15.00		$0.00
H1. Replace/Repair stick-up*		each	$134.00		$0.00
I1. Convert Flush-mount to Stick-up*		each	$150.00		$0.00
J1. Convert Stick-up to Flush-mount*		each	$130.00		$0.00
K1. Replace missing/illegible well ID plate		each	$12.00		$0.00
Report Prep & Project Coordination	12%	percent	$9,225.80		$1,107.10
TOTAL					$10,332.90

*The appropriate mobilization cost can be added to complete these tasks, as necessary. DHEC

D H E C

PROMOTE PROTECT PROSPER

W. Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment

MR MARTY EASLER
196 RICHBURG ROAD
GREELEYVILLE SC 29056

JUN 1 1 2015

Re: Groundwater Sampling Directive
Tisdales Quick Stop, 1989 Thurgood Marshall Blvd, Kingstree, SC
UST Permit # 18686; CA# 50399
Release reported March 30, 2001
SSWP received June 4, 2015
Williamsburg County



Dear Mr. Easler:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced Site Specific Work Plan submitted on your behalf by Geological Resources, Inc. The previous assessment work for this release indicates that petroleum Chemicals of Concern (CoC) are present in the groundwater at concentrations that exceed risk-based screening levels (RBSLs). In order to obtain current groundwater quality data, a comprehensive groundwater sampling event is necessary. All work should be conducted in accordance with the UST Quality Assurance Program Plan, revision 2.0, (QAPP) and must be conducted in compliance with all applicable regulations. A copy of the Agency QAPP for the UST Management Division is available at http://www.scdhec.gov/environment/docs/QAPP_Rev-2_April2013.pdf

Groundwater sampling activities at the site should begin immediately upon receipt of this letter. Cost Agreement # 50399 has been approved for the amount shown on the enclosed cost agreement form for the sampling of all monitoring wells associated with the release. Groundwater samples should be collected and analyzed for BTEX, Naphthalene, MtBE, 1,2-DCA, Oxygenates, Ethanol and EDB. Analyses should be in accordance with Appendix E of the QAPP and shall include a duplicate sample, field blank, and trip blank.

The monitoring report, contractor checklist from Appendix K of the QAPP, and invoice are due within 60 days from the date of this letter. The report submitted at the completion of these activities should include the required information outlined in the QAPP. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

Geological Resources, Inc., can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. Please note that applicable South Carolina certification requirements regarding laboratory services and report preparation must be satisfied. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the UST Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the UST Division for the cost to be paid. The Agency reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Agency reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note, if unnecessary dilutions are completed resulting in reporting limits of individual CoC in excess of RBSL, the data cannot be used. In those cases, the UST Division may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST Division encourages the use of 'J' values as necessary so the appropriate action can be determined for a release.

The Agency grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The transport and disposal must be conducted in accordance with the QAPP. If the CoC concentrations based on laboratory analysis are below RBSLs, please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence regarding this site, please reference **UST Permit #18686 and Cost Agreement # 50399**. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0605, by fax at (803) 898-0673, or by e-mail to martinjm@dhec.sc.gov.

Sincerely,

Jim Martin, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Geological Resources, Inc., 3502 Hayes Rd., Monroe, NC 28110 (w/ enc.)
Technical File (w/ enc.)

Approved Cost Agreement 50399

Facility: 18686 TISDALES QUICK STOP

MARTINJM

PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
01 PLAN						
		A1	SITE SPECIFIC WORK PLAN	1.0000	150.00	150.00
04 MOB/DEMOB						
		B1	PERSONNEL	2.0000	423.00	846.00
10 SAMPLE COLLECTION						
		A1	GROUNDWATER (PURGE)	2.0000	60.00	120.00
		C1	WATER SUPPLY	2.0000	22.00	44.00
		D1	GROUNDWATER NO PURGE/DUPLICATE	36.0000	28.00	1,008.00
		H1	FIELD BLANK	1.0000	24.60	24.60
11 ANALYSES						
	GW GROUNDWATER	A2	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	42.0000	122.00	5,124.00
		F1	EDB BY 8011	41.0000	45.20	1,853.20
17 DISPOSAL						
		AA	WASTEWATER	100.0000	0.56	56.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0.1200	9,225.80	1,107.10
				Total Amount		10,332.90

Geological Resources, Inc.

UST
5/4ech
DOCKETING

UST
JUL 2 2 2015
PROGRAM

July 20, 2015

Mr. Jim Martin
SCDHEC-Underground Storage Tank Management Division
Bureau of Land & Waste Management
2600 Bull Street
Columbia, SC 29201

Re: Ground Water Monitoring Report
June 2015
Tisdale's Quick Stop
1989 Thurgood Marshall Blvd
Kingstree, Williamsburg County, SC
UST Permit Number: 18686
GRI Project No: 1543

Dear Mr. Martin,

Please find enclosed the referenced report for the above mentioned site. If you have any questions, please do not hesitate to contact Scott Ball at (704) 698-1223.

Sincerely,
Geological Resources, Inc.

J Donnelly

Jackie Donnelly
Project Coordinator

Enclosure

cc: Mr. Marty Easler
file

3502 Hayes Road • Monroe, North Carolina 28110
113 West Firetower Road, Suite G • Winterville, North Carolina 28590
Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012

GROUND WATER MONITORING REPORT
JUNE 2015
TISDALE'S QUICK STOP
1989 THURGOOD MARSHALL BOULEVARD
KINGSTREE, WILLIAMSBURG COUNTY
SOUTH CAROLINA
UST PERMIT NO. 18686
GRI PROJECT NO. 1543

Prepared for:

Mr. Marty Easler
196 Richburg Road
Greeleyville, SC 29056

Prepared by:

Geological Resources, Inc.
3502 Hayes Road
Monroe, North Carolina 28110
Class I UST Site Rehabilitation Contractor # 74

July 20, 2015

W. Scott Ball
Senior Project Manager

JOHANNA MARIE TESCHNER
REGISTERED
No. 2576
PROFESSIONAL GEOLOGIST
SOUTH CAROLINA

Johanna M. Teschner, P.G.
License # 2576

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Figure 2: Site Map
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Table 1: Summary of Ground Water Elevation Data
Table 2: Summary of Laboratory Analytical Results – Ground Water Samples – Chemicals of Concern
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APPENDICES

Appendix A: Laboratory Analytical Report - Ground Water Samples
Appendix B: Ground Water Sampling Data Sheets
Appendix C: Contractor Checklist

1.0 INTRODUCTION

This report presents the results of comprehensive ground water sampling activities conducted in June 2015 at the Tisdales Quick Stop site located at 1989 Thurgood Marshall Highway, in Kingstree, Williamsburg County, South Carolina (**Figures 1** and **2**). The activities were conducted in accordance with the "Groundwater Sampling Directive" dated June 11, 2015 from the SCDHEC. The purpose of the activities was to obtain current ground water quality data for the site.

The site is a former petroleum retail location. There are two buildings on site, the first is used as a convenience store and grill and the second building is used for a liquor store. Surrounding properties are a mix of commercial and residential. According to the South Carolina Underground Storage Tank (UST) registry database, a release at the site occurred on March 30, 2001, and the confirmation date of the release is listed as April 6, 2001. Two 550 gallon gasoline tanks and one 1,000 gallon diesel tank were removed March 1, 2001. A total of 37 monitoring wells (MW-1 through MW-31, MW-1A through MW-4A, TW-1 and TW-2) have been installed previously at the site. Please refer to earlier submittals for additional information regarding previous assessment activities.

2.0 FACILITY INFORMATION

- **Facility Name:** Tisdales Quick Stop
- **Location:** 1989 Thurgood Marshall Blvd (Highway 527)
  Kingstree, Williamsburg County
- **UST Permit No.** 18686
- **Property Owner:** Andy McKnight (Life) & Regina Mae Scott McKnight (Life)
  316 McCullough Loop
  Kingstree, South Carolina 29566
  (843) 382-2474
- **UST Owner/Operator:** Marty Easler
  196 Richburg Road
  Greeleyville, South Carolina 29056
  (843) 372-2502
- **Site Rehabilitation Contractor:** Geological Resources, Inc.
  3502 Hayes Road
  Monroe, North Carolina 28110
  (704) 845-4010
  Class 1, Certification Number 74
- **Laboratory:** Accutest Laboratories - Southeast
  4405 Vineland Road, Suite C-15
  Orlando, FL 32811

(407) 425-6700
State Certification Number: 96038001

Release Information:

- **Date Discovered:** March 30, 2001
- **Estimated Amount of Release:** Unknown
- **Source of Release:** Leaking UST System
- **UST Size/Contents:** Two 550 gallon gasoline tanks and one 1,000 gallon diesel tank (Removed March 1, 2001)
- **Latitude:** 33.6579897° North **Longitude:** 79.8127613° West

3.0 GROUND WATER QUALITY

Thirty Type III monitoring wells (MW-1 through MW-10, MW-13 through MW-15, MW-19 through MW-31 and MW-1A through MW-4A) and two telescoping monitoring wells (TW-1 and TW-2) were gauged, purged and/or sampled between June 23 and 24, 2015. Two water supply wells (WSW-1 and WSW-3) were also sampled between June 23 and 24, 2015. Monitoring wells MW-11, MW-12 and MW-17 were previously destroyed; and therefore, could not be sampled. Monitoring wells MW-16 and MW-18 could not be found and were not sampled. Monitoring wells MW-4 and MW-5 were obstructed and could be gauged but not sampled. Telescoping wells TW-1 and TW-2 were the only wells purged prior to sampling. The depths to ground water in the Type III monitoring wells during the June 2015 sampling event ranged from 11.21 to 17.14 feet below the top of casings. Ground water elevations in the Type III monitoring wells relative to a temporary benchmark with an assumed datum of 100.00 feet ranged from 81.07 to 85.36 feet. Based on this data, ground water flow was generally toward the west. The horizontal hydraulic gradient across the site was less than 0.01 feet per foot. The vertical hydraulic gradient calculated for MW-1 and TW-1 was 0.03 feet per foot downward. A Site Map showing the locations of the monitoring wells and the structures on-site has been included as **Figure 2**. A Water Table Surface Map for the June 2015 sampling event has been included as **Figure 3**. A summary of well construction and gauging information is presented in **Table 1**.

Laboratory analyses were performed on the ground water samples collected from the monitoring wells during the January 2015 sampling event for BTEX, MTBE, naphthalene, 1,2-DCA and eight oxygenates using EPA Method 8260 as well as EDB by EPA Method 8011. Concentrations of benzene, toluene, ethylbenzene, xylenes, MTBE, naphthalene and/or EDB that exceeded the RBSLs were reported in the ground water samples collected from MW-1, MW-2, MW-23, MW-1A, MW-2A, MW-3A and MW-4A. Detectable concentrations of oxygenates were reported in the samples collected from MW-1, MW-2, MW-13, MW-22, MW-23, MW-1A, MW-2A, MW-3A and MW-4A. No detectable concentrations of requested method constituents were reported in the water supply well samples. A Ground Water Quality Map based on data from the June 2015 sampling

event has been included as **Figure 4**. Summaries of ground water sample analytical results are presented in **Tables 2** and **3**. A complete laboratory analytical report has been included as **Appendix A**. Ground water sampling data sheets have been included as **Appendix B.**

4.0 QA/QC

Monitoring well gauging, purging and sampling was conducted in general accordance with the SCDHEC Programmatic QAPP and the approved site specific Contractor Addendum. All wells were purged and/or sampled with dedicated disposable bailers. All field measurement equipment was properly decontaminated between sampling locations. Duplicate samples from monitoring wells MW-3 and MW-4A as well as a field blank were collected during the sampling activities. A trip blank was included in the sample cooler. Laboratory results for MW-4A and MW-4A DUP A as well as MW-3 and MW-3 DUP B showed similar concentrations. No detectable concentrations of requested method constituents were reported for the trip blank or field blank. All applicable items on the Contractor Checklist were reviewed and verified. A copy of the Contractor Checklist is included as **Appendix C**.

5.0 CONCLUSIONS AND RECOMMENDATIONS

- A total of thirty Type III monitoring wells, two telescoping monitoring wells and two water supply wells were gauged, purged and/or sampled in January 2015. Ground water flow at the site based on the June 2015 event was generally toward the west. The horizontal hydraulic gradient across the site was less than 0.01 feet per foot. The vertical hydraulic gradient was 0.03 feet per foot downward.
- Concentrations of benzene, toluene, ethylbenzene, xylenes, MTBE, naphthalene and/or EDB that exceeded the RBSLs were reported in the ground water samples collected from MW-1, MW-2, MW-23, MW-1A, MW-2A, MW-3A and MW-4A. Detectable concentrations of oxygenates were reported in the samples collected from MW-1, MW-2, MW-13, MW-22, MW-23, MW-1A, MW-2A, MW-3A and MW-4A. No detectable concentrations of requested method constituents were reported in the water supply well samples.
- Free product was historically encountered in several monitoring wells. Based on the historical presence of free product and high levels of dissolved phase concentrations, an AFVR or MMPE event is recommended for the affected wells. In addition, monitoring well MW-16 historically contained free product or elevated levels of dissolved-phase contaminants and should be replaced.
- Ground water sampling should continue as directed by the SCDHEC.

6.0 LIMITATIONS

This report has been prepared for the exclusive use of Mr. Marty Easler and the SCDHEC for specific application to the referenced site in Williamsburg County, South Carolina. The assessment was conducted based on the scope of work and level of effort specified by the SCDHEC and with resources adequate only for that scope of work. Our findings have been developed in accordance with generally accepted standards of geology and hydrogeology practices in the State of South Carolina, available information, and our professional judgment. No other warranty is expressed or implied.

The data that are presented in this report are indicative of conditions that existed at the precise locations sampled and at the time the samples were collected. In addition, the data obtained from samples would be interpreted as being meaningful with respect to parameters indicated in the laboratory report. No additional information can logically be inferred from these data.

FIGURES

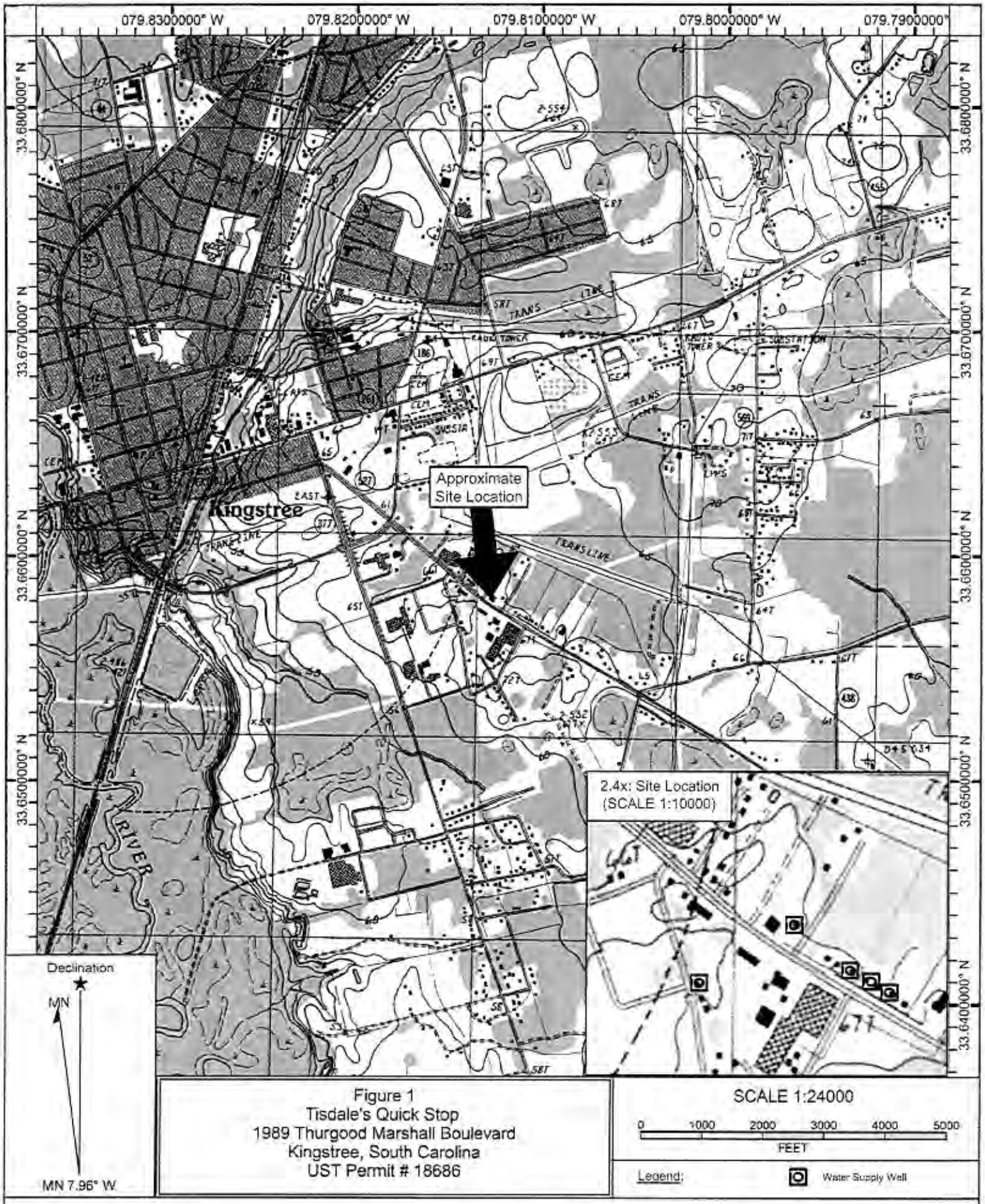
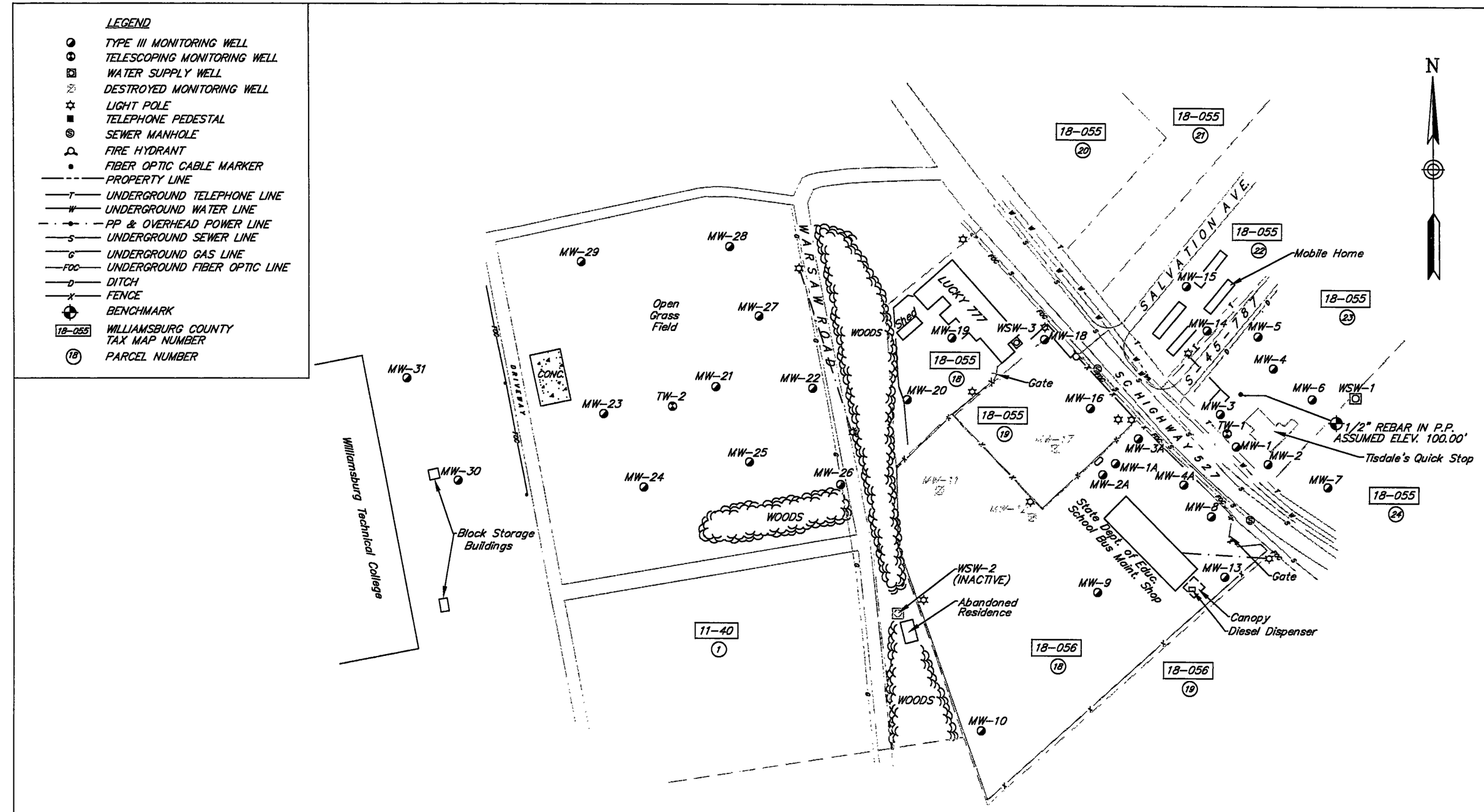


Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit # 18686

Name: Topographic Map
Date: 09/16/14
Scale: 1 inch = 2,000 ft.

Location: 033.6579897° N 079.8127613° W

Generated by ECH at Geological Resources, Inc.



Geological Resources, Inc.

0 50 100 200

(IN FEET)
1 inch = 100 ft

SITE MAP

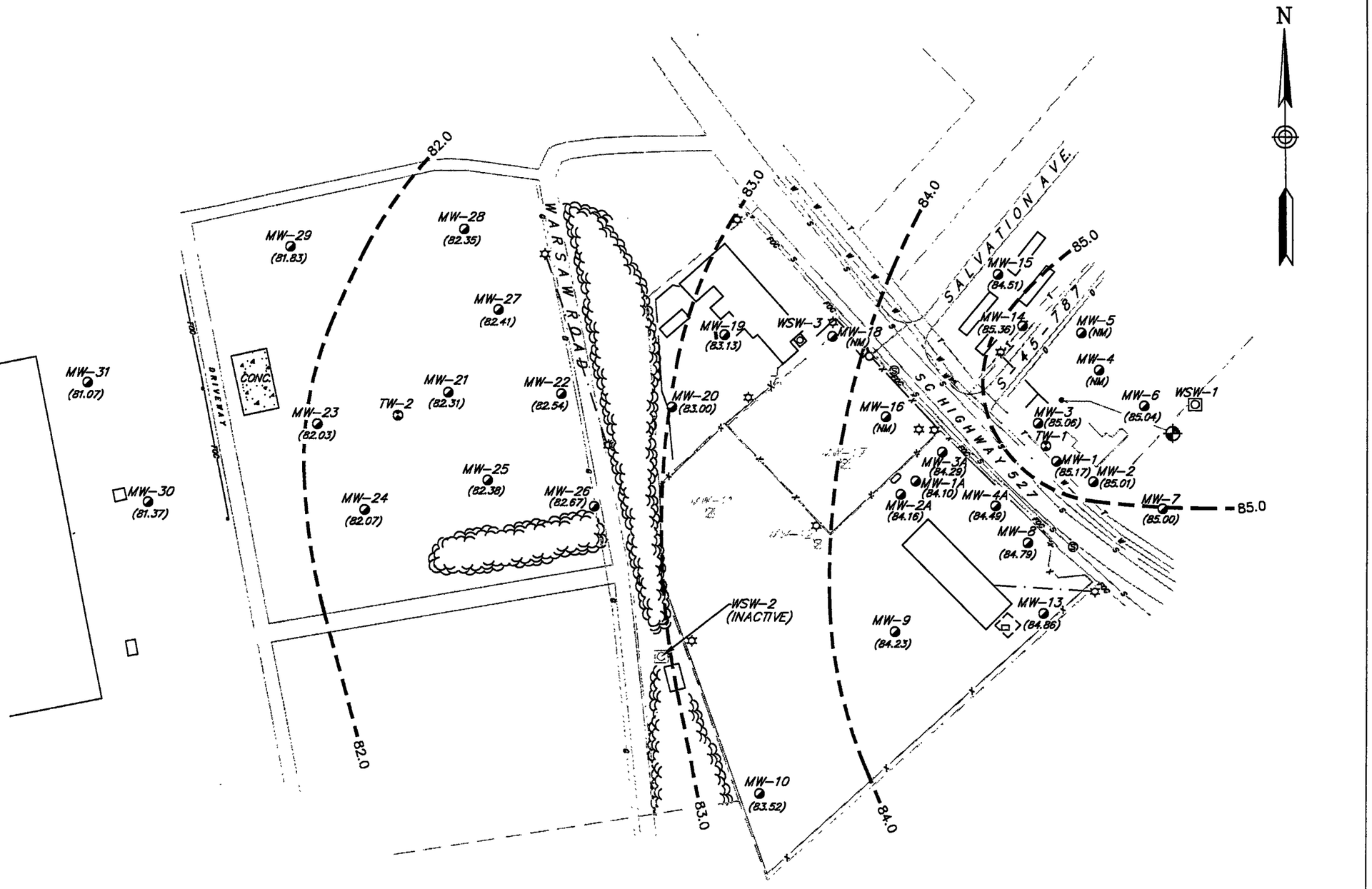
Tisdale's Quick Stop — 1989 Thurgood Marshall Boulevard

Kingstree, Williamsburg County, SC — UST Permit # 18686

Date:	06/29/15	Drawn by:	ECH	Figure:	2

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- WATER SUPPLY WELL
- DESTROYED MONITORING WELL
- LIGHT POLE
- TELEPHONE PEDESTAL
- SEWER MANHOLE
- FIRE HYDRANT
- FIBER OPTIC CABLE MARKER
- PROPERTY LINE
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND WATER LINE
- PP & OVERHEAD POWER LINE
- UNDERGROUND SEWER LINE
- UNDERGROUND GAS LINE
- UNDERGROUND FIBER OPTIC LINE
- DITCH
- FENCE
- BENCHMARK
- 85.0 WATER TABLE SURFACE CONTOUR
- (85.17) GROUND WATER ELEVATION (FT.)
- (NM) NOT MEASURED



Geological Resources, Inc.

0 50 100 200

(IN FEET)
1 inch = 100 ft

WATER TABLE SURFACE MAP (06/23/15)

Tisdale's Quick Stop — 1989 Thurgood Marshall Boulevard

Kingstree, Williamsburg County, SC — UST Permit # 18686

Date:	06/29/15	Drawn by:	ECH	Figure:	3

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- WATER SUPPLY WELL
- DESTROYED MONITORING WELL
- LIGHT POLE
- TELEPHONE PEDESTAL
- SEWER MANHOLE
- FIRE HYDRANT
- FIBER OPTIC CABLE MARKER
- PROPERTY LINE
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND WATER LINE
- PP & OVERHEAD POWER LINE
- UNDERGROUND SEWER LINE
- UNDERGROUND GAS LINE
- UNDERGROUND FIBER OPTIC LINE
- DITCH
- FENCE
- BENCHMARK

4,370	BENZENE
10,900	TOLUENE
841	ETHYLBENZENE
6,320	XYLENES
94.5 J	MTBE
258 J	NAPHTHALENE

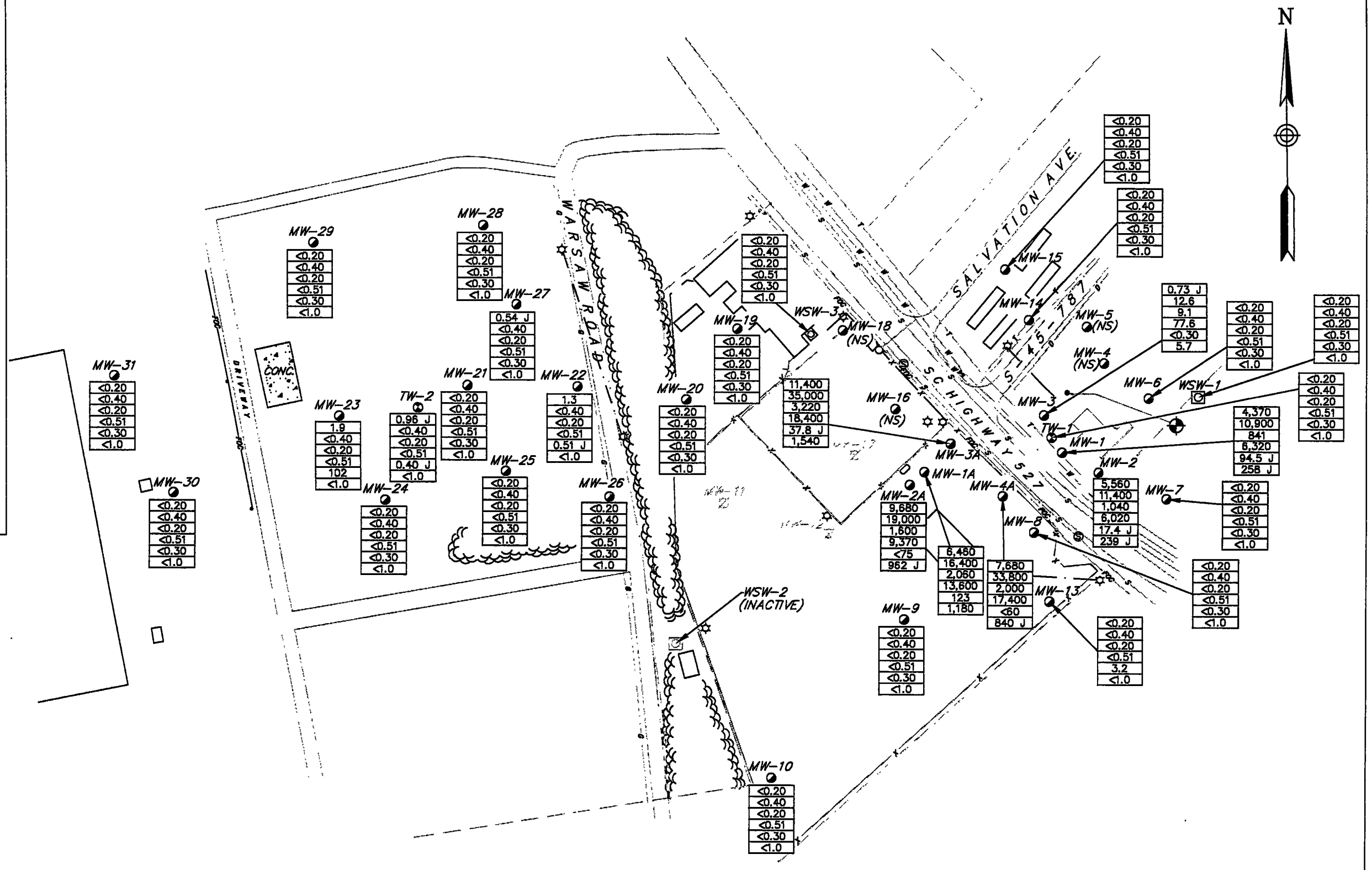
CONCENTRATIONS IN µg/L

<0.20 LESS THAN THE METHOD DETECTION LIMIT SPECIFIED IN THE LABORATORY REPORT

"J" ESTIMATED VALUE

(FP) FREE PRODUCT

(NS) NOT SAMPLED



Geological Resources, Inc.

0 50 100 200

(IN FEET)
1 inch = 100 ft

GROUND WATER QUALITY MAP (06/23/ & 06/24/15)

Tisdale's Quick Stop — 1989 Thurgood Marshall Boulevard

Kingstree, Williamsburg County, SC — UST Permit # 18686

Date:	07/24/15	Drawn by:	ECH	Figure:	4

TABLES

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-1	01/16/03	98.81	15.72		83.09	20	10-20
	02/09/04		14.25		84.56		
	09/23/04		11.94		86.87		
	01/21/05		13.09		85.72		
	03/23/06		12.43		86.38		
	01/07/09		15.12		83.69		
	11/04/09		15.58		83.23		
	11/22/11		17.46		81.35		
	11/06/13		14.83		83.98		
	08/27/14		14.52		84.29		
	01/15/15		13.53		85.28		
	06/23/15		13.64		85.17		
MW-2	01/16/03	98.82	17.35	1.90	83.10	25	10-25
	02/09/04		15.17	1.07	84.57		
	09/23/04		12.95	1.18	86.88		
	01/21/05		13.61	0.61	85.73		
	03/23/06		12.43		86.39		
	01/07/09		15.03	0.02	83.81		
	11/03/09		15.97	0.11	82.94		
	11/22/11		17.87		80.95		
	11/06/13		15.02	0.21	83.98		
	08/27/14		14.62	0.02	84.22		
	01/15/15		13.52		85.30		
	06/23/15		13.81		85.01		
MW-3	01/16/03	98.74	15.36	0.33	83.66	25	10-25
	02/09/04		14.34	0.19	84.56		
	09/23/04		12.12	0.06	86.67		
	01/21/05		13.38	0.02	85.38		
	03/23/06		12.37		86.37		
	01/07/09		15.27	0.12	83.57		
	11/03/09		15.82	0.12	83.02		
	11/22/11		17.47	0.04	81.30		
	11/06/13		14.69	0.01	84.06		
	08/27/14		14.48		84.26		
	01/15/15		13.52		85.22		
	06/23/15		13.68		85.06		

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Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-4	01/16/03	98.58	15.06		83.52	25	10-25
	02/09/04		14.01		84.57		
	09/23/04		11.96		86.62		
	01/21/05		13.13		85.45		
	03/23/06		12.24		86.34		
	01/07/09		14.84		83.74		
	11/04/09		15.68		82.90		
	11/22/11		OBS		OBS		
	11/06/13		OBS		OBS		
	08/27/14		OBS		OBS		
	01/15/15		13.37		85.21		
	06/23/15		OBS		OBS		
MW-5	01/16/03	98.13	14.77		83.36	22	12-22
	02/09/04		13.77		84.36		
	09/23/04		11.71		86.42		
	01/21/05		13.14		84.99		
	03/23/06		12.80		85.33		
	01/07/09		14.96		83.17		
	11/04/09		15.26		82.87		
	11/22/11		OBS		OBS		
	11/06/13		OBS		OBS		
	08/27/14		OBS		OBS		
	01/15/15		OBS		OBS		
	06/23/15		OBS		OBS		
MW-6	01/16/03	98.50	14.64		83.86	21.5	11.5-21.5
	02/09/04		13.86		84.64		
	09/23/04		11.86		86.64		
	01/21/05		13.38		85.12		
	03/23/06		12.81		85.69		
	01/07/09		15.00		83.50		
	11/03/09		15.23		83.27		
	11/22/11		17.47		81.03		
	11/06/13		14.39		84.11		
	08/27/14		14.27		84.23		
	01/15/15		13.07		85.43		
	06/23/15		13.46		85.04		

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Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-7	01/16/03	98.19	14.69		83.50	22	12-22
	02/09/04		13.56		84.63		
	09/23/04		11.56		86.63		
	01/21/05		12.78		85.41		
	03/23/06		11.73		86.46		
	01/07/09		14.60		83.59		
	11/03/09		15.27		82.92		
	11/22/11		17.32		80.87		
	11/06/13		14.26		83.93		
	08/27/14		14.05		84.14		
	01/15/15		12.81		85.38		
	06/23/15		13.19		85.00		
MW-8	01/16/03	98.17	14.85		83.32	22	12-22
	02/09/04		13.98		84.19		
	09/23/04		12.07		86.10		
	01/21/05		13.33		84.84		
	03/23/06		12.14		86.03		
	01/08/09		15.00		83.17		
	11/03/09		15.45		82.72		
	11/22/11		17.55		80.62		
	11/06/13		14.45		83.72		
	08/27/14		14.31		83.86		
	01/15/15		13.27		84.90		
	06/23/15		13.38		84.79		
MW-9	01/16/03	98.52	15.79		82.73	22	12-22
	02/09/04		15.00		83.52		
	09/23/04		13.12		85.40		
	01/21/05		14.64		83.88		
	03/23/06		13.29		85.23		
	01/08/09		16.01		82.51		
	11/03/09		16.56		81.96		
	11/22/11		18.73		79.79		
	11/06/13		15.51		83.01		
	08/27/14		15.35		83.17		
	01/15/15		14.59		83.93		
	06/23/15		14.29		84.23		

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Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-10	01/16/03	98.68	16.52		82.16	25	10-25
	02/09/04		15.79		82.89		
	09/23/04		13.97		84.71		
	01/21/05		15.35		83.33		
	03/23/06		14.18		84.50		
	01/08/09		15.75		82.93		
	11/03/09		17.41		81.27		
	11/22/11		19.43		79.25		
	11/06/13		13.37		85.31		
	08/27/14		16.16		82.52		
	01/15/15		15.26		83.42		
	06/23/15		15.16		83.52		
MW-11	01/16/03	94.65	12.89		81.76	22	7-22
	02/09/04		12.10		82.55		
	09/23/04		10.51		84.14		
	01/21/05		11.68		82.97		
	03/23/06		10.55		84.10		
	01/08/09		NM		NM		
	11/03/09		NM		NM		
	11/22/11		NM		NM		
	11/06/13		NM		NM		
	08/27/14		NM		NM		
	01/15/15		NM		NM		
	06/23/15		NM		NM		
MW-12	01/16/03	95.70	13.13		82.57	22	7-22
	02/09/04		12.35		83.35		
	09/23/04		12.67		83.03		
	01/21/05		12.06		83.64		
	03/23/06		10.80		84.90		
	01/08/09		NM		NM		
	11/03/09		NM		NM		
	11/22/11		NM		NM		
	11/06/13		NM		NM		
	08/27/14		NM		NM		
	01/15/15		NM		NM		
	06/23/15		NM		NM		

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Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-13	01/16/03	99.01	15.65		83.36	25	10-25
	02/09/04		14.70		84.31		
	09/23/04		12.90		86.11		
	01/21/05		14.05		84.96		
	03/23/06		12.82		86.19		
	01/08/09		15.68		83.33		
	11/03/09		16.30		82.71		
	11/22/11		18.57		80.44		
	11/06/13		15.25		83.76		
	08/27/14		15.08		83.93		
	01/15/15		13.94		85.07		
	06/23/15		14.15		84.86		
MW-14	01/16/03	98.36	15.12		83.24	25	10-25
	02/09/04		14.24		84.12		
	09/23/04		12.03		86.33		
	01/21/05		13.78		84.58		
	03/23/06		12.75		85.61		
	01/08/09		15.32		83.04		
	11/04/09		15.77		82.59		
	11/22/11		17.72		80.64		
	11/06/13		15.86		82.50		
	08/27/14		14.58		83.78		
	01/15/15		14.61		83.75		
	06/23/15		13.00		85.36		
MW-15	01/16/03	99.59	16.40		83.19	25	10-25
	02/09/04		15.55		84.04		
	09/23/04		13.50		86.09		
	01/21/05		14.89		84.70		
	03/23/06		13.92		85.67		
	01/08/09		16.63		82.96		
	11/04/09		17.16		82.43		
	11/22/11		19.15		80.44		
	11/06/13		16.26		83.33		
	08/27/14		15.96		83.63		
	01/15/15		14.94		84.65		
	06/23/15		15.08		84.51		

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Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-16	01/16/03	98.93	16.21	0.04	82.75	23	8-23
	02/09/04		15.24	0.04	83.72		
	09/23/04		13.55		85.38		
	01/21/05		14.81	0.02	84.14		
	03/23/06		13.60		85.33		
	01/08/09		16.21		82.72		
	11/04/09		16.57		82.36		
	11/22/11		NM		NM		
	11/06/13		NM		NM		
	08/27/14		NM		NM		
	01/15/15		NM		NM		
	06/23/15		NM		NM		
MW-17	01/16/03	98.25	16.00	0.07	82.31	23	8-23
	02/09/04		14.55		83.70		
	09/23/04		12.82		85.43		
	01/21/05		13.78		84.47		
	03/23/06		NM		NM		
MW-18	01/16/03	99.83	17.70		82.13	25	10-25
	02/09/04		16.91		82.92		
	09/23/04		15.06		84.77		
	01/21/05		16.45		83.38		
	03/23/06		15.31		84.52		
	01/08/09		17.89		81.94		
	11/04/09		18.40		81.43		
	11/22/11		20.20		79.63		
	11/06/13		NM		NM		
	08/27/14		NM		NM		
	01/15/15		NM		NM		
	06/23/15		NM		NM		

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Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-19	01/16/03	100.27	18.54		81.73	25	10-25
	02/09/04		17.63		82.64		
	09/23/04		16.00		84.27		
	01/21/05		17.21		83.06		
	03/23/06		16.15		84.12		
	01/08/09		NM		NM		
	11/04/09		19.22		81.05		
	11/22/11		20.93		79.34		
	11/06/13		18.50		81.77		
	08/27/14		18.08		82.19		
	01/15/15		17.26		83.01		
	06/23/15		17.14		83.13		
MW-20	01/16/03	97.21	15.59		81.62	25	10-25
	02/09/04		14.74		82.47		
	09/23/04		13.15		84.06		
	01/21/05		14.33		82.88		
	03/23/06		13.21		84.00		
	01/08/09		NM		NM		
	11/04/09		16.30		80.91		
	11/22/11		18.02		79.19		
	11/06/13		15.36		81.85		
	08/27/14		15.18		82.03		
	01/15/15		14.41		82.80		
	06/23/15		14.21		83.00		
MW-21	01/16/03	95.72	14.70		81.02	23	8-23
	02/09/04		13.85		81.87		
	09/23/04		12.27		83.45		
	01/21/05		13.42		82.30		
	03/23/06		NM		NM		
	01/08/09		NM		NM		
	11/04/09		15.35		80.37		
	11/22/11		17.01		78.71		
	11/06/13		NM		NM		
	08/27/14		14.22		81.50		
	01/15/15		13.48		82.24		
	06/23/15		13.41		82.31		

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Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-22	01/16/03	96.68	15.40		80.32	25	10-25
	02/09/04		14.61		82.07		
	09/23/04		12.92		83.76		
	01/21/05		14.15		82.53		
	03/23/06		13.21		83.47		
	01/08/09		15.54		81.14		
	11/04/09		16.08		80.60		
	11/22/11		17.75		78.93		
	11/06/13		15.17		81.51		
	08/27/14		15.00		81.68		
	01/15/15		14.17		82.51		
	06/23/15		14.14		82.54		
MW-23	01/16/03	95.78	15.08		80.70	24	9-24
	02/09/04		14.30		81.48		
	09/23/04		12.72		83.06		
	01/20/05		13.82		81.96		
	03/23/06		13.09		82.69		
	01/08/09		15.21		80.57		
	11/04/09		15.64		80.14		
	11/22/11		17.28		78.50		
	11/06/13		14.82		80.96		
	08/27/14		14.71		81.07		
	01/15/15		13.89		81.89		
	06/23/15		13.75		82.03		
MW-24	01/16/03	93.86	13.00		80.86	23	8-23
	02/09/04		12.19		81.67		
	09/23/04		10.58		83.28		
	01/20/05		11.71		82.15		
	03/23/06		10.87		82.99		
	01/08/09		13.17		80.69		
	11/04/09		13.79		80.07		
	11/22/11		15.28		78.58		
	11/06/13		12.86		81.00		
	08/27/14		12.62		81.24		
	01/15/15		11.73		82.13		
	06/23/15		11.79		82.07		

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Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-25	01/16/03	94.30	13.20		81.10	23	8-23
	02/09/04		12.37		81.93		
	09/23/04		10.74		83.56		
	01/20/05		11.99		82.31		
	03/23/06		11.00		83.30		
	01/08/09		13.34		80.96		
	11/04/09		13.83		80.47		
	11/22/11		15.56		78.74		
	11/06/13		13.00		81.30		
	08/27/14		12.79		81.51		
	01/15/15		11.91		82.39		
	06/23/15		11.92		82.38		
MW-26	01/16/03	93.88	12.38		81.50	21	6-21
	02/09/04		11.62		82.26		
	09/23/04		10.03		83.85		
	01/20/05		11.18		82.70		
	03/23/06		10.58		83.30		
	01/08/09		12.44		81.44		
	11/04/09		13.26		80.62		
	11/22/11		14.92		78.96		
	11/06/13		12.31		81.57		
	08/27/14		12.09		81.79		
	01/15/15		10.10		83.78		
	06/23/15		11.21		82.67		
MW-27	01/16/03	98.15	16.99		81.16	25	10-25
	02/09/04		16.20		81.95		
	09/23/04		14.61		83.54		
	01/21/05		15.81		82.34		
	03/23/06		14.84		83.31		
	01/08/09		17.20		80.95		
	11/04/09		17.64		80.51		
	11/22/11		19.30		78.85		
	11/06/13		16.74		81.41		
	08/27/14		16.61		81.54		
	01/15/15		15.79		82.36		
	06/23/15		15.74		82.41		

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Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-28	01/16/03	98.45	17.46		80.99	25	10-25
	02/09/04		16.55		81.90		
	09/23/04		15.00		83.45		
	01/21/05		16.17		82.28		
	03/23/06		15.21		83.24		
	01/08/09		NM		NM		
	11/04/09		18.00		80.45		
	11/22/11		19.60		78.85		
	11/06/13		17.11		81.34		
	08/27/14		16.96		81.49		
	01/15/15		16.19		82.26		
	06/23/15		16.10		82.35		
MW-29	01/16/03	96.78	16.17		80.61	25	10-25
	02/09/04		15.30		81.48		
	09/23/04		13.74		83.04		
	01/20/05		14.69		82.09		
	03/23/06		14.12		82.66		
	01/08/09		16.31		80.47		
	11/04/09		16.71		80.07		
	11/22/11		18.26		78.52		
	11/06/13		15.89		80.89		
	08/27/14		15.74		81.04		
	01/15/15		14.98		81.80		
	06/23/15		14.95		81.83		
MW-30	01/16/03	95.38	15.18		80.20	22	7-22
	02/09/04		14.36		81.02		
	09/23/04		12.85		82.53		
	01/20/05		13.72		81.66		
	03/23/06		13.04		82.34		
	01/08/09		15.41		79.97		
	11/04/09		15.74		79.64		
	11/22/11		17.36		78.02		
	11/06/13		14.95		80.43		
	08/27/14		14.75		80.63		
	01/15/15		14.04		81.34		
	06/23/15		14.01		81.37		

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Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-31	09/23/04	96.05	13.88		82.17	20	10-20
	01/20/05		14.73		81.32		
	03/23/06		14.22		81.83		
	01/08/09		16.49		79.56		
	11/04/09		16.37		79.68		
	11/22/11		18.20		77.85		
	11/06/13		15.81		80.24		
	08/27/14		15.71		80.34		
	01/15/15		15.06		80.99		
	06/23/15		14.98		81.07		
MW-1A	01/21/05	97.20	13.46	0.09	83.82	Unknown	Unknown
	03/23/06		12.11		85.09		
	01/08/09		14.99		82.21		
	11/03/09		15.25	0.06	82.00		
	11/22/11		17.76	0.85	80.17		
	11/06/13		14.11	0.01	83.10		
	08/27/14		14.08		83.12		
	01/15/15		13.40		83.80		
	06/23/15		13.10		84.10		
MW-2A	01/21/05	97.30	13.63	0.28	83.91	Unknown	Unknown
	03/23/06		12.54	0.31	85.03		
	01/08/09		15.86	0.54	81.90		
	11/03/09		15.61	0.02	81.71		
	11/22/11		17.26		80.04		
	11/06/13		14.25	0.03	83.08		
	08/27/14		14.21		83.09		
	01/15/15		13.74		83.56		
	06/23/15		13.14		84.16		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-3A	01/21/05	97.27	13.46	0.22	84.00	Unknown	Unknown
	03/23/06		12.22	0.03	85.08		
	01/08/09		15.68	1.00	82.45		
	11/03/09		15.63	0.47	82.04		
	11/22/11		18.02	0.82	79.95		
	11/06/13		14.12	0.06	83.20		
	08/27/14		14.08		83.19		
	01/15/15		13.46		83.81		
	06/23/15		12.98		84.29		
MW-4A	01/21/05	98.09	13.06	0.02	85.05	Unknown	Unknown
	03/23/06		12.43		85.66		
	01/08/09		16.02	0.85	82.80		
	11/03/09		15.62	0.02	82.49		
	11/22/11		17.84	0.02	80.27		
	11/06/13		14.61		83.48		
	08/27/14		14.52		83.57		
	01/15/15		13.81		84.28		
	06/23/15		13.60		84.49		
TW-1	01/16/03	99.01	15.14		83.87	46	41-46
	02/09/04		14.81		84.20		
	09/23/04		13.16		85.85		
	01/21/05		14.39		84.62		
	03/23/06		13.35		85.66		
	01/08/09		15.97		83.04		
	11/04/09		16.84		82.17		
	11/22/11		18.76		80.25		
	11/06/13		15.76		83.25		
	08/27/14		15.54		83.47		
	01/15/15		14.31		84.70		
	06/23/15		14.68		84.33		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
TW-2	01/16/03	95.26	14.33		80.93	51	46-51
	02/09/04		13.58		81.68		
	09/23/04		11.98		83.28		
	01/21/05		13.07		82.19		
	03/23/06		12.10		83.16		
	01/08/09		14.52		80.74		
	11/04/09		15.01		80.25		
	11/22/11		16.63		78.63		
	11/06/13		14.19		81.07		
	08/27/14		13.97		81.29		
	01/15/15		13.14		82.12		
	06/23/15		13.12		82.14		

Notes:

- Elevations relative to a temporary benchmark with an assumed datum of 100.00 feet; data reported in feet.
- ** : If free product is present in a well, groundwater elevation calculated by: [Top of Casing Elevation - Depth to Water] + [free product thickness x 0.8581].
- NM: Not measured; monitoring well is destroyed, covered or could not be located.
- OBS: Monitoring well obstructed.
- Monitoring wells MW-1A through MW-4A were installed by S&ME Consultants in January 2000.
- Monitoring wells MW-16 and MW-17 were completed above grade with stand up covers; depths to ground water were measured from the tops of casing; well depths and screened intervals were measured from the ground surface.

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-1	01/17/03	**17,300**	**31,000**	**2,220**	**12,800**	**495**	**515**	-	**0.13**
	02/09/04	**11,400**	**19,600**	**1,010**	**12,000**	**395**	**525**	-	NR
	10/07/04	**4,160**	**7,500**	504	4,400	**348**	**290**	-	0.03
	01/21/05	**8,150**	**13,500**	**790**	7,170	**560**	<500	-	NR
	03/24/06	**7,800**	**11,800**	552	6,640	**833**	<100	-	NR
	01/07/09	**15,700**	**15,100**	**1,600**	**12,310**	**1,120**	**878**	<500	**0.092**
	11/04/09	**7,120**	**12,600**	**988**	6,940	<500	<500	<500	**0.056**
	11/23/11	**6,630**	**9,340**	664	4,300	**399**	**210 J**	<20	NR
	11/06/13	**4,870**	**8,550**	659	4,900	**125**	**165 J**	<22	NR
	08/27/14	**5,210**	**11,900**	**824**	6,010	**134 J**	**239 J**	<48	<0.0095
	01/16/15	**3,820**	**8,360**	641	4,760	**105**	**217 J**	<24	<0.0097
	06/24/15	**4,370**	**10,900**	**841**	6,320	**94.5 J**	**258 J**	<20	<0.0096
MW-1 DUP	11/06/13	**5,090**	**10,600**	687	4,830	**105 J**	<200	<44	NR
	08/27/14	**5,210**	**12,300**	**845**	6,140	**130 J**	**210 J**	<48	<0.0095
	01/16/15	**3,690**	**8,250**	623	4,860	**105**	**196 J**	<20	<0.0097
MW-2	01/17/03	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	02/09/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	10/07/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	01/21/05	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	03/24/06	**14,600**	**17,900**	**2,240**	**12,000**	**164**	**495**	**FP**	NR
	01/07/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/23/11	**20,100**	**23,800**	**1,810**	9,030	**89.8 J**	**413 J**	<50	NR
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	01/16/15	**3,920**	**3,910**	181	1,000	26.1 J	**69.9**	<12	**0.17**
	06/24/15	**5,560**	**11,400**	**1,040**	6,020	17.4 J	**239 J**	<10	**0.26**

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	I,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-2 DUP (DUP 2)	11/23/11	**20,600**	**24,500**	**2,030**	10,000	**92.5 J**	**620 J**	<50	NR
MW-3	01/17/03	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	02/09/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	10/07/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	01/21/05	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	03/24/06	**54.6**	44.4	17.1	660	2.04	8	**FP**	NR
	01/07/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	3.7	6.9	6.0	44.2	<0.20	5.0	<0.24	<0.0096
	01/16/15	**27.4**	19.1	7.5	65.8	0.48 J	1.1 J	<0.24	<0.0094
	06/24/15	0.73 J	12.6	9.1	77.6	<0.30	5.7	<0.20	<0.0096
MW-3 DUP B	06/24/15	0.24 J	14.2	16.1	112	<0.30	8.1	<0.20	<0.0095
MW-4	01/17/03	3.7	<1.0	1.8	7.2	<1.0	7.4	**FP**	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	**FP**	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	**FP**	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	**FP**	NR
	03/24/06	0.200J	<1.00	<1.00	1.44	0.340J	<1.00	**FP**	NR
	01/07/09	**5.9**	<5.0	<5.0	6.0	<5.0	8.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-5	01/17/03	<1.0	<1.0	1.7	3.4	<1.0	7.1	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	0.350J	<1.00	<1.00	-	NR
	01/07/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	**0.066**
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	01/15/15	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	01/17/03	<1.0	<1.0	1.9	3.8	<1.0	7	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/07/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		5	1,000	700	10,000	40	25	5	0.05
MW-7	01/17/03	**70.3**	145	24.3	308	1.8	**25.7**	-	<0.02
	02/09/04	<1.0	11.4	60.2	441	<1.0	**40.7**	-	NR
	10/07/04	<1.0	1.1	2.4	25	<1.0	5.8	-	<0.02
	01/21/05	<1.0	<1.0	4.5	26.9	<1.0	17.5	-	NR
	03/24/06	<1.00	<1.00	<1.00	23.3	0.260J	9.62	-	NR
	01/07/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	12.2	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	0.62 J	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	0.41 J	<1.0	<0.24	<0.0096
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0098
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
MW-8	01/17/03	**1,480**	**11,800**	**1,930**	9,930	6.3	<500	-	<0.02
	02/09/04	**59**	**1,700**	424	2,380	<5.0	**96**	-	NR
	10/07/04	<1.0	3.2	7.4	71.1	<1.0	9	-	<0.02
	01/21/05	**12**	161	55.6	1,100	<1.0	**52.2**	-	NR
	03/24/06	4.19	24.1	118	1,070	<1.00	**102**	-	NR
	01/08/09	**16.8**	<5.0	<5.0	200.6	<5.0	18.5	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	12.8	<5.0	**34.7**	<5.0	<0.020
	11/22/11	**11.6**	1.3	8.1	7.0	<0.34	19.3	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	0.69 J	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0097
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0095
MW-8 DUP	11/06/13	0.33 J	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	01/15/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0097

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		5	1,000	700	10,000	40	25	5	0.05
MW-9	01/17/03	<1.0	<1.0	<1.0	<1.0	34	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	11.1	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	1.2	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	12.5	<5.00	-	NR
	03/24/06	<1.00	<1.00	0.270J	2.49	1.5	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/30/11	<0.20	<0.20	<0.20	<0.52	1.9	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	0.28 J	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0095
MW-10	01/17/03	<1.0	<1.0	<1.0	<1.0	1.5	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	0.490J	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/30/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0097
MW-11	01/17/03	<1.0	<1.0	<1.0	<1.0	1.6	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	23.7	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	5.1	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	0.250J	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-12	01/17/03	<1.0	<1.0	<1.0	<1.0	2	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	01/15/15	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
MW-13	01/17/03	<1.0	<1.0	<1.0	<1.0	**42.5**	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	**145**	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	6.3	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	**40.8**	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	11	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/30/11	<0.20	<0.20	<0.20	<0.52	2.4	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	0.22 J	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	3.5	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	9.8	<1.0	<0.24	<0.0094
	06/24/15	<0.20	<0.40	<0.20	<0.51	3.2	<1.0	<0.20	<0.0096
MW-14	01/17/03	3.4	<1.0	<1.0	4.5	<1.0	10.9	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	**79.5**	16.7	4.8	26.8	5.8	8.7 J	<0.40	NR
	11/06/13	0.24 J	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/16/15	0.73 J	0.27 J	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		5	1,000	700	10,000	40	25	5	0.05
MW-15	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
MW-16	01/17/03	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	-	**FP**
	02/09/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	-	**FP**
	10/07/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	-	**FP**
	01/21/05	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	-	**FP**
	03/24/06	**14,600**	**20,300**	**2,080**	**11,800**	**536**	**1,080**	-	NR
	01/08/09	**2,660**	**6,520**	**930**	5,100	<25.0	**633**	<25.0	<0.020
	11/04/09	**18,500**	**33,300**	**2,880**	**16,300**	**454**	**928**	<250	**0.30**
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
MW-17	01/17/03	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	-	**FP**
	02/09/04	<1.0	13.2	12.5	74.2	19	10.1	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-18	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	**15.4**	5.5	<1.0	5.6	<1.0	<5.00	-	NR
	10/07/04	1.5	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	**19.2**	1.1	<1.0	7.1	<1.0	<5.00	-	NR
	03/24/06	**36.2**	1.27	<1.00	6.16	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
MW-19	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	3.1	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
MW-19 DUP (DUP 1)	11/22/11	1.3	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
MW-20	01/17/03	**1,520**	314	108	298	**80.4**	**26.3**	-	<0.02
	02/09/04	**3,220**	530	15.2	830	**78**	**61.2**	-	NR
	10/07/04	**90.2**	6.6	<1.0	19.8	**94.4**	<5.00	-	<0.02
	01/21/05	**1,120**	43.1	5.8	95.1	**73**	**36.9**	-	NR
	03/24/06	**44.9**	0.300J	0.310J	3.54	9.14	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	**9.5**	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	2.4	<0.20	<0.20	<0.52	6.2	<1.0	<0.20	NR
	11/06/13	**235**	<1.0	<1.5	<2.5	5.2	10.7 J	<1.1	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/15/15	4.5	0.35 J	<0.28	<0.66	**93.7**	<1.0	<0.24	<0.0095
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0095

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		5	1,000	700	10,000	40	25	5	0.05
MW-21	01/17/03	**269**	27.5	12	118	**42.6**	12.6	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	NS	NS	NS	NS	NS	NS	-	NS
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	**108**	4.5	<0.40	<1.0	8.7	<2.0	<0.40	NR
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	0.93 J	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0098
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0095
MW-22	01/17/03	**2,080**	281	279	576	**257**	**67.9**	-	<0.02
	02/09/04	**782**	49.2	41.4	77.5	**93.4**	15.8	-	NR
	10/07/04	**109**	11.3	3.2	19.5	**71.4**	<5.00	-	<0.02
	01/21/05	**3,980**	300	197	454	**67**	**112**	-	NR
	03/23/06	0.340J	<1.00	<1.00	<1.00	8.11	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	**60.0**	8.3	3.4	3.1	13.8	<1.0	<0.20	NR
	11/06/13	**574**	41.6	45.7	10.9 J	37.3	<10	<2.2	NR
	08/27/14	1.0	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/15/15	**312**	15.6	18.8	6.2	**134**	4.9 J	0.99 J	<0.0095
	06/23/15	1.3	<0.40	<0.20	<0.51	0.51 J	<1.0	<0.20	<0.0096
MW-23	01/17/03	**27.6**	<1.0	<1.0	3.7	27.2	10.5	-	<0.02
	02/09/04	**1,760**	72	<1.0	592	**372**	17.2	-	NR
	10/07/04	**1,620**	103	<1.0	598	**286**	**46**	-	<0.02
	01/20/05	**1,670**	111	<1.0	578	**172**	19.9	-	NR
	03/23/06	**1,290**	44.1	<1.00	266	**168**	**38.4**	-	NR
	01/08/09	**574**	<5.0	<5.0	30.8	**65.2**	<5.0	<5.0	<0.019
	11/04/09	**1,250**	<25.0	<25.0	98.9	**152**	**31.0**	<25.0	<0.019
	11/22/11	**435**	<1.0	<1.0	<2.6	**140**	15.9 J	<1.0	NR
	11/06/13	**49.6**	2.8	<0.58	1.2 J	**98.6**	2.3 J	<0.44	NR
	08/27/14	**239**	16.4	<1.4	7.3 J	**239**	<5.0	<1.2	<0.0096
	01/15/15	**18.6**	<2.0	<2.8	<6.6	**161**	<10	<2.4	<0.0094
	06/23/15	1.9	<0.40	<0.20	<0.51	**102**	<1.0	<0.20	<0.0095

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		5	1,000	700	10,000	40	25	5	0.05
MW-24	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0095
MW-25	01/17/03	<1.0	<1.0	<1.0	<1.0	4.9	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	0.330J	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	1.8	<0.20	<0.29	<0.50	2.7	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0097
MW-26	01/17/03	1.3	<1.0	<1.0	<1.0	4.7	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	0.86 J	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0098

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		5	1,000	700	10,000	40	25	5	0.05
MW-27	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	1.7	<5.00	-	NR
	03/23/06	0.320J	<1.00	<1.00	<1.00	3.95	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	**6.2**	<0.20	<0.20	0.61 J	2.4	<1.0	<0.20	NR
	11/06/13	0.27 J	<0.20	<0.29	<0.50	0.22 J	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/15/15	0.87 J	<0.20	<0.28	<0.66	1.3	<1.0	<0.24	<0.0097
	06/23/15	0.54 J	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
MW-28	01/17/03	<1.0	<1.0	<1.0	<1.0	1.4	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	0.340 J	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	0.38 J	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	**0.26**
MW-29	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0097

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-30	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	11.0	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
MW-31	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
MW-1A	01/21/05	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	03/24/06	**20,700**	**30,600**	**3,310**	**17,600**	**1,880**	**891**	-	NR
	01/08/09	**14,300**	**29,300**	**8,930**	**48,800**	**1,250**	**6,060**	<500	**0.066**
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	**140**	417	42.7	590	4.4 J	**155**	<1.2	<0.0097
	01/15/15	**1,040**	**4,950**	583	5,130	78.8	**474**	<1.2	<0.0096
	06/24/15	**6,460**	**16,400**	**2,060**	**13,600**	**123**	**1,180**	<10	**0.12**

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		5	1,000	700	10,000	40	25	5	0.05
MW-2A	01/21/05	FP	FP	FP	FP	FP	FP	FP	FP
	03/23/06	FP	FP	FP	FP	FP	FP	FP	FP
	01/08/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/03/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/30/11	260	517	37.3	491	<3.4	70.4	<2.0	NR
	11/06/13	FP	FP	FP	FP	FP	FP	FP	FP
	08/27/14	17,000	30,600	2,420	15,700	232 J	1,270 J	<60	<0.0093
	01/15/15	17,900	20,900	1,680	8,520	281	571 J	<60	0.12
	06/24/15	9,680	19,000	1,600	9,370	<75	962 J	<50	0.083
MW-2A DUP (DUP B)	08/27/14	17,500	31,000	2,310	14,500	250 J	695 J	<120	0.19
MW-3A	01/21/05	FP	FP	FP	FP	FP	FP	FP	FP
	03/23/06	FP	FP	FP	FP	FP	FP	FP	FP
	01/08/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/03/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/22/11	FP	FP	FP	FP	FP	FP	FP	FP
	11/06/13	FP	FP	FP	FP	FP	FP	FP	FP
	08/27/14	15,700	38,900	2,430	15,300	<100	873 J	<120	0.17
	01/15/15	2,930	8,310	875	8,780	<20	556	<24	0.029
	06/24/15	11,400	35,000	3,220	18,400	37.8 J	1,540	<20	0.18

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-4A	01/21/05	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	03/24/06	**19,600**	**34,800**	**3,900**	**21,500**	**247**	**952**	NR	NR
	01/08/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**7,250**	**30,200**	**2,050**	**12,700**	<110	**627 J**	<110	NR
	08/27/14	**6,890**	**27,700**	**1,680**	**16,300**	<50	**561 J**	<60	**0.13**
	01/15/15	**2,300**	**11,500**	**1,010**	**12,300**	**50.9 J**	**511 J**	<48	**0.052**
	06/24/15	**7,680**	**33,800**	**2,000**	**17,400**	<60	**840 J**	<40	**0.10**
MW-4A DUP A	06/24/15	**8,140**	**37,100**	**2,460**	**19,900**	7.4	**867 J**	1.6	**0.16**
TW-1	01/17/03	**25.5**	46.6	6.9	19.8	<1.0	9.3	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/23/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/28/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0094
TW-2	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	11.7	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	**7.22**	<1.00	<1.00	<1.00	1.7	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	**7.0**	<0.20	<0.20	<0.52	1.0	<1.0	<0.20	NR
	11/06/13	4.7	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	0.26 J	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	06/23/15	0.96 J	<0.40	<0.20	<0.51	0.40 J	<1.0	<0.20	<0.0095

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		5	1,000	700	10,000	40	25	5	0.05
WSW-1	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/28/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
WSW-2	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	06/23/15	NS	NS	NS	NS	NS	NS	NS	NS
WSW-3	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/28/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0097
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
FIELD BLANK	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	0.21 J	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0097
TRIP BLANK	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	NR
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	NR

Notes:

- Analyses for selected volatile organic compounds by EPA Method 8260B; lead by EPA Method 6010B or 200.7; and EDB by EPA Method 8011; results reported in µg/l.
- RBSL: May 2001 Risk Based Screening Level.
- Concentrations in bold face type exceeded the RBSL.
- <: Less than the report limit specified in the laboratory report.
- NS: Not sampled.
- NR: Analysis not requested.
- I or J: Estimated value.
- FP: Free product.

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
MW-1	03/24/06	<50.0	**5,030**	<5,000	<50.0	**35,000**	<50.0	**1,280**	<1,000
	11/04/09	<500	<10,000	<20,000	<1,000	**10,200**	<1,000	<10,000	<5,000
	11/23/11	<35	<2,500	<2,500	<31	**24,100**	<39	<300	<500
	11/06/13	<25	<2,000	<2,100	<55	**7,700**	<49	<470	<500
	08/27/14	<45	<760	<4,600	<40	**10,600**	<44	<1,800	<810
	01/16/15	<23	<380	<2300	<20	**12,200**	<22	<880	<400
	06/24/15	<20	<1000	<3500	<20	**9,000**	<22	<540	<400
MW-1 DUP	11/06/13	<51	<4,000	<4,200	<110	**7,020**	<97	<950	<1,000
	08/27/14	<45	<760	<4,600	<40	**8,960**	<44	<1,800	<810
	01/16/15	<20	<1,000	<3,500	<20	**12,300**	<22	<540	<400
MW-2	03/24/06	<50.0	**4,620**	<5,000	<50.0	**25,700**	**54**	**1,020**	<1,000
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/23/11	<88	<6,300	<6,300	<78	**37,800**	<98	<750	<1,300
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	01/16/15	<11	<190	<1,200	<10	**5,830**	<11	<440	<200
	06/24/15	<10	<500	<1800	<10	**7,070**	<11	<270	<200
MW-2 DUP (DUP 2)	11/23/11	<88	<6,300	<6,300	<78	**37,000**	<98	<750	<1,300
MW-3	03/24/06	<1.00	**99.1**	<100	<1.00	**223**	<1.00	**26.7**	<20.0
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	**23.9**	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
MW-3 DUP B	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
MW-4	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	01/15/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
MW-5	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	01/15/15	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
MW-6	11/03/09	<5.0	115	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
MW-7	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
MW-8	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	**11.2 J**	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
MW-8 DUP	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	01/15/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
MW-9	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/30/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
MW-10	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/30/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
MW-11	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	01/15/15	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
MW-12	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	01/15/15	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
MW-13	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/30/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	**0.96 J**	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	**5.1**	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	**1.9 J**	<5.4	<4.0
MW-14	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.70	<50	<50	<0.62	**450**	<0.78	<6.0	<10
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0

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SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
MW-15	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
MW-16	03/24/06	<50.0	**5,140**	<5,000	<50.0	**34,600**	**72.5**	**1,560**	<1,000
	11/04/09	<250	<5,000	<10,000	<500	**45,400**	<500	<5,000	<2,500
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	01/15/15	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
MW-18	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	**19.2 J**	<0.39	<3.0	<5.0
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	01/15/15	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
MW-19	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	**5.6 J**	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
MW-19 DUP (DUP 1)	11/22/11	<0.35	<25	<25	<0.31	**12.5 J**	<0.39	<3.0	<5.0
MW-20	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	**151**	<0.39	**9.3 J**	<5.0
	11/06/13	<1.3	<100	<110	<2.8	**567**	<2.4	<24	<25
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	**1.6**	<3.8	<23	**1.9 J**	**1,880**	**3.6**	**105**	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0

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SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
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Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
MW-21	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.70	<50	<50	<0.62	**343**	**1.1 J**	**25.0 J**	<10
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
MW-22	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	**0.60 J**	**1,370**	**3.6**	**45.3**	<5.0
	11/06/13	<2.5	<200	<210	<5.5	**2,000**	**8.9 J**	**50.3 J**	<50
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	**3.7**	<3.8	<23	**6.6**	**8,180**	**22.6**	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	**8.5 J**	<0.22	<5.4	<4.0
MW-23	11/04/09	<25.0	<500	<1,000	<50.0	**1,490**	<50.0	<500	<250
	11/22/11	<1.8	<130	<130	<1.6	**3,200**	**9.7 J**	<15	<25
	11/06/13	**1.5 J**	<40	<42	**2.0 J**	**2,700**	**8.8**	**214**	<10
	08/27/14	**3.4 J**	<19	<120	**6.2 J**	**8,040**	**28.7**	<44	<20
	01/15/15	**2.9 J**	<38	<230	**4.5 J**	**4,730**	**19.3 J**	**339**	<40
	06/23/15	**2.1**	<10	<35	**3.2**	**3,030**	**14.7**	<5.4	<4.0
MW-24	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
MW-25	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0

TABLE 3
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TISDALE'S QUICK SHOP
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Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
MW-26	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
MW-27	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	**43.2**	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	**11.5 J**	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
MW-28	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
MW-29	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
MW-30	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0

TABLE 3
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GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
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Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
MW-31	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
MW-1A	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	<1.1	<19	<120	<1.0	**2,150**	**5.3 J**	<44	<20
	01/15/15	**2.1 J**	<19	<120	**3.3 J**	**11,900**	**12.2**	**386**	<20
	06/24/15	**18.7 J**	<500	<1,800	<10	**44,000**	**130**	**1,080**	<200
MW-2A	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/30/11	<3.5	<250	<250	<3.1	**83.3 J**	<3.9	<30	<50
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	<57	<950	<5,800	<50	**65,500**	**110 J**	<2,200	<1,000
	01/15/15	<57	<950	<5,800	<50	**60,900**	**103 J**	<2,200	<1,000
	06/24/15	<50	<2,500	<8,800	<50	**43,500**	**64.2 J**	<1,400	<1,000
MW-2A DUP (DUP B)	08/27/14	<110	<1,900	<12,000	<100	**63,000**	<110	<4,400	<2,000
MW-3A	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	<110	<1,900	<12,000	<100	**24,900**	<110	<4,400	<2,000
	01/15/15	<23	<380	<2,300	<20	**1,690 J**	<22	<880	<400
	06/24/15	<20	<1,000	<3,500	<20	**38,100**	**28.4 J**	**1,060 J**	<400

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
MW-4A	11/04/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	<130	<10,000	<11,000	<280	**6,280**	<240	<2,400	<2,500
	08/27/14	<57	<950	<5,800	<50	**5,990**	<55	<2,200	<1,000
	01/15/15	<45	<760	<4,600	<40	**2,110 J**	<44	<1,800	<810
	06/24/15	<40	<2,000	<7,000	<40	**3,950 J**	<44	<1,100	<800
MW-4A DUP A	06/24/15	<0.20	<10	<35	**6.1**	**4,840**	**22.6**	<5.4	<4.0
TW-1	03/24/06	<1.00	<10.0	<100	<1.00	<20.0	<1.00	<20.0	<20.0
	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/23/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/28/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
TW-2	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	**15.9 J**	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	**10.6 J**	<0.22	<5.4	<4.0
WSW-1	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/28/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
WSW-3	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/28/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
FIELD BLANK	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
TRIP BLANK	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0

Notes:
- Analyses for oxygenates by Method 8260B; results reported in µg/l.
- <: Less than the report limit specified in the laboratory report.
- Bold indicates analyte reported above the method detection limit.

APPENDICES

APPENDIX A

Laboratory Analytical Report – Ground Water Samples

Southeast
ACCUTEST
LABORATORIES

07/08/15



Technical Report for

GRI (Geological Resources Inc.)

Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

18686/1543

Accutest Job Number: FA25560

Sampling Dates: 06/23/15 - 06/24/15

Report to:

GRI
3502 Hayes Rd
Monroe, NC 28110
wsb@geologicalresourcesinc.com; carriekennedy@geologicalresourcesinc.com; jjr@geologicalresourcesinc.com; nml@geologicalresourcesinc.com
ATTN: Scott Ball

Total number of pages in report: **118**

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.

Norm Farmer
Technical Director

Client Service contact: Muna Mohammed 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001), DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Test results relate only to samples analyzed.

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Sample Summary

GRI (Geological Resources Inc.)

Job No: FA25560

Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Project No: 18686/1543

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA25560-1	06/24/15	11:24	AR	06/25/15	AQ	Ground Water	18686 MW-1
FA25560-2	06/24/15	11:37	AR	06/25/15	AQ	Ground Water	18686 MW-2
FA25560-3	06/24/15	12:10	AR	06/25/15	AQ	Ground Water	18686 MW-3
FA25560-4	06/24/15	11:56	AR	06/25/15	AQ	Ground Water	18686 MW-6
FA25560-5	06/24/15	11:49	AR	06/25/15	AQ	Ground Water	18686 MW-7
FA25560-6	06/24/15	10:57	AR	06/25/15	AQ	Ground Water	18686 MW-8
FA25560-7	06/24/15	10:08	AR	06/25/15	AQ	Ground Water	18686 MW-9
FA25560-8	06/24/15	09:39	AR	06/25/15	AQ	Ground Water	18686 MW-10
FA25560-9	06/24/15	11:07	AR	06/25/15	AQ	Ground Water	18686 MW-13
FA25560-10	06/23/15	12:12	AR	06/25/15	AQ	Ground Water	18686 MW-14
FA25560-11	06/23/15	12:04	AR	06/25/15	AQ	Ground Water	18686 MW-15
FA25560-12	06/23/15	11:13	AR	06/25/15	AQ	Ground Water	18686 MW-19
FA25560-13	06/23/15	11:08	AR	06/25/15	AQ	Ground Water	18686 MW-20

Sample Summary
(continued)

GRI (Geological Resources Inc.)

Job No: FA25560

Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Project No: 18686/1543

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA25560-14	06/23/15	10:23	AR	06/25/15	AQ	Ground Water	18686 MW-21
FA25560-15	06/23/15	09:41	AR	06/25/15	AQ	Ground Water	18686 MW-22
FA25560-16	06/23/15	09:08	AR	06/25/15	AQ	Ground Water	18686 MW-23
FA25560-17	06/23/15	09:16	AR	06/25/15	AQ	Ground Water	18686 MW-24
FA25560-18	06/23/15	09:23	AR	06/25/15	AQ	Ground Water	18686 MW-25
FA25560-19	06/23/15	09:32	AR	06/25/15	AQ	Ground Water	18686 MW-26
FA25560-20	06/23/15	09:54	AR	06/25/15	AQ	Ground Water	18686 MW-27
FA25560-21	06/23/15	10:02	AR	06/25/15	AQ	Ground Water	18686 MW-28
FA25560-22	06/23/15	08:57	AR	06/25/15	AQ	Ground Water	18686 MW-29
FA25560-23	06/23/15	08:12	AR	06/25/15	AQ	Ground Water	18686 MW-30
FA25560-24	06/23/15	08:17	AR	06/25/15	AQ	Ground Water	18686 MW-31
FA25560-25	06/24/15	10:22	AR	06/25/15	AQ	Ground Water	18686 MW-1A
FA25560-26	06/24/15	10:13	AR	06/25/15	AQ	Ground Water	18686 MW-2A

Sample Summary
(continued)

GRI (Geological Resources Inc.)

Job No: FA25560

Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Project No: 18686/1543

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
FA25560-27	06/24/15	10:31 AR	06/25/15	AQ	Ground Water	18686 MW-3A
FA25560-28	06/24/15	10:43 AR	06/25/15	AQ	Ground Water	18686 MW-4A
FA25560-29	06/24/15	12:48 AR	06/25/15	AQ	Ground Water	18686 TW-1
FA25560-30	06/23/15	10:49 AR	06/25/15	AQ	Ground Water	18686 TW-2
FA25560-31	06/24/15	00:00 AR	06/25/15	AQ	Ground Water	18686 DUP A
FA25560-32	06/24/15	00:00 AR	06/25/15	AQ	Ground Water	18686 DUP B
FA25560-33	06/24/15	13:14 AR	06/25/15	AQ	Ground Water	18686 WSW-1
FA25560-34	06/24/15	13:26 AR	06/25/15	AQ	Ground Water	18686 WSW-3
FA25560-35	06/24/15	09:52 AR	06/25/15	AQ	Field Blank Water	18686 FIELD BLANK
FA25560-36	06/23/15	00:00 AR	06/25/15	AQ	Trip Blank Water	18686 TRIP BLANK

Summary of Hits

Job Number: FA25560
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 06/23/15 thru 06/24/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA25560-1	**18686 MW-1**					
Benzene		4370	100	20	ug/l	SW846 8260B
Toluene		10900	200	80	ug/l	SW846 8260B
Ethylbenzene		841	100	20	ug/l	SW846 8260B
Xylene (total)		6320	300	51	ug/l	SW846 8260B
Methyl Tert Butyl Ether		94.5 J	100	30	ug/l	SW846 8260B
Naphthalene		258 J	500	100	ug/l	SW846 8260B
Tert-Amyl Alcohol		9000	2000	810	ug/l	SW846 8260B
FA25560-2	**18686 MW-2**					
Benzene		5560	200	40	ug/l	SW846 8260B
Toluene		11400	200	80	ug/l	SW846 8260B
Ethylbenzene		1040	50	10	ug/l	SW846 8260B
Xylene (total)		6020	150	26	ug/l	SW846 8260B
Methyl Tert Butyl Ether		17.4 J	50	15	ug/l	SW846 8260B
Naphthalene		239 J	250	50	ug/l	SW846 8260B
Tert-Amyl Alcohol		7070	1000	400	ug/l	SW846 8260B
1,2-Dibromoethane [a]		0.26	0.019	0.0096	ug/l	SW846 8011
FA25560-3	**18686 MW-3**					
Benzene		0.73 J	1.0	0.20	ug/l	SW846 8260B
Toluene		12.6	1.0	0.40	ug/l	SW846 8260B
Ethylbenzene		9.1	1.0	0.20	ug/l	SW846 8260B
Xylene (total)		77.6	3.0	0.51	ug/l	SW846 8260B
Naphthalene		5.7	5.0	1.0	ug/l	SW846 8260B
FA25560-4	**18686 MW-6**					
No hits reported in this sample.						
FA25560-5	**18686 MW-7**					
No hits reported in this sample.						
FA25560-6	**18686 MW-8**					
No hits reported in this sample.						
FA25560-7	**18686 MW-9**					
No hits reported in this sample.						

Summary of Hits

Job Number: FA25560
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 06/23/15 thru 06/24/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA25560-8	**18686 MW-10**					
No hits reported in this sample.						
FA25560-9	**18686 MW-13**					
Methyl Tert Butyl Ether		3.2	1.0	0.30	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		1.9 J	2.0	0.22	ug/l	SW846 8260B
FA25560-10	**18686 MW-14**					
No hits reported in this sample.						
FA25560-11	**18686 MW-15**					
No hits reported in this sample.						
FA25560-12	**18686 MW-19**					
No hits reported in this sample.						
FA25560-13	**18686 MW-20**					
No hits reported in this sample.						
FA25560-14	**18686 MW-21**					
No hits reported in this sample.						
FA25560-15	**18686 MW-22**					
Benzene		1.3	1.0	0.20	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.51 J	1.0	0.30	ug/l	SW846 8260B
Tert-Amyl Alcohol		8.5 J	20	8.1	ug/l	SW846 8260B
FA25560-16	**18686 MW-23**					
Benzene		1.9	1.0	0.20	ug/l	SW846 8260B
Methyl Tert Butyl Ether		102	5.0	1.5	ug/l	SW846 8260B
Di-Isopropyl Ether		2.1	1.0	0.20	ug/l	SW846 8260B
Ethyl Tert Butyl Ether		3.2	2.0	0.20	ug/l	SW846 8260B
Tert-Amyl Alcohol		3030	100	40	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		14.7	2.0	0.22	ug/l	SW846 8260B

Summary of Hits

Job Number: FA25560
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 06/23/15 thru 06/24/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA25560-26	**18686 MW-2A**					
Benzene		9680	250	50	ug/l	SW846 8260B
Toluene		19000	250	100	ug/l	SW846 8260B
Ethylbenzene		1600	250	50	ug/l	SW846 8260B
Xylene (total)		9370	750	130	ug/l	SW846 8260B
Naphthalene		962 J	1300	250	ug/l	SW846 8260B
Tert-Amyl Alcohol		43500	5000	2000	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		64.2 J	500	55	ug/l	SW846 8260B
1,2-Dibromoethane [a]		0.083	0.019	0.0096	ug/l	SW846 8011
FA25560-27	**18686 MW-3A**					
Benzene		11400	500	100	ug/l	SW846 8260B
Toluene		35000	500	200	ug/l	SW846 8260B
Ethylbenzene		3220	100	20	ug/l	SW846 8260B
Xylene (total)		18400	300	51	ug/l	SW846 8260B
Methyl Tert Butyl Ether		37.8 J	100	30	ug/l	SW846 8260B
Naphthalene		1540	500	100	ug/l	SW846 8260B
Tert-Amyl Alcohol		38100	2000	810	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		28.4 J	200	22	ug/l	SW846 8260B
Tert-Butyl Alcohol		1060 J	2000	540	ug/l	SW846 8260B
1,2-Dibromoethane [a]		0.18	0.020	0.0098	ug/l	SW846 8011
FA25560-28	**18686 MW-4A**					
Benzene		7680	200	40	ug/l	SW846 8260B
Toluene		33800	500	200	ug/l	SW846 8260B
Ethylbenzene		2000	200	40	ug/l	SW846 8260B
Xylene (total)		17400	600	100	ug/l	SW846 8260B
Naphthalene		840 J	1000	200	ug/l	SW846 8260B
Tert-Amyl Alcohol		3950 J	4000	1600	ug/l	SW846 8260B
1,2-Dibromoethane [a]		0.10	0.019	0.0096	ug/l	SW846 8011
FA25560-29	**18686 TW-1**					
No hits reported in this sample.						
FA25560-30	**18686 TW-2**					
Benzene		0.96 J	1.0	0.20	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.40 J	1.0	0.30	ug/l	SW846 8260B
Tert-Amyl Alcohol		10.6 J	20	8.1	ug/l	SW846 8260B

Summary of Hits

Job Number: FA25560
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 06/23/15 thru 06/24/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA25560-17	**18686 MW-24**					
No hits reported in this sample.						
FA25560-18	**18686 MW-25**					
No hits reported in this sample.						
FA25560-19	**18686 MW-26**					
No hits reported in this sample.						
FA25560-20	**18686 MW-27**					
Benzene		0.54 J	1.0	0.20	ug/l	SW846 8260B
FA25560-21	**18686 MW-28**					
1,2-Dibromoethane [a]		0.26	0.020	0.0098	ug/l	SW846 8011
FA25560-22	**18686 MW-29**					
No hits reported in this sample.						
FA25560-23	**18686 MW-30**					
No hits reported in this sample.						
FA25560-24	**18686 MW-31**					
No hits reported in this sample.						
FA25560-25	**18686 MW-1A**					
Benzene		6460	200	40	ug/l	SW846 8260B
Toluene		16400	200	80	ug/l	SW846 8260B
Ethylbenzene		2060	50	10	ug/l	SW846 8260B
Xylene (total)		13600	150	26	ug/l	SW846 8260B
Methyl Tert Butyl Ether		123	50	15	ug/l	SW846 8260B
Naphthalene		1180	250	50	ug/l	SW846 8260B
Di-Isopropyl Ether		18.7 J	50	10	ug/l	SW846 8260B
Tert-Amyl Alcohol		44000	1000	400	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		130	100	11	ug/l	SW846 8260B
Tert-Butyl Alcohol		1080	1000	270	ug/l	SW846 8260B
1,2-Dibromoethane [a]		0.12	0.019	0.0096	ug/l	SW846 8011

Summary of Hits

Job Number: FA25560
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 06/23/15 thru 06/24/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA25560-31	**18686 DUP A**					
Benzene		8140	200	40	ug/l	SW846 8260B
Toluene		37100	500	200	ug/l	SW846 8260B
Ethylbenzene		2460	200	40	ug/l	SW846 8260B
Xylene (total)		19900	600	100	ug/l	SW846 8260B
Methyl Tert Butyl Ether		7.4	1.0	0.30	ug/l	SW846 8260B
Naphthalene		867 J	1000	200	ug/l	SW846 8260B
1,2-Dichloroethane		1.6	1.0	0.20	ug/l	SW846 8260B
Ethyl Tert Butyl Ether		6.1	2.0	0.20	ug/l	SW846 8260B
Tert-Amyl Alcohol		4840	4000	1600	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		22.6	2.0	0.22	ug/l	SW846 8260B
1,2-Dibromoethane [a]		0.16	0.019	0.0093	ug/l	SW846 8011
FA25560-32	**18686 DUP B**					
Benzene		0.24 J	1.0	0.20	ug/l	SW846 8260B
Toluene		14.2	1.0	0.40	ug/l	SW846 8260B
Ethylbenzene		16.1	1.0	0.20	ug/l	SW846 8260B
Xylene (total)		112	3.0	0.51	ug/l	SW846 8260B
Naphthalene		8.1	5.0	1.0	ug/l	SW846 8260B

FA25560-33 **18686 WSW-1**

No hits reported in this sample.

FA25560-34 **18686 WSW-3**

No hits reported in this sample.

FA25560-35 **18686 FIELD BLANK**

No hits reported in this sample.

FA25560-36 **18686 TRIP BLANK**

No hits reported in this sample.

(a) All hits confirmed by dual column analysis.

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Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-1		
Lab Sample ID:	FA25560-1	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969382.D	100	06/30/15	MM	n/a	n/a	VJ5020
Run #2	J0969448.D	200	07/02/15	MM	n/a	n/a	VJ5022

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4370	100	20	ug/l	
108-88-3	Toluene	10900 [a]	200	80	ug/l	
100-41-4	Ethylbenzene	841	100	20	ug/l	
1330-20-7	Xylene (total)	6320	300	51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	94.5	100	30	ug/l	J
91-20-3	Naphthalene	258	500	100	ug/l	J
107-06-2	1,2-Dichloroethane	ND	100	20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	100	20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	5000	1000	ug/l	
64-17-5	Ethyl Alcohol	ND	10000	3500	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	200	20	ug/l	
75-85-4	Tert-Amyl Alcohol	9000	2000	810	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	200	22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	2000	540	ug/l	
762-75-4	Tert-Butyl Formate	ND	2000	400	ug/l	

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

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-1		
Lab Sample ID:	FA25560-1	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82760.D	1	06/29/15	NG	06/29/15	OP56636	GDD2443
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.2

Client Sample ID:	18686 MW-2		
Lab Sample ID:	FA25560-2	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969383.D	50	06/30/15	MM	n/a	n/a	VJ5020
Run #2	J0969449.D	200	07/02/15	MM	n/a	n/a	VJ5022

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5560 [a]	200	40	ug/l	
108-88-3	Toluene	11400 [a]	200	80	ug/l	
100-41-4	Ethylbenzene	1040	50	10	ug/l	
1330-20-7	Xylene (total)	6020	150	26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	17.4	50	15	ug/l	J
91-20-3	Naphthalene	239	250	50	ug/l	J
107-06-2	1,2-Dichloroethane	ND	50	10	ug/l	
108-20-3	Di-Isopropyl Ether	ND	50	10	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	2500	500	ug/l	
64-17-5	Ethyl Alcohol	ND	5000	1800	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	100	10	ug/l	
75-85-4	Tert-Amyl Alcohol	7070	1000	400	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	100	11	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	1000	270	ug/l	
762-75-4	Tert-Butyl Formate	ND	1000	200	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	100%	79-125%
2037-26-5	Toluene-D8	101%	103%	85-112%
460-00-4	4-Bromofluorobenzene	102%	102%	83-118%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-2		
Lab Sample ID:	FA25560-2	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD82793.D	1	07/01/15	NG	06/29/15	OP56636	GDD2444
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.26	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-3		
Lab Sample ID:	FA25560-3	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969370.D	1	06/30/15	MM	n/a	n/a	VJ5020
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.73	1.0	0.20	ug/l	J
108-88-3	Toluene	12.6	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	9.1	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	77.6	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	5.7	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	95%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	18686 MW-3		
Lab Sample ID:	FA25560-3	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82762.D	1	06/29/15	NG	06/29/15	OP56636	GDD2443
Run #2							

	Initial Volume	Final Volume
Run #1	36.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-6		
Lab Sample ID:	FA25560-4	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969371.D	1	06/30/15	MM	n/a	n/a	VJ5020
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	99%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.4

Client Sample ID:	18686 MW-6		
Lab Sample ID:	FA25560-4	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82765.D	1	06/29/15	NG	06/29/15	OP56636	GDD2443
Run #2							

	Initial Volume	Final Volume
Run #1	36.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-7		
Lab Sample ID:	FA25560-5	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969372.D	1	06/30/15	MM	n/a	n/a	VJ5020
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis



Client Sample ID:	18686 MW-7		
Lab Sample ID:	FA25560-5	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82766.D	1	06/29/15	NG	06/29/15	OP56636	GDD2443
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.6

Client Sample ID:	18686 MW-8		
Lab Sample ID:	FA25560-6	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969373.D	1	06/30/15	MM	n/a	n/a	VJ5020
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	103%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-8		
Lab Sample ID:	FA25560-6	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82767.D	1	06/29/15	NG	06/29/15	OP56636	GDD2443
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-9		
Lab Sample ID:	FA25560-7	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969374.D	1	06/30/15	MM	n/a	n/a	VJ5020
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	102%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-9		
Lab Sample ID:	FA25560-7	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82768.D	1	06/29/15	NG	06/29/15	OP56636	GDD2443
Run #2							

	Initial Volume	Final Volume
Run #1	37.0 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-10		
Lab Sample ID:	FA25560-8	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969375.D	1	06/30/15	MM	n/a	n/a	VJ5020
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	98%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-10		
Lab Sample ID:	FA25560-8	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82769.D	1	06/29/15	NG	06/29/15	OP56636	GDD2443
Run #2							

	Initial Volume	Final Volume
Run #1	36.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0097	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.9

Client Sample ID:	18686 MW-13		
Lab Sample ID:	FA25560-9	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969376.D	1	06/30/15	MM	n/a	n/a	VJ5020
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.2	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	1.9	2.0	0.22	ug/l	J
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	99%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-13		
Lab Sample ID:	FA25560-9	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82770.D	1	06/29/15	NG	06/29/15	OP56636	GDD2443
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-14		
Lab Sample ID:	FA25560-10	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969377.D	1	06/30/15	MM	n/a	n/a	VJ5020
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	99%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-14		
Lab Sample ID:	FA25560-10	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82771.D	1	06/29/15	NG	06/29/15	OP56636	GDD2443
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-15		
Lab Sample ID:	FA25560-11	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969385.D	1	06/30/15	MM	n/a	n/a	VJ5020
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	102%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-15		
Lab Sample ID:	FA25560-11	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82772.D	1	06/29/15	NG	06/29/15	OP56636	GDD2443
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.12

Client Sample ID:	18686 MW-19		
Lab Sample ID:	FA25560-12	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969446.D	1	07/02/15	MM	n/a	n/a	VJ5022
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	103%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-19		
Lab Sample ID:	FA25560-12	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82773.D	1	06/29/15	NG	06/29/15	OP56636	GDD2443
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-20		
Lab Sample ID:	FA25560-13	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969380.D	1	06/30/15	MM	n/a	n/a	VJ5020
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	100%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-20		
Lab Sample ID:	FA25560-13	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82774.D	1	06/29/15	NG	06/29/15	OP56636	GDD2443
Run #2							

	Initial Volume	Final Volume
Run #1	36.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	113%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-21		
Lab Sample ID:	FA25560-14	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969381.D	1	06/30/15	MM	n/a	n/a	VJ5020
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	99%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	108%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-21		
Lab Sample ID:	FA25560-14	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82777.D	1	06/29/15	NG	06/29/15	OP56636	GDD2443
Run #2							

	Initial Volume	Final Volume
Run #1	36.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-22		
Lab Sample ID:	FA25560-15	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969447.D	1	07/02/15	MM	n/a	n/a	VJ5022
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.3	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.51	1.0	0.30	ug/l	J
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	8.5	20	8.1	ug/l	J
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	99%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-22		
Lab Sample ID:	FA25560-15	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82778.D	1	06/29/15	NG	06/29/15	OP56636	GDD2443
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-23		
Lab Sample ID:	FA25560-16	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969386.D	1	06/30/15	MM	n/a	n/a	VJ5020
Run #2	J0969493.D	5	07/06/15	MM	n/a	n/a	VJ5024

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.9	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	102 [a]	5.0	1.5	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	2.1	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	3.2	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	3030 [a]	100	40	ug/l	
994-05-8	Tert-Amyl Methyl Ether	14.7	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	98%	79-125%
2037-26-5	Toluene-D8	101%	103%	85-112%
460-00-4	4-Bromofluorobenzene	104%	105%	83-118%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-23		
Lab Sample ID:	FA25560-16	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82779.D	1	06/29/15	NG	06/29/15	OP56636	GDD2443
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-24		
Lab Sample ID:	FA25560-17	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969389.D	1	06/30/15	MM	n/a	n/a	VJ5020
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	102%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-24		
Lab Sample ID:	FA25560-17	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82780.D	1	06/29/15	NG	06/29/15	OP56636	GDD2443
Run #2							

	Initial Volume	Final Volume
Run #1	36.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.18

Client Sample ID:	18686 MW-25		
Lab Sample ID:	FA25560-18	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969399.D	1	07/01/15	MM	n/a	n/a	VJ5021
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	99%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-25		
Lab Sample ID:	FA25560-18	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82781.D	1	06/29/15	NG	06/29/15	OP56636	GDD2443
Run #2							

	Initial Volume	Final Volume
Run #1	36.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0097	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-26		
Lab Sample ID:	FA25560-19	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969400.D	1	07/01/15	MM	n/a	n/a	VJ5021
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	97%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-26		
Lab Sample ID:	FA25560-19	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82799.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444
Run #2							

	Initial Volume	Final Volume
Run #1	35.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.0098	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-27		
Lab Sample ID:	FA25560-20	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969401.D	1	07/01/15	MM	n/a	n/a	VJ5021
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.54	1.0	0.20	ug/l	J
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	96%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-27		
Lab Sample ID:	FA25560-20	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82801.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	70%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-28		
Lab Sample ID:	FA25560-21	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969402.D	1	07/01/15	MM	n/a	n/a	VJ5021
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	99%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-28		
Lab Sample ID:	FA25560-21	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD82803.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444
Run #2							

	Initial Volume	Final Volume
Run #1	35.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.26	0.020	0.0098	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-29		
Lab Sample ID:	FA25560-22	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969403.D	1	07/01/15	MM	n/a	n/a	VJ5021
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	99%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-29		
Lab Sample ID:	FA25560-22	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82804.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444
Run #2							

	Initial Volume	Final Volume
Run #1	35.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0097	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	75%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.23

Client Sample ID:	18686 MW-30		
Lab Sample ID:	FA25560-23	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969404.D	1	07/01/15	MM	n/a	n/a	VJ5021
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	100%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-30		
Lab Sample ID:	FA25560-23	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82805.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444
Run #2							

	Initial Volume	Final Volume
Run #1	36.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	70%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-31		
Lab Sample ID:	FA25560-24	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969405.D	1	07/01/15	MM	n/a	n/a	VJ5021
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	100%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.24

Client Sample ID:	18686 MW-31		
Lab Sample ID:	FA25560-24	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82808.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	75%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.25

Client Sample ID:	18686 MW-1A		
Lab Sample ID:	FA25560-25	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969406.D	50	07/01/15	MM	n/a	n/a	VJ5021
Run #2	J0969495.D	200	07/06/15	MM	n/a	n/a	VJ5024

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	6460 [a]	200	40	ug/l	
108-88-3	Toluene	16400 [a]	200	80	ug/l	
100-41-4	Ethylbenzene	2060	50	10	ug/l	
1330-20-7	Xylene (total)	13600	150	26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	123	50	15	ug/l	
91-20-3	Naphthalene	1180	250	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	10	ug/l	
108-20-3	Di-Isopropyl Ether	18.7	50	10	ug/l	J
624-95-3	3,3-Dimethyl-1-Butanol	ND	2500	500	ug/l	
64-17-5	Ethyl Alcohol	ND	5000	1800	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	100	10	ug/l	
75-85-4	Tert-Amyl Alcohol	44000	1000	400	ug/l	
994-05-8	Tert-Amyl Methyl Ether	130	100	11	ug/l	
75-65-0	Tert-Butyl Alcohol	1080	1000	270	ug/l	
762-75-4	Tert-Butyl Formate	ND	1000	200	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	97%	79-125%
2037-26-5	Toluene-D8	100%	101%	85-112%
460-00-4	4-Bromofluorobenzene	96%	97%	83-118%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-1A		
Lab Sample ID:	FA25560-25	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD82809.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.12	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.26

Client Sample ID:	18686 MW-2A		
Lab Sample ID:	FA25560-26	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969407.D	250	07/01/15	MM	n/a	n/a	VJ5021
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	9680	250	50	ug/l	
108-88-3	Toluene	19000	250	100	ug/l	
100-41-4	Ethylbenzene	1600	250	50	ug/l	
1330-20-7	Xylene (total)	9370	750	130	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	250	75	ug/l	
91-20-3	Naphthalene	962	1300	250	ug/l	J
107-06-2	1,2-Dichloroethane	ND	250	50	ug/l	
108-20-3	Di-Isopropyl Ether	ND	250	50	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	13000	2500	ug/l	
64-17-5	Ethyl Alcohol	ND	25000	8800	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	500	50	ug/l	
75-85-4	Tert-Amyl Alcohol	43500	5000	2000	ug/l	
994-05-8	Tert-Amyl Methyl Ether	64.2	500	55	ug/l	J
75-65-0	Tert-Butyl Alcohol	ND	5000	1400	ug/l	
762-75-4	Tert-Butyl Formate	ND	5000	1000	ug/l	

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

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-2A		
Lab Sample ID:	FA25560-26	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD82810.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.083	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	79%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.27

Client Sample ID:	18686 MW-3A		
Lab Sample ID:	FA25560-27	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969408.D	100	07/01/15	MM	n/a	n/a	VJ5021
Run #2	J0969496.D	500	07/06/15	MM	n/a	n/a	VJ5024

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	11400 [a]	500	100	ug/l	
108-88-3	Toluene	35000 [a]	500	200	ug/l	
100-41-4	Ethylbenzene	3220	100	20	ug/l	
1330-20-7	Xylene (total)	18400	300	51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	37.8	100	30	ug/l	J
91-20-3	Naphthalene	1540	500	100	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	100	20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	5000	1000	ug/l	
64-17-5	Ethyl Alcohol	ND	10000	3500	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	200	20	ug/l	
75-85-4	Tert-Amyl Alcohol	38100	2000	810	ug/l	
994-05-8	Tert-Amyl Methyl Ether	28.4	200	22	ug/l	J
75-65-0	Tert-Butyl Alcohol	1060	2000	540	ug/l	J
762-75-4	Tert-Butyl Formate	ND	2000	400	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	100%	79-125%
2037-26-5	Toluene-D8	101%	102%	85-112%
460-00-4	4-Bromofluorobenzene	95%	100%	83-118%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-3A		
Lab Sample ID:	FA25560-27	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD82811.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444
Run #2							

	Initial Volume	Final Volume
Run #1	35.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.18	0.020	0.0098	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	68%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.28

Client Sample ID:	18686 MW-4A		
Lab Sample ID:	FA25560-28	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969409.D	200	07/01/15	MM	n/a	n/a	VJ5021
Run #2	J0969464.D	500	07/02/15	MM	n/a	n/a	VJ5023

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	7680	200	40	ug/l	
108-88-3	Toluene	33800 a	500	200	ug/l	
100-41-4	Ethylbenzene	2000	200	40	ug/l	
1330-20-7	Xylene (total)	17400	600	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	200	60	ug/l	
91-20-3	Naphthalene	840	1000	200	ug/l	J
107-06-2	1,2-Dichloroethane	ND	200	40	ug/l	
108-20-3	Di-Isopropyl Ether	ND	200	40	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	10000	2000	ug/l	
64-17-5	Ethyl Alcohol	ND	20000	7000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	400	40	ug/l	
75-85-4	Tert-Amyl Alcohol	3950	4000	1600	ug/l	J
994-05-8	Tert-Amyl Methyl Ether	ND	400	44	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	4000	1100	ug/l	
762-75-4	Tert-Butyl Formate	ND	4000	800	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	103%	79-125%
2037-26-5	Toluene-D8	102%	100%	85-112%
460-00-4	4-Bromofluorobenzene	101%	106%	83-118%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-4A		
Lab Sample ID:	FA25560-28	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD82812.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.10	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	67%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 TW-1		
Lab Sample ID:	FA25560-29	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969438.D	1	07/02/15	MM	n/a	n/a	VJ5022
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	99%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 TW-1		
Lab Sample ID:	FA25560-29	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82813.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444
Run #2							

	Initial Volume	Final Volume
Run #1	37.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	76%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 TW-2		
Lab Sample ID:	FA25560-30	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969439.D	1	07/02/15	MM	n/a	n/a	VJ5022
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.96	1.0	0.20	ug/l	J
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.40	1.0	0.30	ug/l	J
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	10.6	20	8.1	ug/l	J
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	98%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 TW-2		
Lab Sample ID:	FA25560-30	**Date Sampled:**	06/23/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82814.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 DUP A		
Lab Sample ID:	FA25560-31	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969440.D	1	07/02/15	MM	n/a	n/a	VJ5022
Run #2	J0969494.D	200	07/06/15	MM	n/a	n/a	VJ5024
Run #3	J0969522.D	500	07/07/15	MM	n/a	n/a	VJ5025

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	8140 [a]	200	40	ug/l	
108-88-3	Toluene	37100 [b]	500	200	ug/l	
100-41-4	Ethylbenzene	2460 [a]	200	40	ug/l	
1330-20-7	Xylene (total)	19900 [a]	600	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	7.4	1.0	0.30	ug/l	
91-20-3	Naphthalene	867 [a]	1000	200	ug/l	J
107-06-2	1,2-Dichloroethane	1.6	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	6.1	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	4840 [a]	4000	1600	ug/l	
994-05-8	Tert-Amyl Methyl Ether	22.6	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	86%	101%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	96%	100%	79-125%
2037-26-5	Toluene-D8	72% [c]	101%	102%	85-112%
460-00-4	4-Bromofluorobenzene	99%	99%	101%	83-118%

(a) Result is from Run# 2
(b) Result is from Run# 3
(c) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 DUP A		
Lab Sample ID:	FA25560-31	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD82815.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444
Run #2							

	Initial Volume	Final Volume
Run #1	37.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.16	0.019	0.0093	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	76%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 DUP B		
Lab Sample ID:	FA25560-32	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969498.D	1	07/06/15	MM	n/a	n/a	VJ5024
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.24	1.0	0.20	ug/l	J
108-88-3	Toluene	14.2	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	16.1	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	112	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	8.1	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	102%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 DUP B		
Lab Sample ID:	FA25560-32	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82816.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444
Run #2							

	Initial Volume	Final Volume
Run #1	37.0 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 WSW-1		
Lab Sample ID:	FA25560-33	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969465.D	1	07/02/15	MM	n/a	n/a	VJ5023
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	102%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 WSW-1		
Lab Sample ID:	FA25560-33	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82817.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.34

Client Sample ID:	18686 WSW-3		
Lab Sample ID:	FA25560-34	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969491.D	1	07/06/15	MM	n/a	n/a	VJ5024
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	99%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 WSW-3		
Lab Sample ID:	FA25560-34	**Date Sampled:**	06/24/15
Matrix:	AQ - Ground Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82819.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

3.35

Client Sample ID:	18686 FIELD BLANK		
Lab Sample ID:	FA25560-35	**Date Sampled:**	06/24/15
Matrix:	AQ - Field Blank Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969492.D	1	07/06/15	MM	n/a	n/a	VJ5024
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	100%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 FIELD BLANK		
Lab Sample ID:	FA25560-35	**Date Sampled:**	06/24/15
Matrix:	AQ - Field Blank Water	**Date Received:**	06/25/15
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD82820.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444
Run #2							

	Initial Volume	Final Volume
Run #1	36.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0097	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 TRIP BLANK		
Lab Sample ID:	FA25560-36	**Date Sampled:**	06/23/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/25/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0969445.D	1	07/02/15	MM	n/a	n/a	VJ5022
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	103%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast
ACCUTEST
LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Parameter Certification Exceptions

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
3,3-Dimethyl-1-Butanol	624-95-3	SW846 8260B	AQ	Certified by SOP MS005
Di-Isopropyl Ether	108-20-3	SW846 8260B	AQ	Certified by SOP MS005
Tert-Amyl Alcohol	75-85-4	SW846 8260B	AQ	Certified by SOP MS005
Tert-Butyl Formate	762-75-4	SW846 8260B	AQ	Certified by SOP MS005

Accutest Laboratories Southeast

Chain of Custody

ACCUTEST LABORATORIES

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

Accutest JOB # FA25560 PAGE 1 OF 3

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: G.R.I.
Address: 3502 Hayes Rd
City: Monroe State: NC Zip: 28110
Project Contact: Scott Ball E-mail: wsbc2@epnl09
Phone#: 704-845-4010
Sampler(s) Name(s) (Printed): Angela K

Project Information

Project Name: Tuckers Quick Stop
Street: 1989 Thurgood Marshall Blvd
City: Kingstree State: SC
Project #: 7543
Fax #: UST Permit # 186086
Client Purchase Order #: 1615

Analytical Information

Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	BTEX MTBE by 8021	Naphthalene by 8260	EDB by 8011	Metric Codes
1	186086 MW-1	6/24	1124	ANK	GW	5	X	X	X	
2	186086 MW-2	6/24	1137	ANK	GW	5	X	X	X	
3	186086 MW-3	6/24	1210	ANK	GW	5	X	X	X	
4	186086 MW-6	6/24	1150	ANK	GW	5	X	X	X	
5	186086 MW-7	6/24	1149	ANK	GW	5	X	X	X	
6	186086 MW-8	6/24	1058	ANK	GW	5	X	X	X	
7	186086 MW-9	6/24	1008	ANK	GW	5	X	X	X	
8	186086 MW-10	6/24	934	ANK	GW	5	X	X	X	
9	186086 MW-13	6/24	1109	ANK	GW	5	X	X	X	
10	186086 MW-14	6/23	1212	ANK	GW	5	X	X	X	
11	186086 MW-15	6/23	1204	ANK	GW	5	X	X	X	
12	186089 MW-9	6/23	1113	ANK	GW	5	X	X	X	

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

LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [X] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Labfax

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [X] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [X] EDD'S

ACCUTEST
2828-C QUEEN CITY DR
CLT NC 28208

Comments / Remarks

SCDHEC UST Mgt Program

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1	6/24/15 1630	Fedex	3 FX	6-25-15	4 J Copple (Alse) 10:00
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal In Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 3-0

4.2 4

FA25560: Chain of Custody
Page 1 of 5

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

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www.accutest.com

Accutest JOB # FA 25560 PAGE 2 OF 3

Accutest Quote # | SKIFF#

Client / Reporting Information | **Project Information** | **Analytical Information**

Company Name: G.R.I.	Project Name: Tibbles Quick Stop
Address: SAME	Street: SAME
City: SAME State: Zip:	City: State:
Project Contact: Scott Ball E-mail:	Project #: SAME
Phone#: 704-545-4010	Fax #:
Sampler(s) Name(s) (Printed): Angela	Client Purchase Order #:

Analytical Information: BTEX (MTBE, Naph) 8260B | 8 oxygenates 8260B | EDB by 8011

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	HCl	H2SO4	HNO3	NaOH	NaHSO4	Zn Acetate	Ascorbic Acid	Methanol	DI Water	Encore	BTEX (MTBE, Naph) 8260B	8 oxygenates 8260B	EDB by 8011
13	186086 MW-20	6/23	1108		GW	5												X	X	X
14	186086 MW-21	6/23	1028		GW	5												X	X	X
15	186086 MW-22	6/23	941		GW	5												X	X	X
16	186086 MW-23	6/23	1008		GW	5												X	X	X
17	186086 MW-24	6/23	940		GW	5												X	X	X
18	186086 MW-25	6/23	923		GW	5												X	X	X
19	186086 MW-26	6/23	932		GW	5												X	X	X
20	186086 MW-27	6/23	954		GW	5												X	X	X
21	186086 MW-28	6/23	1102		GW	5												X	X	X
22	186086 MW-29	6/23	1035		GW	5												X	X	X
23	186086 MW-30	6/23	812		GW	5												X	X	X
24	186086 MW-31	6/23	849		GW	5												X	X	X

TURNAROUND TIME (Business Days) — Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Labfax

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [x] EDD'S

ACCUTEST 2828-C QUEEN CT DR CLT NC 28213

Comments / Remarks

SCDHEC UST Mgt Program

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1	6/24/15 1650	FedEx	3 FX	6-25-15	4 J. Cook (AM) 10:00
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:

4.2 4

FA25560: Chain of Custody
Page 2 of 5

Accutest Laboratories Southeast

Chain of Custody

ACCUTEST LABORATORIES

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www.accutest.com

Accutest JOB # FA 25560 PAGE 3 OF 3

Accutest Quote # | SKIFF#

Client / Reporting Information | Project Information | Analytical Information | Matrix Codes

Company Name G.R.I.
Address SAME
City State Zip
Project Contact E-mail
Phone# SAME
Sampler(s) Name(s) (Printed)

Project Name: Tisdale's Quick Stop
Street
City SAME State
Project #
Fax # SAME
Client Purchase Order #

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; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Collection: Date	Time	Sampled by	Matrix	Total # of Bottles	Preservation: Other	HCl	H2SO4	HNO3	NaOH	NaS2O3	Ascorbic	Cr(VI)	Methanol	BTEX, MTBE, Naph 1,2 DCA, Ethanol	EDB by 8011	LAB USE ONLY
25	180880 MW-1A	6/24	1028	GW	GW	5										X	X	
26	180880 MW-2A	6/24	1013	GW	GW	5										X	X	
27	180880 MW-3A	6/24	1031	GW	GW	5										X	X	
28	180880 MW-4A	6/24	1043	GW	GW	5										X	X	
29	180880 TW-1	6/24	1148	GW	GW	5										X	X	
30	180880 TW-2	6/23	1049	GW	GW	5										X	X	
31	180880 DUP A	6/24	—	GW	GW	5										X	X	
32	180880 DUP B	6/24	—	GW	GW	5										X	X	
33	180880 WSW-1	6/24	1314	GW	GW	5										X	X	
34	180880 WSW-2	6/24	1320	GW	GW	5										X	X	
35	180880 Field Blank	6/24	1152	GW	—	5										X	X	
36	180880 Trip Blank	6/24	—	—	—	2										X	X	

TURNAROUND TIME (Business Days) | Approved By: / Rush Code

- [X] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or LabLink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [X] COMMERCIAL "B" (RESULTS + QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [X] EDD'S

ACCUTEST 2320-C QUEEN CT DR OLT NC 28273

Comments / Remarks: ECOHEC UST Mgt Program

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1	6/24/15 1650	Fedex	3 FX	6-25-15	4 J. Cooper (Accutest) 10:00
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:

4.2 4

FA25560: Chain of Custody
Page 3 of 5

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 25560 CLIENT: 641 PROJECT: 1543

DATE/TIME RECEIVED: 6-25-15 10:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8053 9196 1551

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.2
- [ ] CORRECTED TEMPS: 3.0

SAMPLE INFORMATION

- [X] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [X] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT# _____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE HC421754 OTHER (specify) 405-230010

SUMMARY OF COMMENTS: FOR SAMPLE # 29 COC reads TW-1 @ 10:48 LABELS TW-2 @ 10:48 RECEIVED 2 VIALS EDB PER SAMPLE

TECHNICIAN SIGNATURE/DATE [signature] 6-26-15 REVIEWER SIGNATURE/DATE [signature] 06/26-15

NF 10/14

receipt confirmation 102914.xls

4.2 4



4.2

4

FA25560: Chain of Custody
Page 5 of 5

Southeast ACCUTEST LABORATORIES

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5020-MB	J0969369.D	1	06/30/15	MM	n/a	n/a	VJ5020

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

FA25560-1, FA25560-2, FA25560-3, FA25560-4, FA25560-5, FA25560-6, FA25560-7, FA25560-8, FA25560-9, FA25560-10, FA25560-11, FA25560-13, FA25560-14, FA25560-16, FA25560-17

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	

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

Method Blank Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5021-MB	J0969398.D	1	07/01/15	MM	n/a	n/a	VJ5021

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

FA25560-18, FA25560-19, FA25560-20, FA25560-21, FA25560-22, FA25560-23, FA25560-24, FA25560-25, FA25560-26, FA25560-27, FA25560-28

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

Method Blank Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5022-MB	J0969429.D	1	07/01/15	MM	n/a	n/a	VJ5022

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

FA25560-1, FA25560-2, FA25560-12, FA25560-15, FA25560-29, FA25560-30, FA25560-31, FA25560-36

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	103%	85-112%
460-00-4	4-Bromofluorobenzene	105%	83-118%

Method Blank Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5023-MB	J0969458.D	1	07/02/15	MM	n/a	n/a	VJ5023

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

FA25560-28, FA25560-33

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	

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

Method Blank Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5024-MB	J0969487.D	1	07/06/15	MM	n/a	n/a	VJ5024

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

FA25560-16, FA25560-25, FA25560-27, FA25560-31, FA25560-32, FA25560-34, FA25560-35

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.20	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	100	35	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.30	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	8.1	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.4	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	

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

Method Blank Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5025-MB	J0969516.D	1	07/07/15	MM	n/a	n/a	VJ5025

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

FA25560-31

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.40	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	103%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

Blank Spike Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5020-BS	J0969367.D	1	06/30/15	MM	n/a	n/a	VJ5020

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

FA25560-1, FA25560-2, FA25560-3, FA25560-4, FA25560-5, FA25560-6, FA25560-7, FA25560-8, FA25560-9, FA25560-10, FA25560-11, FA25560-13, FA25560-14, FA25560-16, FA25560-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	24.0	96	81-122
107-06-2	1,2-Dichloroethane	25	23.2	93	75-125
108-20-3	Di-Isopropyl Ether	25	24.2	97	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1110	89	55-126
64-17-5	Ethyl Alcohol	500	504	101	46-145
100-41-4	Ethylbenzene	25	25.2	101	81-121
637-92-3	Ethyl Tert Butyl Ether	25	22.6	90	71-120
1634-04-4	Methyl Tert Butyl Ether	25	22.4	90	72-117
91-20-3	Naphthalene	25	22.6	90	63-132
75-85-4	Tert-Amyl Alcohol	250	214	86	65-124
994-05-8	Tert-Amyl Methyl Ether	25	22.7	91	73-122
75-65-0	Tert-Butyl Alcohol	250	233	93	63-129
762-75-4	Tert-Butyl Formate	250	206	82	46-130
108-88-3	Toluene	25	23.9	96	80-120
1330-20-7	Xylene (total)	75	73.1	97	80-126

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

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5021-BS	J0969396.D	1	07/01/15	MM	n/a	n/a	VJ5021

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

FA25560-18, FA25560-19, FA25560-20, FA25560-21, FA25560-22, FA25560-23, FA25560-24, FA25560-25, FA25560-26, FA25560-27, FA25560-28

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	24.3	97	81-122
107-06-2	1,2-Dichloroethane	25	24.3	97	75-125
108-20-3	Di-Isopropyl Ether	25	25.0	100	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1170	94	55-126
64-17-5	Ethyl Alcohol	500	462	92	46-145
100-41-4	Ethylbenzene	25	25.8	103	81-121
637-92-3	Ethyl Tert Butyl Ether	25	23.6	94	71-120
1634-04-4	Methyl Tert Butyl Ether	25	23.7	95	72-117
91-20-3	Naphthalene	25	24.8	99	63-132
75-85-4	Tert-Amyl Alcohol	250	225	90	65-124
994-05-8	Tert-Amyl Methyl Ether	25	24.6	98	73-122
75-65-0	Tert-Butyl Alcohol	250	235	94	63-129
762-75-4	Tert-Butyl Formate	250	223	89	46-130
108-88-3	Toluene	25	24.0	96	80-120
1330-20-7	Xylene (total)	75	75.0	100	80-126

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

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5022-BS	J0969427.D	1	07/01/15	MM	n/a	n/a	VJ5022

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

FA25560-1, FA25560-2, FA25560-12, FA25560-15, FA25560-29, FA25560-30, FA25560-31, FA25560-36

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	24.5	98	81-122
107-06-2	1,2-Dichloroethane	25	24.7	99	75-125
108-20-3	Di-Isopropyl Ether	25	24.4	98	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1250	100	55-126
64-17-5	Ethyl Alcohol	500	488	98	46-145
100-41-4	Ethylbenzene	25	26.0	104	81-121
637-92-3	Ethyl Tert Butyl Ether	25	23.2	93	71-120
1634-04-4	Methyl Tert Butyl Ether	25	23.9	96	72-117
91-20-3	Naphthalene	25	26.2	105	63-132
75-85-4	Tert-Amyl Alcohol	250	237	95	65-124
994-05-8	Tert-Amyl Methyl Ether	25	24.2	97	73-122
75-65-0	Tert-Butyl Alcohol	250	246	98	63-129
762-75-4	Tert-Butyl Formate	250	215	86	46-130
108-88-3	Toluene	25	24.8	99	80-120
1330-20-7	Xylene (total)	75	75.9	101	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5023-BS	J0969456.D	1	07/02/15	MM	n/a	n/a	VJ5023

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

FA25560-28, FA25560-33

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.4	102	81-122
107-06-2	1,2-Dichloroethane	25	25.3	101	75-125
108-20-3	Di-Isopropyl Ether	25	25.9	104	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1170	94	55-126
64-17-5	Ethyl Alcohol	500	517	103	46-145
100-41-4	Ethylbenzene	25	26.6	106	81-121
637-92-3	Ethyl Tert Butyl Ether	25	24.2	97	71-120
1634-04-4	Methyl Tert Butyl Ether	25	25.1	100	72-117
91-20-3	Naphthalene	25	27.0	108	63-132
75-85-4	Tert-Amyl Alcohol	250	231	92	65-124
994-05-8	Tert-Amyl Methyl Ether	25	25.1	100	73-122
75-65-0	Tert-Butyl Alcohol	250	240	96	63-129
762-75-4	Tert-Butyl Formate	250	237	95	46-130
108-88-3	Toluene	25	25.4	102	80-120
1330-20-7	Xylene (total)	75	78.1	104	80-126

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

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5024-BS	J0969485.D	1	07/06/15	MM	n/a	n/a	VJ5024

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

FA25560-16, FA25560-25, FA25560-27, FA25560-31, FA25560-32, FA25560-34, FA25560-35

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	24.8	99	81-122
107-06-2	1,2-Dichloroethane	25	24.5	98	75-125
108-20-3	Di-Isopropyl Ether	25	25.5	102	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1180	94	55-126
64-17-5	Ethyl Alcohol	500	483	97	46-145
100-41-4	Ethylbenzene	25	26.6	106	81-121
637-92-3	Ethyl Tert Butyl Ether	25	23.4	94	71-120
1634-04-4	Methyl Tert Butyl Ether	25	22.9	92	72-117
91-20-3	Naphthalene	25	23.6	94	63-132
75-85-4	Tert-Amyl Alcohol	250	228	91	65-124
994-05-8	Tert-Amyl Methyl Ether	25	23.9	96	73-122
75-65-0	Tert-Butyl Alcohol	250	247	99	63-129
762-75-4	Tert-Butyl Formate	250	241	96	46-130
108-88-3	Toluene	25	25.4	102	80-120
1330-20-7	Xylene (total)	75	77.4	103	80-126

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

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5025-BS	J0969517.D	1	07/07/15	MM	n/a	n/a	VJ5025

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

FA25560-31

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-88-3	Toluene	25	24.3	97	80-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	95%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA25560-5MS	J0969390.D	1	06/30/15	MM	n/a	n/a	VJ5020
FA25560-5MSD	J0969391.D	1	06/30/15	MM	n/a	n/a	VJ5020
FA25560-5	J0969372.D	1	06/30/15	MM	n/a	n/a	VJ5020

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

FA25560-1, FA25560-2, FA25560-3, FA25560-4, FA25560-5, FA25560-6, FA25560-7, FA25560-8, FA25560-9, FA25560-10, FA25560-11, FA25560-13, FA25560-14, FA25560-16, FA25560-17

CAS No.	Compound	FA25560-5 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		25	25.3	101	25	24.1	96	5	81-122/14
107-06-2	1,2-Dichloroethane	ND		25	24.9	100	25	24.2	97	3	75-125/14
108-20-3	Di-Isopropyl Ether	ND		25	25.0	100	25	24.3	97	3	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		1250	1160	93	1250	1250	100	7	55-126/17
64-17-5	Ethyl Alcohol	ND		500	450	90	500	513	103	13	46-145/30
100-41-4	Ethylbenzene	ND		25	25.9	104	25	25.3	101	2	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND		25	23.7	95	25	23.1	92	3	71-120/14
1634-04-4	Methyl Tert Butyl Ether	ND		25	24.9	100	25	24.5	98	2	72-117/14
91-20-3	Naphthalene	ND		25	24.7	99	25	26.8	107	8	63-132/25
75-85-4	Tert-Amyl Alcohol	ND		250	217	87	250	226	90	4	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		25	24.2	97	25	24.0	96	1	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		250	352	141*	250	376	150*	7	63-129/27
762-75-4	Tert-Butyl Formate	ND		250	6.0	2*	250	4.2	2*	35*	46-130/33
108-88-3	Toluene	ND		25	24.3	97	25	23.4	94	4	80-120/14
1330-20-7	Xylene (total)	ND		75	74.4	99	75	72.1	96	3	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA25560-5	Limits
1868-53-7	Dibromofluoromethane	100%	100%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	98%	98%	79-125%
2037-26-5	Toluene-D8	99%	97%	102%	85-112%
460-00-4	4-Bromofluorobenzene	98%	99%	106%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA25560-18MS	J0969419.D	1	07/01/15	MM	n/a	n/a	VJ5021
FA25560-18MSD	J0969420.D	1	07/01/15	MM	n/a	n/a	VJ5021
FA25560-18	J0969399.D	1	07/01/15	MM	n/a	n/a	VJ5021

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

FA25560-18, FA25560-19, FA25560-20, FA25560-21, FA25560-22, FA25560-23, FA25560-24, FA25560-25, FA25560-26, FA25560-27, FA25560-28

CAS No.	Compound	FA25560-18 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		25	24.9	100	25	24.0	96	4	81-122/14
107-06-2	1,2-Dichloroethane	ND		25	24.7	99	25	24.7	99	0	75-125/14
108-20-3	Di-Isopropyl Ether	ND		25	24.8	99	25	24.4	98	2	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		1250	1190	95	1250	1290	103	8	55-126/17
64-17-5	Ethyl Alcohol	ND		500	479	96	500	527	105	10	46-145/30
100-41-4	Ethylbenzene	ND		25	25.5	102	25	25.1	100	2	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND		25	23.6	94	25	23.5	94	0	71-120/14
1634-04-4	Methyl Tert Butyl Ether	ND		25	24.2	97	25	24.7	99	2	72-117/14
91-20-3	Naphthalene	ND		25	25.2	101	25	27.0	108	7	63-132/25
75-85-4	Tert-Amyl Alcohol	ND		250	217	87	250	233	93	7	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		25	24.4	98	25	24.5	98	0	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		250	330	132*	250	361	144*	9	63-129/27
762-75-4	Tert-Butyl Formate	ND		250	42.2	17*	250	30.5	12*	32	46-130/33
108-88-3	Toluene	ND		25	24.1	96	25	23.5	94	3	80-120/14
1330-20-7	Xylene (total)	ND		75	73.9	99	75	72.3	96	2	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA25560-18	Limits
1868-53-7	Dibromofluoromethane	102%	102%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	99%	99%	79-125%
2037-26-5	Toluene-D8	98%	98%	104%	85-112%
460-00-4	4-Bromofluorobenzene	99%	97%	105%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA25610-1MS	J0969450.D	250	07/02/15	MM	n/a	n/a	VJ5022
FA25610-1MSD	J0969451.D	250	07/02/15	MM	n/a	n/a	VJ5022
FA25610-1	J0969434.D	250	07/01/15	MM	n/a	n/a	VJ5022

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

FA25560-1, FA25560-2, FA25560-12, FA25560-15, FA25560-29, FA25560-30, FA25560-31, FA25560-36

CAS No.	Compound	FA25610-1 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	6170		6250	11900	92	6250	11700	88	2	81-122/14
107-06-2	1,2-Dichloroethane	ND		6250	5940	95	6250	5890	94	1	75-125/14
108-20-3	Di-Isopropyl Ether	94.8	J	6250	6070	96	6250	6160	97	1	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		313000	288000	92	313000	295000	94	2	55-126/17
64-17-5	Ethyl Alcohol	ND		125000	111000	89	125000	127000	102	13	46-145/30
100-41-4	Ethylbenzene	1500		6250	7750	100	6250	7580	97	2	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND		6250	5600	90	6250	5640	90	1	71-120/14
1634-04-4	Methyl Tert Butyl Ether	11900		6250	16900	80	6250	17100	83	1	72-117/14
91-20-3	Naphthalene	344	J	6250	5710	86	6250	6290	95	10	63-132/25
75-85-4	Tert-Amyl Alcohol	28000		62500	88900	97	62500	91100	101	2	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		6250	5790	93	6250	5790	93	0	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		62500	97800	156*	62500	101000	162*	3	63-129/27
762-75-4	Tert-Butyl Formate	ND		62500	52100	83	62500	52000	83	0	46-130/33
108-88-3	Toluene	44800	E	6250	47100	37* a	6250	46100	21* a	2	80-120/14
1330-20-7	Xylene (total)	9490		18800	27700	97	18800	27200	94	2	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA25610-1	Limits
1868-53-7	Dibromofluoromethane	99%	100%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	99%	101%	79-125%
2037-26-5	Toluene-D8	98%	98%	101%	85-112%
460-00-4	4-Bromofluorobenzene	99%	99%	104%	83-118%

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA25560-33MS	J0969479.D	1	07/02/15	MM	n/a	n/a	VJ5023
FA25560-33MSD	J0969480.D	1	07/02/15	MM	n/a	n/a	VJ5023
FA25560-33	J0969465.D	1	07/02/15	MM	n/a	n/a	VJ5023

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

FA25560-28, FA25560-33

CAS No.	Compound	FA25560-33 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		25	25.6	102	25	25.1	100	2	81-122/14
107-06-2	1,2-Dichloroethane	ND		25	25.1	100	25	24.9	100	1	75-125/14
108-20-3	Di-Isopropyl Ether	ND		25	25.2	101	25	25.4	102	1	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		1250	1140	91	1250	1230	98	8	55-126/17
64-17-5	Ethyl Alcohol	ND		500	493	99	500	406	81	19	46-145/30
100-41-4	Ethylbenzene	ND		25	27.3	109	25	26.8	107	2	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND		25	23.9	96	25	24.2	97	1	71-120/14
1634-04-4	Methyl Tert Butyl Ether	ND		25	23.7	95	25	24.6	98	4	72-117/14
91-20-3	Naphthalene	ND		25	24.2	97	25	24.9	100	3	63-132/25
75-85-4	Tert-Amyl Alcohol	ND		250	230	92	250	233	93	1	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		25	24.0	96	25	24.8	99	3	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		250	357	143*	250	380	152*	6	63-129/27
762-75-4	Tert-Butyl Formate	ND		250	28.0	11*	250	21.2	8*	28	46-130/33
108-88-3	Toluene	ND		25	25.5	102	25	25.0	100	2	80-120/14
1330-20-7	Xylene (total)	ND		75	77.9	104	75	77.0	103	1	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA25560-33	Limits
1868-53-7	Dibromofluoromethane	99%	98%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	98%	102%	79-125%
2037-26-5	Toluene-D8	99%	98%	103%	85-112%
460-00-4	4-Bromofluorobenzene	98%	96%	107%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA25560-34MS	J0969508.D	1	07/06/15	MM	n/a	n/a	VJ5024
FA25560-34MSD	J0969509.D	1	07/06/15	MM	n/a	n/a	VJ5024
FA25560-34	J0969491.D	1	07/06/15	MM	n/a	n/a	VJ5024

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

FA25560-16, FA25560-25, FA25560-27, FA25560-31, FA25560-32, FA25560-34, FA25560-35

CAS No.	Compound	FA25560-34 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		25	24.7	99	25	24.6	98	0	81-122/14
107-06-2	1,2-Dichloroethane	ND		25	25.1	100	25	24.9	100	1	75-125/14
108-20-3	Di-Isopropyl Ether	ND		25	24.9	100	25	25.0	100	0	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		1250	1120	90	1250	1230	98	9	55-126/17
64-17-5	Ethyl Alcohol	ND		500	453	91	500	492	98	8	46-145/30
100-41-4	Ethylbenzene	ND		25	26.2	105	25	26.4	106	1	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND		25	23.7	95	25	23.9	96	1	71-120/14
1634-04-4	Methyl Tert Butyl Ether	ND		25	24.1	96	25	24.9	100	3	72-117/14
91-20-3	Naphthalene	ND		25	24.7	99	25	26.5	106	7	63-132/25
75-85-4	Tert-Amyl Alcohol	ND		250	214	86	250	235	94	9	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		25	24.4	98	25	24.6	98	1	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		250	343	137*	250	362	145*	5	63-129/27
762-75-4	Tert-Butyl Formate	ND		250	23.6	9*	250	18.4	7*	25	46-130/33
108-88-3	Toluene	ND		25	24.7	99	25	24.5	98	1	80-120/14
1330-20-7	Xylene (total)	ND		75	76.5	102	75	75.6	101	1	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA25560-34	Limits
1868-53-7	Dibromofluoromethane	99%	99%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	98%	99%	79-125%
2037-26-5	Toluene-D8	99%	97%	104%	85-112%
460-00-4	4-Bromofluorobenzene	96%	97%	104%	83-118%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Volatiles

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QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56636-MB	DD82755.D	1	06/29/15	NG	06/29/15	OP56636	GDD2443

The QC reported here applies to the following samples: **Method:** SW846 8011

FA25560-1, FA25560-2, FA25560-3, FA25560-4, FA25560-5, FA25560-6, FA25560-7, FA25560-8, FA25560-9, FA25560-10, FA25560-11, FA25560-12, FA25560-13, FA25560-14, FA25560-15, FA25560-16, FA25560-17, FA25560-18

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	90%	63-137%

Method Blank Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56667-MB	DD82798.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444

The QC reported here applies to the following samples: **Method:** SW846 8011

FA25560-19, FA25560-20, FA25560-21, FA25560-22, FA25560-23, FA25560-24, FA25560-25, FA25560-26, FA25560-27, FA25560-28, FA25560-29, FA25560-30, FA25560-31, FA25560-32, FA25560-33, FA25560-34, FA25560-35

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	99%	63-137%

Blank Spike Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56636-BS	DD82753.D	1	06/29/15	NG	06/29/15	OP56636	GDD2443

The QC reported here applies to the following samples: **Method:** SW846 8011

FA25560-1, FA25560-2, FA25560-3, FA25560-4, FA25560-5, FA25560-6, FA25560-7, FA25560-8, FA25560-9, FA25560-10, FA25560-11, FA25560-12, FA25560-13, FA25560-14, FA25560-15, FA25560-16, FA25560-17, FA25560-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.23	92	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	99%	63-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56636-BS2	DD82754.D	1	06/29/15	NG	06/29/15	OP56636	GDD2443

The QC reported here applies to the following samples: **Method:** SW846 8011

FA25560-1, FA25560-2, FA25560-3, FA25560-4, FA25560-5, FA25560-6, FA25560-7, FA25560-8, FA25560-9, FA25560-10, FA25560-11, FA25560-12, FA25560-13, FA25560-14, FA25560-15, FA25560-16, FA25560-17, FA25560-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.24	96	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	101%	63-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56667-BS	DD82796.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444

The QC reported here applies to the following samples: **Method:** SW846 8011

FA25560-19, FA25560-20, FA25560-21, FA25560-22, FA25560-23, FA25560-24, FA25560-25, FA25560-26, FA25560-27, FA25560-28, FA25560-29, FA25560-30, FA25560-31, FA25560-32, FA25560-33, FA25560-34, FA25560-35

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.22	88	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	95%	63-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56667-BS2	DD82797.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444

The QC reported here applies to the following samples: **Method:** SW846 8011

FA25560-19, FA25560-20, FA25560-21, FA25560-22, FA25560-23, FA25560-24, FA25560-25, FA25560-26, FA25560-27, FA25560-28, FA25560-29, FA25560-30, FA25560-31, FA25560-32, FA25560-33, FA25560-34, FA25560-35

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.23	92	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	98%	63-137%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56667-MS	DD82800.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444
FA25560-19	DD82799.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444

The QC reported here applies to the following samples: **Method:** SW846 8011

FA25560-19, FA25560-20, FA25560-21, FA25560-22, FA25560-23, FA25560-24, FA25560-25, FA25560-26, FA25560-27, FA25560-28, FA25560-29, FA25560-30, FA25560-31, FA25560-32, FA25560-33, FA25560-34, FA25560-35

CAS No.	Compound	FA25560-19 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
106-93-4	1,2-Dibromoethane	ND		0.24	0.21	88	72-134

CAS No.	Surrogate Recoveries	MS	FA25560-19	Limits
460-00-4	4-Bromofluorobenzene	98%	84%	63-137%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56636-MS	DD82790.D	10	07/01/15	NG	06/29/15	OP56636	GDD2444
OP56636-MSD	DD82791.D	10	07/01/15	NG	06/29/15	OP56636	GDD2444
FA25457-3 [a]	DD82789.D	10	07/01/15	NG	06/29/15	OP56636	GDD2444

The QC reported here applies to the following samples: **Method:** SW846 8011

FA25560-1, FA25560-2, FA25560-3, FA25560-4, FA25560-5, FA25560-6, FA25560-7, FA25560-8, FA25560-9, FA25560-10, FA25560-11, FA25560-12, FA25560-13, FA25560-14, FA25560-15, FA25560-16, FA25560-17, FA25560-18

6.4.1

CAS No.	Compound	FA25457-3 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	3.8		0.234	4.3	214* [b]	0.241	3.9	41* [b]	10	72-134/28

CAS No.	Surrogate Recoveries	MS	MSD	FA25457-3	Limits
460-00-4	4-Bromofluorobenzene	131%	124%	123%	63-137%

(a) All hits confirmed by dual column analysis.
(b) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA25560
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP56667-DUP	DD82802.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444
FA25560-20	DD82801.D	1	07/01/15	NG	07/01/15	OP56667	GDD2444

The QC reported here applies to the following samples: **Method:** SW846 8011

FA25560-19, FA25560-20, FA25560-21, FA25560-22, FA25560-23, FA25560-24, FA25560-25, FA25560-26, FA25560-27, FA25560-28, FA25560-29, FA25560-30, FA25560-31, FA25560-32, FA25560-33, FA25560-34, FA25560-35

CAS No.	Compound	FA25560-20 ug/l	Q	DUP ug/l	Q	RPD	Limits
106-93-4	1,2-Dibromoethane	ND		ND		nc	28

CAS No.	Surrogate Recoveries	DUP	FA25560-20	Limits
460-00-4	4-Bromofluorobenzene	105%	70%	63-137%

* = Outside of Control Limits.

APPENDIX B

Ground Water Sampling Data Sheets

APPENDIX B

Ground Water Sampling Data Sheets

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/24/15	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: Sunny	Ambieht Air Temp (°F): 97

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0 (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
LaMotte (Turbidity)	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-1	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 20		Total Well Depth (TWD) (ft.): 20
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 13.64		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								1124
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	1.10							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 1124	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: No Purge

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/24/15	Site ID #: 18086	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: sunny	Ambient Air Temp (°F): 95°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B1000013	pH 4.0 (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
LaMotte (Turbidity)	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-2	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 15.16		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								939
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	0.87							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 939	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: No Purge

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/24/15	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: sunny	Ambient Air Temp (°F): 97°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0: (Y) or N	pH 7.0 (Y) or N	pH 10.0 (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
LaMotte (Turbidity)	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-3	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
___MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 13.68		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							1210
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	1.77							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 1210	Duplicate (Y) or N	If yes, Duplicate Time: 1211

Notes: No Purge

Signature: Angela Roach

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/24/15	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: sunny	Ambient Air Temp (°F): 97

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
~~LaMotte~~ Hanna (Turbidity)	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-6	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 11.5 to 21.5		Total Well Depth (TWD) (ft.): 21.5
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 13.46		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							1156
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	2.26							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 1156	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: No Purge

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/24/15	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: sunny	Ambient Air Temp (°F): 97°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
LaMotte (Turbidity)		0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-7	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW	Screened Interval (ft.): 12 to 22		Total Well Depth (TWD) (ft.): 22
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 13.19		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							1149
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	2.70							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 1149	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: No Purge

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/24/15	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: Sunny	Ambient Air Temp (°F): 97

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
LaMotte (Turbidity)	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-8	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 12 to 22	Total Well Depth (TWD) (ft.): 22
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 13.38		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								1057
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	0.27							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 1057	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: No Purge

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/24/14	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: sunny	Ambient Air Temp (°F): 97

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B1000013	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C: (Y) or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
~~LaMotte~~ Hanna (Turbidity)	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID:	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection:
MW-9	2"		X Bailer ___ Pump

X MW ___ IW ___ RW ___ Other_____ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 12 to 22	Total Well Depth (TWD) (ft.): 22
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 14.29	Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):	3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								1008
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	2.58							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 1008	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: NO PURGE

Signature: Angela Roach

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/24/15	Site ID #: 18686	Site Name: Tisdales Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: Sunny	Ambient Air Temp (°F): 97

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
~~LaMotte~~ (Turbidity) Hanna	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-10	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 15.16		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								939
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	2.43							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 939	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: NO PURGE

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/24/15	Site ID #: 18086	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: sunny	Ambient Air Temp (°F): 97

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0: (Y) or N	pH 7.0 (Y) or N	pH 10.0: (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
LaMotte (Turbidity)	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-13	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 14.15		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								1107
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	2.48							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 1107	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: No Purge

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/23/15	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: sunny	Ambient Air Temp (°F) 97

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	BB1000013	pH 4.0 (Y) or N	pH 7.0 (Y) or N	pH 10.0 (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
LaMotte (Turbidity) Hanna	08599525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-14	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other ___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 13.80		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								1212
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	2.54							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 1212	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: NO PURGE

Signature: Angela Roach

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/23/15	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: sunny	Ambient Air Temp (°F): 97

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B1000013	pH 4.0 (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
LaMotte (Turbidity)	08597525	0.0 NTU: (Y) or N	1.0 NTU (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-15	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other ___ Private WSW ___Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 15.08		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								1204
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	1.53							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 1204	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: NO PURGE

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/23/15	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: Sunny	Ambient Air Temp (°F): 97

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
~~LaMotte~~ Hach (Turbidity)	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-19	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 17.14		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								1113
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	2.04							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 1113	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: NO PURGE

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/23/15	Site ID #: 18086	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: Sunny	Ambient Air Temp (°F): 97

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
~~LaMotte~~ Hanna (Turbidity)	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-20	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other_____ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 14.21		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								1108
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	3.51							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 1108	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: NO PURGE

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/23/15	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: Sunny	Ambient Air Temp (°F): 97

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
LaMotte (Turbidity)	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-21	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other ___ Private WSW ___Public WSW	Screened Interval (ft.): 8 to 23		Total Well Depth (TWD) (ft.): 23
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 13.41		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								1023
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	2.95							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 1023	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: NO PURGE

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/23/15	Site ID #: 18086C	Site Name: Tisdales Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: Sunny	Ambient Air Temp (°F): 97

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B1000013	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
~~LaMotte~~ (Turbidity) Hanna	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-22	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ~~X~~ Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 14.14		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								941
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	2.69							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 941	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: No Purge

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/23/15	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: Sunny	Ambient Air Temp (°F): 99

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
~~LaMotte~~ (Turbidity) Hanna	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-23	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW	Screened Interval (ft.): 9 to 24		Total Well Depth (TWD) (ft.): 24
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 13.75		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								908
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	2.24							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 908	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: NO PURGE

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/23/15	Site ID #: 18086	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: Sunny	Ambient Air Temp (°F): 99

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
~~LaMotte~~ (Turbidity) Hanna	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-24	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW	Screened Interval (ft.): 8 to 23		Total Well Depth (TWD) (ft.): 23
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 11.79		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								916
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	3.82							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 916	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: NO PURGE

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/23/15	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: Sunny	Ambient Air Temp (°F): 99

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B1000013	pH 4.0 (Y) or N	pH 7.0 (Y) or N	pH 10.0 (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
~~LaMotte~~ (Turbidity) Hanna	08597525	0.0 NTU (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-25	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 8 to 23	Total Well Depth (TWD) (ft.): 23
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 11.92		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								923
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	3.09							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 923	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: NO PURGE

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/23/15	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: sunny	Ambient Air Temp (°F): 99

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
~~LaMotte~~ (Turbidity) Hanna	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-26	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 6 to 21		Total Well Depth (TWD) (ft.): 21
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 11.21		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								932
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	1.72							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 932	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: No Purge

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/23/15	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: sunny	Ambient Air Temp (°F): 99

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	BB100013	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
~~LaMotte~~ (Turbidity) Hanna	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-27	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 15.74		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								954
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	3.31							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 954	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: NO PURGE

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/23/15	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: sunny	Ambient Air Temp (°F): ~100

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
LaMotte (Turbidity)	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-28	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 10 to 25	Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 16.10		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								1002
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	2.00							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 1002	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: NO PURGE

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/23/15	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: Sunny	Ambient Air Temp (°F): 100

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
~~LaMotte~~ (Turbidity) Hanna	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-29	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 25
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 14.95		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								857
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	3.86							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 857	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: NO PURGE

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/23/15	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: Sunny	Ambient Air Temp (°F): 100

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
~~LaMotte~~ (Turbidity) Hanna	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-30	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other ___Private WSW ___Public WSW	Screened Interval (ft.): 7 to 22		Total Well Depth (TWD) (ft.): 22
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 14.01		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								812
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	3.02							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 812	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: NO PURGE

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/23/15	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: sunny	Ambient Air Temp (°F): 100

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0 (Y) or N	pH 7.0 (Y) or N	pH 10.0: (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
~~LaMotte~~ (Turbidity) Hanna	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-31	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 10 to 20		Total Well Depth (TWD) (ft.): 20
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 14.98		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								817
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	3.26							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 817	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: NO Purge

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/24/15	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: sunny	Ambient Air Temp (°F): 97°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
~~LaMotte~~ Hanna (Turbidity)	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: TW-1	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 41 to 46		Total Well Depth (TWD) (ft.): 46
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 14.68		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.): 31.03	1 casing volume (CV = LWC x C) (gals.): 5.06		3 casing volumes (3 x CV) (gals.): 15.17

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	5.06	10.12	15.17				
Time (military)	1218	1229	1235	1247				1248
PH (s.u.)	5.16	5.20	5.21	5.21				
Specific Conductivity (µS/cm)	169	200	202	214				
Water Temperature (°C)	24.56	23.72	23.35	21.90				
Turbidity (NTU)	2.00	2.50	3.30	5.80				
Dissolved Oxygen (mg/L)	2.85	2.09	1.58	1.42				

Sampling Data

Sampled By: Angela Roach	Sampling Time: 1248	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: ___

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/23/15	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: sunny	Ambient Air Temp (°F): 97

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
~~LaMotte~~ (Turbidity) Hanna	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: TW-2	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 46 to 51		Total Well Depth (TWD) (ft.): 51
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 13.12		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.): 37.25	1 casing volume (CV = LWC x C) (gals.): 6.07		3 casing volumes (3 x CV) (gals.): 18.22

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	6.07	12.14	18.22				
Time (military)	1029	1034	1042	1048				1049
PH (s.u.)	5.81	5.99	5.99	6.01				
Specific Conductivity (µS/cm)	288	290	334	352				
Water Temperature (°C)	21.22	21.29	21.35	21.07				
Turbidity (NTU)	3.40	6.80	1.00	1.90				
Dissolved Oxygen (mg/L)	3.37	2.55	2.84	2.01				

Sampling Data

Sampled By: Angela Roach	Sampling Time: 1049	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: _____

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/24/15	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: Sunny	Ambient Air Temp (°F): 97

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B1000013	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
LaMotte (Turbidity) Hanna	08597525	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-3A	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
X MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW	Screened Interval (ft.): to Unknown		Total Well Depth (TWD) (ft.): 20
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 12.98		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								1031
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	0.31							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 1031	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: No Purge

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 04/24/15	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: Sunny	Ambient Air Temp (°F): 99

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0 (Y) or N	pH 7.0 (Y) or N	pH 10.0 (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
LaMotte (Turbidity)	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-2A	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): to Unknown		Total Well Depth (TWD) (ft.): 20
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 13.14		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								1013
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	1.02							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 1013	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: NO PURGE

Signature: Angela Roach

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 06/24/15	Site ID #: 18686	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: Sunny	Ambient Air Temp (°F): 97

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
~~LaMotte~~ Hanna (Turbidity)	08597525	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-1A	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): to Unknown		Total Well Depth (TWD) (ft.): 20
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 13.10		Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								1022
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	0.64							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 1022	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: NO PURGE.

Signature: Angela Roach

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 04/24/15	Site ID #: 18486	Site Name: Tisdale's Quick Stop	Field Personnel: Angela Roach
County: Williamsburg	Project Manager: Scott Ball	General Weather Conditions: Sunny	Ambient Air Temp (°F): 97

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)		(Y) or N			
~~LaMotte~~ Hanna (Turbidity) 08597525		0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-4A	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Baller ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): to Unknown		Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.): 0	Depth to Groundwater (DGW) (ft.): 13.60		Free Product Thickness (ft.): 0
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								1043
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)	0.27							

Sampling Data

Sampled By: Angela Roach	Sampling Time: 1043	Duplicate: (Y) or N	If yes, Duplicate Time: 1044

Notes: No Purge

Signature: Angela Roach

APPENDIX C

Contractor Checklist

Contractor Checklist

For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, the No box should be checked and a thorough description of the reason must be provided.

Item #	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?	X		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?			X
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided?	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	X		
24	If free-product is present, has the thickness been provided?			X
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?	X		
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	X		
34	Has the current and historical laboratory data been provided in tabular format?	X		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)	X		
40	Has the site potentiometric map been provided? (Figure 5)	X		
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)			X
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

Explanation for missing or incomplete information.

Domenico Model

UST # 18686
Site Name: TISDALES QUICK STOP
Modeler: J. Martin
Date: 9/9/15

Groundwater Flow Parameters

K	70	ft/yr
dh/dx	0.1	
θ	0.25	dec. %
v_x	25	ft/yr

Transport Parameters

x_{max}	250	ft
y_{max}	0	ft
z	0	ft
Source Width	30	ft
Source Thickness	15	ft
Plume Length	250	ft
α_x	12.52912	ft
α_y	1.252912	ft
α_z	1.00E-99	ft

Simulation Time

t_{sim} 34.5 yrs

Aquifer Characteristics

ρ_d	1.7	kg/L
f_{oc}	0.0002	

Source Area CoC Data

CoC	C_{source} (mg/L)	K_{oc} (L/kg)
Benzene	11.4	81
Toluene	35	133
Ethylbenzene	3.22	176
Xylenes	18.4	639
Naphthalene	1.54	1543
MtBE	0.0378	11
EDB		28
1,2-DCA		17.5

Retarded Velocity (ft/yr)

CoC	R	v_R
Benzene	1.110	22.52
Toluene	1.181	21.17
Ethylbenzene	1.239	20.17
Xylenes	1.869	13.38
Naphthalene	3.098	8.07
MtBE	1.015	24.63
EDB	1.038	24.08
1,2-DCA	1.024	24.42

Simulation Points for Breakthrough Curves

x		ft
y		ft
z		ft

x		ft
y		ft
z		ft

$$C(x,y,z,t) = \left(\frac{C_0}{8}\right)\exp\left[\left(\frac{x}{2\alpha_x}\right)\left(1-\sqrt{1+\frac{4\lambda\alpha_x}{v}}\right)\right] erfc\left[\frac{x-vt\sqrt{1+\frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}}\right]\left\{erf\left[\frac{y+\frac{Y}{2}}{2\sqrt{\alpha_y x}}\right]-erf\left[\frac{y-\frac{Y}{2}}{2\sqrt{\alpha_y x}}\right]\right\}\left\{erf\left[\frac{z+Z}{2\sqrt{\alpha_z x}}\right]-erf\left[\frac{z-Z}{2\sqrt{\alpha_z x}}\right]\right\}$$

UST 52Tech DOCKETING

Benzene Calibration

Spatial Calibration Data (centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	11.4	11.4
25		5.366
50		2.334
75		1.033
100		0.467
125		0.214
150		0.100
175		0.047
200		0.022
225		0.010
250	0.005	0.005

Temporal Calibration Data

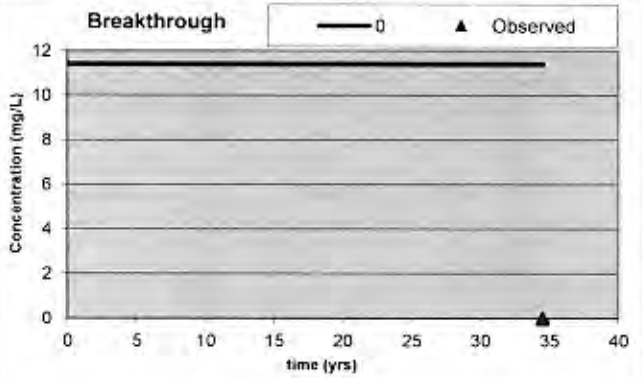
	0		0	
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
0		11.4		11.4
3.45		11.400		11.400
6.9		11.400		11.400
10.35		11.400		11.400
13.8		11.400		11.400
17.25		11.400		11.400
20.7		11.400		11.400
24.15		11.400		11.400
27.6		11.400		11.400
31.05		11.400		11.400
34.5	0.005	11.400		11.400

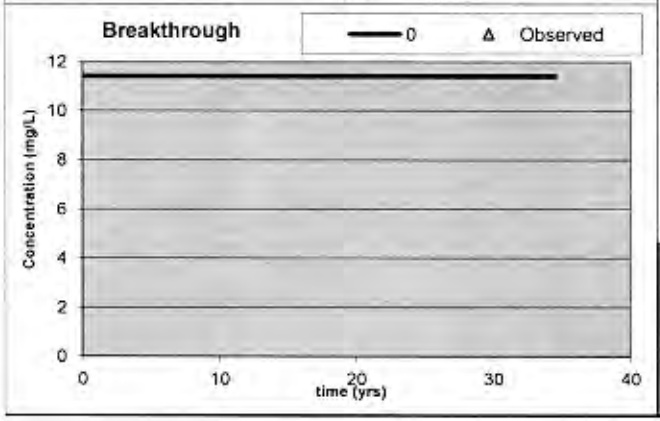
Site ID 18686

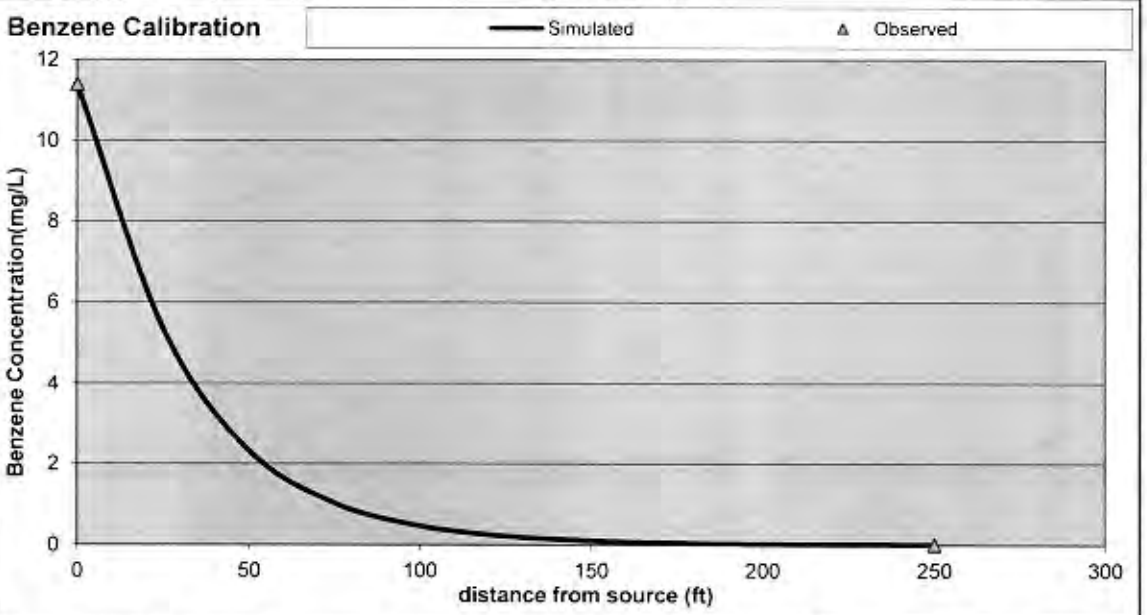
Site Name TISDALES QUICK STOP

Model Calibration Parameters

$t_{1/2}$	0.823	yrs	λ	0.84204	yr^{-1}
v_x	25	ft/yr			
R	1.110				
v_R	22.519	ft/yr	C_{source}	11.4	mg/L
L_p	250	ft			
α_x	12.52912	ft	t_{sim}	34.5	yrs
α_y	1.252912	ft			
α_z	1E-99	ft			







Source	25	50	75	100	125	150	175	200	225	250
0	5.366248	2.33398572	1.03313389	0.46691139	0.21437884	0.0996022	0.046697	0.022049	0.010471	0.004996
0	5.366248	2.33398572	1.03313389	0.46691139	0.21437884	0.0996022	0.046697	0.022049	0.010471	0.004996
0	5.366248	2.33398572	1.03313389	0.46691139	0.21437884	0.0996022	0.046697	0.022049	0.010471	0.004996
0	5.366248	2.33398572	1.03313389	0.46691139	0.21437884	0.0996022	0.046697	0.022049	0.010471	0.004996
0	5.366248	2.33398572	1.03313389	0.46691139	0.21437884	0.0996022	0.046697	0.022049	0.010471	0.004996

Toluene Calibration

Spatial Calibration Data (centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	35	35
25		14.729
50		5.727
75		2.266
100		0.916
125		0.376
150		0.156
175		0.065
200		0.028
225		0.012
250	0.005	0.005

Temporal Calibration Data

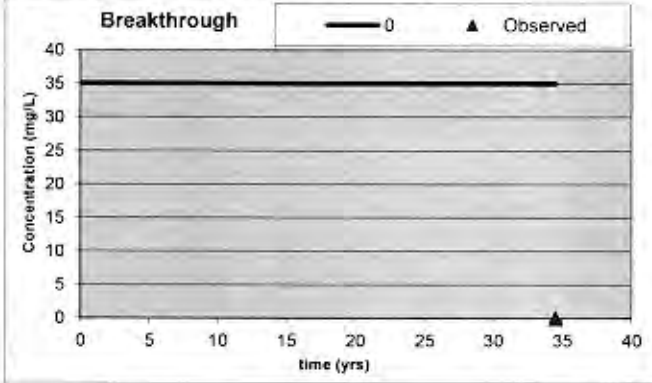
	0		0	
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
0		35		35
3.45		35.000		35.000
6.9		35.000		35.000
10.35		35.000		35.000
13.8		35.000		35.000
17.25		35.000		35.000
20.7		35.000		35.000
24.15		35.000		35.000
27.6		35.000		35.000
31.05		35.000		35.000
34.5	0.005	35.000		35.000

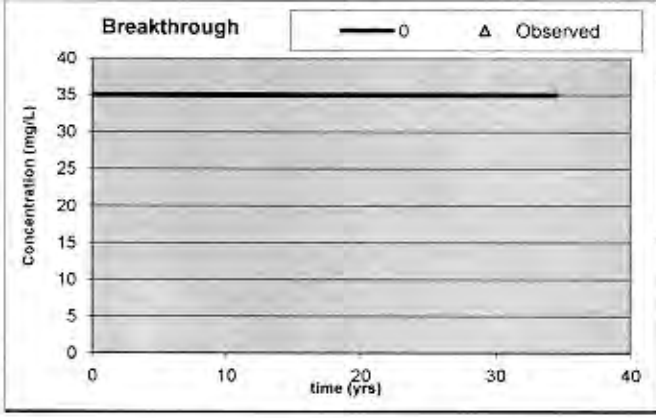
Site ID 18686

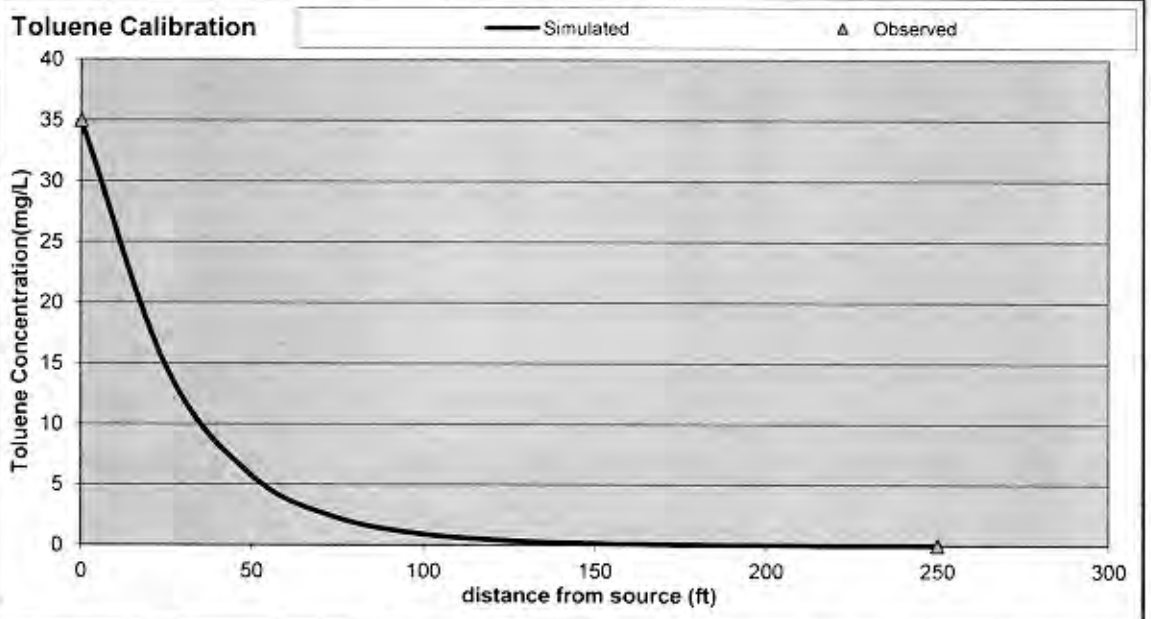
Site Name TISDALES QUICK STOP

Model Calibration Parameters

$t_{1/2}$	0.7235	yrs	λ	0.95784	yr^{-1}
v_x	25	ft/yr			
R	1.181				
v_R	21.171	ft/yr	C_{source}	35	mg/L
L_o	250	ft			
α_x	12.52912	ft	t_{sim}	34.5	yrs
α_y	1.252912	ft			
α_z	1E-99	ft			







Source	25	50	75	100	125	150	175	200	225	250
0	14.7285218	5.72679773	2.26618565	0.91558479	0.37581253	0.156093	0.065422	0.027616	0.011724	0.005
0	14.7285218	5.72679773	2.26618565	0.91558479	0.37581253	0.156093	0.065422	0.027616	0.011724	0.005
0	14.7285218	5.72679773	2.26618565	0.91558479	0.37581253	0.156093	0.065422	0.027616	0.011724	0.005
0	14.7285218	5.72679773	2.26618565	0.91558479	0.37581253	0.156093	0.065422	0.027616	0.011724	0.005
0	14.7285218	5.72679773	2.26618565	0.91558479	0.37581253	0.156093	0.065422	0.027616	0.011724	0.005

Ethylbenzene Calibration

Spatial Calibration Data (centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	3.22	3.22
25		1.721
50		0.850
75		0.427
100		0.219
125		0.114
150		0.060
175		0.032
200		0.017
225		0.009
250	0.005	0.005

Temporal Calibration Data

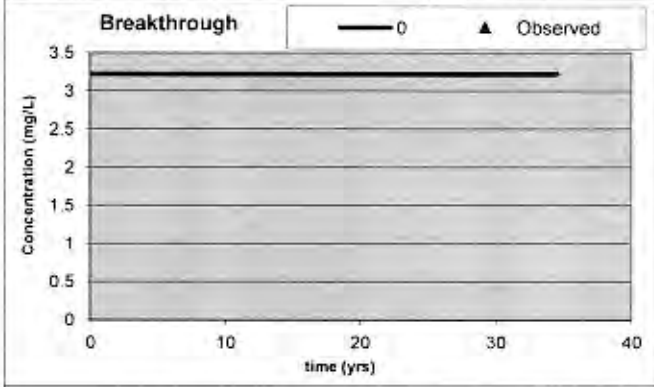
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
	0		0	
0		3.22		3.22
3.45		3.220		3.220
6.9		3.220		3.220
10.35		3.220		3.220
13.8		3.220		3.220
17.25		3.220		3.220
20.7		3.220		3.220
24.15		3.220		3.220
27.6		3.220		3.220
31.05		3.220		3.220
34.5		3.220		3.220

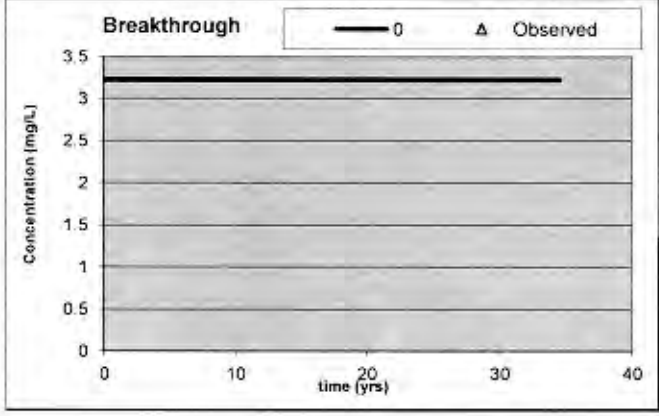
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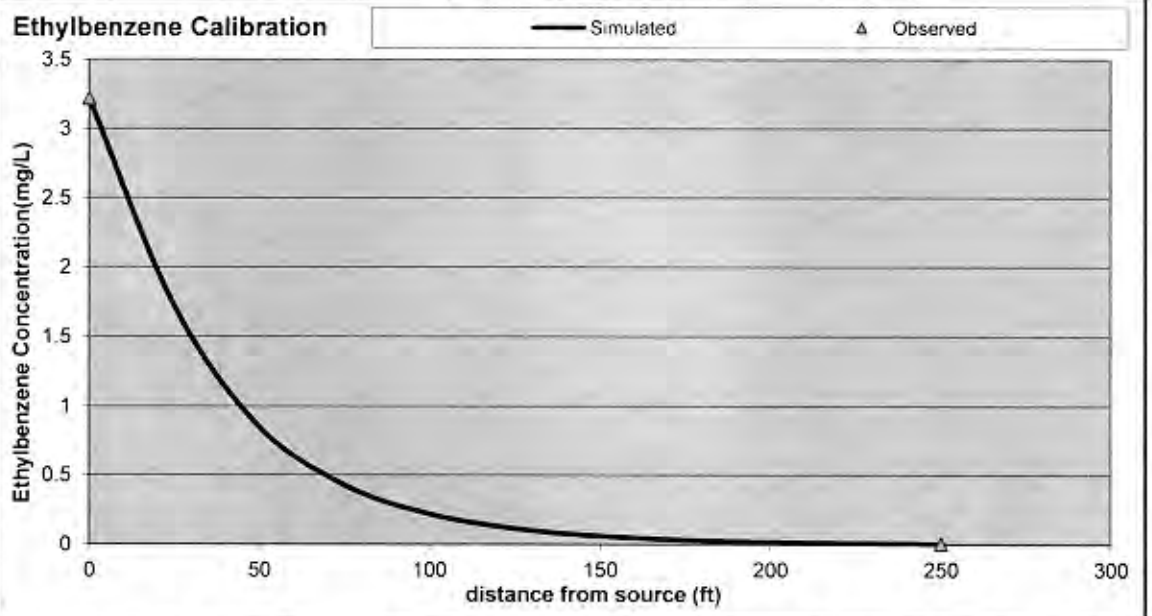
Site Name TISDALES QUICK STOP

Model Calibration Parameters

$t_{1/2}$	1.18	yrs	λ	0.58729	yr^{-1}
v_x	25	ft/yr			
R	1.239				
v_R	20.172	ft/yr	C_{source}	3.22	mg/L
L_p	250	ft			
α_x	12.52912	ft	t_{sim}	34.5	yrs
α_y	1.252912	ft			
α_z	1E-99	ft			







Source	25	50	75	100	125	150	175	200	225	250
0	1.72068081	0.84958401	0.42691685	0.21902804	0.11416309	0.0602131	0.032047	0.017178	0.00926	0.005016
0	1.72068081	0.84958401	0.42691685	0.21902804	0.11416309	0.0602131	0.032047	0.017178	0.00926	0.005016
0	1.72068081	0.84958401	0.42691685	0.21902804	0.11416309	0.0602131	0.032047	0.017178	0.00926	0.005016
0	1.72068081	0.84958401	0.42691685	0.21902804	0.11416309	0.0602131	0.032047	0.017178	0.00926	0.005016
0	1.72068081	0.84958401	0.42691685	0.21902804	0.11416309	0.0602131	0.032047	0.017178	0.00926	0.005016

Xylenes Calibration

Spatial Calibration Data (centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	18.4	18.4
25		8.258
50		3.425
75		1.446
100		0.623
125		0.273
150		0.121
175		0.054
200		0.024
225		0 011
250	0.005	0 005

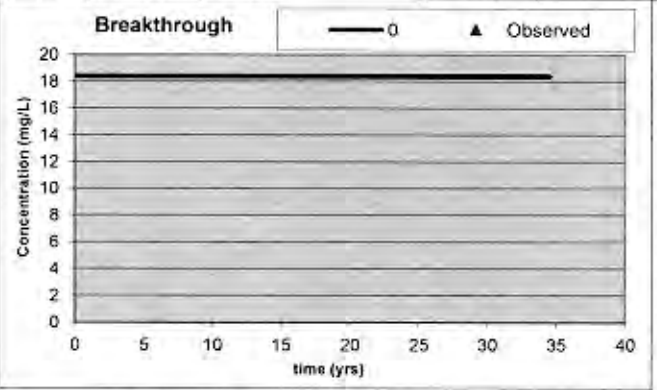
Temporal Calibration Data

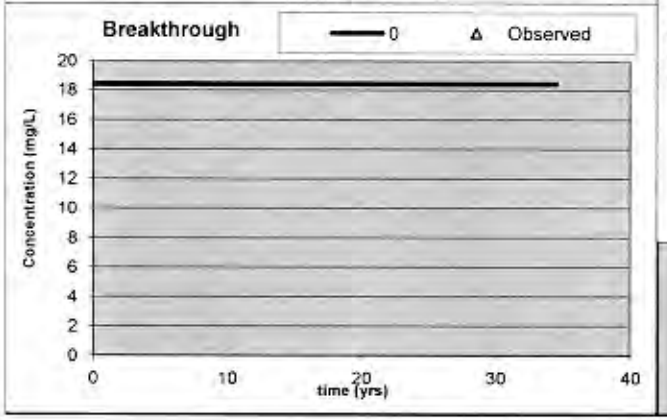
	0		0	
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
0		18.4		18.4
3.45		18.400		18.400
6.9		18.400		18.400
10.35		18.400		18.400
13.8		18.400		18.400
17.25		18.400		18.400
20.7		18.400		18.400
24.15		18.400		18.400
27.6		18.400		18.400
31.05		18.400		18.400
34.5		18.400		18.400

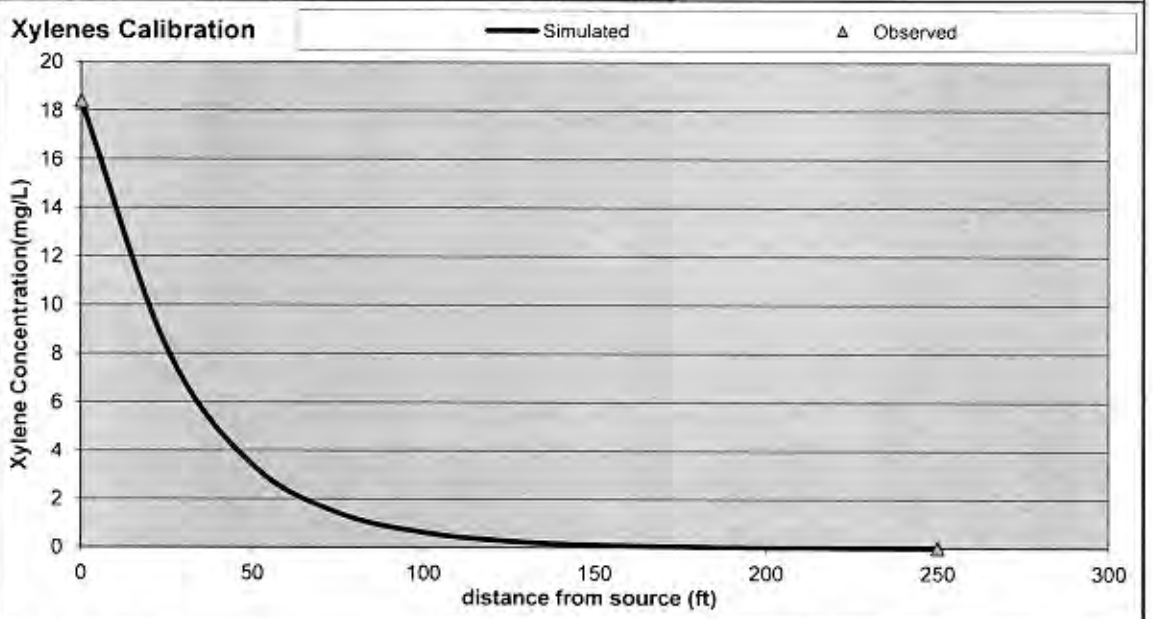
Site ID 18686
Site Name TISDALES QUICK STOP

Model Calibration Parameters

$t_{1/2}$	1.274	yrs	λ	0.54396	yr^{-1}
v_x	25	ft/yr			
R	1.869				
v_R	13.376	ft/yr	C_{source}	18.4	mg/L
L_p	250	ft			
α_x	12.52912	ft	t_{sim}	34.5	yrs
α_y	1.252912	ft			
α_z	1E-99	ft			







Source	25	50	75	100	125	150	175	200	225	250
0	8.25848197	3.42487081	1.44550341	0.62289306	0.27269518	0.1208039	0.054003	0.024313	0.011009	0.005008
0	8.25848197	3.42487081	1.44550341	0.62289306	0.27269518	0.1208039	0.054003	0.024313	0.011009	0.005008
0	8.25848197	3.42487081	1.44550341	0.62289306	0.27269518	0.1208039	0.054003	0.024313	0.011009	0.005008
0	8.25848197	3.42487081	1.44550341	0.62289306	0.27269518	0.1208039	0.054003	0.024313	0.011009	0.005008
0	8.25848197	3.42487081	1.44550341	0.62289306	0.27269518	0.1208039	0.054003	0.024313	0.011009	0.005008

MtBE Calibration

Spatial Calibration Data (centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	0.0378	0.0378
25		0.031
50		0.024
75		0.018
100		0.015
125		0.012
150		0.010
175		0.008
200		0.007
225		0.005
250	0.005	0.005

Temporal Calibration Data

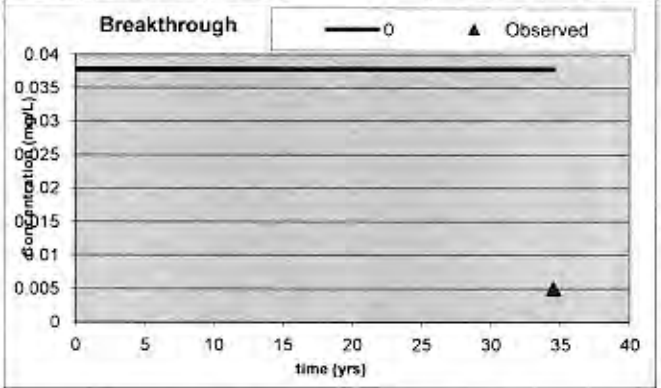
	0		0	
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
0		0.0378		0.0378
3.45		0.038		0.038
6.9		0.038		0.038
10.35		0.038		0.038
13.8		0.038		0.038
17.25		0.038		0.038
20.7		0.038		0.038
24.15		0.038		0.038
27.6		0.038		0.038
31.05		0.038		0.038
34.5	0.005	0.038		0.038

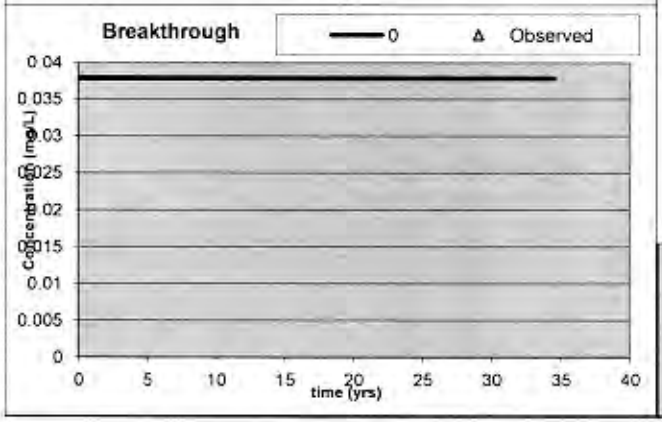
Site ID 18686

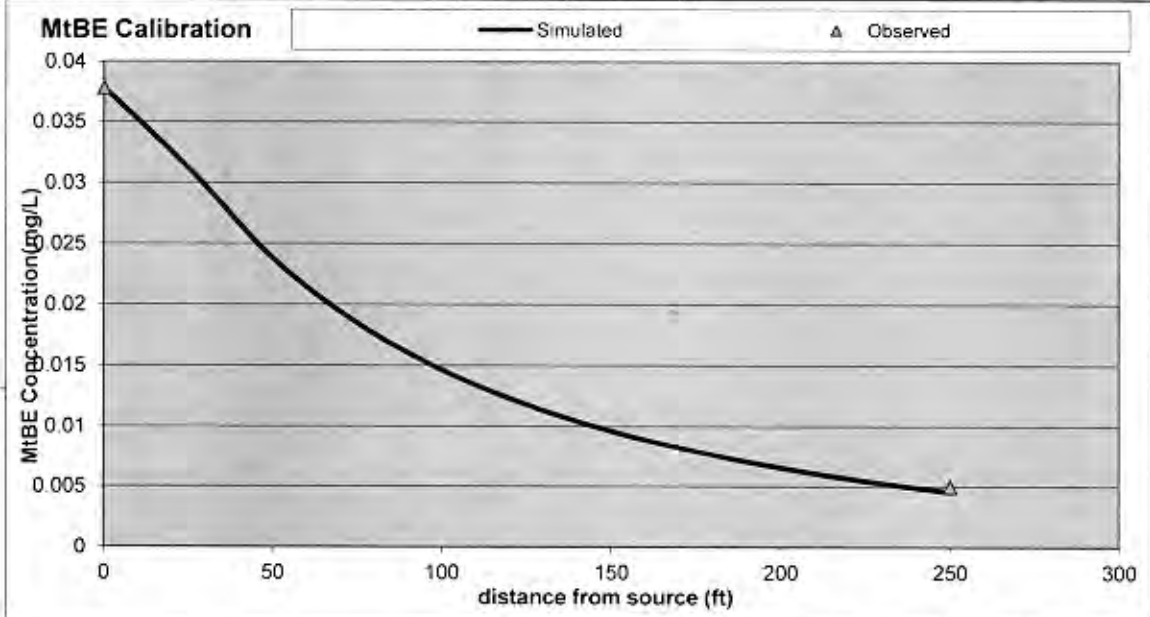
Site Name TISDALES QUICK STOP

Model Calibration Parameters

$t_{1/2}$	5	yrs	λ	0.1386 yr^{-1}
v_x	25	ft/yr		
R	1.015			
v_R	24.632	ft/yr	C_{source}	0.0378 mg/L
L_p	250	ft		
α_x	12.52912	ft	t_{sim}	34.5 yrs
α_y	1.252912	ft		
α_z	1E-99	ft		







Source	25	50	75	100	125	150	175	200	225	250
0	0.03120366	0.02380022	0.01847512	0.01464243	0.01178985	0.009606	0.007898	0.00654	0.005446	0.004557
0	0.03120366	0.02380022	0.01847512	0.01464243	0.01178985	0.009606	0.007898	0.00654	0.005446	0.004557
0	0.03120366	0.02380022	0.01847512	0.01464243	0.01178985	0.009606	0.007898	0.00654	0.005446	0.004557
0	0.03120366	0.02380022	0.01847512	0.01464243	0.01178985	0.009606	0.007898	0.00654	0.005446	0.004557
0	0.03120366	0.02380022	0.01847512	0.01464243	0.01178985	0.009606	0.007898	0.00654	0.005446	0.004557

Naphthalene Calibration

Spatial Calibration Data (centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	1.54	1.54
25		0.887
50		0.472
75		0.255
100		0.141
125		0.079
150		0.045
175		0.026
200		0.015
225		0.009
250	0.005	0.005

Temporal Calibration Data

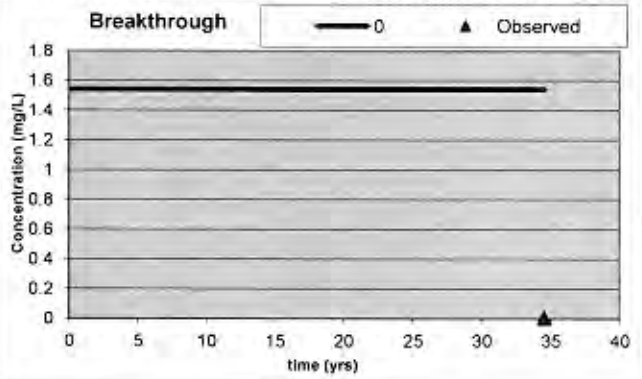
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
	0		0	
0		1.54		1.54
3.45		1.540		1.540
6.9		1.540		1.540
10.35		1.540		1.540
13.8		1.540		1.540
17.25		1.540		1.540
20.7		1.540		1.540
24.15		1.540		1.540
27.6		1.540		1.540
31.05		1.540		1.540
34.5	0.005	1.540		1.540

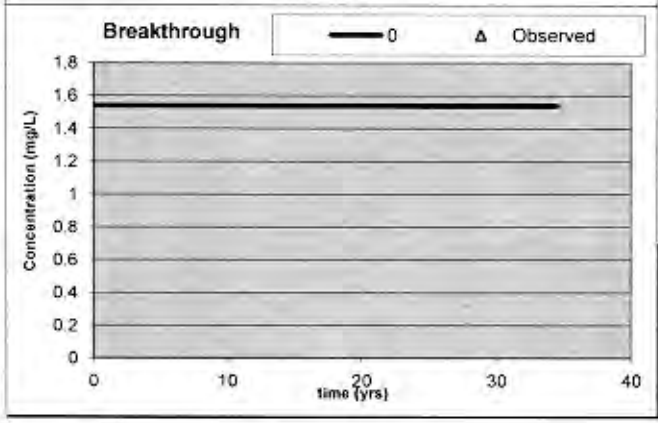
Site ID 18686

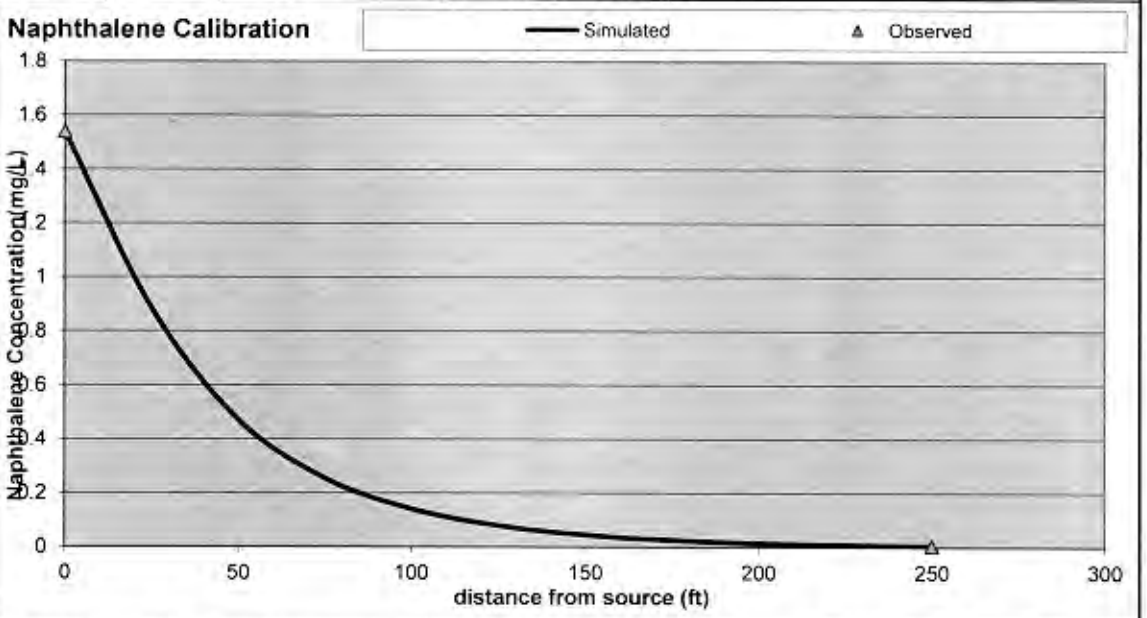
Site Name TISDALES QUICK STOP

Model Calibration Parameters

$t_{1/2}$	3.5	yrs	λ	0.198	yr^{-1}
v_x	25	ft/yr			
R	3.098				
v_R	8.068	ft/yr	C_{source}	1.54	mg/L
L_p	250	ft			
α_x	12.52912	ft	t_{sim}	34.5	yrs
α_y	1.252912	ft			
α_z	1E-99	ft			







Source	25	50	75	100	125	150	175	200	225	250
0	0.88677097	0.4718049	0.25546954	0.14122715	0.0793079	0.0450525	0.025806	0.014862	0.008579	0.004944
0	0.88677097	0.4718049	0.25546954	0.14122715	0.0793079	0.0450525	0.025806	0.014862	0.008579	0.004944
0	0.88677097	0.4718049	0.25546954	0.14122715	0.0793079	0.0450525	0.025806	0.014862	0.008579	0.004944
0	0.88677097	0.4718049	0.25546954	0.14122715	0.0793079	0.0450525	0.025806	0.014862	0.008579	0.004944
0	0.88677097	0.4718049	0.25546954	0.14122715	0.0793079	0.0450525	0.025806	0.014862	0.008579	0.004944

SSTLs t 1000 yrs

UST Permit # 18686
Site Name: TISDALES QUICK STOP

SSTLs in mg/L			RBSLs (mg/L):	0.005	1.000	0.700	10.000	0.040	0.025		
MW #	x (ft)	y (ft)	z (ft)	Benzene SSTL	Toluene SSTL	Ethylbenzene SSTL	Xylenes SSTL	MtBE SSTL	Naphthalene SSTL		
MW-1	260	0	0	15.323	9831.037	573.671	50290.962	0.356	9.420		
MW-2	300	0	0	49.572	38050.859	1515.035	>99999	0.469	22.075		
MW-1A	170	0	0	1.050	449.863	62.038	2902.279	0.184	1.333		
MW-2A	160	0	0	0.776	317.808	48.222	2103.880	0.170	1.068		
MW-3A	170	0	0	1.050	449.863	62.038	2902.279	0.184	1.333		
MW-4A	240	0	0	8.491	4980.370	351.826	26825.342	0.309	6.133		
			λ (yr^{-1}):	0.842	0.958	0.587	0.544	0.139	0.198		
			R:	1.110	1.181	1.239	1.869	1.015	3.098		
			Pure Substance Solubility:	1750	526	169	175	5110	31		
			Effective Solubility:	44.39	26.54	3.7	21.68	173	6.7		

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- WATER SUPPLY WELL
- DESTROYED MONITORING WELL
- LIGHT POLE
- TELEPHONE PEDESTAL
- SEWER MANHOLE
- FIRE HYDRANT
- FIBER OPTIC CABLE MARKER
- PROPERTY LINE
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND WATER LINE
- PP & OVERHEAD POWER LINE
- UNDERGROUND SEWER LINE
- UNDERGROUND GAS LINE
- UNDERGROUND FIBER OPTIC LINE
- DITCH
- FENCE
- BENCHMARK

4,370	BENZENE
10,900	TOLUENE
841	ETHYLBENZENE
6,320	XYLENES
94.5 J	MTBE
258 J	NAPHTHALENE

CONCENTRATIONS IN µg/L

<0.20 LESS THAN THE METHOD DETECTION LIMIT SPECIFIED IN THE LABORATORY REPORT

"J" ESTIMATED VALUE

(FP) FREE PRODUCT

(NS) NOT SAMPLED

N

W A R S A W R O A D

SALVATION AVE.

SC HIGHWAY 527

DRIVEWAY

CONC

MW-29: <0.20 / <0.40 / <0.20 / <0.51 / <0.30 / <1.0

MW-28: <0.20 / <0.40 / <0.20 / <0.51 / <0.30 / <1.0

MW-27: 0.54 J / <0.40 / <0.20 / <0.51 / <0.30 / <1.0

MW-31: <0.20 / <0.40 / <0.20 / <0.51 / <0.30 / <1.0

MW-23: 1.9 / <0.40 / <0.20 / <0.51 / 102 / <1.0

TW-2: 0.96 J / <0.40 / <0.20 / <0.51 / 0.40 J / <1.0

MW-21: <0.20 / <0.40 / <0.20 / <0.51 / <0.30 / <1.0

MW-22: 1.3 / <0.40 / <0.20 / <0.51 / 0.51 J / <1.0

MW-30: <0.20 / <0.40 / <0.20 / <0.51 / <0.30 / <1.0

MW-24: <0.20 / <0.40 / <0.20 / <0.51 / <0.30 / <1.0

MW-25: <0.20 / <0.40 / <0.20 / <0.51 / <0.30 / <1.0

MW-26: <0.20 / <0.40 / <0.20 / <0.51 / <0.30 / <1.0

MW-19: <0.20 / <0.40 / <0.20 / <0.51 / <0.30 / <1.0

MW-20: <0.20 / <0.40 / <0.20 / <0.51 / <0.30 / <1.0

WSW-3

MW-18 (NS)

11,400 / 35,000 / 3,220 / 18,400 / 37.8 J / 1,540

MW-16 (NS)

250

MW-3A

MW-1A

MW-2A: 9,650 / 19,000 / 1,600 / 9,370 / <75 / 962 J

6,450 / 16,400 / 2,060 / 13,600 / 123 / 1,180

MW-4A

7,680 / 33,800 / 2,000 / 17,400 / <60 / 840 J

MW-8

MW-13

MW-9: <0.20 / <0.40 / <0.20 / <0.51 / <0.30 / <1.0

<0.20 / <0.40 / <0.20 / <0.51 / 3.2 / <1.0

WSW-2 (INACTIVE)

MW-10: <0.20 / <0.40 / <0.20 / <0.51 / <0.30 / <1.0

MW-11

MW-12

MW-15

MW-14

S-45-787

MW-5 (NS)

MW-4 (NS)

<0.20 / <0.40 / <0.20 / <0.51 / <0.30 / <1.0

0.73 J / 12.6 / 9.1 / 77.6 / <0.30 / 5.7

<0.20 / <0.40 / <0.20 / <0.51 / <0.30 / <1.0

MW-6

WSW-1

<0.20 / <0.40 / <0.20 / <0.51 / <0.30 / <1.0

MW-3

TW-1

MW-1

4,370 / 10,900 / 841 / 6,320 / 94.5 J / 258 J

MW-2

5,560 / 11,400 / 1,040 / 6,020 / 17.4 J / 239 J

MW-7

<0.20 / <0.40 / <0.20 / <0.51 / <0.30 / <1.0

<0.20 / <0.40 / <0.20 / <0.51 / <0.30 / <1.0

Geological Resources, Inc.

0 50 100 200

(IN FEET)
1 inch = 100 ft

GROUND WATER QUALITY MAP (06/23/ & 06/24/15)

Tisdale's Quick Stop — 1989 Thurgood Marshall Boulevard

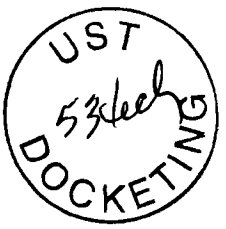
Kingstree, Williamsburg County, SC — UST Permit # 18686

Date:	07/24/15	Drawn by:	ECH	Figure:	4

D H E C
PROMOTE PROTECT PROSPER
Catherine E. Heigel, Director
Promoting and protecting the health of the public and the environment

MR MARTY EASLER
196 RICHBURG ROAD
GREELEYVILLE SC 29056

JUN 0 1 2016



Re: **Site Specific Work Plan Request**
Tisdales Quick Stop, 1989 Thurgood Marshall Blvd, Kingstree, SC
UST Permit # 18686
Release reported March 30, 2001
Monitoring Report received July 22, 2015
Williamsburg County

Dear Mr. Easler:

The Underground Storage Tank (UST) Management Division (Division) of the South Carolina Department of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site using Geologic Resources, Inc., as your contractor. The next scope of work is a groundwater sampling event as outlined in Revision 3.0 of the UST Quality Assurance Program Plan (QAPP). Please have your contractor plan to conduct a comprehensive groundwater sampling of all monitoring wells located at the site. Samples should be analyzed for BTEX, Naphthalene, Oxygenates, 1,2-DCA, MTBE & EDB in accordance with QAPP Rev. 3.0, and in compliance with all applicable regulations. A copy of the QAPP is available at http://www.scdhec.gov/Environment/docs/QAPPRevision3.0.pdf

Please have your contractor complete and submit the Site Specific Work Plan and cost proposal within thirty (30) days of the date of this letter. The Site-Specific Work Plan form can be found at http://www.dhec.sc.gov/administration/library/D-0653.pdf. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that technical and financial preapproval from the Agency must be issued before work begins**.

On all correspondence concerning this site, please reference UST Permit # 18686. If there are any questions, feel free to contact me by telephone at (803) 898-0605, by fax at (803) 898-0673, or by e-mail at martinjm@dhec.sc.gov.

Sincerely,

Jim Martin, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Geological Resources, Inc., 3502 Hayes Rd., Monroe, NC 28110
Technical File

D H E C

PROMOTE PROTECT PROSPER

Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment



MR MARTY EASLER
196 RICHBURG ROAD
GREELEYVILLE SC 29056

JUN 2 4 2016

Re: **Site Specific Work Plan Approval**
Tisdales Quick Stop, 1989 Thurgood Marshall Blvd, Kingstree, SC
UST Permit # 18686; CA#52679
Release reported March 30, 2001
SSWP received June 16, 2016
Williamsburg County

Dear Mr. Easler:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced Site Specific Work Plan submitted on your behalf by Geological Resources, Inc. The previous assessment work for this release indicates that petroleum Chemicals of Concern (CoC) are present in the groundwater at concentrations that exceed risk-based screening levels (RBSLs). In order to obtain current groundwater quality data, a comprehensive groundwater sampling event is necessary. All work should be conducted in accordance with the UST Quality Assurance Program Plan, revision 3.0, (QAPP) and must be conducted in compliance with all applicable regulations. A copy of the Agency QAPP for the UST Management Division is available at: http://www.scdhec.gov/Environment/docs/QAPPRevision3.0.pdf.

Groundwater sampling activities at the site should begin immediately upon receipt of this letter. Cost Agreement # 52679 has been approved for the amount shown on the enclosed cost agreement form for the sampling of all monitoring wells associated with the release. Groundwater samples should be collected and analyzed for BTEX, Naphthalene, MtBE, 1,2-DCA, Oxygenates, Ethanol & EDB. Analyses should be in accordance with Appendix F of the QAPP and shall include a duplicate sample, field blank, and trip blank.

The monitoring report, contractor checklist from Appendix K of the QAPP, and invoice are due within 60 days from the date of this letter. The report submitted at the completion of these activities should include the required information outlined in the QAPP. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

Geological Resources, Inc. can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. Please note that applicable South Carolina certification requirements regarding laboratory services and report preparation must be satisfied. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the UST Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the UST Division for the cost to be paid. The Agency reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Agency reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note, if unnecessary dilutions are completed resulting in reporting limits of individual CoC in excess of RBSL, the data cannot be used. In those cases, the UST Division may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST Division encourages the use of 'J' values as necessary so the appropriate action can be determined for a release.

The Agency grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The transport and disposal must be conducted in accordance with the QAPP. If the CoC concentrations based on laboratory analysis are below RBSLs, please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence concerning this site, please reference UST Permit # 18686. If there are any questions, feel free to contact me by telephone at (803) 898-0605, by fax at (803) 898-0673, or by e-mail at martinjm@dhec.sc.gov.

Sincerely,

Jim Martin, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Geological Resources, Inc., 3502 Hayes Rd., Monroe, NC 28110
Technical File

Approved Cost Agreement 52679

Facility 18686 TISDALES QUICK STOP
MARTINJM
PO Number

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
01 PLAN						
		A1	SITE SPECIFIC WORK PLAN	1 0000	$150 000	150 00
04 MOB/DEMOB						
		B1	PERSONNEL	2 0000	$423 000	846.00
10 SAMPLE COLLECTION						
		A1	GROUNDWATER (PURGE)	34 0000	$60.000	2,040 00
		C1	WATER SUPPLY	2 0000	$22.000	44 00
		D1	GROUNDWATER NO PURGE/DUPLICATE	2 0000	$28 000	56 00
		H1	FIELD BLANK	1 0000	$24 600	24.60
11 ANALYSES						
	GW GROUNDWATER	A2	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	40.0000	$122 000	4,880 00
		F1	EDB BY 8011	39 0000	$45 200	1,762 80
17 DISPOSAL						
		AA	WASTEWATER	250.0000	$0 560	140 00
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0.1200	$9,943 400	1,193.21
				Total Amount		11,136 61

Geological Resources, Inc.

UST
AUG 2 2 2016
PROGRAM

UST
56
DOCKETING

August 18, 2016

Mr. Jim Martin
SCDHEC
UST Management Division
Bureau of Land & Waste Management
2600 Bull Street
Columbia, SC 29201

Re: Ground Water Monitoring Report
July 2016
Tisdale's Quick Stop
1989 Thurgood Marshall Blvd
Kingstree, Williamsburg County, SC
UST Permit Number: 18686
GRI Project No: 1543

Dear Mr. Martin,

Please find enclosed the referenced report for the above mentioned site. If you have any questions, please do not hesitate to contact Scott Ball at (704) 845-4010.

Sincerely,
Geological Resources, Inc.

J Donnelly

Jackie Donnelly
Project Coordinator

Enclosure

cc: Mr. Martyh Easler
file

3502 Hayes Road • Monroe, North Carolina 28110
113 West Firetower Road, Suite G • Winterville, North Carolina 28590
Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012

GROUND WATER MONITORING REPORT
JULY 2016
TISDALE'S QUICK STOP
1989 THURGOOD MARSHALL BOULEVARD
KINGSTREE, WILLIAMSBURG COUNTY
SOUTH CAROLINA
UST PERMIT NO. 18686
GRI PROJECT NO. 1543

Prepared for:

Mr. Marty Easler
196 Richburg Road
Greeleyville, SC 29056

Prepared by:

Geological Resources, Inc.
3502 Hayes Road
Monroe, North Carolina 28110
Class I UST Site Rehabilitation Contractor # 74

August 18, 2016

W. Scott Ball
Project Manager

JOHN M. BROWN REGISTERED NO. 1116 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

John M. Brown, P.G.
License # 1116

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Appendix B: Field Data Information Sheets
Appendix C: Disposal Manifest
Appendix D: Contractor Checklist

1.0 INTRODUCTION

This report presents the results of comprehensive ground water sampling activities conducted in July 2016 at the Tisdales Quick Stop site located at 1989 Thurgood Marshall Highway, in Kingstree, Williamsburg County, South Carolina (**Figures 1** and **2**). The activities were conducted in accordance with the **Site Specific Work Plan Approval** dated June 24, 2016 from the SCDHEC. The purpose of the activities was to obtain current ground water quality data for the site.

The site is a former petroleum retail location. There are two buildings on site, the first is used as a convenience store and grill and the second building is used for a liquor store. Surrounding properties are a mix of commercial and residential. According to the South Carolina Underground Storage Tank (UST) registry database, a release at the site occurred on March 30, 2001, and the confirmation date of the release is listed as April 6, 2001. Two 550 gallon gasoline tanks and one 1,000 gallon diesel tank were removed March 1, 2001. A total of 37 monitoring wells (MW-1 through MW-31, MW-1A through MW-4A, TW-1 and TW-2) have been installed previously at the site. Please refer to earlier submittals for additional information regarding previous assessment activities.

2.0 FACILITY INFORMATION

- **Facility Name:** Tisdales Quick Stop
- **Location:** 1989 Thurgood Marshall Blvd (Highway 527)
  Kingstree, Williamsburg County
- **UST Permit No.** 18686
- **Property Owner:** Andy McKnight (Life) & Regina Mae Scott McKnight (Life)
  316 McCullough Loop
  Kingstree, South Carolina 29566
  (843) 382-2474
- **UST Owner/Operator:** Marty Easler
  196 Richburg Road
  Greeleyville, South Carolina 29056
  (843) 372-2502
- **Site Rehabilitation Contractor:** Geological Resources, Inc.
  3502 Hayes Road
  Monroe, North Carolina 28110
  (704) 845-4010
  Class 1, Certification Number 74
- **Laboratory:** Accutest Laboratories - Southeast
  4405 Vineland Road, Suite C-15
  Orlando, FL 32811

(407) 425-6700
State Certification Number: 96038001

Release Information:

- **Date Discovered:** March 30, 2001
- **Estimated Amount of Release:** Unknown
- **Source of Release:** Leaking UST System
- **UST Size/Contents:** Two 550 gallon gasoline tanks and one 1,000 gallon diesel tank (Removed March 1, 2001)
- **Latitude:** 33.6579897° North **Longitude:** 79.8127613° West

3.0 GROUND WATER QUALITY

Thirty Type III monitoring wells (MW-1 through MW-10, MW-13 through MW-15, MW-19 through MW-31 and MW-1A through MW-4A) and two telescoping monitoring wells (TW-1 and TW-2) were gauged, purged and/or sampled between July 18 and 19, 2016. Two water supply wells (WSW-1 and WSW-3) were also sampled on July 19, 2016. Monitoring wells MW-11, MW-12 and MW-17 were previously destroyed; and therefore, could not be sampled. Monitoring wells MW-16 and MW-18 could not be found and were not sampled. Monitoring wells MW-4 and MW-5 were obstructed and could be gauged but not sampled. All type III and telescoping wells were purged prior to sampling. The depths to ground water in the Type III monitoring wells during the July 2016 sampling event ranged from 11.26 to 17.23 feet below the top of casings. Ground water elevations in the Type III monitoring wells relative to a temporary benchmark with an assumed datum of 100.00 feet ranged from 81.14 to 84.94 feet. Based on this data, ground water flow was generally toward the West. The horizontal hydraulic gradient across the site was less than 0.01 feet per foot. The vertical hydraulic gradient calculated for MW-3/TW-1 and MW-21/TW-2 were 0.021 and 0.008 feet per foot downward, respectively. A Site Map showing the locations of the monitoring wells and the structures on-site has been included as **Figure 2**. A Water Table Surface Map for the July 2016 sampling event has been included as **Figure 3**. A summary of well construction and gauging information is presented in **Table 1**.

Laboratory analyses were performed on the ground water samples collected from the monitoring wells during the July 2016 sampling event for BTEX, MTBE, naphthalene, 1,2-DCA and eight oxygenates using EPA Method 8260 as well as EDB by EPA Method 8011. Concentrations of benzene, toluene, ethylbenzene, xylenes, MTBE, naphthalene and/or EDB that exceeded the RBSLs were reported in the ground water samples collected from MW-1, MW-2, MW-3, MW-14, MW-22, MW-23, MW-27, MW-1A, MW-2A, MW-3A, MW-4A and TW-2. Concentrations of oxygenates that exceeded the action levels were reported in the samples collected from MW-1, MW-2, MW-3, MW-22, MW-23, MW-1A, MW-2A and MW-4A. No detectable concentrations of requested method constituents were reported in the water supply well samples. A Ground

Water Quality Map based on data from the July 2016 sampling event has been included as **Figure 4**. Summaries of ground water sample analytical results are presented in **Tables 2** and **3**. A complete laboratory analytical report has been included as **Appendix A**. Field data information sheets have been included as **Appendix B**. A disposal manifest for purge water generated during sampling activities has been included as **Appendix C**.

4.0 QA/QC

Monitoring well gauging, purging and sampling was conducted in general accordance with the SCDHEC Programmatic QAPP and the approved site specific Contractor Addendum. All wells were purged and/or sampled with dedicated disposable bailers. All field measurement equipment was properly decontaminated between sampling locations. Duplicate samples from monitoring wells MW-2 and MW-2A as well as a field blank were collected during the sampling activities. A trip blank was included in the sample cooler. Laboratory results for MW-2 and MW-2 DUP A as well as MW-2A and MW-2A DUP B showed similar concentrations. No detectable concentrations of requested method constituents were reported for the trip blank or field blank. All applicable items on the Contractor Checklist were reviewed and verified. A copy of the Contractor Checklist is included as **Appendix D**.

5.0 CONCLUSIONS AND RECOMMENDATIONS

- A total of thirty Type III monitoring wells, two telescoping monitoring wells and two water supply wells were gauged, purged and/or sampled in July 2016. Ground water flow at the site based on the July 2016 event was generally toward the west. The horizontal hydraulic gradient across the site was less than 0.01 feet per foot. The vertical hydraulic gradient ranged from 0.008 to 0.021 feet per foot downward.
- Concentrations of benzene, toluene, ethylbenzene, xylenes, MTBE, naphthalene and/or EDB that exceeded the RBSLs were reported in the ground water samples collected from MW-1, MW-2, MW-3, MW-14, MW-22, MW-23, MW-27, MW-1A, MW-2A, MW-3A, MW-4A and TW-2. Concentrations of oxygenates that exceeded the action levels were reported in the samples collected from MW-1, MW-2, MW-3, MW-22, MW-23, MW-1A, MW-2A and MW-4A. No detectable concentrations of requested method constituents were reported in the water supply well samples.
- Free product was historically encountered in several monitoring wells. Based on the historical presence of free product and high levels of dissolved phase concentrations, an AFVR event is recommended for

the affected wells. In addition, monitoring well MW-16 historically contained free product or elevated levels of dissolved-phase contaminants and should be replaced.

- Ground water sampling should continue as directed by the SCDHEC.

6.0 LIMITATIONS

This report has been prepared for the exclusive use of Mr. Marty Easler and the SCDHEC for specific application to the referenced site in Williamsburg County, South Carolina. The assessment was conducted based on the scope of work and level of effort specified by the SCDHEC and with resources adequate only for that scope of work. Our findings have been developed in accordance with generally accepted standards of geology and hydrogeology practices in the State of South Carolina, available information, and our professional judgment. No other warranty is expressed or implied.

The data that are presented in this report are indicative of conditions that existed at the precise locations sampled and at the time the samples were collected. In addition, the data obtained from samples would be interpreted as being meaningful with respect to parameters indicated in the laboratory report. No additional information can logically be inferred from these data.

FIGURES

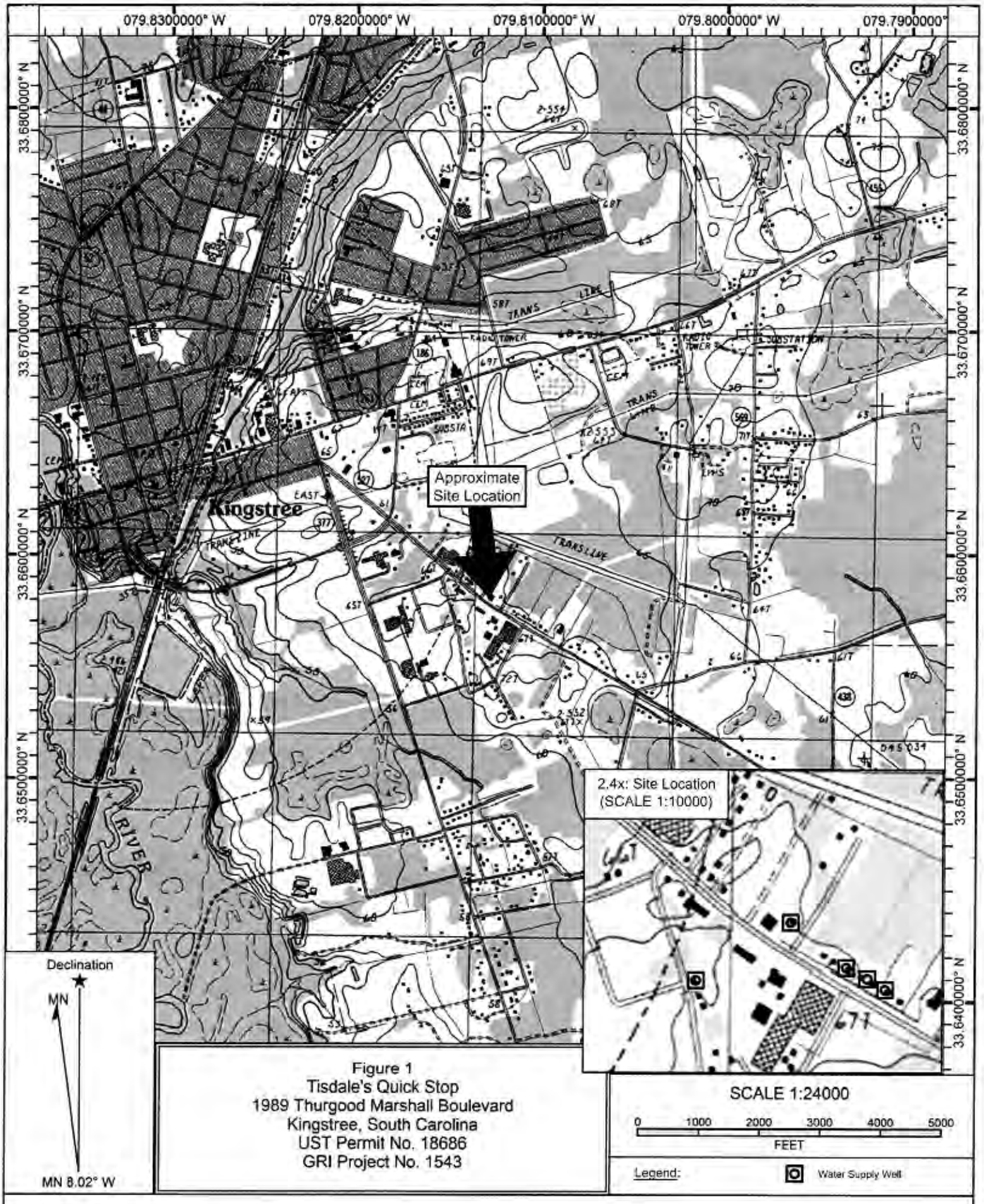


Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit No. 18686
GRI Project No. 1543

Name: Topographic Map
Date: 08/08/16
Scale: 1 inch = 2,000 ft.

Map Center Location: 033.6579897° N 079.8127613° W

Generated by Geological Resources, Inc.

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- WATER SUPPLY WELL
- DESTROYED MONITORING WELL
- LIGHT POLE
- TELEPHONE PEDESTAL
- SEWER MANHOLE
- FIRE HYDRANT
- FIBER OPTIC CABLE MARKER
- PROPERTY LINE
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND WATER LINE
- PP & OVERHEAD POWER LINE
- UNDERGROUND SEWER LINE
- UNDERGROUND GAS LINE
- UNDERGROUND FIBER OPTIC LINE
- DITCH
- FENCE
- BENCHMARK
- 18-055 WILLIAMSBURG COUNTY TAX MAP NUMBER
- (18) PARCEL NUMBER

N

18-055 (20)
18-055 (21)
18-055 (22)
18-055 (23)
18-055 (24)
18-055 (18)
18-055 (19)
18-056 (18)
18-056 (19)
11-40 (1)

SALVATION AVE.
WARSAW ROAD
SC HIGHWAY 527
Williamsburg Technical College
DRIVEWAY
CONC.
Open Grass Field
WOODS
Shed
LUCKY 777
Mobile Home
Gate
Block Storage Buildings
State Dept. of Educ. School Bus Maint. Shop
Abandoned Residence
Canopy
Diesel Dispenser
1/2" REBAR IN P.P.
ASSUMED ELEV. 100.00'
Tisdale's Quick Stop

MW-1
MW-1A
MW-2
MW-2A
MW-3
MW-3A
MW-4
MW-4A
MW-5
MW-6
MW-7
MW-8
MW-9
MW-10
MW-13
MW-14
MW-15
MW-19
MW-20
MW-21
MW-22
MW-23
MW-24
MW-25
MW-26
MW-27
MW-28
MW-29
MW-30
MW-31
TW-1
TW-2
WSW-1
WSW-2 (INACTIVE)
WSW-3

Geological Resources, Inc.

0 50 100 200
(IN FEET)
1 inch = 100 ft

SITE MAP

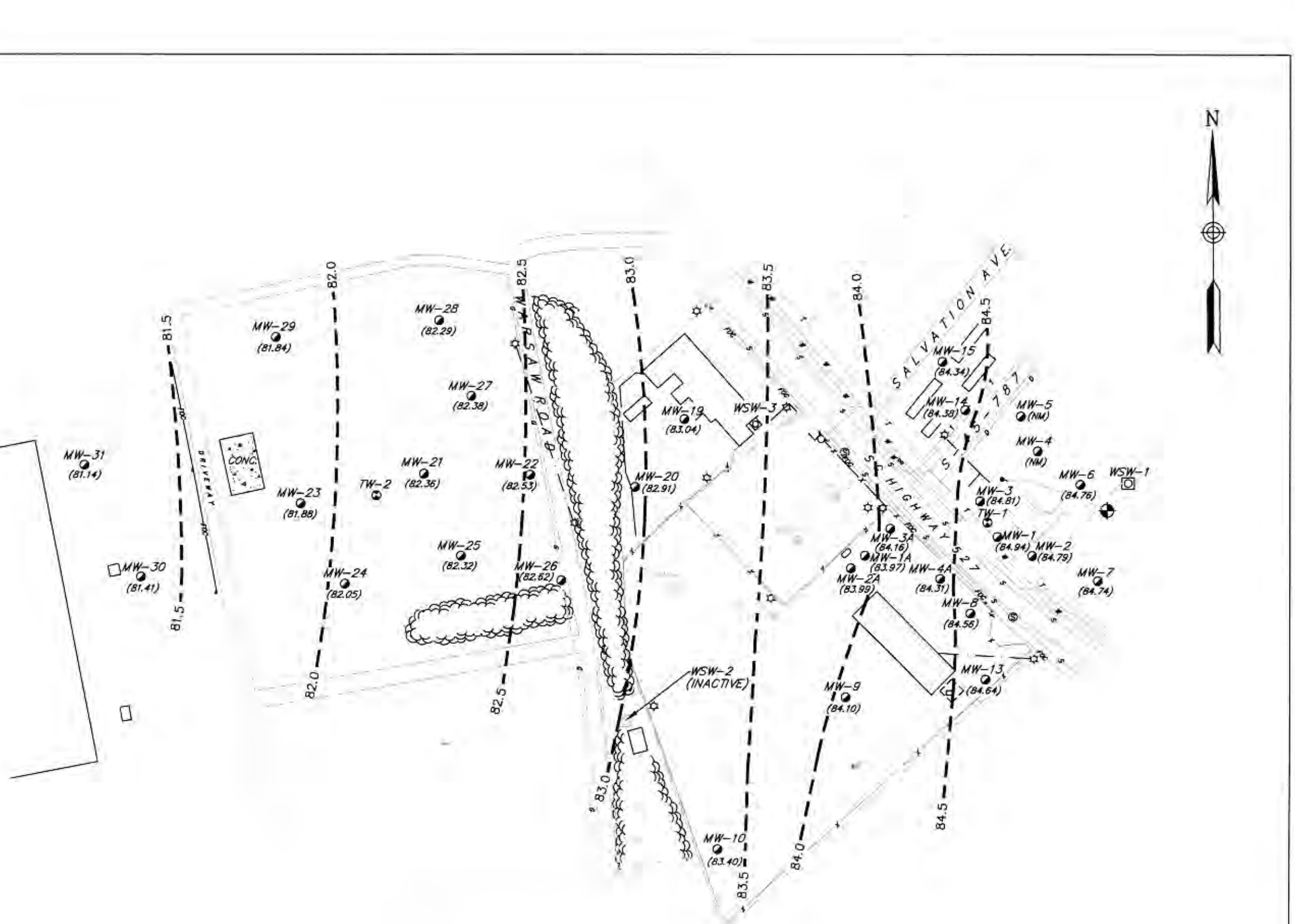
Tisdale's Quick Stop
UST Permit No. 18686
GRI Project No. 1543

1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County, SC

Date: 08/08/16 | Drawn by: ECH | Figure: 2

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- WATER SUPPLY WELL
- DESTROYED MONITORING WELL
- LIGHT POLE
- TELEPHONE PEDESTAL
- SEWER MANHOLE
- FIRE HYDRANT
- FIBER OPTIC CABLE MARKER
- PROPERTY LINE
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND WATER LINE
- PP & OVERHEAD POWER LINE
- UNDERGROUND SEWER LINE
- UNDERGROUND GAS LINE
- UNDERGROUND FIBER OPTIC LINE
- DITCH
- FENCE
- BENCHMARK
- 84.5 WATER TABLE SURFACE CONTOUR
- (84.94) GROUND WATER ELEVATION (FT.)
- (NM) NOT MEASURED



Geological Resources, Inc.

0 50 100 200

(IN FEET)
1 inch = 100 ft

WATER TABLE SURFACE MAP (07/18/16)

Tisdale's Quick Stop
UST Permit No. 18686
GRI Project No. 1543

1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County, SC

Date:	08/08/16	Drawn by:	ECH	Figure:	3

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- WATER SUPPLY WELL
- DESTROYED MONITORING WELL
- LIGHT POLE
- TELEPHONE PEDESTAL
- SEWER MANHOLE
- FIRE HYDRANT
- FIBER OPTIC CABLE MARKER
- PROPERTY LINE
- UNDERGROUND TELEPHONE LINE
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- PP & OVERHEAD POWER LINE
- UNDERGROUND SEWER LINE
- UNDERGROUND GAS LINE
- UNDERGROUND FIBER OPTIC LINE
- DITCH
- FENCE
- BENCHMARK

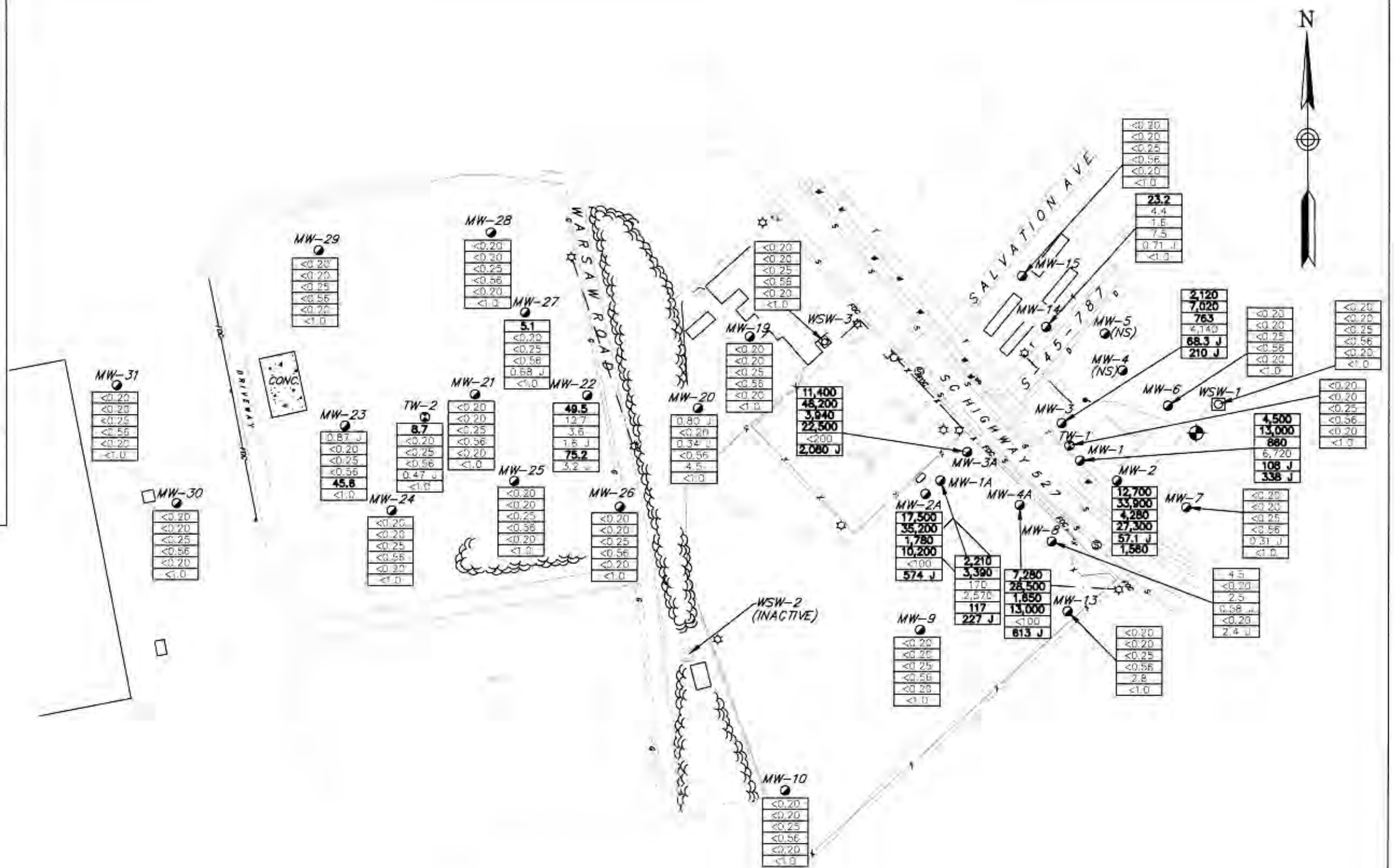
4,500	BENZENE
13,000	TOLUENE
880	ETHYLBENZENE
5,720	XYLENES
108 J	MTBE
338 J	NAPHTHALENE

CONCENTRATIONS IN µg/L

<0.20 LESS THAN THE METHOD DETECTION LIMIT SPECIFIED IN THE LABORATORY REPORT

"J" ESTIMATED VALUE

(NS) NOT SAMPLED



Geological Resources, Inc.

GROUND WATER QUALITY MAP (07/18 & 07/19/16)

Tisdale's Quick Stop
UST Permit No. 18686
GRI Project No. 1543

1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County, SC

Date: 08/08/16 | Drawn by: ECH | Figure: 4

TABLES

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-1	01/16/03	98.81	15.72		83.09	20	10-20
	02/09/04		14.25		84.56		
	09/23/04		11.94		86.87		
	01/21/05		13.09		85.72		
	03/23/06		12.43		86.38		
	01/07/09		15.12		83.69		
	11/04/09		15.58		83.23		
	11/22/11		17.46		81.35		
	11/06/13		14.83		83.98		
	08/27/14		14.52		84.29		
	01/15/15		13.53		85.28		
	06/23/15		13.64		85.17		
	07/18/16		13.87		84.94		
MW-2	01/16/03	98.82	17.35	1.90	83.10	25	10-25
	02/09/04		15.17	1.07	84.57		
	09/23/04		12.95	1.18	86.88		
	01/21/05		13.61	0.61	85.73		
	03/23/06		12.43		86.39		
	01/07/09		15.03	0.02	83.81		
	11/03/09		15.97	0.11	82.94		
	11/22/11		17.87		80.95		
	11/06/13		15.02	0.21	83.98		
	08/27/14		14.62	0.02	84.22		
	01/15/15		13.52		85.30		
	06/23/15		13.81		85.01		
	07/18/16		14.03		84.79		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-3	01/16/03	98.74	15.36	0.33	83.66	25	10-25
	02/09/04		14.34	0.19	84.56		
	09/23/04		12.12	0.06	86.67		
	01/21/05		13.38	0.02	85.38		
	03/23/06		12.37		86.37		
	01/07/09		15.27	0.12	83.57		
	11/03/09		15.82	0.12	83.02		
	11/22/11		17.47	0.04	81.30		
	11/06/13		14.69	0.01	84.06		
	08/27/14		14.48		84.26		
	01/15/15		13.52		85.22		
	06/23/15		13.68		85.06		
	07/18/16		13.93		84.81		
MW-4	01/16/03	98.58	15.06		83.52	25	10-25
	02/09/04		14.01		84.57		
	09/23/04		11.96		86.62		
	01/21/05		13.13		85.45		
	03/23/06		12.24		86.34		
	01/07/09		14.84		83.74		
	11/04/09		15.68		82.90		
	11/22/11		OBS		OBS		
	11/06/13		OBS		OBS		
	08/27/14		OBS		OBS		
	01/15/15		13.37		85.21		
	06/23/15		OBS		OBS		
	07/18/16		OBS		OBS		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-5	01/16/03	98.13	14.77		83.36	22	12-22
	02/09/04		13.77		84.36		
	09/23/04		11.71		86.42		
	01/21/05		13.14		84.99		
	03/23/06		12.80		85.33		
	01/07/09		14.96		83.17		
	11/04/09		15.26		82.87		
	11/22/11		OBS		OBS		
	11/06/13		OBS		OBS		
	08/27/14		OBS		OBS		
	01/15/15		OBS		OBS		
	06/23/15		OBS		OBS		
	07/18/16		OBS		OBS		
MW-6	01/16/03	98.50	14.64		83.86	21.5	11.5-21.5
	02/09/04		13.86		84.64		
	09/23/04		11.86		86.64		
	01/21/05		13.38		85.12		
	03/23/06		12.81		85.69		
	01/07/09		15.00		83.50		
	11/03/09		15.23		83.27		
	11/22/11		17.47		81.03		
	11/06/13		14.39		84.11		
	08/27/14		14.27		84.23		
	01/15/15		13.07		85.43		
	06/23/15		13.46		85.04		
	07/18/16		13.74		84.76		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-7	01/16/03	98.19	14.69		83.50	22	12-22
	02/09/04		13.56		84.63		
	09/23/04		11.56		86.63		
	01/21/05		12.78		85.41		
	03/23/06		11.73		86.46		
	01/07/09		14.60		83.59		
	11/03/09		15.27		82.92		
	11/22/11		17.32		80.87		
	11/06/13		14.26		83.93		
	08/27/14		14.05		84.14		
	01/15/15		12.81		85.38		
	06/23/15		13.19		85.00		
	07/18/16		13.45		84.74		
MW-8	01/16/03	98.17	14.85		83.32	22	12-22
	02/09/04		13.98		84.19		
	09/23/04		12.07		86.10		
	01/21/05		13.33		84.84		
	03/23/06		12.14		86.03		
	01/08/09		15.00		83.17		
	11/03/09		15.45		82.72		
	11/22/11		17.55		80.62		
	11/06/13		14.45		83.72		
	08/27/14		14.31		83.86		
	01/15/15		13.27		84.90		
	06/23/15		13.38		84.79		
	07/18/16		13.61		84.56		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-9	01/16/03	98.52	15.79		82.73	22	12-22
	02/09/04		15.00		83.52		
	09/23/04		13.12		85.40		
	01/21/05		14.64		83.88		
	03/23/06		13.29		85.23		
	01/08/09		16.01		82.51		
	11/03/09		16.56		81.96		
	11/22/11		18.73		79.79		
	11/06/13		15.51		83.01		
	08/27/14		15.35		83.17		
	01/15/15		14.59		83.93		
	06/23/15		14.29		84.23		
	07/18/16		14.42		84.10		
MW-10	01/16/03	98.68	16.52		82.16	25	10-25
	02/09/04		15.79		82.89		
	09/23/04		13.97		84.71		
	01/21/05		15.35		83.33		
	03/23/06		14.18		84.50		
	01/08/09		15.75		82.93		
	11/03/09		17.41		81.27		
	11/22/11		19.43		79.25		
	11/06/13		13.37		85.31		
	08/27/14		16.16		82.52		
	01/15/15		15.26		83.42		
	06/23/15		15.16		83.52		
	07/18/16		15.28		83.40		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-11	01/16/03	94.65	12.89		81.76	22	7-22
	02/09/04		12.10		82.55		
	09/23/04		10.51		84.14		
	01/21/05		11.68		82.97		
	03/23/06		10.55		84.10		
	01/08/09		NM		NM		
MW-12	01/16/03	95.70	13.13		82.57	22	7-22
	02/09/04		12.35		83.35		
	09/23/04		12.67		83.03		
	01/21/05		12.06		83.64		
	03/23/06		10.80		84.90		
	01/08/09		NM		NM		
MW-13	01/16/03	99.01	15.65		83.36	25	10-25
	02/09/04		14.70		84.31		
	09/23/04		12.90		86.11		
	01/21/05		14.05		84.96		
	03/23/06		12.82		86.19		
	01/08/09		15.68		83.33		
	11/03/09		16.30		82.71		
	11/22/11		18.57		80.44		
	11/06/13		15.25		83.76		
	08/27/14		15.08		83.93		
	01/15/15		13.94		85.07		
	06/23/15		14.15		84.86		
	07/18/16		14.37		84.64		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-14	01/16/03	98.36	15.12		83.24	25	10-25
	02/09/04		14.24		84.12		
	09/23/04		12.03		86.33		
	01/21/05		13.78		84.58		
	03/23/06		12.75		85.61		
	01/08/09		15.32		83.04		
	11/04/09		15.77		82.59		
	11/22/11		17.72		80.64		
	11/06/13		15.86		82.50		
	08/27/14		14.58		83.78		
	01/15/15		14.61		83.75		
	06/23/15		13.00		85.36		
	07/18/16		13.98		84.38		
MW-15	01/16/03	99.59	16.40		83.19	25	10-25
	02/09/04		15.55		84.04		
	09/23/04		13.50		86.09		
	01/21/05		14.89		84.70		
	03/23/06		13.92		85.67		
	01/08/09		16.63		82.96		
	11/04/09		17.16		82.43		
	11/22/11		19.15		80.44		
	11/06/13		16.26		83.33		
	08/27/14		15.96		83.63		
	01/15/15		14.94		84.65		
	06/23/15		15.08		84.51		
	07/18/16		15.25		84.34		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-16	01/16/03	98.93	16.21	0.04	82.75	23	8-23
	02/09/04		15.24	0.04	83.72		
	09/23/04		13.55		85.38		
	01/21/05		14.81	0.02	84.14		
	03/23/06		13.60		85.33		
	01/08/09		16.21		82.72		
	11/04/09		16.57		82.36		
	11/22/11		NM		NM		
MW-17	01/16/03	98.25	16.00	0.07	82.31	23	8-23
	02/09/04		14.55		83.70		
	09/23/04		12.82		85.43		
	01/21/05		13.78		84.47		
	03/23/06		NM		NM		
MW-18	01/16/03	99.83	17.70		82.13	25	10-25
	02/09/04		16.91		82.92		
	09/23/04		15.06		84.77		
	01/21/05		16.45		83.38		
	03/23/06		15.31		84.52		
	01/08/09		17.89		81.94		
	11/04/09		18.40		81.43		
	11/22/11		20.20		79.63		
	11/06/13		NM		NM		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-19	01/16/03	100.27	18.54		81.73	25	10-25
	02/09/04		17.63		82.64		
	09/23/04		16.00		84.27		
	01/21/05		17.21		83.06		
	03/23/06		16.15		84.12		
	01/08/09		NM		NM		
	11/04/09		19.22		81.05		
	11/22/11		20.93		79.34		
	11/06/13		18.50		81.77		
	08/27/14		18.08		82.19		
	01/15/15		17.26		83.01		
	06/23/15		17.14		83.13		
	07/18/16		17.23		83.04		
MW-20	01/16/03	97.21	15.59		81.62	25	10-25
	02/09/04		14.74		82.47		
	09/23/04		13.15		84.06		
	01/21/05		14.33		82.88		
	03/23/06		13.21		84.00		
	01/08/09		NM		NM		
	11/04/09		16.30		80.91		
	11/22/11		18.02		79.19		
	11/06/13		15.36		81.85		
	08/27/14		15.18		82.03		
	01/15/15		14.41		82.80		
	06/23/15		14.21		83.00		
	07/18/16		14.30		82.91		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-21	01/16/03	95.72	14.70		81.02	23	8-23
	02/09/04		13.85		81.87		
	09/23/04		12.27		83.45		
	01/21/05		13.42		82.30		
	03/23/06		NM		NM		
	01/08/09		NM		NM		
	11/04/09		15.35		80.37		
	11/22/11		17.01		78.71		
	11/06/13		NM		NM		
	08/27/14		14.22		81.50		
	01/15/15		13.48		82.24		
	06/23/15		13.41		82.31		
	07/18/16		13.36		82.36		
MW-22	01/16/03	96.68	15.40		80.32	25	10-25
	02/09/04		14.61		82.07		
	09/23/04		12.92		83.76		
	01/21/05		14.15		82.53		
	03/23/06		13.21		83.47		
	01/08/09		15.54		81.14		
	11/04/09		16.08		80.60		
	11/22/11		17.75		78.93		
	11/06/13		15.17		81.51		
	08/27/14		15.00		81.68		
	01/15/15		14.17		82.51		
	06/23/15		14.14		82.54		
	07/18/16		14.15		82.53		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-23	01/16/03	95.78	15.08		80.70	24	9-24
	02/09/04		14.30		81.48		
	09/23/04		12.72		83.06		
	01/20/05		13.82		81.96		
	03/23/06		13.09		82.69		
	01/08/09		15.21		80.57		
	11/04/09		15.64		80.14		
	11/22/11		17.28		78.50		
	11/06/13		14.82		80.96		
	08/27/14		14.71		81.07		
	01/15/15		13.89		81.89		
	06/23/15		13.75		82.03		
	07/18/16		13.90		81.88		
MW-24	01/16/03	93.86	13.00		80.86	23	8-23
	02/09/04		12.19		81.67		
	09/23/04		10.58		83.28		
	01/20/05		11.71		82.15		
	03/23/06		10.87		82.99		
	01/08/09		13.17		80.69		
	11/04/09		13.79		80.07		
	11/22/11		15.28		78.58		
	11/06/13		12.86		81.00		
	08/27/14		12.62		81.24		
	01/15/15		11.73		82.13		
	06/23/15		11.79		82.07		
	07/18/16		11.81		82.05		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-25	01/16/03	94.30	13.20		81.10	23	8-23
	02/09/04		12.37		81.93		
	09/23/04		10.74		83.56		
	01/20/05		11.99		82.31		
	03/23/06		11.00		83.30		
	01/08/09		13.34		80.96		
	11/04/09		13.83		80.47		
	11/22/11		15.56		78.74		
	11/06/13		13.00		81.30		
	08/27/14		12.79		81.51		
	01/15/15		11.91		82.39		
	06/23/15		11.92		82.38		
	07/18/16		11.98		82.32		
MW-26	01/16/03	93.88	12.38		81.50	21	6-21
	02/09/04		11.62		82.26		
	09/23/04		10.03		83.85		
	01/20/05		11.18		82.70		
	03/23/06		10.58		83.30		
	01/08/09		12.44		81.44		
	11/04/09		13.26		80.62		
	11/22/11		14.92		78.96		
	11/06/13		12.31		81.57		
	08/27/14		12.09		81.79		
	01/15/15		10.10		83.78		
	06/23/15		11.21		82.67		
	07/18/16		11.26		82.62		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-27	01/16/03	98.15	16.99		81.16	25	10-25
	02/09/04		16.20		81.95		
	09/23/04		14.61		83.54		
	01/21/05		15.81		82.34		
	03/23/06		14.84		83.31		
	01/08/09		17.20		80.95		
	11/04/09		17.64		80.51		
	11/22/11		19.30		78.85		
	11/06/13		16.74		81.41		
	08/27/14		16.61		81.54		
	01/15/15		15.79		82.36		
	06/23/15		15.74		82.41		
	07/18/16		15.77		82.38		
MW-28	01/16/03	98.45	17.46		80.99	25	10-25
	02/09/04		16.55		81.90		
	09/23/04		15.00		83.45		
	01/21/05		16.17		82.28		
	03/23/06		15.21		83.24		
	01/08/09		NM		NM		
	11/04/09		18.00		80.45		
	11/22/11		19.60		78.85		
	11/06/13		17.11		81.34		
	08/27/14		16.96		81.49		
	01/15/15		16.19		82.26		
	06/23/15		16.10		82.35		
	07/18/16		16.16		82.29		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-29	01/16/03	96.78	16.17		80.61	25	10-25
	02/09/04		15.30		81.48		
	09/23/04		13.74		83.04		
	01/20/05		14.69		82.09		
	03/23/06		14.12		82.66		
	01/08/09		16.31		80.47		
	11/04/09		16.71		80.07		
	11/22/11		18.26		78.52		
	11/06/13		15.89		80.89		
	08/27/14		15.74		81.04		
	01/15/15		14.98		81.80		
	06/23/15		14.95		81.83		
	07/18/16		14.94		81.84		
MW-30	01/16/03	95.38	15.18		80.20	22	7-22
	02/09/04		14.36		81.02		
	09/23/04		12.85		82.53		
	01/20/05		13.72		81.66		
	03/23/06		13.04		82.34		
	01/08/09		15.41		79.97		
	11/04/09		15.74		79.64		
	11/22/11		17.36		78.02		
	11/06/13		14.95		80.43		
	08/27/14		14.75		80.63		
	01/15/15		14.04		81.34		
	06/23/15		14.01		81.37		
	07/18/16		13.97		81.41		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-31	09/23/04	96.05	13.88		82.17	20	10-20
	01/20/05		14.73		81.32		
	03/23/06		14.22		81.83		
	01/08/09		16.49		79.56		
	11/04/09		16.37		79.68		
	11/22/11		18.20		77.85		
	11/06/13		15.81		80.24		
	08/27/14		15.71		80.34		
	01/15/15		15.06		80.99		
	06/23/15		14.98		81.07		
	07/18/16		14.91		81.14		
MW-1A	01/21/05	97.20	13.46	0.09	83.82	Unknown	Unknown
	03/23/06		12.11		85.09		
	01/08/09		14.99		82.21		
	11/03/09		15.25	0.06	82.00		
	11/22/11		17.76	0.85	80.17		
	11/06/13		14.11	0.01	83.10		
	08/27/14		14.08		83.12		
	01/15/15		13.40		83.80		
	06/23/15		13.10		84.10		
	07/18/16		13.23		83.97		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-2A	01/21/05	97.30	13.63	0.28	83.91	Unknown	Unknown
	03/23/06		12.54	0.31	85.03		
	01/08/09		15.86	0.54	81.90		
	11/03/09		15.61	0.02	81.71		
	11/22/11		17.26		80.04		
	11/06/13		14.25	0.03	83.08		
	08/27/14		14.21		83.09		
	01/15/15		13.74		83.56		
	06/23/15		13.14		84.16		
	07/18/16		13.31		83.99		
MW-3A	01/21/05	97.27	13.46	0.22	84.00	Unknown	Unknown
	03/23/06		12.22	0.03	85.08		
	01/08/09		15.68	1.00	82.45		
	11/03/09		15.63	0.47	82.04		
	11/22/11		18.02	0.82	79.95		
	11/06/13		14.12	0.06	83.20		
	08/27/14		14.08		83.19		
	01/15/15		13.46		83.81		
	06/23/15		12.98		84.29		
	07/18/16		13.11		84.16		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-4A	01/21/05	98.09	13.06	0.02	85.05	Unknown	Unknown
	03/23/06		12.43		85.66		
	01/08/09		16.02	0.85	82.80		
	11/03/09		15.62	0.02	82.49		
	11/22/11		17.84	0.02	80.27		
	11/06/13		14.61		83.48		
	08/27/14		14.52		83.57		
	01/15/15		13.81		84.28		
	06/23/15		13.60		84.49		
	07/18/16		13.78		84.31		
TW-1	01/16/03	99.01	15.14		83.87	46	41-46
	02/09/04		14.81		84.20		
	09/23/04		13.16		85.85		
	01/21/05		14.39		84.62		
	03/23/06		13.35		85.66		
	01/08/09		15.97		83.04		
	11/04/09		16.84		82.17		
	11/22/11		18.76		80.25		
	11/06/13		15.76		83.25		
	08/27/14		15.54		83.47		
	01/15/15		14.31		84.70		
	06/23/15		14.68		84.33		
	07/18/16		14.84		84.17		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
TW-2	01/16/03	95.26	14.33		80.93	51	46-51
	02/09/04		13.58		81.68		
	09/23/04		11.98		83.28		
	01/21/05		13.07		82.19		
	03/23/06		12.10		83.16		
	01/08/09		14.52		80.74		
	11/04/09		15.01		80.25		
	11/22/11		16.63		78.63		
	11/06/13		14.19		81.07		
	08/27/14		13.97		81.29		
	01/15/15		13.14		82.12		
	06/23/15		13.12		82.14		
	07/18/16		13.17		82.09		

Notes:

- Elevations relative to a temporary benchmark with an assumed datum of 100.00 feet; data reported in feet.
- ** : If free product is present in a well, groundwater elevation calculated by: [Top of Casing Elevation - Depth to Water] + [free product thickness x 0.8581].
- NM: Not measured; monitoring well is destroyed, covered or could not be located.
- OBS: Monitoring well obstructed.
- Monitoring wells MW-1A through MW-4A were installed by S&ME Consultants in January 2000.
- Monitoring wells MW-16 and MW-17 were completed above grade with stand up covers; depths to ground water were measured from the tops of casing; well depths and screened intervals were measured from the ground surface.

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-1	01/17/03	**17,300**	**31,000**	**2,220**	**12,800**	**495**	**515**	-	**0.13**
	02/09/04	**11,400**	**19,600**	**1,010**	**12,000**	**395**	**525**	-	NR
	10/07/04	**4,160**	**7,500**	504	4,400	**348**	**290**	-	0.03
	01/21/05	**8,150**	**13,500**	**790**	7,170	**560**	<500	-	NR
	03/24/06	**7,800**	**11,800**	552	6,640	**833**	<100	-	NR
	01/07/09	**15,700**	**15,100**	**1,600**	**12,310**	**1,120**	**878**	<500	**0.092**
	11/04/09	**7,120**	**12,600**	**988**	6,940	<500	<500	<500	**0.056**
	11/23/11	**6,630**	**9,340**	664	4,300	**399**	**210 J**	<20	NR
	11/06/13	**4,870**	**8,550**	659	4,900	**125**	**165 J**	<22	NR
	08/27/14	**5,210**	**11,900**	**824**	6,010	**134 J**	**239 J**	<48	<0.0095
	01/16/15	**3,820**	**8,360**	641	4,760	**105**	**217 J**	<24	<0.0097
	06/24/15	**4,370**	**10,900**	**841**	6,320	**94.5 J**	**258 J**	<20	<0.0096
	07/19/16	**4,500**	**13,000**	**860**	6,720	**108 J**	**338 J**	<57	<0.0096
MW-1 DUP	11/06/13	**5,090**	**10,600**	687	4,830	**105 J**	<200	<44	NR
	08/27/14	**5,210**	**12,300**	**845**	6,140	**130 J**	**210 J**	<48	<0.0095
	01/16/15	**3,690**	**8,250**	623	4,860	**105**	**196 J**	<20	<0.0097
MW-2	01/17/03	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	02/09/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	10/07/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	01/21/05	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	03/24/06	**14,600**	**17,900**	**2,240**	**12,000**	**164**	**495**	**FP**	NR
	01/07/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/23/11	**20,100**	**23,800**	**1,810**	9,030	**89.8 J**	**413 J**	<50	NR
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	01/16/15	**3,920**	**3,910**	181	1,000	26.1 J	**69.9**	<12	**0.17**
	06/24/15	**5,560**	**11,400**	**1,040**	6,020	17.4 J	**239 J**	<10	**0.26**
	07/19/16	**12,700**	**33,900**	**4,280**	**27,300**	**57.1 J**	**1,560**	<71	**0.8**
MW-2 DUP (DUP A)	11/23/11	**20,600**	**24,500**	**2,030**	10,000	**92.5 J**	**620 J**	<50	NR
	07/19/16	**11,500**	**24,400**	**2,870**	**17,000**	<100	**1,060 J**	<140	**0.72**
MW-3	01/17/03	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	02/09/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	10/07/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	01/21/05	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	03/24/06	**54.6**	44.4	17.1	660	2.04	8	**FP**	NR
	01/07/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	3.7	6.9	6.0	44.2	<0.20	5.0	<0.24	<0.0096
	01/16/15	**27.4**	19.1	7.5	65.8	0.48 J	1.1 J	<0.24	<0.0094
	06/24/15	0.73 J	12.6	9.1	77.6	<0.30	5.7	<0.20	<0.0096
	07/19/16	**2,120**	**7,020**	**763**	4,140	**68.3 J**	**210 J**	<28	0.025

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-3 DUP B	06/24/15	0.24 J	14.2	16.1	112	<0.30	8.1	<0.20	<0.0095
MW-4	01/17/03	3.7	<1.0	1.8	7.2	<1.0	7.4	**FP**	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	**FP**	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	**FP**	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	**FP**	NR
	03/24/06	0.200J	<1.00	<1.00	1.44	0.340J	<1.00	**FP**	NR
	01/07/09	**5.9**	<5.0	<5.0	6.0	<5.0	8.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
	07/19/16	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	01/17/03	<1.0	<1.0	1.7	3.4	<1.0	7.1	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	0.350J	<1.00	<1.00	-	NR
	01/07/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	**0.066**
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	01/15/15	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
	07/19/16	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	01/17/03	<1.0	<1.0	1.9	3.8	<1.0	7	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/07/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0099

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-7	01/17/03	**70.3**	145	24.3	308	1.8	**25.7**	-	<0.02
	02/09/04	<1.0	11.4	60.2	441	<1.0	**40.7**	-	NR
	10/07/04	<1.0	1.1	2.4	25	<1.0	5.8	-	<0.02
	01/21/05	<1.0	<1.0	4.5	26.9	<1.0	17.5	-	NR
	03/24/06	<1.00	<1.00	<1.00	23.3	0.260J	9.62	-	NR
	01/07/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	12.2	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	0.62 J	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	0.41 J	<1.0	<0.24	<0.0096
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0098
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/19/16	<0.20	<0.20	<0.25	<0.56	0.31 J	<1.0	<0.28	<0.0099
MW-8	01/17/03	**1,480**	**11,800**	**1,930**	9,930	6.3	<500	-	<0.02
	02/09/04	**59**	**1,700**	424	2,380	<5.0	**96**	-	NR
	10/07/04	<1.0	3.2	7.4	71.1	<1.0	9	-	<0.02
	01/21/05	**12**	161	55.6	1,100	<1.0	**52.2**	-	NR
	03/24/06	4.19	24.1	118	1,070	<1.00	**102**	-	NR
	01/08/09	**16.8**	<5.0	<5.0	200.6	<5.0	18.5	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	12.8	<5.0	**34.7**	<5.0	<0.020
	11/22/11	**11.6**	1.3	8.1	7.0	<0.34	19.3	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	0.69 J	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0097
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0095
	07/19/16	4.5	<0.20	2.5	0.58 J	<0.20	2.4 J	<0.28	<0.0093
MW-8 DUP	11/06/13	0.33 J	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	01/15/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0097
MW-9	01/17/03	<1.0	<1.0	<1.0	<1.0	34	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	11.1	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	1.2	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	12.5	<5.00	-	NR
	03/24/06	<1.00	<1.00	0.270J	2.49	1.5	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/30/11	<0.20	<0.20	<0.20	<0.52	1.9	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	0.28 J	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0095
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0094

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		5	1,000	700	10,000	40	25	5	0.05
MW-10	01/17/03	<1.0	<1.0	<1.0	<1.0	1.5	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	0.490J	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/30/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0097
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0093
MW-11	01/17/03	<1.0	<1.0	<1.0	<1.0	1.6	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	23.7	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	5.1	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	0.250J	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
MW-12	01/17/03	<1.0	<1.0	<1.0	<1.0	2	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	01/15/15	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-13	01/17/03	<1.0	<1.0	<1.0	<1.0	**42.5**	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	**145**	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	6.3	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	**40.8**	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	11	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/30/11	<0.20	<0.20	<0.20	<0.52	2.4	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	0.22 J	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	3.5	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	9.8	<1.0	<0.24	<0.0094
	06/24/15	<0.20	<0.40	<0.20	<0.51	3.2	<1.0	<0.20	<0.0096
	07/19/16	<0.20	<0.20	<0.25	<0.56	2.8	<1.0	<0.28	<0.0092
MW-14	01/17/03	3.4	<1.0	<1.0	4.5	<1.0	10.9	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	**79.5**	16.7	4.8	26.8	5.8	8.7 J	<0.40	NR
	11/06/13	0.24 J	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/16/15	0.73 J	0.27 J	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/18/16	**23.2**	4.4	1.6	7.5	0.71 J	<1.0	<0.28	<0.0095
MW-15	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0098

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		5	1,000	700	10,000	40	25	5	0.05
MW-16	01/17/03	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	02/09/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	10/07/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	01/21/05	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	03/24/06	**14,600**	**20,300**	**2,080**	**11,800**	**536**	**1,080**	-	NR
	01/08/09	**2,660**	**6,520**	**930**	5,100	<25.0	**633**	<25.0	<0.020
	11/04/09	**18,500**	**33,300**	**2,880**	**16,300**	**454**	**928**	<250	**0.30**
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
	07/18/16	NS	NS	NS	NS	NS	NS	NS	NS
MW-17	01/17/03	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	-	**FP**
	02/09/04	<1.0	13.2	12.5	74.2	19	10.1	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	NS	NS	NS	NS	NS	NS	NS	NS
MW-18	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	**15.4**	5.5	<1.0	5.6	<1.0	<5.00	-	NR
	10/07/04	1.5	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	**19.2**	1.1	<1.0	7.1	<1.0	<5.00	-	NR
	03/24/06	**36.2**	1.27	<1.00	6.16	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
	07/18/16	NS	NS	NS	NS	NS	NS	NS	NS
MW-19	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	3.1	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0099
MW-19 DUP (DUP 1)	11/22/11	1.3	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-20	01/17/03	**1,520**	314	108	298	**80.4**	**26.3**	-	<0.02
	02/09/04	**3,220**	530	15.2	830	**78**	**61.2**	-	NR
	10/07/04	**90.2**	6.6	<1.0	19.8	**94.4**	<5.00	-	<0.02
	01/21/05	**1,120**	43.1	5.8	95.1	**73**	**36.9**	-	NR
	03/24/06	**44.9**	0.300J	0.310J	3.54	9.14	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	**9.5**	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	2.4	<0.20	<0.20	<0.52	6.2	<1.0	<0.20	NR
	11/06/13	**235**	<1.0	<1.5	<2.5	5.2	10.7 J	<1.1	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/15/15	4.5	0.35 J	<0.28	<0.66	**93.7**	<1.0	<0.24	<0.0095
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0095
	07/19/16	0.80 J	<0.20	0.34 J	<0.56	4.5	<1.0	<0.28	<0.010
MW-21	01/17/03	**269**	27.5	12	118	**42.6**	12.6	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	NS	NS	NS	NS	NS	NS	-	NS
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	**108**	4.5	<0.40	<1.0	8.7	<2.0	<0.40	NR
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	0.93 J	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0098
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0095
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0098
MW-22	01/17/03	**2,080**	281	279	576	**257**	**67.9**	-	<0.02
	02/09/04	**782**	49.2	41.4	77.5	**93.4**	15.8	-	NR
	10/07/04	**109**	11.3	3.2	19.5	**71.4**	<5.00	-	<0.02
	01/21/05	**3,980**	300	197	454	**67**	**112**	-	NR
	03/23/06	0.340J	<1.00	<1.00	<1.00	8.11	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	**60.0**	8.3	3.4	3.1	13.8	<1.0	<0.20	NR
	11/06/13	**574**	41.6	45.7	10.9 J	37.3	<10	<2.2	NR
	08/27/14	1.0	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/15/15	**312**	15.6	18.8	6.2	**134**	4.9 J	0.99 J	<0.0095
	06/23/15	1.3	<0.40	<0.20	<0.51	0.51 J	<1.0	<0.20	<0.0096
	07/18/16	**49.5**	12.7	3.6	1.6 J	**75.2**	3.2 J	0.48 J	<0.0094

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		5	1,000	700	10,000	40	25	5	0.05
MW-23	01/17/03	**27.6**	<1.0	<1.0	3.7	27.2	10.5	-	<0.02
	02/09/04	**1,760**	72	<1.0	592	**372**	17.2	-	NR
	10/07/04	**1,620**	103	<1.0	598	**286**	**46**	-	<0.02
	01/20/05	**1,670**	111	<1.0	578	**172**	19.9	-	NR
	03/23/06	**1,290**	44.1	<1.00	266	**168**	**38.4**	-	NR
	01/08/09	**574**	<5.0	<5.0	30.8	**65.2**	<5.0	<5.0	<0.019
	11/04/09	**1,250**	<25.0	<25.0	98.9	**152**	**31.0**	<25.0	<0.019
	11/22/11	**435**	<1.0	<1.0	<2.6	**140**	15.9 J	<1.0	NR
	11/06/13	**49.6**	2.8	<0.58	1.2 J	**98.6**	2.3 J	<0.44	NR
	08/27/14	**239**	16.4	<1.4	7.3 J	**239**	<5.0	<1.2	<0.0096
	01/15/15	**18.6**	<2.0	<2.8	<6.6	**161**	<10	<2.4	<0.0094
	06/23/15	1.9	<0.40	<0.20	<0.51	**102**	<1.0	<0.20	<0.0095
	07/18/16	0.87 J	<0.20	<0.25	<0.56	**45.6**	<1.0	<0.28	<0.0098
MW-24	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0095
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0099
MW-25	01/17/03	<1.0	<1.0	<1.0	<1.0	4.9	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	0.330J	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	1.8	<0.20	<0.29	<0.50	2.7	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0097
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0093

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-26	01/17/03	1.3	<1.0	<1.0	<1.0	4.7	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	0.86 J	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0098
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0093
MW-27	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	1.7	<5.00	-	NR
	03/23/06	0.320J	<1.00	<1.00	<1.00	3.95	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	**6.2**	<0.20	<0.20	0.61 J	2.4	<1.0	<0.20	NR
	11/06/13	0.27 J	<0.20	<0.29	<0.50	0.22 J	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/15/15	0.87 J	<0.20	<0.28	<0.66	1.3	<1.0	<0.24	<0.0097
	06/23/15	0.54 J	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/18/16	**5.1**	<0.20	<0.25	<0.56	0.68 J	<1.0	<0.28	<0.0097
MW-28	01/17/03	<1.0	<1.0	<1.0	<1.0	1.4	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	0.340 J	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	0.38 J	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	**0.26**
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0098

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		5	1,000	700	10,000	40	25	5	0.05
MW-29	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0097
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0098
MW-30	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	11.0	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0094
MW-31	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0095

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		5	1,000	700	10,000	40	25	5	0.05
MW-1A	01/21/05	FP	FP	FP	FP	FP	FP	FP	FP
	03/24/06	20,700	30,600	3,310	17,600	1,880	891	-	NR
	01/08/09	14,300	29,300	8,930	48,800	1,250	6,060	<500	0.066
	11/03/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/22/11	FP	FP	FP	FP	FP	FP	FP	FP
	11/06/13	FP	FP	FP	FP	FP	FP	FP	FP
	08/27/14	140	417	42.7	590	4.4 J	155	<1.2	<0.0097
	01/15/15	1,040	4,950	583	5,130	78.8	474	<1.2	<0.0096
	06/24/15	6,460	16,400	2,060	13,600	123	1,180	<10	0.12
	07/19/16	2,210	3,390	170	2,570	117	227 J	<14	0.011 J
MW-2A	01/21/05	FP	FP	FP	FP	FP	FP	FP	FP
	03/23/06	FP	FP	FP	FP	FP	FP	FP	FP
	01/08/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/03/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/30/11	260	517	37.3	491	<3.4	70.4	<2.0	NR
	11/06/13	FP	FP	FP	FP	FP	FP	FP	FP
	08/27/14	17,000	30,600	2,420	15,700	232 J	1,270 J	<60	<0.0093
	01/15/15	17,900	20,900	1,680	8,520	281	571 J	<60	0.12
	06/24/15	9,680	19,000	1,600	9,370	<75	962 J	<50	0.083
	07/19/16	17,500	35,200	1,780	10,200	<100	574 J	<140	0.20
MW-2A DUP (DUP B)	08/27/14	17,500	31,000	2,310	14,500	250 J	695 J	<120	0.19
	07/19/16	17,200	35,400	1,910	10,900	104 J	758 J	<140	0.20
MW-3A	01/21/05	FP	FP	FP	FP	FP	FP	FP	FP
	03/23/06	FP	FP	FP	FP	FP	FP	FP	FP
	01/08/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/03/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/22/11	FP	FP	FP	FP	FP	FP	FP	FP
	11/06/13	FP	FP	FP	FP	FP	FP	FP	FP
	08/27/14	15,700	38,900	2,430	15,300	<100	873 J	<120	0.17
	01/15/15	2,930	8,310	875	8,780	<20	556	<24	0.029
	06/24/15	11,400	35,000	3,220	18,400	37.8 J	1,540	<20	0.18
	07/19/16	11,400	48,200	3,940	22,500	<200	2,080 J	<280	0.22
MW-4A	01/21/05	FP	FP	FP	FP	FP	FP	FP	FP
	03/24/06	19,600	34,800	3,900	21,500	247	952	NR	NR
	01/08/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/03/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/22/11	FP	FP	FP	FP	FP	FP	FP	FP
	11/06/13	7,250	30,200	2,050	12,700	<110	627 J	<110	NR
	08/27/14	6,890	27,700	1,680	16,300	<50	561 J	<60	0.13
	01/15/15	2,300	11,500	1,010	12,300	50.9 J	511 J	<48	0.052
	06/24/15	7,680	33,800	2,000	17,400	<60	840 J	<40	0.10
	07/19/16	7,280	28,500	1,650	13,000	<100	613 J	<140	0.10
MW-4A DUP A	06/24/15	8,140	37,100	2,460	19,900	7.4	867 J	1.6	0.16

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		5	1,000	700	10,000	40	25	5	0.05
TW-1	01/17/03	**25.5**	46.6	6.9	19.8	<1.0	9.3	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/23/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/28/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0094
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0097
TW-2	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	11.7	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	**7.22**	<1.00	<1.00	<1.00	1.7	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	**7.0**	<0.20	<0.20	<0.52	1.0	<1.0	<0.20	NR
	11/06/13	4.7	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	0.26 J	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	06/23/15	0.96 J	<0.40	<0.20	<0.51	0.40 J	<1.0	<0.20	<0.0095
	07/18/16	**8.7**	<0.20	<0.25	<0.56	0.47 J	<1.0	<0.28	<0.0092
WSW-1	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/28/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0093
WSW-2	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	06/23/15	NS	NS	NS	NS	NS	NS	NS	NS
	07/19/16	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
WSW-3	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/28/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0097
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0097
FIELD BLANK	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	0.21 J	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0097
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0096
TRIP BLANK	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	NR
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	NR
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	NR

Notes:

- Analyses for selected volatile organic compounds by EPA Method 8260B; lead by EPA Method 6010B or 200.7; and EDB Method 8011; results reported in µg/l.
- RBSL: May 2001 Risk Based Screening Level.
- Concentrations in bold face type exceeded the RBSL.
- <: Less than the report limit specified in the laboratory report.
- NS: Not sampled.
- NR: Analysis not requested.
- I or J: Estimated value.
- FP: Free product.

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-1	03/24/06	<50.0	**5,030**	<5,000	<50.0	**35,000**	<50.0	1,280	<1,000
	11/04/09	<500	<10,000	<20,000	<1,000	**10,200**	<1,000	<10,000	<5,000
	11/23/11	<35	<2,500	<2,500	<31	**24,100**	<39	<300	<500
	11/06/13	<25	<2,000	<2,100	<55	**7,700**	<49	<470	<500
	08/27/14	<45	<760	<4,600	<40	**10,600**	<44	<1,800	<810
	01/16/15	<23	<380	<2300	<20	**12,200**	<22	<880	<400
	06/24/15	<20	<1000	<3500	<20	**9,000**	<22	<540	<400
	07/19/16	<45	<2,000	<10,000	<44	**10,200**	<40	<1,800	<1,000
MW-1 DUP	11/06/13	<51	<4,000	<4,200	<110	**7,020**	<97	<950	<1,000
	08/27/14	<45	<760	<4,600	<40	**8,960**	<44	<1,800	<810
	01/16/15	<20	<1,000	<3,500	<20	**12,300**	<22	<540	<400
MW-2	03/24/06	<50.0	**4,620**	<5,000	<50.0	**25,700**	54	1,020	<1,000
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/23/11	<88	<6,300	<6,300	<78	**37,800**	<98	<750	<1,300
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	01/16/15	<11	<190	<1,200	<10	**5,830**	<11	<440	<200
	06/24/15	<10	<500	<1800	<10	**7,070**	<11	<270	<200
	07/19/16	<57	<2,500	<13,000	<55	**20,700**	<50	<2,300	<1,300
MW-2 DUP (DUP A)	11/23/11	<88	<6,300	<6,300	<78	**37,000**	<98	<750	<1,300
	07/19/16	<110	<5,000	<25,000	<110	**18,300**	<100	<4,500	<2,500

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-3	03/24/06	<1.00	**99.1**	<100	<1.00	223	<1.00	26.7	<20.0
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	23.9	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<23	<1,000	<5,000	<22	**6,420**	<20	<910	<500
MW-3 DUP B	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
MW-4	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	01/15/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
	07/19/16	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-5	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	01/15/15	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	11/03/09	<5.0	**115**	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
MW-7	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-8	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	11.2 J	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
MW-8 DUP	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	01/15/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
MW-9	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/30/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
MW-10	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/30/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
MW-11	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
MW-12	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS

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SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-13	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/30/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	0.96 J	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	5.1	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	1.9 J	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	0.39 J	<9.1	<5.0
MW-14	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.70	<50	<50	<0.62	**450**	<0.78	<6.0	<10
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	36.5	<0.20	<9.1	<5.0
MW-15	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
MW-16	03/24/06	<50.0	**5,140**	<5,000	<50.0	**34,600**	72.5	**1,560**	<1,000
	11/04/09	<250	<5,000	<10,000	<500	**45,400**	<500	<5,000	<2,500
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS

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SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-18	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	19.2 J	<0.39	<3.0	<5.0
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
MW-19	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	5.6 J	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
MW-19 DUP (DUP 1)	11/22/11	<0.35	<25	<25	<0.31	12.5 J	<0.39	<3.0	<5.0
MW-20	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	151	<0.39	9.3 J	<5.0
	11/06/13	<1.3	<100	<110	<2.8	**567**	<2.4	<24	<25
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	1.6	<3.8	<23	1.9 J	**1,880**	3.6	105	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	77.7	<0.20	<9.1	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-21	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.70	<50	<50	<0.62	**343**	1.1 J	25.0 J	<10
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
MW-22	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	0.60 J	**1,370**	3.6	45.3	<5.0
	11/06/13	<2.5	<200	<210	<5.5	**2,000**	8.9 J	50.3 J	<50
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	3.7	<3.8	<23	6.6	**8,180**	22.6	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	8.5 J	<0.22	<5.4	<4.0
	07/18/16	1.6	<10	<50	2.2	**2,730**	10.3	143	<5.0
MW-23	11/04/09	<25.0	<500	<1,000	<50.0	**1,490**	<50.0	<500	<250
	11/22/11	<1.8	<130	<130	<1.6	**3,200**	9.7 J	<15	<25
	11/06/13	1.5 J	<40	<42	2.0 J	**2,700**	8.8	214	<10
	08/27/14	3.4 J	<19	<120	6.2 J	**8,040**	28.7	<44	<20
	01/15/15	2.9 J	<38	<230	4.5 J	**4,730**	19.3 J	339	<40
	06/23/15	2.1	<10	<35	3.2	**3,030**	14.7	<5.4	<4.0
	07/18/16	0.97 J	<10	<50	1.2 J	**1,330**	5.5	<9.1	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-24	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
MW-25	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
MW-26	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-27	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	43.2	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	11.5 J	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	17.6 J	<0.20	<9.1	<5.0
MW-28	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
MW-29	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-30	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
MW-31	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
MW-1A	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	<1.1	<19	<120	<1.0	**2,150**	5.3 J	<44	<20
	01/15/15	2.1 J	<19	<120	3.3 J	**11,900**	12.2	386	<20
	06/24/15	18.7 J	<500	<1,800	<10	**44,000**	**130**	1,080	<200
	07/19/16	<11	<500	<2,500	<11	**24,000**	36.9 J	<450	<250

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-2A	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/30/11	<3.5	<250	<250	<3.1	83.3 J	<3.9	<30	<50
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	<57	<950	<5,800	<50	**65,500**	110 J	<2,200	<1,000
	01/15/15	<57	<950	<5,800	<50	**60,900**	103 J	<2,200	<1,000
	06/24/15	<50	<2,500	<8,800	<50	**43,500**	64.2 J	<1,400	<1,000
	07/19/16	<110	<5,000	<25,000	<110	**44,800**	<100	<4,500	<2,500
MW-2A DUP (DUP B)	08/27/14	<110	<1,900	<12,000	<100	**63,000**	<110	<4,400	<2,000
	07/19/16	<110	<5,000	<25,000	<110	**44,900**	<100	<4,500	<2,500
MW-3A	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	<110	<1,900	<12,000	<100	**24,900**	<110	<4,400	<2,000
	01/15/15	<23	<380	<2,300	<20	**1,690 J**	<22	<880	<400
	06/24/15	<20	<1,000	<3,500	<20	**38,100**	28.4 J	1,060 J	<400
	07/19/16	<230	<10,000	<50,000	<220	<6,000	<200	<9,100	<5,000

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-4A	11/04/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	<130	<10,000	<11,000	<280	**6,280**	<240	<2,400	<2,500
	08/27/14	<57	<950	<5,800	<50	**5,990**	<55	<2,200	<1,000
	01/15/15	<45	<760	<4,600	<40	**2,110 J**	<44	<1,800	<810
	06/24/15	<40	<2,000	<7,000	<40	**3,950 J**	<44	<1,100	<800
	07/19/16	<110	<5,000	<25,000	<110	**3,160 J**	<100	<4,500	<2,500
MW-4A DUP A	06/24/15	<0.20	<10	<35	6.1	**4,840**	22.6	<5.4	<4.0
TW-1	03/24/06	<1.00	<10.0	<100	<1.00	<20.0	<1.00	<20.0	<20.0
	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/23/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/28/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
TW-2	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	15.9 J	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	10.6 J	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	20.1	<0.20	<9.1	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
WSW-1	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/28/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
WSW-3	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/28/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
FIELD BLANK	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
TRIP BLANK	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0

Notes:

- Analyses for oxygenates by Method 8260B; results reported in µg/l.
- <: Less than the report limit specified in the laboratory report.
- Bold indicates analyte reported above the method detection limit.
- FP: Free Product.
- Concentrations in bold face type exceeded the Action Level.

APPENDICES

APPENDIX A

Laboratory Analytical Report – Ground Water Samples

SGS ACCUTEST
Southeast

07/29/16

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

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Automated Report



Technical Report for

GRI (Geological Resources Inc.)

Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

18686/1543

SGS Accutest Job Number: FA35533

Sampling Dates: 07/18/16 - 07/19/16

Report to:

GRI
3502 Hayes Rd
Monroe, NC 28110
wsb@geologicalresourcesinc.com; carriekennedy@geologicalresourcesinc.com; jjr@geologicalresourcesinc.com; nml@geologicalresourcesinc.com
ATTN: Scott Ball

Total number of pages in report: 112

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.

Norm Farmer
Technical Director

Client Service contact: Muna Mohammed 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Test results relate only to samples analyzed.

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Sample Summary

GRI (Geological Resources Inc.)

Job No: FA35533

Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Project No: 18686/1543

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA35533-1	07/19/16	09:38	CBZC	07/20/16	AQ	Ground Water	18686-MW-1
FA35533-2	07/19/16	10:01	CBZC	07/20/16	AQ	Ground Water	18686-MW-2
FA35533-3	07/19/16	09:24	CBZC	07/20/16	AQ	Ground Water	18686-MW-3
FA35533-4	07/19/16	09:26	CBZC	07/20/16	AQ	Ground Water	18686-MW-6
FA35533-5	07/19/16	09:09	CBZC	07/20/16	AQ	Ground Water	18686-MW-7
FA35533-6	07/19/16	11:32	CBZC	07/20/16	AQ	Ground Water	18686-MW-8
FA35533-7	07/19/16	11:00	CBZC	07/20/16	AQ	Ground Water	18686-MW-9
FA35533-8	07/19/16	10:39	CBZC	07/20/16	AQ	Ground Water	18686-MW-10
FA35533-9	07/19/16	11:26	CBZC	07/20/16	AQ	Ground Water	18686-MW-13
FA35533-10	07/18/16	17:48	CBZC	07/20/16	AQ	Ground Water	18686-MW-14
FA35533-11	07/18/16	17:38	CBZC	07/20/16	AQ	Ground Water	18686-MW-15
FA35533-12	07/19/16	12:57	CBZC	07/20/16	AQ	Ground Water	18686-MW-19
FA35533-13	07/19/16	13:11	CBZC	07/20/16	AQ	Ground Water	18686-MW-20

Sample Summary
(continued)

GRI (Geological Resources Inc.)

Job No: FA35533

Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Project No: 18686/1543

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA35533-14	07/18/16	15:44	CBZC	07/20/16	AQ	Ground Water	18686-MW-21
FA35533-15	07/18/16	17:07	CBZC	07/20/16	AQ	Ground Water	18686-MW-22
FA35533-16	07/18/16	14:48	CBZC	07/20/16	AQ	Ground Water	18686-MW-23
FA35533-17	07/18/16	13:50	CBZC	07/20/16	AQ	Ground Water	18686-MW-24
FA35533-18	07/18/16	16:16	CBZC	07/20/16	AQ	Ground Water	18686-MW-25
FA35533-19	07/18/16	16:48	CBZC	07/20/16	AQ	Ground Water	18686-MW-26
FA35533-20	07/18/16	17:03	CBZC	07/20/16	AQ	Ground Water	18686-MW-27
FA35533-21	07/18/16	15:29	CBZC	07/20/16	AQ	Ground Water	18686-MW-28
FA35533-22	07/18/16	15:20	CBZC	07/20/16	AQ	Ground Water	18686-MW-29
FA35533-23	07/18/16	14:16	CBZC	07/20/16	AQ	Ground Water	18686-MW-30
FA35533-24	07/18/16	14:12	CBZC	07/20/16	AQ	Ground Water	18686-MW-31
FA35533-25	07/19/16	12:18	CBZC	07/20/16	AQ	Ground Water	18686-MW-1A
FA35533-26	07/19/16	11:54	CBZC	07/20/16	AQ	Ground Water	18686-MW-2A

Sample Summary
(continued)

GRI (Geological Resources Inc.)

Job No: FA35533

Tisdale' s Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Project No: 18686/1543

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA35533-27	07/19/16	12:39	CBZC	07/20/16	AQ	Ground Water	18686-MW-3A
FA35533-28	07/19/16	11:58	CBZC	07/20/16	AQ	Ground Water	18686-MW-4A
FA35533-29	07/19/16	10:14	CBZC	07/20/16	AQ	Ground Water	18686-TW-1
FA35533-30	07/18/16	16:30	CBZC	07/20/16	AQ	Ground Water	18686-TW-2
FA35533-31	07/19/16	13:50	CBZC	07/20/16	AQ	Ground Water	18686-WSW-1
FA35533-32	07/19/16	13:41	CBZC	07/20/16	AQ	Ground Water	18686-WSW-3
FA35533-33	07/19/16	00:00	CBZC	07/20/16	AQ	Ground Water	18686-DUP-A
FA35533-34	07/19/16	00:00	CBZC	07/20/16	AQ	Ground Water	18686-DUP-B
FA35533-35	07/19/16	13:21	CBZC	07/20/16	AQ	Field Blank Water	18686-FIELD BLANK
FA35533-36	07/19/16	00:00	CBZC	07/20/16	AQ	Trip Blank Water	18686-TRIP BLANK

Summary of Hits

2

Job Number: FA35533
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 07/18/16 thru 07/19/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA35533-1	**18686-MW-1**					
Benzene		4500	200	41	ug/l	SW846 8260B
Toluene		13000	200	40	ug/l	SW846 8260B
Ethylbenzene		860	200	50	ug/l	SW846 8260B
Xylene (total)		6720	600	110	ug/l	SW846 8260B
Methyl Tert Butyl Ether		108 J	200	40	ug/l	SW846 8260B
Naphthalene		338 J	1000	200	ug/l	SW846 8260B
Tert-Amyl Alcohol		10200	4000	1200	ug/l	SW846 8260B
FA35533-2	**18686-MW-2**					
Benzene		12700	250	51	ug/l	SW846 8260B
Toluene		33900	500	100	ug/l	SW846 8260B
Ethylbenzene		4280	250	63	ug/l	SW846 8260B
Xylene (total)		27300	750	140	ug/l	SW846 8260B
Methyl Tert Butyl Ether		57.1 J	250	50	ug/l	SW846 8260B
Naphthalene		1560	1300	250	ug/l	SW846 8260B
Tert-Amyl Alcohol		20700	5000	1500	ug/l	SW846 8260B
1,2-Dibromoethane [a]		0.80	0.040	0.020	ug/l	SW846 8011
FA35533-3	**18686-MW-3**					
Benzene		2120	100	20	ug/l	SW846 8260B
Toluene		7020	100	20	ug/l	SW846 8260B
Ethylbenzene		763	100	25	ug/l	SW846 8260B
Xylene (total)		4140	300	56	ug/l	SW846 8260B
Methyl Tert Butyl Ether		68.3 J	100	20	ug/l	SW846 8260B
Naphthalene		210 J	500	100	ug/l	SW846 8260B
Tert-Amyl Alcohol		6420	2000	600	ug/l	SW846 8260B
1,2-Dibromoethane [b]		0.025	0.020	0.0099	ug/l	SW846 8011
FA35533-4	**18686-MW-6**					
No hits reported in this sample.						
FA35533-5	**18686-MW-7**					
Methyl Tert Butyl Ether		0.31 J	1.0	0.20	ug/l	SW846 8260B
FA35533-6	**18686-MW-8**					
Benzene		4.5	1.0	0.20	ug/l	SW846 8260B
Ethylbenzene		2.5	1.0	0.25	ug/l	SW846 8260B
Xylene (total)		0.58 J	3.0	0.56	ug/l	SW846 8260B

Summary of Hits

Job Number: FA35533
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 07/18/16 thru 07/19/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Naphthalene		2.4 J	5.0	1.0	ug/l	SW846 8260B
FA35533-7	**18686-MW-9**					
No hits reported in this sample.						
FA35533-8	**18686-MW-10**					
No hits reported in this sample.						
FA35533-9	**18686-MW-13**					
Methyl Tert Butyl Ether		2.8	1.0	0.20	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		0.39 J	2.0	0.20	ug/l	SW846 8260B
FA35533-10	**18686-MW-14**					
Benzene		23.2	1.0	0.20	ug/l	SW846 8260B
Toluene		4.4	1.0	0.20	ug/l	SW846 8260B
Ethylbenzene		1.6	1.0	0.25	ug/l	SW846 8260B
Xylene (total)		7.5	3.0	0.56	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.71 J	1.0	0.20	ug/l	SW846 8260B
Tert-Amyl Alcohol		36.5	20	6.0	ug/l	SW846 8260B
FA35533-11	**18686-MW-15**					
No hits reported in this sample.						
FA35533-12	**18686-MW-19**					
No hits reported in this sample.						
FA35533-13	**18686-MW-20**					
Benzene		0.80 J	1.0	0.20	ug/l	SW846 8260B
Ethylbenzene		0.34 J	1.0	0.25	ug/l	SW846 8260B
Methyl Tert Butyl Ether		4.5	1.0	0.20	ug/l	SW846 8260B
Tert-Amyl Alcohol		77.7	20	6.0	ug/l	SW846 8260B
FA35533-14	**18686-MW-21**					
No hits reported in this sample.						

Summary of Hits

Job Number: FA35533
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 07/18/16 thru 07/19/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA35533-15	**18686-MW-22**					
Benzene		49.5	1.0	0.20	ug/l	SW846 8260B
Toluene		12.7	1.0	0.20	ug/l	SW846 8260B
Ethylbenzene		3.6	1.0	0.25	ug/l	SW846 8260B
Xylene (total)		1.6 J	3.0	0.56	ug/l	SW846 8260B
Methyl Tert Butyl Ether		75.2	1.0	0.20	ug/l	SW846 8260B
Naphthalene		3.2 J	5.0	1.0	ug/l	SW846 8260B
1,2-Dichloroethane		0.48 J	1.0	0.28	ug/l	SW846 8260B
Di-Isopropyl Ether		1.6	1.0	0.23	ug/l	SW846 8260B
Ethyl Tert Butyl Ether		2.2	2.0	0.22	ug/l	SW846 8260B
Tert-Amyl Alcohol		2730	100	30	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		10.3	2.0	0.20	ug/l	SW846 8260B
Tert-Butyl Alcohol		143	20	9.1	ug/l	SW846 8260B
FA35533-16	**18686-MW-23**					
Benzene		0.87 J	1.0	0.20	ug/l	SW846 8260B
Methyl Tert Butyl Ether		45.6	1.0	0.20	ug/l	SW846 8260B
Di-Isopropyl Ether		0.97 J	1.0	0.23	ug/l	SW846 8260B
Ethyl Tert Butyl Ether		1.2 J	2.0	0.22	ug/l	SW846 8260B
Tert-Amyl Alcohol		1330	100	30	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		5.5	2.0	0.20	ug/l	SW846 8260B
FA35533-17	**18686-MW-24**					
No hits reported in this sample.						
FA35533-18	**18686-MW-25**					
No hits reported in this sample.						
FA35533-19	**18686-MW-26**					
No hits reported in this sample.						
FA35533-20	**18686-MW-27**					
Benzene		5.1	1.0	0.20	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.68 J	1.0	0.20	ug/l	SW846 8260B
Tert-Amyl Alcohol		17.6 J	20	6.0	ug/l	SW846 8260B
FA35533-21	**18686-MW-28**					
No hits reported in this sample.						

Summary of Hits

Job Number: FA35533
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 07/18/16 thru 07/19/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA35533-22	**18686-MW-29**					
No hits reported in this sample.						
FA35533-23	**18686-MW-30**					
No hits reported in this sample.						
FA35533-24	**18686-MW-31**					
No hits reported in this sample.						
FA35533-25	**18686-MW-1A**					
Benzene		2210	50	10	ug/l	SW846 8260B
Toluene		3390	50	10	ug/l	SW846 8260B
Ethylbenzene		170	50	13	ug/l	SW846 8260B
Xylene (total)		2570	150	28	ug/l	SW846 8260B
Methyl Tert Butyl Ether		117	50	10	ug/l	SW846 8260B
Naphthalene		227 J	250	50	ug/l	SW846 8260B
Tert-Amyl Alcohol		24000	1000	300	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		36.9 J	100	10	ug/l	SW846 8260B
1,2-Dibromoethane [b]		0.011 J	0.018	0.0091	ug/l	SW846 8011
FA35533-26	**18686-MW-2A**					
Benzene		17500	500	100	ug/l	SW846 8260B
Toluene		35200	500	100	ug/l	SW846 8260B
Ethylbenzene		1780	500	130	ug/l	SW846 8260B
Xylene (total)		10200	1500	280	ug/l	SW846 8260B
Naphthalene		574 J	2500	500	ug/l	SW846 8260B
Tert-Amyl Alcohol		44800	10000	3000	ug/l	SW846 8260B
1,2-Dibromoethane [b]		0.20	0.020	0.0098	ug/l	SW846 8011
FA35533-27	**18686-MW-3A**					
Benzene		11400	1000	200	ug/l	SW846 8260B
Toluene		48200	1000	200	ug/l	SW846 8260B
Ethylbenzene		3940	1000	250	ug/l	SW846 8260B
Xylene (total)		22500	3000	560	ug/l	SW846 8260B
Naphthalene		2080 J	5000	1000	ug/l	SW846 8260B
1,2-Dibromoethane [b]		0.22	0.019	0.0097	ug/l	SW846 8011

Summary of Hits

Job Number: FA35533
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 07/18/16 thru 07/19/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA35533-28	**18686-MW-4A**					
Benzene		7280	500	100	ug/l	SW846 8260B
Toluene		28500	500	100	ug/l	SW846 8260B
Ethylbenzene		1650	500	130	ug/l	SW846 8260B
Xylene (total)		13000	1500	280	ug/l	SW846 8260B
Naphthalene		613 J	2500	500	ug/l	SW846 8260B
Tert-Amyl Alcohol		3160 J	10000	3000	ug/l	SW846 8260B
1,2-Dibromoethane [b]		0.10	0.019	0.0094	ug/l	SW846 8011
FA35533-29	**18686-TW-1**					
No hits reported in this sample.						
FA35533-30	**18686-TW-2**					
Benzene		8.7	1.0	0.20	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.47 J	1.0	0.20	ug/l	SW846 8260B
Tert-Amyl Alcohol		20.1	20	6.0	ug/l	SW846 8260B
FA35533-31	**18686-WSW-1**					
No hits reported in this sample.						
FA35533-32	**18686-WSW-3**					
No hits reported in this sample.						
FA35533-33	**18686-DUP-A**					
Benzene		11500	500	100	ug/l	SW846 8260B
Toluene		24400	500	100	ug/l	SW846 8260B
Ethylbenzene		2870	500	130	ug/l	SW846 8260B
Xylene (total)		17000	1500	280	ug/l	SW846 8260B
Naphthalene		1060 J	2500	500	ug/l	SW846 8260B
Tert-Amyl Alcohol		18300	10000	3000	ug/l	SW846 8260B
1,2-Dibromoethane [a]		0.72	0.039	0.019	ug/l	SW846 8011
FA35533-34	**18686-DUP-B**					
Benzene		17200	500	100	ug/l	SW846 8260B
Toluene		35400	500	100	ug/l	SW846 8260B
Ethylbenzene		1910	500	130	ug/l	SW846 8260B
Xylene (total)		10900	1500	280	ug/l	SW846 8260B
Methyl Tert Butyl Ether		104 J	500	100	ug/l	SW846 8260B

Summary of Hits

Job Number: FA35533
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 07/18/16 thru 07/19/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Naphthalene		758 J	2500	500	ug/l	SW846 8260B
Tert-Amyl Alcohol		44900	10000	3000	ug/l	SW846 8260B
1,2-Dibromoethane [b]		0.20	0.020	0.0098	ug/l	SW846 8011

FA35533-35 18686-FIELD BLANK

No hits reported in this sample.

FA35533-36 18686-TRIP BLANK

No hits reported in this sample.

(a) All hits confirmed by dual column analysis. Dilution required due to matrix interference.
(b) All hits confirmed by dual column analysis.

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	18686-MW-1		
Lab Sample ID:	FA35533-1	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978225.D	200	07/22/16	MM	n/a	n/a	VJ5377
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4500	200	41	ug/l	
108-88-3	Toluene	13000	200	40	ug/l	
100-41-4	Ethylbenzene	860	200	50	ug/l	
1330-20-7	Xylene (total)	6720	600	110	ug/l	
1634-04-4	Methyl Tert Butyl Ether	108	200	40	ug/l	J
91-20-3	Naphthalene	338	1000	200	ug/l	J
107-06-2	1,2-Dichloroethane	ND	200	57	ug/l	
108-20-3	Di-Isopropyl Ether	ND	200	45	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	10000	2000	ug/l	
64-17-5	Ethyl Alcohol	ND	40000	10000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	400	44	ug/l	
75-85-4	Tert-Amyl Alcohol	10200	4000	1200	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	400	40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	4000	1800	ug/l	
762-75-4	Tert-Butyl Formate	ND	4000	1000	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686-MW-1		
Lab Sample ID:	FA35533-1	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88407.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-2		
Lab Sample ID:	FA35533-2	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978226.D	250	07/22/16	MM	n/a	n/a	VJ5377
Run #2	J0978254.D	500	07/23/16	MM	n/a	n/a	VJ5378

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	12700	250	51	ug/l	
108-88-3	Toluene	33900 [a]	500	100	ug/l	
100-41-4	Ethylbenzene	4280	250	63	ug/l	
1330-20-7	Xylene (total)	27300	750	140	ug/l	
1634-04-4	Methyl Tert Butyl Ether	57.1	250	50	ug/l	J
91-20-3	Naphthalene	1560	1300	250	ug/l	
107-06-2	1,2-Dichloroethane	ND	250	71	ug/l	
108-20-3	Di-Isopropyl Ether	ND	250	57	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	13000	2500	ug/l	
64-17-5	Ethyl Alcohol	ND	50000	13000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	500	55	ug/l	
75-85-4	Tert-Amyl Alcohol	20700	5000	1500	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	500	50	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	5000	2300	ug/l	
762-75-4	Tert-Butyl Formate	ND	5000	1300	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%	92%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	92%	79-125%
2037-26-5	Toluene-D8	103%	107%	85-112%
460-00-4	4-Bromofluorobenzene	92%	92%	83-118%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-2		
Lab Sample ID:	FA35533-2	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD88465.D	2	07/27/16	NG	07/25/16	OP61209	GDD2609
Run #2							

	Initial Volume	Final Volume
Run #1	35.1 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.80	0.040	0.020	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		63-137%

(a) All hits confirmed by dual column analysis. Dilution required due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-3		
Lab Sample ID:	FA35533-3	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978227.D	100	07/22/16	MM	n/a	n/a	VJ5377
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2120	100	20	ug/l	
108-88-3	Toluene	7020	100	20	ug/l	
100-41-4	Ethylbenzene	763	100	25	ug/l	
1330-20-7	Xylene (total)	4140	300	56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	68.3	100	20	ug/l	J
91-20-3	Naphthalene	210	500	100	ug/l	J
107-06-2	1,2-Dichloroethane	ND	100	28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	100	23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	5000	1000	ug/l	
64-17-5	Ethyl Alcohol	ND	20000	5000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	200	22	ug/l	
75-85-4	Tert-Amyl Alcohol	6420	2000	600	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	200	20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	2000	910	ug/l	
762-75-4	Tert-Butyl Formate	ND	2000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686-MW-3		
Lab Sample ID:	FA35533-3	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD88467.D	1	07/27/16	NG	07/25/16	OP61209	GDD2609
Run #2							

	Initial Volume	Final Volume
Run #1	35.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.025	0.020	0.0099	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	109%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686-MW-6		
Lab Sample ID:	FA35533-4	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978213.D	1	07/22/16	MM	n/a	n/a	VJ5377
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686-MW-6		
Lab Sample ID:	FA35533-4	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88412.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	35.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.0099	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	113%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-7		
Lab Sample ID:	FA35533-5	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978214.D	1	07/22/16	MM	n/a	n/a	VJ5377
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.31	1.0	0.20	ug/l	J
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686-MW-7		
Lab Sample ID:	FA35533-5	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88413.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	35.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.0099	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	111%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686-MW-8		
Lab Sample ID:	FA35533-6	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978215.D	1	07/22/16	MM	n/a	n/a	VJ5377
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4.5	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	2.5	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	0.58	3.0	0.56	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	2.4	5.0	1.0	ug/l	J
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686-MW-8		
Lab Sample ID:	FA35533-6	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88416.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	37.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0093	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	111%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686-MW-9		
Lab Sample ID:	FA35533-7	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978216.D	1	07/22/16	MM	n/a	n/a	VJ5377
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686-MW-9		
Lab Sample ID:	FA35533-7	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88417.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	37.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	118%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-10		
Lab Sample ID:	FA35533-8	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978217.D	1	07/22/16	MM	n/a	n/a	VJ5377
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-10		
Lab Sample ID:	FA35533-8	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88418.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	37.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0093	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-13		
Lab Sample ID:	FA35533-9	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978218.D	1	07/22/16	MM	n/a	n/a	VJ5377
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.8	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	0.39	2.0	0.20	ug/l	J
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686-MW-13		
Lab Sample ID:	FA35533-9	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88419.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	38.1 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.018	0.0092	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-14		
Lab Sample ID:	FA35533-10	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978219.D	1	07/22/16	MM	n/a	n/a	VJ5377
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	23.2	1.0	0.20	ug/l	
108-88-3	Toluene	4.4	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	1.6	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	7.5	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.71	1.0	0.20	ug/l	J
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	36.5	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-14		
Lab Sample ID:	FA35533-10	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88420.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	36.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	111%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-15		
Lab Sample ID:	FA35533-11	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978220.D	1	07/22/16	MM	n/a	n/a	VJ5377
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-15		
Lab Sample ID:	FA35533-11	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88421.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	35.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.0098	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-19		
Lab Sample ID:	FA35533-12	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978241.D	1	07/23/16	MM	n/a	n/a	VJ5378
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-19		
Lab Sample ID:	FA35533-12	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88422.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	35.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.0099	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-20		
Lab Sample ID:	FA35533-13	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978222.D	1	07/22/16	MM	n/a	n/a	VJ5377
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.80	1.0	0.20	ug/l	J
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	0.34	1.0	0.25	ug/l	J
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4.5	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	77.7	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	18686-MW-20		
Lab Sample ID:	FA35533-13	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88423.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	35.1 ml	2.0 ml
Run #2		

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	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-21		
Lab Sample ID:	FA35533-14	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978223.D	1	07/22/16	MM	n/a	n/a	VJ5377
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-21		
Lab Sample ID:	FA35533-14	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88424.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	35.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.0098	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-22		
Lab Sample ID:	FA35533-15	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978224.D	1	07/22/16	MM	n/a	n/a	VJ5377
Run #2	J0978277.D	5	07/25/16	DP	n/a	n/a	VJ5379

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	49.5	1.0	0.20	ug/l	
108-88-3	Toluene	12.7	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	3.6	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	1.6	3.0	0.56	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	75.2	1.0	0.20	ug/l	
91-20-3	Naphthalene	3.2	5.0	1.0	ug/l	J
107-06-2	1,2-Dichloroethane	0.48	1.0	0.28	ug/l	J
108-20-3	Di-Isopropyl Ether	1.6	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	2.2	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	2730 [a]	100	30	ug/l	
994-05-8	Tert-Amyl Methyl Ether	10.3	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	143	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	100%	79-125%
2037-26-5	Toluene-D8	104%	102%	85-112%
460-00-4	4-Bromofluorobenzene	94%	97%	83-118%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-22		
Lab Sample ID:	FA35533-15	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale' s Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88425.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	37.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	138% [a]		63-137%

(a) Outside control limits; however, sample is ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-23		
Lab Sample ID:	FA35533-16	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978242.D	1	07/23/16	MM	n/a	n/a	VJ5378
Run #2	J0978278.D	5	07/25/16	DP	n/a	n/a	VJ5379

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.87	1.0	0.20	ug/l	J
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	45.6	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	0.97	1.0	0.23	ug/l	J
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	1.2	2.0	0.22	ug/l	J
75-85-4	Tert-Amyl Alcohol	1330 [a]	100	30	ug/l	
994-05-8	Tert-Amyl Methyl Ether	5.5	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	98%	79-125%
2037-26-5	Toluene-D8	103%	105%	85-112%
460-00-4	4-Bromofluorobenzene	97%	99%	83-118%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	18686-MW-23		
Lab Sample ID:	FA35533-16	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88428.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	35.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.0098	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-24		
Lab Sample ID:	FA35533-17	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978243.D	1	07/23/16	MM	n/a	n/a	VJ5378
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-24		
Lab Sample ID:	FA35533-17	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88429.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	35.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.0099	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-25		
Lab Sample ID:	FA35533-18	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978244.D	1	07/23/16	MM	n/a	n/a	VJ5378
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	18686-MW-25		
Lab Sample ID:	FA35533-18	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88430.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	37.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0093	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-26		
Lab Sample ID:	FA35533-19	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978245.D	1	07/23/16	MM	n/a	n/a	VJ5378
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-26		
Lab Sample ID:	FA35533-19	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88431.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	37.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0093	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-27		
Lab Sample ID:	FA35533-20	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978246.D	1	07/23/16	MM	n/a	n/a	VJ5378
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5.1	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.68	1.0	0.20	ug/l	J
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	17.6	20	6.0	ug/l	J
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	18686-MW-27		
Lab Sample ID:	FA35533-20	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88432.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	36.0 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0097	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-28		
Lab Sample ID:	FA35533-21	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978247.D	1	07/23/16	MM	n/a	n/a	VJ5378
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-28		
Lab Sample ID:	FA35533-21	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88438.D	1	07/26/16	NG	07/25/16	OP61210	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	35.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.0098	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	115%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-29		
Lab Sample ID:	FA35533-22	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978248.D	1	07/23/16	MM	n/a	n/a	VJ5378
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	94%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	94%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	18686-MW-29		
Lab Sample ID:	FA35533-22	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88440.D	1	07/26/16	NG	07/25/16	OP61210	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	35.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.0098	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	79%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-30		
Lab Sample ID:	FA35533-23	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978249.D	1	07/23/16	MM	n/a	n/a	VJ5378
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	93%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	93%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686-MW-30		
Lab Sample ID:	FA35533-23	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88441.D	1	07/26/16	NG	07/25/16	OP61210	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	37.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	116%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-31		
Lab Sample ID:	FA35533-24	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978250.D	1	07/23/16	MM	n/a	n/a	VJ5378
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	93%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686-MW-31		
Lab Sample ID:	FA35533-24	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88442.D	1	07/26/16	NG	07/25/16	OP61210	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	110%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-1A		
Lab Sample ID:	FA35533-25	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978255.D	50	07/23/16	MM	n/a	n/a	VJ5378
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2210	50	10	ug/l	
108-88-3	Toluene	3390	50	10	ug/l	
100-41-4	Ethylbenzene	170	50	13	ug/l	
1330-20-7	Xylene (total)	2570	150	28	ug/l	
1634-04-4	Methyl Tert Butyl Ether	117	50	10	ug/l	
91-20-3	Naphthalene	227	250	50	ug/l	J
107-06-2	1,2-Dichloroethane	ND	50	14	ug/l	
108-20-3	Di-Isopropyl Ether	ND	50	11	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	2500	500	ug/l	
64-17-5	Ethyl Alcohol	ND	10000	2500	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	100	11	ug/l	
75-85-4	Tert-Amyl Alcohol	24000	1000	300	ug/l	
994-05-8	Tert-Amyl Methyl Ether	36.9	100	10	ug/l	J
75-65-0	Tert-Butyl Alcohol	ND	1000	450	ug/l	
762-75-4	Tert-Butyl Formate	ND	1000	250	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	93%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-1A		
Lab Sample ID:	FA35533-25	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD88468.D	1	07/27/16	NG	07/25/16	OP61210	GDD2609
Run #2							

	Initial Volume	Final Volume
Run #1	38.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.011	0.018	0.0091	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	74%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686-MW-2A		
Lab Sample ID:	FA35533-26	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978279.D	500	07/25/16	DP	n/a	n/a	VJ5379
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	17500	500	100	ug/l	
108-88-3	Toluene	35200	500	100	ug/l	
100-41-4	Ethylbenzene	1780	500	130	ug/l	
1330-20-7	Xylene (total)	10200	1500	280	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	500	100	ug/l	
91-20-3	Naphthalene	574	2500	500	ug/l	J
107-06-2	1,2-Dichloroethane	ND	500	140	ug/l	
108-20-3	Di-Isopropyl Ether	ND	500	110	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	25000	5000	ug/l	
64-17-5	Ethyl Alcohol [a]	ND	100000	25000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	1000	110	ug/l	
75-85-4	Tert-Amyl Alcohol	44800	10000	3000	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	1000	100	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10000	4500	ug/l	
762-75-4	Tert-Butyl Formate	ND	10000	2500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686-MW-2A		
Lab Sample ID:	FA35533-26	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD88469.D	1	07/27/16	NG	07/25/16	OP61210	GDD2609
Run #2							

	Initial Volume	Final Volume
Run #1	35.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.20	0.020	0.0098	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-3A		
Lab Sample ID:	FA35533-27	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop: 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978257.D	1000	07/23/16	MM	n/a	n/a	VJ5378
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	11400	1000	200	ug/l	
108-88-3	Toluene	48200	1000	200	ug/l	
100-41-4	Ethylbenzene	3940	1000	250	ug/l	
1330-20-7	Xylene (total)	22500	3000	560	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1000	200	ug/l	
91-20-3	Naphthalene	2080	5000	1000	ug/l	J
107-06-2	1,2-Dichloroethane	ND	1000	280	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1000	230	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50000	10000	ug/l	
64-17-5	Ethyl Alcohol	ND	200000	50000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2000	220	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20000	6000	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2000	200	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20000	9100	ug/l	
762-75-4	Tert-Butyl Formate	ND	20000	5000	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686-MW-3A		
Lab Sample ID:	FA35533-27	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD88470.D	1	07/27/16	NG	07/25/16	OP61210	GDD2609
Run #2							

	Initial Volume	Final Volume
Run #1	35.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.22	0.019	0.0097	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-4A		
Lab Sample ID:	FA35533-28	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978258.D	500	07/23/16	MM	n/a	n/a	VJ5378
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	7280	500	100	ug/l	
108-88-3	Toluene	28500	500	100	ug/l	
100-41-4	Ethylbenzene	1650	500	130	ug/l	
1330-20-7	Xylene (total)	13000	1500	280	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	500	100	ug/l	
91-20-3	Naphthalene	613	2500	500	ug/l	J
107-06-2	1,2-Dichloroethane	ND	500	140	ug/l	
108-20-3	Di-Isopropyl Ether	ND	500	110	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	25000	5000	ug/l	
64-17-5	Ethyl Alcohol	ND	100000	25000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	1000	110	ug/l	
75-85-4	Tert-Amyl Alcohol	3160	10000	3000	ug/l	J
994-05-8	Tert-Amyl Methyl Ether	ND	1000	100	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10000	4500	ug/l	
762-75-4	Tert-Butyl Formate	ND	10000	2500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-MW-4A		
Lab Sample ID:	FA35533-28	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD88471.D	1	07/27/16	NG	07/25/16	OP61210	GDD2609
Run #2							

	Initial Volume	Final Volume
Run #1	37.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.10	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	76%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-TW-1		
Lab Sample ID:	FA35533-29	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978251.D	1	07/23/16	MM	n/a	n/a	VJ5378
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	93%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686-TW-1		
Lab Sample ID:	FA35533-29	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88449.D	1	07/26/16	NG	07/25/16	OP61210	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	36.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0097	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	110%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-TW-2		
Lab Sample ID:	FA35533-30	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978252.D	1	07/23/16	MM	n/a	n/a	VJ5378
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	8.7	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.47	1.0	0.20	ug/l	J
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	20.1	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	93%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686-TW-2		
Lab Sample ID:	FA35533-30	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88450.D	1	07/26/16	NG	07/25/16	OP61210	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	37.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.018	0.0092	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	118%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-WSW-1		
Lab Sample ID:	FA35533-31	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978253.D	1	07/23/16	MM	n/a	n/a	VJ5378
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-WSW-1		
Lab Sample ID:	FA35533-31	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88451.D	1	07/26/16	NG	07/25/16	OP61210	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	37.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0093	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	125%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-WSW-3		
Lab Sample ID:	FA35533-32	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978280.D	1	07/25/16	DP	n/a	n/a	VJ5379
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol [a]	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	94%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-WSW-3		
Lab Sample ID:	FA35533-32	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88473.D	1	07/27/16	NG	07/25/16	OP61210	GDD2609
Run #2							

	Initial Volume	Final Volume
Run #1	35.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0097	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	113%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-DUP-A		
Lab Sample ID:	FA35533-33	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978259.D	500	07/23/16	MM	n/a	n/a	VJ5378
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	11500	500	100	ug/l	
108-88-3	Toluene	24400	500	100	ug/l	
100-41-4	Ethylbenzene	2870	500	130	ug/l	
1330-20-7	Xylene (total)	17000	1500	280	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	500	100	ug/l	
91-20-3	Naphthalene	1060	2500	500	ug/l	J
107-06-2	1,2-Dichloroethane	ND	500	140	ug/l	
108-20-3	Di-Isopropyl Ether	ND	500	110	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	25000	5000	ug/l	
64-17-5	Ethyl Alcohol	ND	100000	25000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	1000	110	ug/l	
75-85-4	Tert-Amyl Alcohol	18300	10000	3000	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	1000	100	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10000	4500	ug/l	
762-75-4	Tert-Butyl Formate	ND	10000	2500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-DUP-A		
Lab Sample ID:	FA35533-33	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD88474.D	2	07/27/16	NG	07/25/16	OP61210	GDD2609
Run #2							

	Initial Volume	Final Volume
Run #1	35.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.72	0.039	0.019	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		63-137%

(a) All hits confirmed by dual column analysis. Dilution required due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-DUP-B		
Lab Sample ID:	FA35533-34	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978260.D	500	07/23/16	MM	n/a	n/a	VJ5378
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	17200	500	100	ug/l	
108-88-3	Toluene	35400	500	100	ug/l	
100-41-4	Ethylbenzene	1910	500	130	ug/l	
1330-20-7	Xylene (total)	10900	1500	280	ug/l	
1634-04-4	Methyl Tert Butyl Ether	104	500	100	ug/l	J
91-20-3	Naphthalene	758	2500	500	ug/l	J
107-06-2	1,2-Dichloroethane	ND	500	140	ug/l	
108-20-3	Di-Isopropyl Ether	ND	500	110	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	25000	5000	ug/l	
64-17-5	Ethyl Alcohol	ND	100000	25000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	1000	110	ug/l	
75-85-4	Tert-Amyl Alcohol	44900	10000	3000	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	1000	100	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10000	4500	ug/l	
762-75-4	Tert-Butyl Formate	ND	10000	2500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-DUP-B		
Lab Sample ID:	FA35533-34	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD88475.D	1	07/27/16	NG	07/25/16	OP61210	GDD2609
Run #2							

	Initial Volume	Final Volume
Run #1	35.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.20	0.020	0.0098	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-FIELD BLANK		
Lab Sample ID:	FA35533-35	**Date Sampled:**	07/19/16
Matrix:	AQ - Field Blank Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978281.D	1	07/25/16	DP	n/a	n/a	VJ5379
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol [a]	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-TRIP BLANK		
Lab Sample ID:	FA35533-36	**Date Sampled:**	07/19/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0978282.D	1	07/25/16	DP	n/a	n/a	VJ5379
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol [a]	ND	200	50	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	93%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686-FIELD BLANK		
Lab Sample ID:	FA35533-35	**Date Sampled:**	07/19/16
Matrix:	AQ - Field Blank Water	**Date Received:**	07/20/16
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD88456.D	1	07/26/16	NG	07/25/16	OP61210	GDD2608
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	113%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Parameter Certification Exceptions

Job Number: FA35533
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
3,3-Dimethyl-1-Butanol	624-95-3	SW846 8260B	AQ	Certified by SOP MS005
Di-Isopropyl Ether	108-20-3	SW846 8260B	AQ	Certified by SOP MS005
Tert-Amyl Alcohol	75-85-4	SW846 8260B	AQ	Certified by SOP MS005
Tert-Butyl Formate	762-75-4	SW846 8260B	AQ	Certified by SOP MS005

ACCUTEST LABORATORIES

Accutest Laboratories Southeast
Chain of Custody

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

SCDHEC

Accutest JOB # FA35533 PAGE 1 OF 3

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: GEOLOGICAL RESOURCES, INC.
Address: 3502 HAYES ROAD
City: MONROE State: NC Zip: 28110
Project Contact: SCOTT BELL E-mail: WSB@GEOLOGICAL
Phone: 704-845-4010
Sampler(s) Name(s) (Printed): COREY N. BUCHANAN ETC / CAMPBELL

Project Information

Project Name: FORMER FORME QUICK STOP
Street: 1189 THURSTON MARSHALL BLVD
City: KINGSTREE State: SC
Project #: 1543
Fax #: INCIDENT # 18686
Client Purchase Order #

Analytical Information

BTEX, MTBE, naphth, 1,2DCA, Ethanol, & Oxygenates by 8011 EDB by 8011

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
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	H2SO4	NaOH	HNO3	Methanol	Ethanol	Water			LAB USE ONLY
1	18686 - MW - 1 HT	7/7/16	0939	CB	GW	5			5							X	X	
2	18686 - MW - 2 HT	7/7/16	1001	CB	GW	5			5							X	X	
3	18686 - MW - 3 HT	7/7/16	0824	CB	GW	5			5							X	X	
4	18686 - MW - 6	7/7/16	0826	ZC	GW	5			5							X	X	
5	18686 - MW - 7	7/7/16	0949	CB	GW	5			5							X	X	
6	18686 - MW - 8	7/7/16	1132	ZC	GW	5			5							X	X	
7	18686 - MW - 9	7/7/16	1100	EC	GW	5			5							X	X	
8	18686 - MW - 10	7/7/16	1039	CB	GW	5			5							X	X	
9	18686 - MW - 13	7/7/16	1126	CB	GW	5			5							X	X	
10	18686 - MW - 14	7/7/16	1248	ZC	GW	5			5							X	X	
11	18686 - MW - 15	7/7/16	1236	CB	GW	5			5							X	X	
12	18686 - MW - 19	7/7/16	1257	CB	GW	5			5							X	X	

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [X] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS + QC SUMMARIES)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

ACCUTEST
2828-C QUEEN CITY DR
CLT NC 28208

Comments / Remarks

SCDHEC UST MANAGEMENT PROGRAM
UST PERMIT # 18686

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 C. N. Buchanan	7/7/16 1700	2 FEDEX	3 FX	7-10-16	4 J. Combs (Alse) 09:15
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 2 Cooler Temperature (s) Celsius: 3-2 3-4

FA35533: Chain of Custody
Page 1 of 5

Accutest Laboratories Southeast

Chain of Custody

ACCUTEST LABORATORIES

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

Accutest JOB # SCDHEC FA35533 PAGE 2 OF 3

Accutest Quote # | SKIFF#

Client / Reporting Information | **Project Information** | **Analytical Information** | **Matrix Codes**

Company Name: GRI
Address: 3502 Hamlet Road
City: MONROE State: NC Zip: 28110
Project Contact: SCOTT RAY E-mail:
Phone#: 704.845.4010
Sampler(s) Name(s) (Printed): CORY BUDDENHAGEN, ZAC CAMPBELL

Project Name: FORMER TIDACES QUICK STOP
Street: 1989 THURGOOD MARSHALL BLVD
City: KINGSTREE State: SC
Project #: 1543
Fax #: UST PERMIT # 18686
Client Purchase Order #:

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; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	Total # of Bottles	Other	HCl	H2SO4	HNO3	NaOH	Methanol	Na2S2O3	None	Date/Time Sample Received at Lab	EDD By 8011	Lab Use Only
13	18686-MW-20	7/9/16	1315	ZC	GW	5		5							X	X	
14	18686-MW-21	7/9/16	1340	CB	GW	5		5							X	X	
15	18686-MW-22	7/9/16	1400	ZC	GW	5		5							X	X	
16	18686-MW-23	7/9/16	1440	CB	GW	5		5							X	X	
17	18686-MW-24	7/9/16	1500	ZC	GW	5		5							X	X	
18	18686-MW-25	7/9/16	1600	CB	GW	5		5							X	X	
19	18686-MW-26	7/9/16	1648	CB	GW	5		5							X	X	
20	18686-MW-27	7/9/16	1703	CB	GW	5		5							X	X	
21	18686-MW-28	7/9/16	1529	ZC	GW	5		5							X	X	
22	18686-MW-29	7/9/16	1520	CB	GW	5		5							X	X	
23	18686-MW-30	7/9/16	1416	CB	GW	5		5							X	X	
24	18686-MW-31	7/9/16	1412	ZC	GW	5		5							X	X	

TURNAROUND TIME (Business Days) | **Data Deliverable Information** | **Comments / Remarks**

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Labfax

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD's

ACCUTEST
2828-C QUEEN CITY DR
CLI NC 28213

SCDHEC UST MANAGEMENT PROGRAM
UST PERMIT # 18686

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1	7/9/16 1700	2 FEDEX [illegible]	3 FX	7-10-16	4 [illegible] 09:15
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:

4.2 4

FA35533: Chain of Custody
Page 2 of 5

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

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

Accutest JOB # SUBMIT FA35533 PAGE 3 OF 3

Accutest Quote # | SKIFF#

Client / Reporting Information | **Project Information** | **Analytical Information** | **Matrix Codes**

Company Name: GRI
Address: 3602 HAYES ROAD
City: MONROE State: NC Zip: 28110
Project Contact: SCOTT BAUM E-mail: WSB@
Phone#: 704.882.9010
Sampler(s) Name(s) (Printed): COREY N. BUCHANAN ZAC CAMPBELL

Project Name: FORMER RESOMER QUEEN STOP
Street: 1989 THURSTON MARSHVILLE BLVD
City: KERSHAW State: SC
Project #: 1543
Fax #: WST PERMIT # 18686
Client Purchase Order #:

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; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Collection: Date	Time	Sampled By	Matrix	Total # of Bottles	Preservation: Other	None	HCl	HNO3	H2SO4	NaOH	NaOH/ZnAc	Na2S2O3	MeOH	Analytical Information												Lab Use Only
25	MW-1A	7/9/16	1210	CB	GW	5			5							X	X											
26	MW-2A	7/9/16	1154	CB	GW	5			5							X	X											
27	MW-3A	7/9/16	1239	CB	GW	5			5							X	X											
28	MW-4A	7/10/16	1158	ZC	GW	5			5							X	X											
29	TW-1	7/9/16	1014	ZC	GW	5			5							X	X											
30	TW-2	7/9/16	1530	ZC	GW	5			5							X	X											
31	WSW-1	7/9/16	1350	ZC	GW	5			5							X	X											
32	WSW-3	7/9/16	1301	ZC	GW	5			5							X	X											
33	DUP-A	7/9/16	[redacted]	CB	GW	5			5							X	X											
34	DUP-B	7/9/16	[redacted]	CB	GW	5			5							X	X											
35	FIELD BLANK	7/10/16	1321	CB	GW	5			5							X	X											
36	TRIP BLANK	7/9/16	—	—	GW	2			2							X												

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [X] 10 Days: Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Labtrk

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

ACCUTEST 2828-c QUEEN CT / DR CLT NC 28203

Comments / Remarks

SUBMIT WST MANAGEMENT PROGRAM
WST PERMIT # 18686
TEMP BLANK U) INCLUDED

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 Corey N. Buchanan	7/10/16 1700	FEDEX	3 FX	7-20-16	4 J. Cooper (ALPE) 09:15
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:

4.2 4

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA35533 CLIENT: GRI PROJECT: 1543

DATE/TIME RECEIVED: 7-20-16 09:15 [MM/DD/YY 24:00] NUMBER OF COOLERS RECEIVED: 2

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8087 5428 7672

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR 0.0
- [ ] OBSERVED TEMPS: 3.2 3.4
- [ ] CORRECTED TEMPS: 3.2 3.4 (USED FOR LIMS)

SAMPLE INFORMATION

- [X] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT# _____

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

TEST STRIP LOT#s pH 0-3 230315 pH 10-12 219813A OTHER (specify) _____

SUMMARY OF COMMENTS: RECEIVED 2 VIALS (EDB) PER SAMPLE

TECHNICIAN SIGNATURE/DATE: 7-20-16 REVIEWER SIGNATURE/DATE: 7-20-16

NF 11/15 RECEIPTLOG040416.xls

4.2 4

FA35533: Chain of Custody
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ORIGIN ID:MEDA
SHIP DATE: 18JUL16
ACTWGT: 50.90 LB
CAD: /OFFC1704
DIMS: 24x13x14 IN
BILL SENDER
UNITED STATES US
TO SAMPLE RECEIVING
ACCUTEST LABS
4405 VINELAND RD
ORLANDO FL 32811
(407) 425-6700
FedEx Express
TRK# 0492 8087 5428 7672
WED - 20 JUL 3:00P
STANDARD OVERNIGHT
XH TIXA
32811
FL-US MCO
ORIGIN ID:MEDA
SHIP DATE: 18JUL16
ACTWGT: 48.80 LB
CAD: /OFFC1704
DIMS: 25x14x15 IN
BILL SENDER
UNITED STATES US
TO ACCUTEST LABS - ORLANDO
SAMPLE RECEIVING
4405 VINELAND RD
STE 615
ORLANDO FL 32811
(407) 425-6700
FedEx Express
TRK# 0492 8087 5428 7661
WED - 20 JUL 3:00P
STANDARD OVERNIGHT
XH TIXA
32811
FL-US MCO

GC/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: FA35533
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5377-MB	J0978212.D	1	07/22/16	MM	n/a	n/a	VJ5377

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

FA35533-1, FA35533-2, FA35533-3, FA35533-4, FA35533-5, FA35533-6, FA35533-7, FA35533-8, FA35533-9, FA35533-10, FA35533-11, FA35533-13, FA35533-14, FA35533-15

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	79-125%
2037-26-5	Toluene-D8	104%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

Method Blank Summary

Job Number: FA35533
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5378-MB	J0978240.D	1	07/23/16	MM	n/a	n/a	VJ5378

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

FA35533-2, FA35533-12, FA35533-16, FA35533-17, FA35533-18, FA35533-19, FA35533-20, FA35533-21, FA35533-22, FA35533-23, FA35533-24, FA35533-25, FA35533-27, FA35533-28, FA35533-29, FA35533-30, FA35533-31, FA35533-33, FA35533-34

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

Method Blank Summary

Job Number: FA35533
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5379-MB	J0978270.D	1	07/25/16	DP	n/a	n/a	VJ5379

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

FA35533-15, FA35533-16, FA35533-26, FA35533-32, FA35533-35, FA35533-36

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	79-125%
2037-26-5	Toluene-D8	105%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

Blank Spike Summary

Job Number: FA35533
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5377-BS [a]	J0978211.D	1	07/22/16	MM	n/a	n/a	VJ5377

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

FA35533-1, FA35533-2, FA35533-3, FA35533-4, FA35533-5, FA35533-6, FA35533-7, FA35533-8, FA35533-9, FA35533-10, FA35533-11, FA35533-13, FA35533-14, FA35533-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.1	100	81-122
107-06-2	1,2-Dichloroethane	25	22.6	90	75-125
108-20-3	Di-Isopropyl Ether	25	23.2	93	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1140	91	55-126
64-17-5	Ethyl Alcohol	500	609	122	46-145
100-41-4	Ethylbenzene	25	23.6	94	81-121
637-92-3	Ethyl Tert Butyl Ether	25	22.6	90	71-120
1634-04-4	Methyl Tert Butyl Ether	25	22.0	88	72-117
91-20-3	Naphthalene	25	24.7	99	63-132
75-85-4	Tert-Amyl Alcohol	250	222	89	65-124
994-05-8	Tert-Amyl Methyl Ether	25	21.8	87	73-122
75-65-0	Tert-Butyl Alcohol	250	239	96	63-129
762-75-4	Tert-Butyl Formate	250	215	86	46-130
108-88-3	Toluene	25	23.3	93	80-120
1330-20-7	Xylene (total)	75	72.8	97	80-126

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

(a) No ECC available for this run.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA35533
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5378-BS	J0978239.D	1	07/23/16	MM	n/a	n/a	VJ5378

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

FA35533-2, FA35533-12, FA35533-16, FA35533-17, FA35533-18, FA35533-19, FA35533-20, FA35533-21, FA35533-22, FA35533-23, FA35533-24, FA35533-25, FA35533-27, FA35533-28, FA35533-29, FA35533-30, FA35533-31, FA35533-33, FA35533-34

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	24.7	99	81-122
107-06-2	1,2-Dichloroethane	25	23.1	92	75-125
108-20-3	Di-Isopropyl Ether	25	23.1	92	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1150	92	55-126
64-17-5	Ethyl Alcohol	500	453	91	46-145
100-41-4	Ethylbenzene	25	24.1	96	81-121
637-92-3	Ethyl Tert Butyl Ether	25	22.6	90	71-120
1634-04-4	Methyl Tert Butyl Ether	25	21.6	86	72-117
91-20-3	Naphthalene	25	25.5	102	63-132
75-85-4	Tert-Amyl Alcohol	250	205	82	65-124
994-05-8	Tert-Amyl Methyl Ether	25	21.4	86	73-122
75-65-0	Tert-Butyl Alcohol	250	217	87	63-129
762-75-4	Tert-Butyl Formate	250	209	84	46-130
108-88-3	Toluene	25	24.3	97	80-120
1330-20-7	Xylene (total)	75	75.1	100	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	103%	85-112%
460-00-4	4-Bromofluorobenzene	96%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA35533
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5379-BS	J0978269.D	1	07/25/16	DP	n/a	n/a	VJ5379

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

FA35533-15, FA35533-16, FA35533-26, FA35533-32, FA35533-35, FA35533-36

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	26.3	105	81-122
107-06-2	1,2-Dichloroethane	25	24.5	98	75-125
108-20-3	Di-Isopropyl Ether	25	25.2	101	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1290	103	55-126
64-17-5	Ethyl Alcohol	500	849	170*	46-145
100-41-4	Ethylbenzene	25	24.5	98	81-121
637-92-3	Ethyl Tert Butyl Ether	25	24.1	96	71-120
1634-04-4	Methyl Tert Butyl Ether	25	24.5	98	72-117
91-20-3	Naphthalene	25	28.9	116	63-132
75-85-4	Tert-Amyl Alcohol	250	242	97	65-124
994-05-8	Tert-Amyl Methyl Ether	25	22.9	92	73-122
75-65-0	Tert-Butyl Alcohol	250	284	114	63-129
762-75-4	Tert-Butyl Formate	250	262	105	46-130
108-88-3	Toluene	25	25.1	100	80-120
1330-20-7	Xylene (total)	75	76.9	103	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA35533
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA35533-4MS	J0978233.D	1	07/22/16	MM	n/a	n/a	VJ5377
FA35533-4MSD	J0978234.D	1	07/22/16	MM	n/a	n/a	VJ5377
FA35533-4	J0978213.D	1	07/22/16	MM	n/a	n/a	VJ5377

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

FA35533-1, FA35533-2, FA35533-3, FA35533-4, FA35533-5, FA35533-6, FA35533-7, FA35533-8, FA35533-9, FA35533-10, FA35533-11, FA35533-13, FA35533-14, FA35533-15

CAS No.	Compound	FA35533-4 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		25	24.5	98	25	24.6	98	0	81-122/14
107-06-2	1,2-Dichloroethane	ND		25	21.8	87	25	22.3	89	2	75-125/14
108-20-3	Di-Isopropyl Ether	ND		25	22.6	90	25	22.9	92	1	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		1250	1220	98	1250	1150	92	6	55-126/17
64-17-5	Ethyl Alcohol	ND		500	409	82	500	798	160*	64*	46-145/30
100-41-4	Ethylbenzene	ND		25	23.4	94	25	24.0	96	3	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND		25	21.3	85	25	22.3	89	5	71-120/14
1634-04-4	Methyl Tert Butyl Ether	ND		25	20.8	83	25	21.8	87	5	72-117/14
91-20-3	Naphthalene	ND		25	24.2	97	25	26.3	105	8	63-132/25
75-85-4	Tert-Amyl Alcohol	ND		250	213	85	250	212	85	0	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		25	21.0	84	25	21.2	85	1	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		250	337	135*	250	374	150*	10	63-129/27
762-75-4	Tert-Butyl Formate	ND		250	17.0	7*	250	13.7	5*	21	46-130/33
108-88-3	Toluene	ND		25	23.3	93	25	23.7	95	2	80-120/14
1330-20-7	Xylene (total)	ND		75	73.5	98	75	73.3	98	0	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA35533-4	Limits
1868-53-7	Dibromofluoromethane	96%	96%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	98%	96%	79-125%
2037-26-5	Toluene-D8	97%	99%	103%	85-112%
460-00-4	4-Bromofluorobenzene	92%	97%	99%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA35533
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA35533-25MS	J0978261.D	50	07/23/16	MM	n/a	n/a	VJ5378
FA35533-25MSD	J0978262.D	50	07/23/16	MM	n/a	n/a	VJ5378
FA35533-25	J0978255.D	50	07/23/16	MM	n/a	n/a	VJ5378

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

FA35533-2, FA35533-12, FA35533-16, FA35533-17, FA35533-18, FA35533-19, FA35533-20, FA35533-21, FA35533-22, FA35533-23, FA35533-24, FA35533-25, FA35533-27, FA35533-28, FA35533-29, FA35533-30, FA35533-31, FA35533-33, FA35533-34

CAS No.	Compound	FA35533-25 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	2210		1250	3470	101	1250	3370	93	3	81-122/14
107-06-2	1,2-Dichloroethane	ND		1250	1120	90	1250	1130	90	1	75-125/14
108-20-3	Di-Isopropyl Ether	ND		1250	1150	92	1250	1160	93	1	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		62500	73400	117	62500	62800	100	16	55-126/17
64-17-5	Ethyl Alcohol	ND		25000	22800	91	25000	30600	122	29	46-145/30
100-41-4	Ethylbenzene	170		1250	1400	98	1250	1380	97	1	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND		1250	1110	89	1250	1120	90	1	71-120/14
1634-04-4	Methyl Tert Butyl Ether	117		1250	1160	83	1250	1200	87	3	72-117/14
91-20-3	Naphthalene	227	J	1250	1520	103	1250	1530	104	1	63-132/25
75-85-4	Tert-Amyl Alcohol	24000		12500	40600	133*	12500	37400	107	8	65-124/23
994-05-8	Tert-Amyl Methyl Ether	36.9	J	1250	1090	84	1250	1100	85	1	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		12500	14100	113	12500	14100	113	0	63-129/27
762-75-4	Tert-Butyl Formate	ND		12500	8790	70	12500	9130	73	4	46-130/33
108-88-3	Toluene	3390		1250	4690	104	1250	4590	96	2	80-120/14
1330-20-7	Xylene (total)	2570		3750	6530	106	3750	6380	102	2	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA35533-25	Limits
1868-53-7	Dibromofluoromethane	96%	97%	92%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	96%	97%	79-125%
2037-26-5	Toluene-D8	99%	101%	104%	85-112%
460-00-4	4-Bromofluorobenzene	94%	94%	93%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA35533
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA35616-1MS	J0978293.D	1	07/25/16	DP	n/a	n/a	VJ5379
FA35616-1MSD	J0978294.D	1	07/25/16	DP	n/a	n/a	VJ5379
FA35616-1	J0978285.D	1	07/25/16	DP	n/a	n/a	VJ5379

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

FA35533-15, FA35533-16, FA35533-26, FA35533-32, FA35533-35, FA35533-36

CAS No.	Compound	FA35616-1 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	ND		25	26.4	106	25	25.3	101	4	81-122/14
107-06-2	1,2-Dichloroethane	ND		25	24.3	97	25	24.1	96	1	75-125/14
108-20-3	Di-Isopropyl Ether	ND		25	25.3	101	25	24.0	96	5	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		1250	1290	103	1250	1210	97	6	55-126/17
64-17-5	Ethyl Alcohol	ND		500	728	146*	500	771	154*	6	46-145/30
100-41-4	Ethylbenzene	ND		25	25.7	103	25	24.8	99	4	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND		25	24.2	97	25	22.8	91	6	71-120/14
1634-04-4	Methyl Tert Butyl Ether	ND		25	23.9	96	25	22.3	89	7	72-117/14
91-20-3	Naphthalene	ND		25	26.9	108	25	27.8	111	3	63-132/25
75-85-4	Tert-Amyl Alcohol	ND		250	220	88	250	208	83	6	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		25	23.0	92	25	22.3	89	3	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		250	430	172*	250	397	159*	8	63-129/27
762-75-4	Tert-Butyl Formate	ND		250	7.8	3*	250	6.1	2*	24	46-130/33
108-88-3	Toluene	ND		25	25.0	100	25	24.3	97	3	80-120/14
1330-20-7	Xylene (total)	ND		75	78.0	104	75	74.9	100	4	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA35616-1	Limits
1868-53-7	Dibromofluoromethane	97%	97%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	99%	98%	79-125%
2037-26-5	Toluene-D8	99%	98%	99%	85-112%
460-00-4	4-Bromofluorobenzene	95%	98%	92%	83-118%

* = 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: FA35533
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61209-MB	DD88406.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608

The QC reported here applies to the following samples: **Method:** SW846 8011

FA35533-1, FA35533-2, FA35533-3, FA35533-4, FA35533-5, FA35533-6, FA35533-7, FA35533-8, FA35533-9, FA35533-10, FA35533-11, FA35533-12, FA35533-13, FA35533-14, FA35533-15, FA35533-16, FA35533-17, FA35533-18, FA35533-19, FA35533-20

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	90%	63-137%

Method Blank Summary

Job Number: FA35533
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61210-MB	DD88437.D	1	07/26/16	NG	07/25/16	OP61210	GDD2608

The QC reported here applies to the following samples: **Method:** SW846 8011

FA35533-21, FA35533-22, FA35533-23, FA35533-24, FA35533-25, FA35533-26, FA35533-27, FA35533-28, FA35533-29, FA35533-30, FA35533-31, FA35533-32, FA35533-33, FA35533-34, FA35533-35

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	98%	63-137%

Blank Spike Summary

Job Number: FA35533
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61209-BS	DD88404.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608

The QC reported here applies to the following samples: **Method:** SW846 8011

FA35533-1, FA35533-2, FA35533-3, FA35533-4, FA35533-5, FA35533-6, FA35533-7, FA35533-8, FA35533-9, FA35533-10, FA35533-11, FA35533-12, FA35533-13, FA35533-14, FA35533-15, FA35533-16, FA35533-17, FA35533-18, FA35533-19, FA35533-20

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.23	92	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	96%	63-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA35533
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61209-BS2	DD88405.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608

The QC reported here applies to the following samples: **Method:** SW846 8011

FA35533-1, FA35533-2, FA35533-3, FA35533-4, FA35533-5, FA35533-6, FA35533-7, FA35533-8, FA35533-9, FA35533-10, FA35533-11, FA35533-12, FA35533-13, FA35533-14, FA35533-15, FA35533-16, FA35533-17, FA35533-18, FA35533-19, FA35533-20

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.23	92	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	95%	63-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA35533
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61210-BS	DD88435.D	1	07/26/16	NG	07/25/16	OP61210	GDD2608

The QC reported here applies to the following samples: **Method:** SW846 8011

FA35533-21, FA35533-22, FA35533-23, FA35533-24, FA35533-25, FA35533-26, FA35533-27, FA35533-28, FA35533-29, FA35533-30, FA35533-31, FA35533-32, FA35533-33, FA35533-34, FA35533-35

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.26	104	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	123%	63-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA35533
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop: 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61210-BS2	DD88436.D	1	07/26/16	NG	07/25/16	OP61210	GDD2608

The QC reported here applies to the following samples: **Method:** SW846 8011

FA35533-21, FA35533-22, FA35533-23, FA35533-24, FA35533-25, FA35533-26, FA35533-27, FA35533-28, FA35533-29, FA35533-30, FA35533-31, FA35533-32, FA35533-33, FA35533-34, FA35533-35

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.25	100	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	119%	63-137%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FA35533
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61209-MS	DD88408.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608
FA35533-1	DD88407.D	1	07/26/16	NG	07/25/16	OP61209	GDD2608

The QC reported here applies to the following samples: **Method:** SW846 8011

FA35533-1, FA35533-2, FA35533-3, FA35533-4, FA35533-5, FA35533-6, FA35533-7, FA35533-8, FA35533-9, FA35533-10, FA35533-11, FA35533-12, FA35533-13, FA35533-14, FA35533-15, FA35533-16, FA35533-17, FA35533-18, FA35533-19, FA35533-20

CAS No.	Compound	FA35533-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
106-93-4	1,2-Dibromoethane	ND		0.236	0.24	102	72-134

CAS No.	Surrogate Recoveries	MS	FA35533-1	Limits
460-00-4	4-Bromofluorobenzene	89%	82%	63-137%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FA35533
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61210-MS	DD88439.D	1	07/26/16	NG	07/25/16	OP61210	GDD2608
FA35533-21	DD88438.D	1	07/26/16	NG	07/25/16	OP61210	GDD2608

The QC reported here applies to the following samples: **Method:** SW846 8011

FA35533-21, FA35533-22, FA35533-23, FA35533-24, FA35533-25, FA35533-26, FA35533-27, FA35533-28, FA35533-29, FA35533-30, FA35533-31, FA35533-32, FA35533-33, FA35533-34, FA35533-35

CAS No.	Compound	FA35533-21 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
106-93-4	1,2-Dibromoethane	ND		0.239	0.25	105	72-134

CAS No.	Surrogate Recoveries	MS	FA35533-21	Limits
460-00-4	4-Bromofluorobenzene	114%	115%	63-137%

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA35533
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61209-DUP	DD88466.D	2	07/27/16	NG	07/25/16	OP61209	GDD2609
FA35533-2 [a]	DD88465.D	2	07/27/16	NG	07/25/16	OP61209	GDD2609

The QC reported here applies to the following samples: **Method:** SW846 8011

FA35533-1, FA35533-2, FA35533-3, FA35533-4, FA35533-5, FA35533-6, FA35533-7, FA35533-8, FA35533-9, FA35533-10, FA35533-11, FA35533-12, FA35533-13, FA35533-14, FA35533-15, FA35533-16, FA35533-17, FA35533-18, FA35533-19, FA35533-20

CAS No.	Compound	FA35533-2 ug/l	Q	DUP ug/l	Q	RPD	Limits
106-93-4	1,2-Dibromoethane	0.80		0.70		13	28

CAS No.	Surrogate Recoveries	DUP	FA35533-2	Limits
460-00-4	4-Bromofluorobenzene	86%	99%	63-137%

(a) All hits confirmed by dual column analysis. Dilution required due to matrix interference.

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA35533
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP61210-DUP	DD88476.D	1	07/27/16	NG	07/25/16	OP61210	GDD2609
FA35533-34 [a]	DD88475.D	1	07/27/16	NG	07/25/16	OP61210	GDD2609

The QC reported here applies to the following samples: **Method:** SW846 8011

FA35533-21, FA35533-22, FA35533-23, FA35533-24, FA35533-25, FA35533-26, FA35533-27, FA35533-28, FA35533-29, FA35533-30, FA35533-31, FA35533-32, FA35533-33, FA35533-34, FA35533-35

CAS No.	Compound	FA35533-34 ug/l	Q	DUP ug/l	Q	RPD	Limits
106-93-4	1,2-Dibromoethane	0.20		0.18		11	28

CAS No.	Surrogate Recoveries	DUP	FA35533-34	Limits
460-00-4	4-Bromofluorobenzene	82%	84%	63-137%

(a) All hits confirmed by dual column analysis.

* = Outside of Control Limits.

6.4.2

6

APPENDIX B

Field Data Information Sheets

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Monitoring Well Gauging

Site Information

Date: 07/18/16 & 07/19/16	Site ID #: 18686	Site Name: FORMER TISDALE'S QUICK STOP
County: WILLIAMSBURG	Project Manager: SCOTT BALL	Field Personnel: COREY N. BUCHANAN & ZAC CAMPBELL 1/3

Well Gauging Information

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
MW-1	19.91	10-20	— *	13.87	—	YES	NO	YES	NO	NO
MW-2	24.92	10-25	— *	14.03	—	YES	NO	YES	2/3	NO
MW-3	25.02	10-25	— *	13.93	—	YES	NO	YES	NO	NO
MW-4	13.45	10-25	—	DRY	—	YES	NO	YES	NO	NO
MW-5	11.67	12-22	—	DRY	—	YES	NO	YES	NO	NO
MW-6	20.31	11.5-21.5	—	13.74	—	YES	NO	YES	YES	NO
MW-7	21.00	12-22	—	13.45	—	YES	NO	YES	NO	NO
MW-8	21.06	12-22	—	13.61	—	YES	NO	YES	2/3	NO
MW-9	21.22	12-22	—	14.42	—	YES	NO	NO	NO	NO
MW-10	24.58	10-25	—	15.28	—	YES	NO	NO	NO	YES
MW-13	23.24	10-25	—	14.37	—	YES	NO	YES	NO	NO
MW-14	23.73	10-25	—	13.98	—	YES	NO	YES	NO	YES
MW-15	24.10	10-25	—	15.25	—	YES	NO	YES	1/2	YES

Notes: * MW-1, MW-2, MW-3, ODOR & SHEEN AFTER BAILING WELL

Signature: Cory N. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Monitoring Well Gauging

4/3

Site Information

Date: 07/18/16 & 07/19/16	Site ID #: 18686	Site Name: FORMER HISDALE'S QUICK STOP
County: WILLIAMSBURG	Project Manager: SCOTT BALL	Field Personnel: COREY N. BUCHANAN & ERIC CAMPBELL

Well Gauging Information

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
MW-16	NOT LOCATED		—		—	—				—
MW-18	NOT LOCATED		—		—	—				—
MW-19	24.21	10-25	—	17.23	—	YES	NO	YES	YES	YES
MW-20	23.32	10-25	—	14.30	—	YES	NO	YES	YES	YES
MW-21	20.06	8-23	—	13.36	—	YES	NO	YES	YES	NO
MW-22	23.35	10-25	—	14.15	—	YES	NO	YES	YES	NO
MW-23	22.00	9-24	—	13.90	—	YES	NO	YES	NO	NO
MW-24	20.80	8-23	—	11.81	—	YES	NO	YES	YES	NO
MW-25	20.62	8-23	—	11.98	—	YES	NO	YES	YES	NO
MW-26	19.45	6-21	—	11.26	—	YES	NO	YES	YES	YES
MW-27	24.53	10-25	—	15.77	—	YES	NO	YES	YES	YES
MW-28	24.47	10-25	—	16.16	—	YES	NO	YES	YES	YES
MW-29	23.54	10-25	—	14.94	—	YES	NO	YES	YES	NO

Notes: _____

Signature: Cory N. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Monitoring Well Gauging

3/3

Site Information

Date: 07/18/16 & 07/19/16	Site ID #: 18686	Site Name: FORMER TISDALE'S QUICK STOP
County: WILLIAMSBURG	Project Manager: SCOTT BALL	Field Personnel: COREY N. BUCHANAN & ZAC CAMPBELL

Well Gauging Information

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
MW-30	18.53	7-22	—	13.97	—	YES	NO	YES	YES	NO
MW-31	20.01	10-20	—	14.91	—	YES	NO	YES	YES	YES
MW-1A	21.02	NA	—	13.23	—	YES	NO	YES	NO	YES
MW-2A	20.02	NA	—	13.31	—	YES	NO	YES	NO	YES
MW-3A	19.81	NA	— *	13.11	—	YES	NO	YES	NO	YES
MW-4A	20.52	NA	—	13.78	—	YES	NO	YES	YES	NO
TW-1	45.46	41-46	—	14.84	—	YES	NO	YES	NO	YES
TW-2	50.25	46-51	—	13.17	—	YES	NO	YES	NO	YES

Notes: MW-1A, MW-2A, MW-3A DOR
* MW-3A SHEEN AFTER BAILING

Signature: Cory N. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/16 07/19/16	Site ID #: 18686	Site Name: FORMER TIGERLES QUICK STOP	Field Personnel: COREY W. BUCHANAN ZACKARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature) 556	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen) 556	13B100013	Y or N			
LaMotte (Turbidity) HACH 21002	16040C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-1	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other ___ Private WSW ___Public WSW	Screened Interval (ft.): 10 to 20		Total Well Depth (TWD) (ft.): 19.91
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.87		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 6.04	1 casing volume (CV = LWC x C) (gals.): 0.96		3 casing volumes (3 x CV) (gals.): 2.89

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	0.96	1.93	2.89				
Time (military)	0926	0934	0938					0938
PH (s.u.)	5.07	5.33	5.54					
Specific Conductivity (µS/cm)	184	185	217					
Water Temperature (°C)	22.88	22.49	22.95					
Turbidity (NTU)	17.3	58.8	305					
Dissolved Oxygen (mg/L)	1.24	2.15	2.23					

Sampling Data

Sampled By: ZACKARY CAMPBELL COREY W. BUCHANAN	Sampling Time: 0938	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: STEEN WOOD — LIMITED VOL, DRY @ 2.00 GAL

Signature: Corey W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/16 ~~07/19/16~~	Site ID #: 18686	Site Name: FORMER TISDALES QUICK STOP	Field Personnel: COREY W. BUCHANAN ZACKARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 80°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI ~~65~~ 556 (pH, Specific Conductivity, Temperature)	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI ~~55~~ 556 (Dissolved Oxygen)	13B100053	Y or N			
~~LaMotte~~ (Turbidity) HACH 21009	160400049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-2	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other ___ Private WSW ___Public WSW	Screened Interval (ft.): 10 to 25	Total Well Depth (TWD) (ft.): 24.92	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 14.03	Free Product Thickness (ft.): —	
Length of water column (LWC = TWD – DGW) (ft.): 10.89	1 casing volume (CV = LWC x C) (gals.): 1.74	3 casing volumes (3 x CV) (gals.): 5.22	

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.74	3.48	5.22				
Time (military)	0946	~~0958~~ 1000	1001					1001
PH (s.u.)	5.16	5.35	5.67					
Specific Conductivity (µS/cm)	331	402	427					
Water Temperature (°C)	22.77	22.32	24.00					
Turbidity (NTU)	20.6	>1000	>1000					
Dissolved Oxygen (mg/L)	1.83	2.24	1.44					

Sampling Data

Sampled By: ZACKARY CAMPBELL Corey W. Buchanan	Sampling Time: 1001	Duplicate: (Y) or N	If yes, Duplicate Time: 1001

Notes: SHEEN ODOR Dup-A @ 1001 from MW-2

Signature: Corey W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/16 & 7/19/16	Site ID #: 18686	Site Name: FORMER TIGERLES QUICK STOP	Field Personnel: COREY D. BUCHANAN ZACKARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 556 (pH, Specific Conductivity, Temperature)	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 556 (Dissolved Oxygen)	13B100013	Y or N			
LaMotte (Turbidity) #ACH21002	1604C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-3	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other ___ Private WSW ___Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 25.02
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.93		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 11.09	1 casing volume (CV = LWC x C) (gals.): 1.77		3 casing volumes (3 x CV) (gals.): 5.31

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.77	3.54	5.31				
Time (military)	0912	0915	0920	0924				0924
PH (s.u.)	4.45	4.72	5.11	5.07				
Specific Conductivity (µS/cm)	153	146	186	201				
Water Temperature (°C)	22.90	22.26	22.15	22.99				
Turbidity (NTU)	3.69	33.5	94.6	71.1				
Dissolved Oxygen (mg/L)	3.58	1.98	2.16	2.01				

Sampling Data

Sampled By: ZACKARY CAMPBELL COREY D. BUCHANAN	Sampling Time: 0924	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: SHEEN/ODOR

Signature: Corey D. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/12	Site ID #: 18686	Site Name: FORMER TIGERLES QUICK STOP	Field Personnel: COREY W. BUCHANAN ZACHARY CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 556 (pH, Specific Conductivity, Temperature)	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 556 (Dissolved Oxygen)	13B100013	Y or N			
LaMotte (Turbidity) #ACH 21002	1602040049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-4	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): to	Total Well Depth (TWD) (ft.): 13.45 (obstructed)
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): DRY		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								—
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: ZACHARY CAMPBELL COREY W. BUCHANAN	Sampling Time: —	Duplicate: Y or N	If yes, Duplicate Time:

Notes: NOT SAMPLED DRY

Signature: Corey W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/12	Site ID #: 18686	Site Name: FORMER TIGERLES QUICK STOP	Field Personnel: COREY W. Buchanan ZACHARY CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature) SSC	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen) SSC	13B100013	Y or N			
~~LaMotte~~ (Turbidity) *ACH 21000	1604C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-5	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): to		Total Well Depth (TWD) (ft.): 11.67 (obstructed)
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): DRY		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: ZACHARY CAMPBELL Corey W. Buchanan	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: NOT SAMPLED, DRY

Signature: Corey W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/16 7-19-16	Site ID #: 18686	Site Name: FORMER TIGGERS QUICK STOP	Field Personnel: CORRY D. BUCHANAN ZACKARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature) 556	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen) 556	13B100013	Y or N			
LaMotte (Turbidity) HACH 2100Q	160406049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-6	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 11.5 to 21.5	Total Well Depth (TWD) (ft.): 20.31	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.74	Free Product Thickness (ft.): —	
Length of water column (LWC = TWD – DGW) (ft.): 6.57	1 casing volume (CV = LWC x C) (gals.): 1.05	3 casing volumes (3 x CV) (gals.): 3.15	

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.05	2.10	3.15				
Time (military)	0904	0911	0916	0926				0926
PH (s.u.)	3.85	3.37	3.43	3.71				
Specific Conductivity (µS/cm)	431	422	417	422				
Water Temperature (°C)	20.72	20.50	20.9	21.20				
Turbidity (NTU)	1000+	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	3.42	3.65	3.87	3.33				

Sampling Data

Sampled By: ZACKARY CAMPBELL Corry D. Buchanan	Sampling Time: 0926	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: _____

Signature: Corry D. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/16 & 07/19/16	Site ID #: 18686	Site Name: FORMER TIGERLES QUICK STOP	Field Personnel: COREY W. Buchanan ZACKARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature) 556	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen) 556	13B100013	Y or N			
~~LaMotte~~ (Turbidity) *HACH 21002	1604C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-7	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 12 to 22	Total Well Depth (TWD) (ft.): 21.00	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.45	Free Product Thickness (ft.): —	
Length of water column (LWC = TWD – DGW) (ft.): 7.55	1 casing volume (CV = LWC x C) (gals.): 1.20	3 casing volumes (3 x CV) (gals.): 3.60	

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.20	2.40	3.60				
Time (military)	0851	0858	0904	0909				0909
PH (s.u.)	4.95	3.44	3.46	3.18				
Specific Conductivity (µS/cm)	169	95	79	69				
Water Temperature (°C)	21.32	20.29	20.03	19.88				
Turbidity (NTU)	47.2	>1000	>1000	>1000				
Dissolved Oxygen (mg/L)	4.90	4.32	4.00	4.04				

Sampling Data

Sampled By: ~~ZACKARY CAMPBELL~~ COREY W. Buchanan	Sampling Time: 0909	Duplicate: Y or N	If yes, Duplicate Time:

Notes: _____

Signature: Corey W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/16 & 07/19/16	Site ID #: 18686	Site Name: FORMER TIGERLES QUICK STOP	Field Personnel: COREY W. BUCHANAN ZACHARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 556 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 556 (Dissolved Oxygen)	13B100013	Y or N			
~~LaMotte~~ (Turbidity) HACH 21000	16040C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-8	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 12 to 22		Total Well Depth (TWD) (ft.): 21.06
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.61		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 7.45	1 casing volume (CV = LWC x C) (gals.): 1.19		3 casing volumes (3 x CV) (gals.): 3.57

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.19	2.38	3.57				
Time (military)	1116	1120	1126	1132				1132
PH (s.u.)	4.51	4.0	4.03	4.16				
Specific Conductivity (µS/cm)	136	125	115	112				
Water Temperature (°C)	21.83	20.88	20.73	20.86				
Turbidity (NTU)	19.9	>1000	1000+	1000+				
Dissolved Oxygen (mg/L)	5.16	3.06	4.29	3.24				

Sampling Data

Sampled By: ZACHARY CAMPBELL COREY W. BUCHANAN	Sampling Time: 1132	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: ___

Signature: Corey W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/16 & 7/19/16	Site ID #: 18686	Site Name: FORMER TIGERLES QUICK STOP	Field Personnel: COREY W. Buchanan ZACHARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature) 556	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen) 556	13B100013	Y or N			
~~LaMotte~~ (Turbidity) HACH 2100Q	16040C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-9	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other ___ Private WSW ___Public WSW	Screened Interval (ft.): 12 to 22		Total Well Depth (TWD) (ft.): 21.22
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 14.42		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 6.8	1 casing volume (CV = LWC x C) (gals.): 1.08		3 casing volumes (3 x CV) (gals.): 3.24

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.08	2.16	3.24				
Time (military)	1039	1046	1051	1100				1100
PH (s.u.)	5.23	4.53	4.06	3.96				
Specific Conductivity (µS/cm)	100	116	122	125				
Water Temperature (°C)	23.43	23.28	22.80	22.71				
Turbidity (NTU)	1.20	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	5.18	4.88	6.84	6.63				

Sampling Data

Sampled By: ZACHARY CAMPBELL Corey W. Buchanan	Sampling Time: 1100	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: ___

Signature: Corey W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/16 & 7/19/16	Site ID #: 18686	Site Name: FORMER TIGGERS QUICK STOP	Field Personnel: CORBY N. Buchanan ZACKARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 556 (pH, Specific Conductivity, Temperature)	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 556 (Dissolved Oxygen)	13B100013	Y or N			
LaMotte (Turbidity) *ACH 21009	1604040049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-10	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 24.58
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 15.28		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 9.30	1 casing volume (CV = LWC x C) (gals.): 1.48		3 casing volumes (3 x CV) (gals.): 4.44

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.48	2.97	4.44				
Time (military)	1018	1024	1033	1039				1039
PH (s.u.)	4.91	4.42	4.01	4.04				
Specific Conductivity (µS/cm)	76	80	81	94				
Water Temperature (°C)	22.20	21.35	21.34	22.73				
Turbidity (NTU)	265	71000	71000	71000				
Dissolved Oxygen (mg/L)	5.92	0.52	7.03	5.19				

Sampling Data

Sampled By: ZACKARY CAMPBELL CORBY N. Buchanan	Sampling Time: 1039	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: _____

Signature: Corby N. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/16 & 7/19/16	Site ID #: 18686	Site Name: FORMER TIGERLES QUICK STOP	Field Personnel: COREY W. BUCHANAN ZACKARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 556 (pH, Specific Conductivity, Temperature)	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 556 (Dissolved Oxygen)	13B100013	Y or N			
LaMotte (Turbidity) HACH 21002	16040C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-13	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 23.24
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 14.37		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 8.87	1 casing volume (CV = LWC x C) (gals.): 1.41		3 casing volumes (3 x CV) (gals.): 4.23

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.41	2.82	4.23				
Time (military)	1104	1110	1116	1126				1126
PH (s.u.)	4.65	4.47	4.27	4.20				
Specific Conductivity (µS/cm)	241	257	244	218				
Water Temperature (°C)	21.22	20.27	19.68	20.48				
Turbidity (NTU)	154	800	71000	71000				
Dissolved Oxygen (mg/L)	2.45	2.76	2.94	4.07				

Sampling Data

Sampled By: ZACKARY CAMPBELL COREY W. Buchanan	Sampling Time: 1126	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: _____

Signature: Corey W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/12	Site ID #: 18686	Site Name: FORMER TISDALES QUICK STOP	Field Personnel: COREY W. BUCHANAN ZACKARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature) 556	13B100013	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen) 556	13B100013	Y or N			
LaMotte (Turbidity) HACH 21002	16040C49270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-14	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 23.73
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.98		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 9.75	1 casing volume (CV = LWC x C) (gals.): 1.56		3 casing volumes (3 x CV) (gals.): 4.68

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.56	3.12	4.68				
Time (military)	1728	1736	1743	1748				1748
PH (s.u.)	5.09	4.89	4.74	5.09				
Specific Conductivity (µS/cm)	391	365	368	388				
Water Temperature (°C)	21.02	21.39	21.88	21.79				
Turbidity (NTU)	95.8	903	>1000	>1000				
Dissolved Oxygen (mg/L)	5.28	4.85	4.63	4.65				

Sampling Data

Sampled By: ZACKARY CAMPBELL Corey W. Buchanan	Sampling Time: 1748	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: ___

Signature: Corey W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/12	Site ID #: 18686	Site Name: FORMER TIGERLES QUICK STOP	Field Personnel: COREY W. Buchanan ZACHARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature) 556	13B100013	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen) 556	13B100013	Y or N			
~~LaMotte~~ (Turbidity) HACH 21002	16040C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-15	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 24.10
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 15.25		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 8.85	1 casing volume (CV = LWC x C) (gals.): 1.41		3 casing volumes (3 x CV) (gals.): 4.24

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.41	2.83	4.24				
Time (military)	1712	1719	1726	1738				1738
PH (s.u.)	4.64	5.20	4.94	4.14				
Specific Conductivity (µS/cm)	164	168	171	178				
Water Temperature (°C)	22.55	21.04	20.35	20.90				
Turbidity (NTU)	160.9	>1000	71000	>1000				
Dissolved Oxygen (mg/L)	4.56	4.71	6.60	4.63				

Sampling Data

Sampled By: ZACHARY CAMPBELL COREY W. Buchanan	Sampling Time: 1738	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: _____

Signature: Corey W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/12	Site ID #: 18686	Site Name: FORMER TIGGERS QUICK STOP	Field Personnel: CORY W. BUCHANAN ZACKARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature) 556	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen) 556	13B100013	Y or N			
~~LaMotte~~ (Turbidity) HACH 21002	160400049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-16	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): to		Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): —		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								—
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: ZACKARY CAMPBELL CORY W. BUCHANAN	Sampling Time: —	Duplicate: Y or N	If yes, Duplicate Time:

Notes: NOT LOCATED WS

Signature: Cory W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/12	Site ID #: 18686	Site Name: FORMER TISDALES QUICK STOP	Field Personnel: COREY W. Buchanan ZACKARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 556 (pH, Specific Conductivity, Temperature)	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 556 (Dissolved Oxygen)	13B100013	Y or N			
LaMotte (Turbidity) *ACH 21009	1604C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-18	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): to		Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): —		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								—
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: ZACKARY CAMPBELL Corey W. Buchanan	Sampling Time: —	Duplicate: Y or N	If yes, Duplicate Time:

Notes: NOT LOCATED, NS

Signature: Corey W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/16 / 7/19/16	Site ID #: 18686	Site Name: FORMER TIGERLES QUICK STOP	Field Personnel: COREY W. BUCHANAN ZACKARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 556 (pH, Specific Conductivity, Temperature)	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 556 (Dissolved Oxygen)	13B100013	Y or N			
~~LaMotte~~ (Turbidity) HACH 21002	160400049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW - 19	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 24.21
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 17.23		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 6.98	1 casing volume (CV = LWC x C) (gals.): 1.11		3 casing volumes (3 x CV) (gals.): 3.33

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.11	2.22	3.33				
Time (military)	1240	1249	1253	1257				1257
PH (s.u.)	4.65	4.49	4.27	3.79				
Specific Conductivity (µS/cm)	131	131	142	152				
Water Temperature (°C)	22.55	21.99	21.25	21.48				
Turbidity (NTU)	103	.71000	.71000	.71000				
Dissolved Oxygen (mg/L)	8.30	4.85	4.88	4.67				

Sampling Data

Sampled By: ZACKARY CAMPBELL COREY W. BUCHANAN	Sampling Time: 1257	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: _____

Signature: Corey W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/16 & 7/19/16	Site ID #: 18686	Site Name: FORMER TIGERLES QUICK STOP	Field Personnel: COREY U. Buchanan ZACKARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 556 (pH, Specific Conductivity, Temperature)	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 556 (Dissolved Oxygen)	13B100013	Y or N			
LaMotte (Turbidity) #ACH 21000	1604C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-20	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 23.32
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 14.30		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (fL): 9.02	1 casing volume (CV = LWC x C) (gals.): 1.44		3 casing volumes (3 x CV) (gals.): 4.32

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.44	2.88	4.32				
Time (military)	1256	1301	1306	1311				1311
PH (s.u.)	4.39	3.94	3.96	3.90				
Specific Conductivity (µS/cm)	116	118	116	115				
Water Temperature (°C)	20.95	20.68	20.00	20.31				
Turbidity (NTU)	258	71000	71000	71000				
Dissolved Oxygen (mg/L)	4.75	4.24	4.52	4.68				

Sampling Data

Sampled By: ZACKARY CAMPBELL Corey U. Buchanan	Sampling Time: 1311	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: _____

Signature: Corey U. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/12	Site ID #: 18686	Site Name: FORMER TIGERLES QUICK STOP	Field Personnel: COREY D. BUCHANAN ZACHARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 556 (pH, Specific Conductivity, Temperature)	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 556 (Dissolved Oxygen)	13B100013	Y or N			
LaMotte (Turbidity) #ACH 21002	1604C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-21	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 8 to 23		Total Well Depth (TWD) (ft.): 20.06
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.36		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 6.70	1 casing volume (CV = LWC x C) (gals.): 1.07		3 casing volumes (3 x CV) (gals.): 3.21

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.07	2.14	3.21				
Time (military)	1533	1538						1544
PH (s.u.)	4.32	4.60						
Specific Conductivity (µS/cm)	89	66						
Water Temperature (°C)	22.45	21.46						
Turbidity (NTU)	38.5	>1000						
Dissolved Oxygen (mg/L)	4.04	4.15						

Sampling Data

Sampled By: ~~ZACHARY CAMPBELL~~ Corey D. Buchanan	Sampling Time: 1544	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: LIMITED VOL., DRY @ 1.25 GAL

Signature: Corey D. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/12	Site ID #: 18686	Site Name: FORMER TISDALES QUICK STOP	Field Personnel: COREY W. Buchanan ZACHARY CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature) 556	13B100083	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen) 556	13B100013	Y or N			
LaMotte (Turbidity) #ACH 21000	1604C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-22	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other ___ Private WSW ___Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 23.35
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 14.15		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 9.2	1 casing volume (CV = LWC x C) (gals.): 1.47		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.47	2.94	4.41				
Time (military)	1649	1653	1700	1707				1707
PH (s.u.)	4.56	4.51	4.47		4.60			
Specific Conductivity (µS/cm)	55	72	87		101			
Water Temperature (°C)	21.02	21.82	21.72		24.40			
Turbidity (NTU)	207	>1000	>1000	>1000				
Dissolved Oxygen (mg/L)	4.74	4.24	4.52		4.59			

Sampling Data

Sampled By: ZACHARY CAMPBELL Corey W. Buchanan	Sampling Time: 1707	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: _____

Signature: Corey W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/12	Site ID #: 18686	Site Name: FORMER TIGGLES QUICK STOP	Field Personnel: CORY N. BUCHANAN ZACHARY CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 556 (pH, Specific Conductivity, Temperature)	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 556 (Dissolved Oxygen)	13B100013	Y or N			
LaMotte (Turbidity) HACH 21000	1604000049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-23	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 9 to 24		Total Well Depth (TWD) (ft.): 22.00
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.90		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 8.10	1 casing volume (CV = LWC x C) (gals.): 1.29		3 casing volumes (3 x CV) (gals.): 3.88

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.29	2.59	3.88				
Time (military)	1424	1438	1444	1448				1448
PH (s.u.)	5.16	4.33	4.05	4.01				
Specific Conductivity (µS/cm)	134	99	97	93				
Water Temperature (°C)	22.32	20.94	21.01	21.25				
Turbidity (NTU)	144	71000	71000	71000				
Dissolved Oxygen (mg/L)	1.81	2.75	3.03	4.59				

Sampling Data

Sampled By: ZACHARY CAMPBELL CORY N. BUCHANAN	Sampling Time: 1448	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: _____

Signature: Cory N. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/12	Site ID #: 18686	Site Name: FORMER TIGERLES QUICK STOP	Field Personnel: CORY N. Buchanan ZACHARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 556 (pH, Specific Conductivity, Temperature)	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 556 (Dissolved Oxygen)	13B100053	Y or N			
~~LaMotte~~ (Turbidity) HACH 21002	16040C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW - 24	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 8 to 23	Total Well Depth (TWD) (ft.): 20.80	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 11.81	Free Product Thickness (ft.): —	
Length of water column (LWC = TWD – DGW) (ft.): 8.99	1 casing volume (CV = LWC x C) (gals.): 1.50	3 casing volumes (3 x CV) (gals.): 4.50	

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.250	2.00	4.50				
Time (military)	1427	1435	1344	1350				1350
PH (s.u.)	4.91	4.16	4.00	4.01				
Specific Conductivity (µS/cm)	76	77	73	74				
Water Temperature (°C)	21.88	21.42	20.73	22.53				
Turbidity (NTU)	460.7	>1000	>1000	>1000				
Dissolved Oxygen (mg/L)	1.88	4.85	4.05	4.11				

Sampling Data

Sampled By: ZACHARY CAMPBELL Cory N. Buchanan	Sampling Time: 1350	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: _____

Signature: Cory N. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/12	Site ID #: 18686	Site Name: FORMER TISDALES QUICK STOP	Field Personnel: COREY N. Buchanan ZACKARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature) 556	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen) 556	13B100013	Y or N			
~~LaMotte~~ (Turbidity) HACH 21002	160400049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-25	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other ___ Private WSW ___Public WSW	Screened Interval (ft.): 3 to 23	Total Well Depth (TWD) (ft.): 20.62	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 11.98	Free Product Thickness (ft.): —	
Length of water column (LWC = TWD – DGW) (ft.): 8.64	1 casing volume (CV = LWC x C) (gals.): 1.38	3 casing volumes (3 x CV) (gals.): 4.14	

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.39	2.76	4.14				
Time (military)	~~2207~~ 1578	1553	1612	1616				1616
PH (s.u.)	5.24	5.45	5.52	5.63				
Specific Conductivity (µS/cm)	1060	154	174	147				
Water Temperature (°C)	22.71	21.37	21.45	21.97				
Turbidity (NTU)	96.8	>1000	>1000	>1000				
Dissolved Oxygen (mg/L)	1.99	1.64	1.28	1326				

Sampling Data

Sampled By: ~~ZACKARY CAMPBELL~~ (COREY N. Buchanan)	Sampling Time: 1616	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: _____

Signature: Corey N. Buchanan

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/12	Site ID #: 18686	Site Name: FORMER TIGERLES QUICK STOP	Field Personnel: COREY W. BUCHANAN ZACHARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 556 (pH, Specific Conductivity, Temperature)	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 556 (Dissolved Oxygen)	13B100053	Y or N			
LaMotte (Turbidity) HACH 21009	1602C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-26	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other ___ Private WSW ___Public WSW	Screened Interval (ft.): 6 to 21		Total Well Depth (TWD) (ft.): 19.45
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 11.26		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 8.19	1 casing volume (CV = LWC x C) (gals.): 1.32		3 casing volumes (3 x CV) (gals.): 3.93

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.31	2.62	3.93				
Time (military)	1623	1638	1644	1648				1648
PH (s.u.)	5.49	5.63	5.04	4.56				
Specific Conductivity (µS/cm)	76	72	69	61				
Water Temperature (°C)	21.75	21.80	21.10	21.89				
Turbidity (NTU)	14.1	71000	71000	71000				
Dissolved Oxygen (mg/L)	2.28	1.94	2.14	2.35				

Sampling Data

Sampled By: ZACHARY CAMPBELL COREY W. BUCHANAN	Sampling Time: 1648	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: _____

Signature: Corey W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/12	Site ID #: 18686	Site Name: FORMER TIGERLES QUICK STOP	Field Personnel: COREY W. Buchanan ZACKARY CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 556 (pH, Specific Conductivity, Temperature)	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 556 (Dissolved Oxygen)	13B100013	Y or N			
~~LaMotte~~ (Turbidity) HACH 21000	1604C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-27	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 24.50
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 15.77		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 8.81	1 casing volume (CV = LWC x C) (gals.): 1.40		3 casing volumes (3 x CV) (gals.): 3.20

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.40	2.80	~~3.20~~	3.20			
Time (military)	1641	1649	1658	~~1703~~	1703		1703	~~1725~~ 1707
PH (s.u.)	4.38	4.32	4.42	~~4.35~~	4.35			
Specific Conductivity (µS/cm)	93	98	124	~~123~~	123			
Water Temperature (°C)	21.47	23.38	26.32	~~22.78~~	22.78			
Turbidity (NTU)	64.2	>1000	>1000	~~>1000~~	>1000			
Dissolved Oxygen (mg/L)	4.80	4.12	5.05	~~5.19~~	5.19			

Sampling Data

Sampled By: ZACKARY CAMPBELL Corey W. Buchanan	Sampling Time: 1703	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: _____

Signature: Corey W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/12	Site ID #: 18686	Site Name: FORMER TISDALES QUICK STOP	Field Personnel: CORY N. BUCHANAN ZACHARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 556 (pH, Specific Conductivity, Temperature)	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 556 (Dissolved Oxygen)	13B100013	Y or N			
LaMotte (Turbidity) HACH 2100Q	1604C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-28	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 10 to 25	Total Well Depth (TWD) (ft.): 24.47	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 16.16	Free Product Thickness (ft.): —	
Length of water column (LWC = TWD – DGW) (ft.): 8.31	1 casing volume (CV = LWC x C) (gals.): 1.50	3 casing volumes (3 x CV) (gals.): 4.50	

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.50	3.00	4.50				
Time (military)	1501	1519	1529					1529
PH (s.u.)	4.05	3.60	3.68					
Specific Conductivity (µS/cm)	.737	687	663					
Water Temperature (°C)	21.86	20.84	21.37					
Turbidity (NTU)	45.1	536	552					
Dissolved Oxygen (mg/L)	4.19	4.37	4.81					

Sampling Data

Sampled By: ZACHARY CAMPBELL Cory N. Buchanan	Sampling Time: 1529	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: LIMITED H2O, DRY @ 4 gal

Signature: Cory N. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/12	Site ID #: 18686	Site Name: FORMER TIGERLES QUICK STOP	Field Personnel: CORey W. Buchanan ZACKARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 556 (pH, Specific Conductivity, Temperature)	13B100053	pH 4.0: Y or N	pH 7.0 Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 556 (Dissolved Oxygen)	13B100013	Y or N			
LaMotte (Turbidity) HACH 21009	1609C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-29	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other ___ Private WSW ___Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 23.54
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 14.94		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 8.60	1 casing volume (CV = LWC x C) (gals.): 1.37		3 casing volumes (3 x CV) (gals.): 4.12

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.37	2.75	4.12				
Time (military)	1504	1511	1520					1520
PH (s.u.)	4.29	3.78	3.90					
Specific Conductivity (µS/cm)	122	119	147					
Water Temperature (°C)	21.32	20.51	21.70					
Turbidity (NTU)	402	970	71000					
Dissolved Oxygen (mg/L)	4.96	4.50	4.10					

Sampling Data

Sampled By: ZACKARY CAMPBELL Corey W. Buchanan	Sampling Time: 1520	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: LIMITED VOL., DRY @ 2.75 gal

Signature: Corey W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/12	Site ID #: 18686	Site Name: FORMER TISDALES QUICK STOP	Field Personnel: COREY W. BUCHANAN ZACHARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature) 556	13B1000B	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen) 556	13B1000B	Y or N			
~~LaMotte~~ (Turbidity) #ACH21002	1604C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-30	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other ___Private WSW ___Public WSW	Screened Interval (ft.): 7 to 22		Total Well Depth (TWD) (ft.): 18.53
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.97		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 4.56	1 casing volume (CV = LWC x C) (gals.): 0.72		3 casing volumes (3 x CV) (gals.): 2.17

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	0.72	1.45	2.17				
Time (military)	1356	1402	1416					1416
PH (s.u.)	5.75	4.80	4.55					
Specific Conductivity (µS/cm)	69	67	68					
Water Temperature (°C)	22.39	21.47	23.36					
Turbidity (NTU)	83.4	281	421					
Dissolved Oxygen (mg/L)	4.67	4.83	4.38					

Sampling Data

Sampled By: ZACHARY CAMPBELL Corey W. Buchanan	Sampling Time: 1416	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: LIMITED VOL, DRY @ 2.0 GAL.

Signature: Corey W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/12	Site ID #: 18686	Site Name: FORMER TIGERLES QUICK STOP	Field Personnel: CORY W. BUCHANAN ZACKARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 556 (pH, Specific Conductivity, Temperature)	13B100013	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 556 (Dissolved Oxygen)	13B100013	Y or N			
LaMotte (Turbidity) HACH 21009	1604C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-31	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 10 to 20		Total Well Depth (TWD) (ft.): 20.01
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 14.91		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 5.10	1 casing volume (CV = LWC x C) (gals.): 0.81		3 casing volumes (3 x CV) (gals.): 2.44

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	0.81	1.63	2.44				
Time (military)	1351							1412
PH (s.u.)	6.05							
Specific Conductivity (µS/cm)	122							
Water Temperature (°C)	23.74							
Turbidity (NTU)	58.3							
Dissolved Oxygen (mg/L)	4.27							

Sampling Data

Sampled By: ZACKARY CAMPBELL CORY W. BUCHANAN	Sampling Time: 1412	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: LIMITED VOL., DRY @ 0.80 GAL

Signature: Cory W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/16 & 7/19/16	Site ID #: 18686	Site Name: FORMER TIGERLES QUICK STOP	Field Personnel: COREY U. Buchanan ZACKERY CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 556 (pH, Specific Conductivity, Temperature)	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 556 (Dissolved Oxygen)	13B100013	Y or N			
~~LaMotte~~ (Turbidity) HACH 21000	160400049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-1A	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): to NA	Total Well Depth (TWD) (ft.): 21.02	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.23	Free Product Thickness (ft.): —	
Length of water column (LWC = TWD – DGW) (ft.): 7.79	1 casing volume (CV = LWC x C) (gals.): 1.24	3 casing volumes (3 x CV) (gals.): 3.72	

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.24	2.48	3.72				
Time (military)	1156	1205	1210	1213				1218
PH (s.u.)	5.07	5.72	5.72	5.64				
Specific Conductivity (µS/cm)	361	338	318	300				
Water Temperature (°C)	21.65	21.30	20.89	20.86				
Turbidity (NTU)	47.1	824	722	7000				
Dissolved Oxygen (mg/L)	1.04	1.59	2.33	2.03				

Sampling Data

Sampled By: ZACKERY CAMPBELL Corey U. Buchanan	Sampling Time: 1213	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: ODOR

Signature: Corey U. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/16 & 07/19/16	Site ID #: 18686	Site Name: FORMER TIGERLES QUICK STOP	Field Personnel: COREY W. Buchanan ZACHARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature) 556	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen) 556	13B100013	Y or N			
~~LaMotte~~ (Turbidity) HACH 21002	16040C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-2A	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): to NA		Total Well Depth (TWD) (ft.): 20.02
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.31		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 6.71	1 casing volume (CV = LWC x C) (gals.): 1.07		3 casing volumes (3 x CV) (gals.): 3.21

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.07	2.14	3.21				
Time (military)	1138	1144	1149	1154				1154
PH (s.u.)	4.72	4.86	4.98	4.96				
Specific Conductivity (µS/cm)	188	217	204	198				
Water Temperature (°C)	21.22	20.90	20.67	23.35				
Turbidity (NTU)	22.7	34.7	74.6	134				
Dissolved Oxygen (mg/L)	1.27	1.32	1.61	3.53				

Sampling Data

Sampled By: ZACHARY CAMPBELL Corey W. Buchanan	Sampling Time: 1154	Duplicate: (Y) or N	If yes, Duplicate Time: 1154

Notes: Dup-B @ 1154
ODOR-SHEEN

Signature: Corey W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/12 & 07/19/12	Site ID #: 18686	Site Name: FORMER TIGGLES QUICK STOP	Field Personnel: COREY W. BUCHANAN ZACHARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature) 556	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen) 556	13B100013	Y or N			
~~LaMotte~~ (Turbidity) HACH 2100Q	1602C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-3a	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other ___ Private WSW ___Public WSW	Screened Interval (ft.): to NA	Total Well Depth (TWD) (ft.): 19.81	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.11	Free Product Thickness (ft.): —	
Length of water column (LWC = TWD – DGW) (ft.): 6.70	1 casing volume (CV = LWC x C) (gals.): 1.07	3 casing volumes (3 x CV) (gals.):	

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.07	2.14	3.21				
Time (military)	1227	1232	1235	1239				1239
PH (s.u.)	5.47	5.09	4.76	4.34				
Specific Conductivity (µS/cm)	153	131	125	~~40.48~~ EC 123				
Water Temperature (°C)	21.54	20.84	20.53	20.48				
Turbidity (NTU)	64.2	284	380	642				
Dissolved Oxygen (mg/L)	1.30	1.75	1.93	1.84				

Sampling Data

Sampled By: ZACHARY CAMPBELL Corey W. Buchanan	Sampling Time: 1239	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: ODOR / SHEEN

Signature: Corey W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/16 & 07/19/16	Site ID #: 18686	Site Name: FORMER TIDDALES QUICK STOP	Field Personnel: COREY W. Buchanan ZACHARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 556 (pH, Specific Conductivity, Temperature)	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 556 (Dissolved Oxygen)	13B100013	Y or N			
LaMotte (Turbidity) #ACH 21002	16040C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-4a	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other ___ ___Private WSW ___Public WSW	Screened Interval (ft.): to NA		Total Well Depth (TWD) (ft.): 20.52
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.78		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 6.74	1 casing volume (CV = LWC x C) (gals.): 1.07		3 casing volumes (3 x CV) (gals.): 3.21

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.07	2.14	3.21				
Time (military)	1141	1149	1158					1158
PH (s.u.)	4.70	4.77	4.61					
Specific Conductivity (µS/cm)	236	.244	254					
Water Temperature (°C)	23.07	21.75	21.87					
Turbidity (NTU)	37.5	298	352					
Dissolved Oxygen (mg/L)	1.30	2.11	2.15					

Sampling Data

Sampled By: ZACHARY CAMPBELL Corey W. Buchanan	Sampling Time: 1158	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: ODOR LIMITED VOL, DRY @ 2.25 GAL.

Signature: Corey W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/16 + 7/19/16	Site ID #: 18686	Site Name: FORMER TIDDLES QUICK STOP	Field Personnel: COREY U. Buchanan ZACKARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 556 (pH, Specific Conductivity, Temperature)	13B100093	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 556 (Dissolved Oxygen)	13B100093	Y or N			
LaMotte (Turbidity) HACH 2100Q	1604C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: FW-1	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 41 to 46	Total Well Depth (TWD) (ft.): 45.46	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 14.84	Free Product Thickness (ft.): —	
Length of water column (LWC = TWD – DGW) (ft.): 30.62	1 casing volume (CV = LWC x C) (gals.): 4.89	3 casing volumes (3 x CV) (gals.): 14.67	

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	4.89	4.78	14.67				
Time (military)	0940	0954	1004	1014				1014
PH (s.u.)	5.15	5.17	5.14	5.17				
Specific Conductivity (µS/cm)	156	175	187	183				
Water Temperature (°C)	23.30	21.69	22.50	21.94				
Turbidity (NTU)	2.38	15.2	14.1	3.61				
Dissolved Oxygen (mg/L)	4.21	2.83	2.56	2.28				

Sampling Data

Sampled By: ZACKARY CAMPBELL Corey U. Buchanan	Sampling Time: 1014	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: ___

Signature: Corey U. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/18/12	Site ID #: 18686	Site Name: FORMER TIGERLES QUICK STOP	Field Personnel: CORY W. BUCHANAN ZACHARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 556 (pH, Specific Conductivity, Temperature)	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 556 (Dissolved Oxygen)	13B100013	Y or N			
LaMotte (Turbidity) HACH 21002	1604C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: TW-2	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 46 to 51	Total Well Depth (TWD) (ft.): 50.25	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.17	Free Product Thickness (ft.): —	
Length of water column (LWC = TWD – DGW) (ft.): 37.08	1 casing volume (CV = LWC x C) (gals.): 5.93	3 casing volumes (3 x CV) (gals.): 17.79	

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	5.93	11.86	17.79				
Time (military)	1540	1551	1610	1630				1630
PH (s.u.)	1.34	2.40	2.89	5.65				
Specific Conductivity (µS/cm)	4.74	5.22	5.46	3.11				
Water Temperature (°C)	20.81	21.64	21.41	22.85				
Turbidity (NTU)	15.3	68.4	25.4	7.13				
Dissolved Oxygen (mg/L)	4.97	4.90	3.74	3.15				

Sampling Data

Sampled By: ZACHARY CAMPBELL Cory W. Buchanan	Sampling Time: 1630	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: _____

Signature: Cory W. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: ~~07/19/16~~ 07/21/16	Site ID #: 18686	Site Name: FORMER TIGERLES QUICK STOP	Field Personnel: CORY N. Buchanan ZACHARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 556 (pH, Specific Conductivity, Temperature)	13B100093	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 556 (Dissolved Oxygen)	13B100013	Y or N			
LaMotte (Turbidity) HACH 21002	16040C049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: WW-1	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
___MW ___IW ___RW ___Other ___ X Private WSW ___Public WSW	Screened Interval (ft.): to NA	Total Well Depth (TWD) (ft.): NA	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): NA	Free Product Thickness (ft.): —	
Length of water column (LWC = TWD – DGW) (ft.): NA	1 casing volume (CV = LWC x C) (gals.):	3 casing volumes (3 x CV) (gals.):	

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								1350
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: ZACHARY CAMPBELL Cory N. Buchanan	Sampling Time: 1350	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: BACK SPIGOT

Signature: Cory N. Buchanan

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: ~~07/07/16~~ 7/19/16	Site ID #: 18686	Site Name: FORMER TIGERLES QUICK STOP	Field Personnel: COREY W. Buchanan ZACKARY CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: CLOUDY	Ambient Air Temp (°F): 88°

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 556 (pH, Specific Conductivity, Temperature)	13B100053	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 556 (Dissolved Oxygen)	13B100013	Y or N			
~~LaMotte~~ (Turbidity) #ACH21009	1604000049270	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-3	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
___MW ___IW ___RW ___Other ___Private WSW ___Public WSW	Screened Interval (ft.): to NA		Total Well Depth (TWD) (ft.): NA
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): NA		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): NA	1 casing volume (CV = LWC x C) (gals.):		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)								1341
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: ZACKARY CAMPBELL Corey W. Buchanan	Sampling Time: 1341	Duplicate: Y or N	If yes, Duplicate Time: —

Notes: WELL HOUSE SPIGOT

Signature: Corey W. Buchanan

APPENDIX C

Disposal Manifest

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 1

3. Generator's Name and Mailing Address: TISDALE'S QUICK STOP, 1989 Thurgood Marshall Blvd., Kinston, SC

4. Generator's Phone ( )

5. Transporter 1 Company Name: GPI

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone: 704-845-4014

7. Transporter 2 Company Name: HERR Inc.

8. US EPA ID Number: NCR-000135914

C. State Transporter's ID

D. Transporter 2 Phone: 910-640-2607

9. Designated Facility Name and Site Address: CWS, 307 S. Maultsby St., Whiteville NC

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone: 910-640-2609

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non-Reg. Petroleum Contact purge water		DM	129.3	GAL
b.				
c.				
d.				

GENERATOR

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

NON-HAZARDOUS WASTE

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: W. Scott Ball - GPI — Signature: W Scott Ball — Date: Month 7, Day 27, Year 16

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: ZAC CAMPBELL - GPI — Signature: Zac Campbell — Date: Month 7, Day 27, Year 16

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: Marc Cut — Signature: [signature] — Date: Month 7, Day 27, Year 16

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.

Printed/Typed Name: I CHAN Cut — Signature: [signature] — Date: Month 7, Day 27, Year 16

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Rev. 3/95

APPENDIX D

Contractor Checklist

Contractor Checklist

For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, the No box should be checked and a thorough description of the reason must be provided.

Item #	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?	X		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?			X
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided?	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	X		
24	If free-product is present, has the thickness been provided?			X
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?	X		
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	X		
34	Has the current and historical laboratory data been provided in tabular format?	X		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)	X		
40	Has the site potentiometric map been provided? (Figure 5)	X		
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

Explanation for missing or incomplete information.

Geological Resources, Inc.

September 24, 2014





Mr. Jim Martin
SCDHEC-Underground Storage Tank Management Division
Bureau of Land & Waste Management
2600 Bull Street
Columbia, SC 29201

Re: Ground Water Monitoring Report
August 2014
Tisdale's Quick Stop
1989 Thurgood Marshall Blvd
Kingstree, Williamsburg County, SC
UST Permit No: 08686
GRI PROJECT No: 1543

Dear Mr. Martin,

Please find enclosed the referenced report for the above mentioned site. If you have any questions, please do not hesitate to contact Scott Ball at (704) 698-1223.

Sincerely,
Geological Resources, Inc.

J Donnelly

Jackie Donnelly
Project Coordinator

Enclosure

cc: Mr. Marty Easler
file

3502 Hayes Road • Monroe, North Carolina 28110
Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012

GROUND WATER MONITORING REPORT
AUGUST 2014
TISDALE'S QUICK STOP
1989 THURGOOD MARSHALL BOULEVARD
KINGSTREE, WILLIAMSBURG COUNTY
SOUTH CAROLINA
UST PERMIT NO. 18686
GRI PROJECT NO. 1543

Prepared for:

Mr. Marty Easler
196 Richburg Road
Greeleyville, SC 29056

Prepared by:

Geological Resources, Inc.
3502 Hayes Road
Monroe, North Carolina 28110
Class I UST Site Rehabilitation Contractor # 74

September 24, 2014

W. Scott Ball
Senior Project Manager

JOHANNA MARIE TESCHNER
REGISTERED
No. 2576
PROFESSIONAL GEOLOGIST
SOUTH CAROLINA

Johanna M. Teschner, P.G.
License # 2576

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FIGURES

Figure 1: Site Location Map
Figure 2: Site Map
Figure 3: Water Table Surface Map
Figure 4: Ground Water Quality Map

TABLES

Table 1: Summary of Ground Water Elevation Data
Table 2: Summary of Laboratory Analytical Results – Ground Water Samples
Table 3: Summary of Laboratory Analytical Results – Ground Water Samples – Oxygenates

APPENDICES

Appendix A: Laboratory Analytical Report - Ground Water Samples
Appendix B: Ground Water Sampling Data Sheets
Appendix C: Contractor Checklist

1.0 INTRODUCTION

This report presents the results of comprehensive ground water sampling activities conducted in August 2014 at the Tisdales Quick Stop site located at 1989 Thurgood Marshall Highway, in Kingstree, Williamsburg County, South Carolina (**Figures 1** and **2**). The activities were conducted in accordance with the "Groundwater Sampling Directive" dated July 30, 2014 from the SCDHEC. The purpose of the activities was to obtain current ground water quality data for the site.

The site is a former petroleum retail location. There are two buildings on site, the first is used as a convenience store and grill and the second building is used for a liquor store. Surrounding properties are a mix of commercial and residential. According to the South Carolina Underground Storage Tank (UST) registry database, a release at the site occurred on March 30, 2001, and the confirmation date of the release is listed as April 6, 2001. Two 550 gallon gasoline tanks and one 1,000 gallon diesel tank were removed March 1, 2001. A total of 37 monitoring wells (MW-1 through MW-31, MW-1A through MW-4A, TW-1 and TW-2) have been installed previously at the site. Please refer to earlier submittals for additional information regarding previous assessment activities.

2.0 FACILITY INFORMATION

- **Facility Name:** Tisdales Quick Stop
- **Location:** 1989 Thurgood Marshall Blvd (Highway 527)
  Kingstree, Williamsburg County
- **UST Permit No.** 18686
- **Property Owner:** Andy McKnight
  316 McCullough Loop
  Kingstree, South Carolina 29566
  (843) 382-2474
- **UST Owner/Operator:** Marty Easler
  196 Richburg Road
  Greeleyville, South Carolina 29056
  (843) 372-2502
- **Site Rehabilitation Contractor:** Geological Resources, Inc.
  3502 Hayes Road
  Monroe, North Carolina 28110
  (704) 845-4010
  Class 1, Certification Number 74
- **Laboratory:** Accutest Laboratories - Southeast
  4405 Vineland Road, Suite C-15
  Orlando, FL 32811

(407) 425-6700
State Certification Number: 96038001

Release Information:

- **Date Discovered:** March 30, 2001
- **Estimated Amount of Release:** Unknown
- **Source of Release:** Leaking UST System
- **UST Size/Contents:** Two 550 gallon gasoline tanks and one 1,000 gallon diesel tank (Removed March 1, 2001)
- **Latitude:** 33.6579897° North **Longitude:** 79.8127613° West

3.0 GROUND WATER QUALITY

Thirty Type III monitoring wells (MW-1 through MW-10, MW-13 through MW-15, MW-19 through MW-31 and MW-1A through MW-4A) and two telescoping monitoring wells (TW-1 and TW-2) were gauged, purged and/or sampled between August 27 and 28, 2014. Two water supply wells (WSW-1 and WSW-3) were also sampled on August 28, 2014. Monitoring well MW-2 contained a free product thickness of 0.02 feet, and therefore was not sampled. Monitoring well MW-17 was previously destroyed; and therefore, could not be sampled. Monitoring wells MW-11, MW-12, MW-16 and MW-18 could not be found and were not sampled. Monitoring wells MW-4 and MW-5 were obstructed and could be gauged but not sampled. Telescoping wells TW-1 and TW-2 as well as monitoring wells MW-3 and MW-21 were the only wells purged prior to sampling. The depths to ground water in the Type III monitoring wells which did not contain free product during the August 2014 sampling event ranged from 12.09 to 18.08 feet below the top of casings. Ground water elevations in the Type III monitoring wells relative to a temporary benchmark with an assumed datum of 100.00 feet ranged from 80.34 to 84.29 feet. Based on this data, ground water flow was generally toward the west. The horizontal hydraulic gradient across the site was less than 0.01 feet per foot. The vertical hydraulic gradient calculated for MW-1 and TW-1 was 0.029 feet per foot downward. A Site Map showing the locations of the monitoring wells and the structures on-site has been included as **Figure 2**. A Water Table Surface Map for the August 2014 sampling event has been included as **Figure 3**. A summary of well construction and gauging information is presented in **Table 1**.

Laboratory analyses were performed on the ground water samples collected from the monitoring wells during the August 2014 sampling event for BTEX, MTBE, naphthalene, 1,2-DCA and eight oxygenates using EPA Method 8260 as well as EDB by EPA Method 8011. Concentrations of benzene, toluene, ethylbenzene, xylenes, MTBE, naphthalene and/or EDB that exceeded the RBSLs were reported in the ground water samples collected from MW-1, MW-23, MW-1A, MW-2A, MW-3A and MW-4A. Detectable concentrations of oxygenates were reported in the samples collected from MW-1, MW-13, MW-23, MW-1A, MW-2A, MW-3A

and MW-4A. No detectable concentrations of requested method constituents were reported in the water supply well samples. A Ground Water Quality Map based on data from the August 2014 sampling event has been included as **Figure 4**. Summaries of ground water sample analytical results are presented in **Tables 2** and **3**. A complete laboratory report has been included as **Appendix A**. Ground water sampling data sheets have been included as **Appendix B**.

4.0 QA/QC

Monitoring well gauging, purging and sampling was conducted in general accordance with the SCDHEC Programmatic QAPP and the approved site specific Contractor Addendum. All wells were purged and/or sampled with dedicated disposable bailers. All field measurement equipment was properly decontaminated between sampling locations. Duplicate samples from monitoring wells MW-1 and MW-2A, as well as a field blank were collected during the sampling activities. A trip blank was included in the sample cooler. Laboratory results for MW-1 and MW-1 DUP as well as MW-2A and MW-2A DUP showed similar concentrations. No detectable concentrations of requested method constituents were reported for the trip blank or field blank. All applicable items on the Contractor Checklist were reviewed and verified. A copy of the Contractor Checklist is included as **Appendix C**.

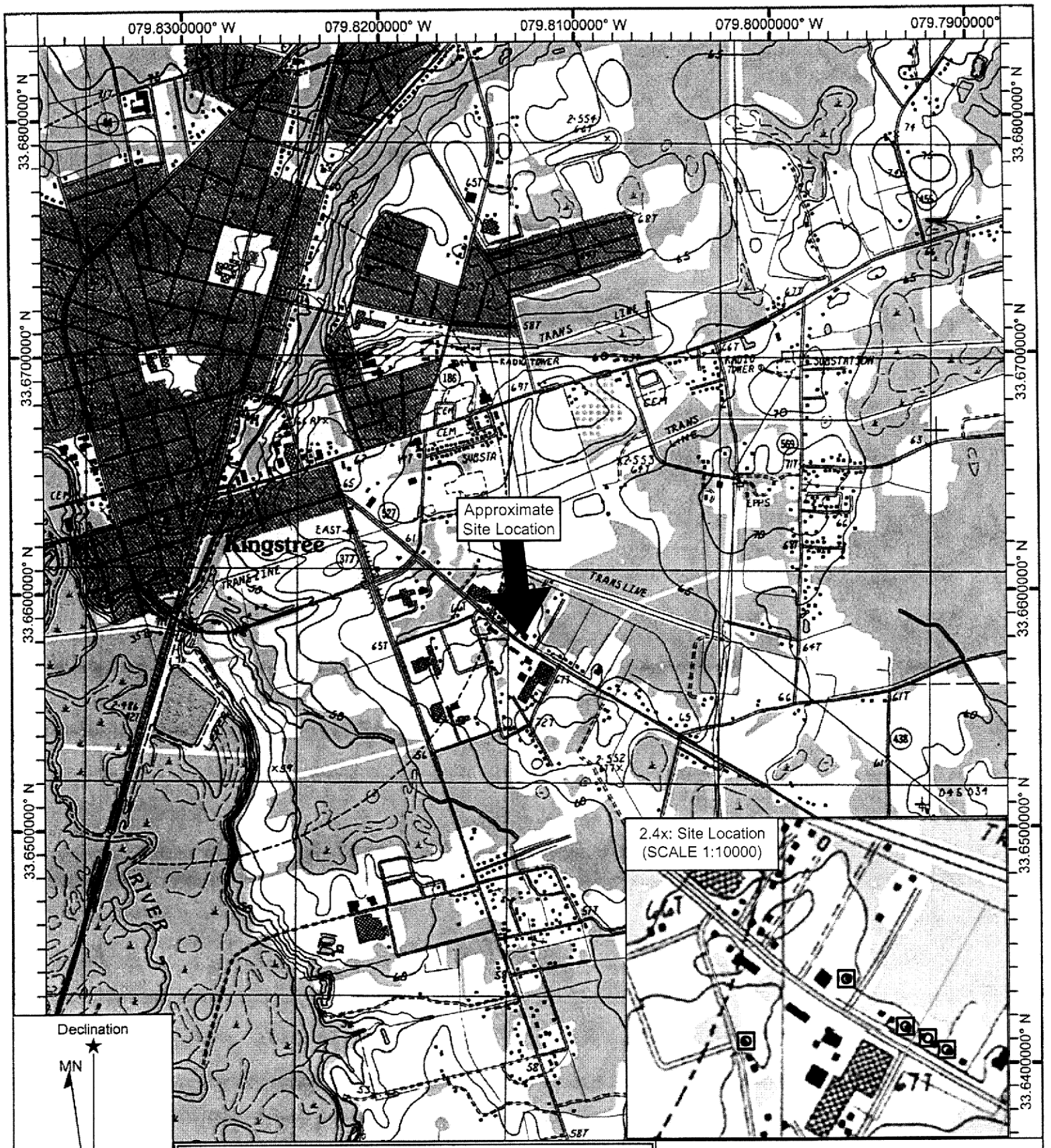
5.0 CONCLUSIONS AND RECOMMENDATIONS

- A total of thirty monitoring wells and two water supply wells were gauged, purged and/or sampled in August 2014. A free product thickness of 0.02 feet was observed in monitoring well MW-2. Ground water flow at the site based on the August 2014 event was generally toward the west. The horizontal hydraulic gradient across the site was less than 0.01 feet per foot. The vertical hydraulic gradient was 0.029 feet per foot downward.
- Concentrations of benzene, toluene, ethylbenzene, xylenes, MTBE, naphthalene and/or EDB that exceeded the RBSLs were reported in the ground water samples collected from MW-1, MW-23, MW-1A, MW-2A, MW-3A and MW-4A. Detectable concentrations of oxygenates were reported in samples collected from MW-1, MW-13, MW-23, MW-1A, MW-2A, MW-3A and MW-4A. No detectable concentrations of requested method constituents were reported in the water supply well samples.
- Based on the current and historical presence of free product, an AFVR or MMPE event is recommended for the affected wells. In addition, monitoring well MW-16 historically contained free product or elevated levels of dissolved-phase contaminants and should be replaced.
- Ground water sampling should continue as directed by the SCDHEC.

6.0 LIMITATIONS

This report has been prepared for the exclusive use of Mr. Marty Easler and the SCDHEC for specific application to the referenced site in Williamsburg County, South Carolina. The assessment was conducted based on the scope of work and level of effort specified by the SCDHEC and with resources adequate only for that scope of work. Our findings have been developed in accordance with generally accepted standards of geology and hydrogeology practices in the State of South Carolina, available information, and our professional judgment. No other warranty is expressed or implied.

The data that are presented in this report are indicative of conditions that existed at the precise locations sampled and at the time the samples were collected. In addition, the data obtained from samples would be interpreted as being meaningful with respect to parameters indicated in the laboratory report. No additional information can logically be inferred from these data.



Declination

MN

MN 7.96° W

Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit # 18686

SCALE 1:24000

0 1000 2000 3000 4000 5000

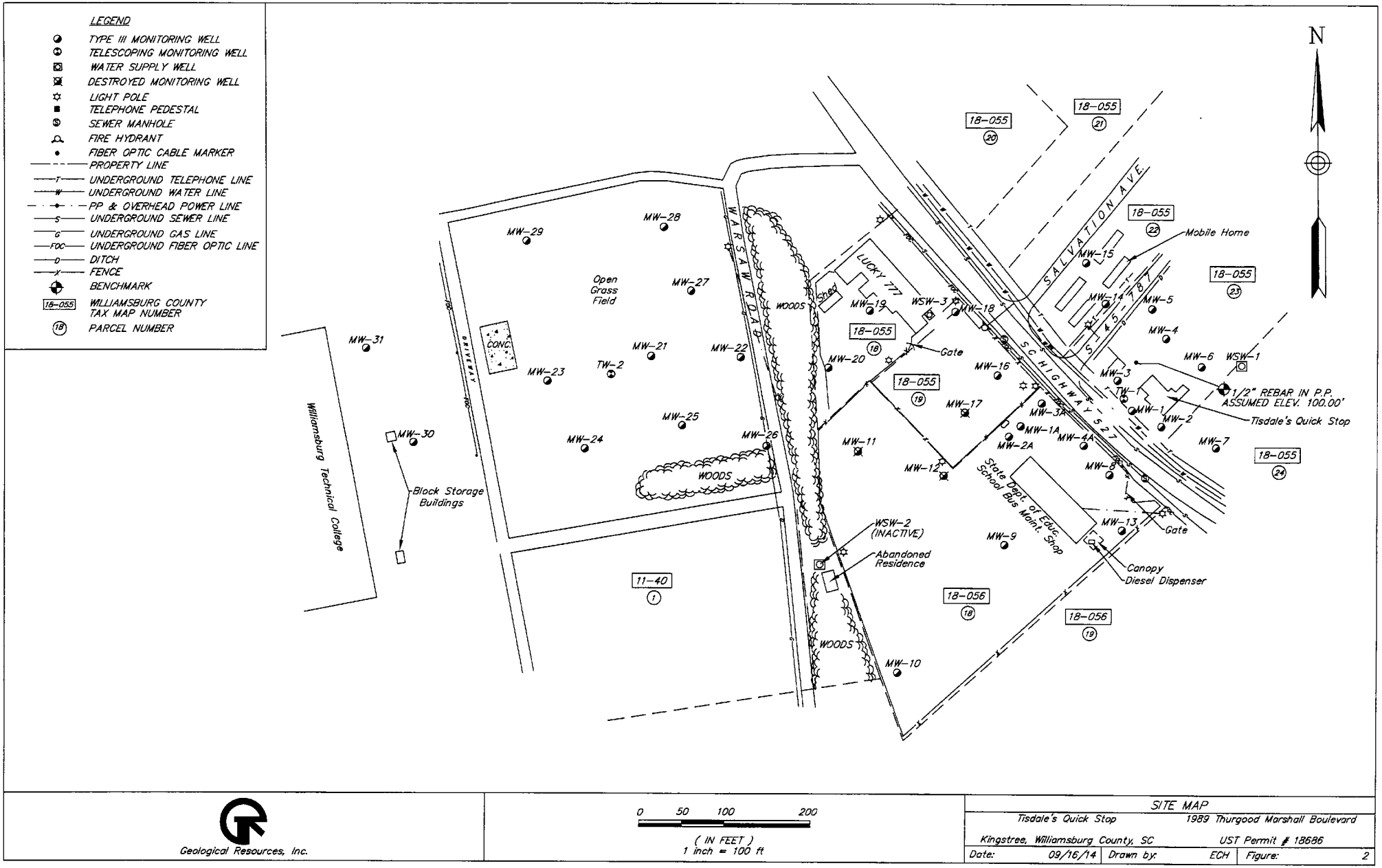
FEET

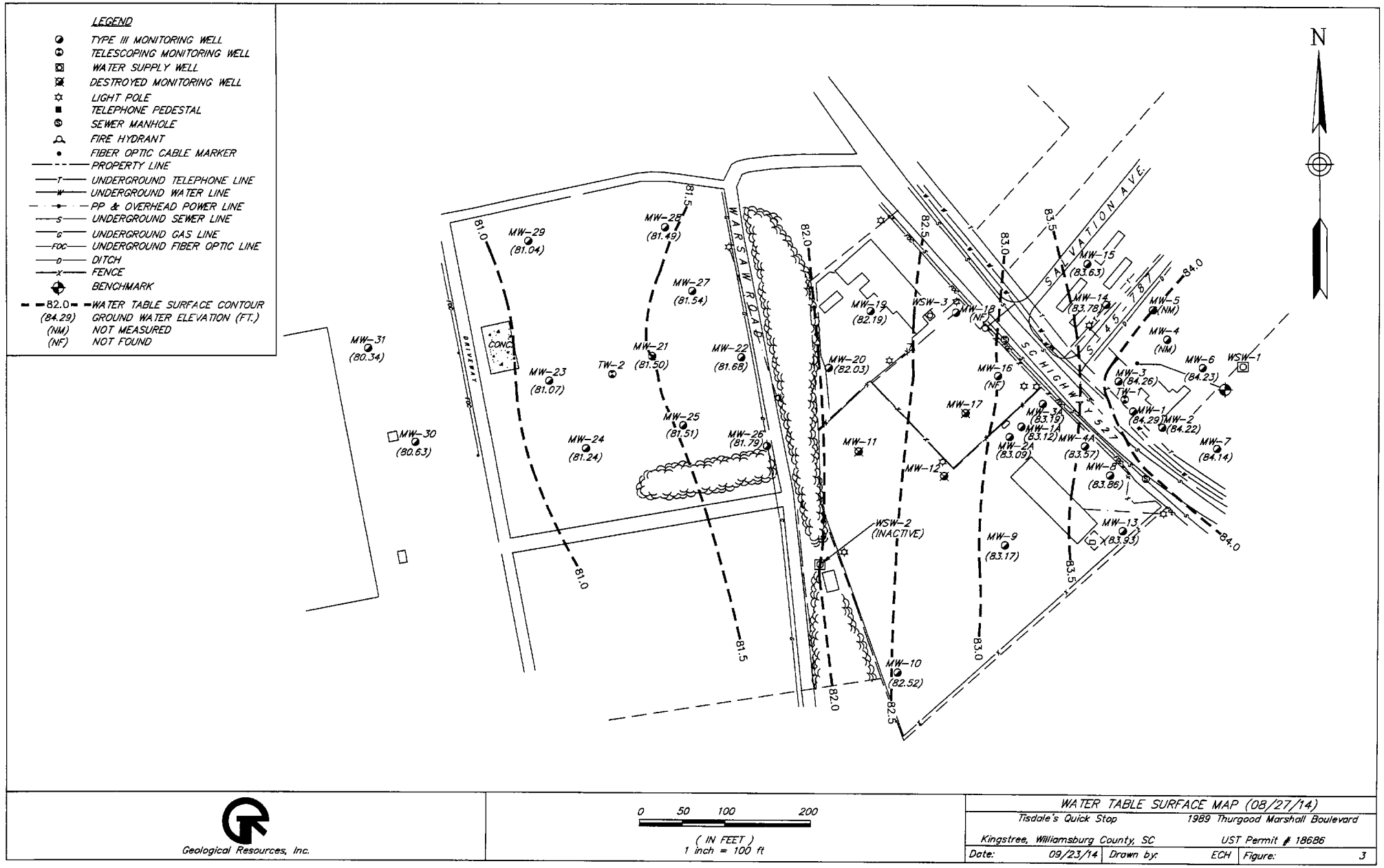
Legend: Water Supply Well

Name: Topographic Map
Date: 09/16/14
Scale: 1 inch = 2,000 ft.

Location: 033.6579897° N 079.8127613° W

Generated by ECH at Geological Resources, Inc.


LEGEND
TYPE III MONITORING WELL
TELESCOPING MONITORING WELL
WATER SUPPLY WELL
DESTROYED MONITORING WELL
LIGHT POLE
TELEPHONE PEDESTAL
SEWER MANHOLE
FIRE HYDRANT
FIBER OPTIC CABLE MARKER
PROPERTY LINE
UNDERGROUND TELEPHONE LINE
UNDERGROUND WATER LINE
PP & OVERHEAD POWER LINE
UNDERGROUND SEWER LINE
UNDERGROUND GAS LINE
UNDERGROUND FIBER OPTIC LINE
DITCH
FENCE
BENCHMARK
18-055 WILLIAMSBURG COUNTY TAX MAP NUMBER
(18) PARCEL NUMBER
N
MW-28
MW-29
MW-31
MW-30
MW-27
MW-21
MW-22
MW-23
TW-2
MW-25
MW-24
MW-26
MW-19
MW-18
MW-20
MW-16
MW-17
MW-11
MW-12
MW-15
MW-14
MW-5
MW-4
MW-6
WSW-1
MW-3
TW-1
MW-1
MW-2
MW-3A
MW-1A
MW-2A
MW-4A
MW-7
MW-8
MW-13
MW-9
MW-10
WSW-3
WSW-2 (INACTIVE)
Open Grass Field
WOODS
CONC.
DRIVEWAY
WARSAW ROAD
LUCKY 777
Shed
Gate
SC HIGHWAY 527
SALVATION AVE.
Mobile Home
1/2" REBAR IN P.P. ASSUMED ELEV. 100.00'
Tisdale's Quick Stop
Williamsburg Technical College
Block Storage Buildings
Abandoned Residence
State Dept. of Educ. School Bus Maint. Shop
Canopy
Diesel Dispenser
18-055 (20)
18-055 (21)
18-055 (22)
18-055 (23)
18-055 (24)
18-055 (18)
18-055 (19)
11-40 (1)
18-056 (18)
18-056 (19)
Geological Resources, Inc.
0 50 100 200
(IN FEET)
1 inch = 100 ft
SITE MAP
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County, SC
UST Permit # 18686
Date: 09/16/14
Drawn by: ECH
Figure: 2



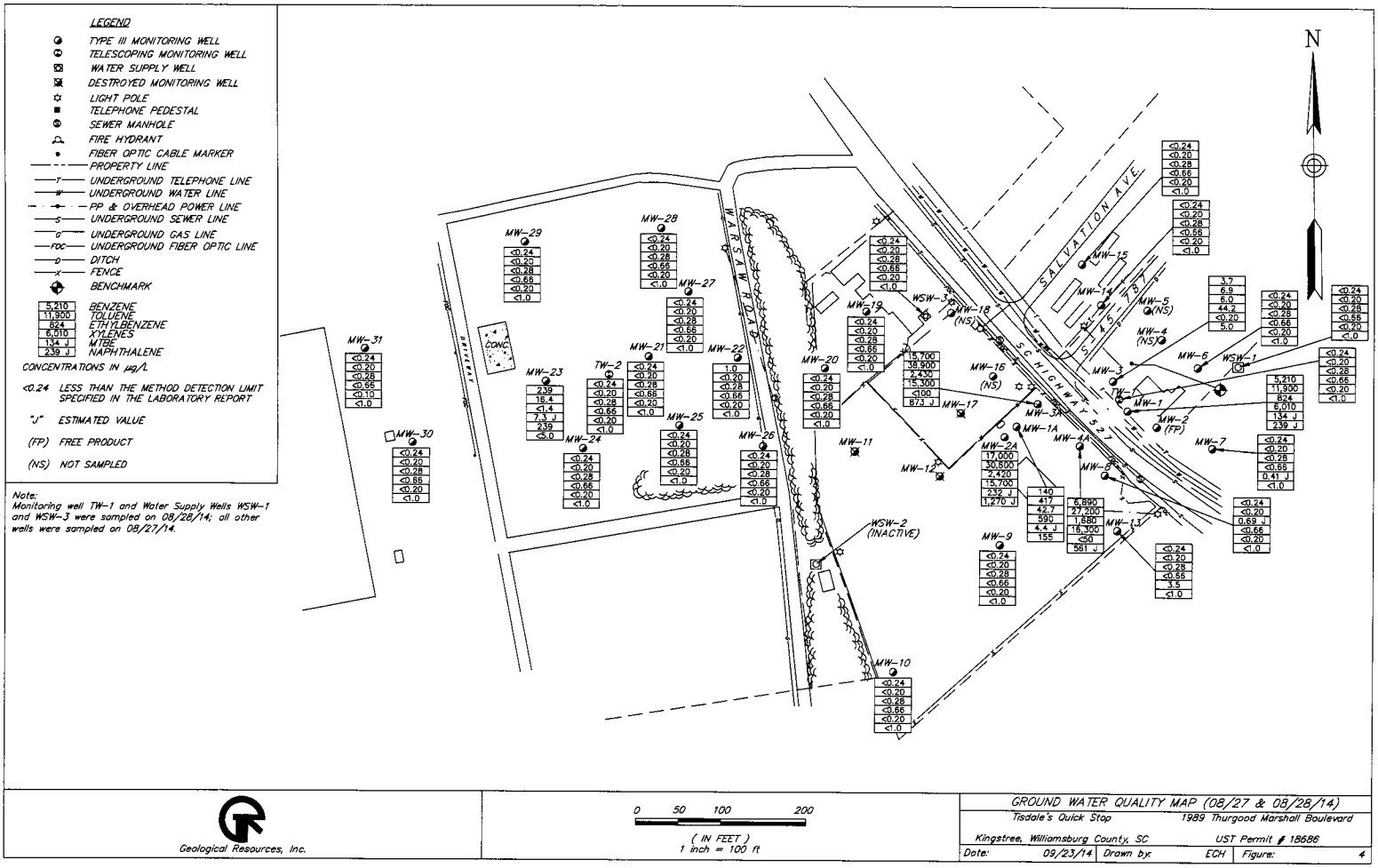
Geological Resources, Inc.

WATER TABLE SURFACE MAP (08/27/14)

Tisdale's Quick Stop — 1989 Thurgood Marshall Boulevard

Kingstree, Williamsburg County, SC — UST Permit # 18686

Date:	09/23/14	Drawn by:	ECH	Figure:	3



Geological Resources, Inc.

GROUND WATER QUALITY MAP (08/27 & 08/28/14)

Tisdale's Quick Stop — 1989 Thurgood Marshall Boulevard

Kingstree, Williamsburg County, SC — UST Permit # 18686

Date:	09/23/14	Drawn by:	ECH	Figure:	4

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-1	01/16/03	98.81	15.72		83.09	20	10-20
	02/09/04		14.25		84.56		
	09/23/04		11.94		86.87		
	01/21/05		13.09		85.72		
	03/23/06		12.43		86.38		
	01/07/09		15.12		83.69		
	11/04/09		15.58		83.23		
	11/22/11		17.46		81.35		
	11/06/13		14.83		83.98		
	08/27/14		14.52		84.29		
MW-2	01/16/03	98.82	17.35	1.90	83.10	25	10-25
	02/09/04		15.17	1.07	84.57		
	09/23/04		12.95	1.18	86.88		
	01/21/05		13.61	0.61	85.73		
	03/23/06		12.43		86.39		
	01/07/09		15.03	0.02	83.81		
	11/03/09		15.97	0.11	82.94		
	11/22/11		17.87		80.95		
	11/06/13		15.02	0.21	83.98		
	08/27/14		14.62	0.02	84.22		
MW-3	01/16/03	98.74	15.36	0.33	83.66	25	10-25
	02/09/04		14.34	0.19	84.56		
	09/23/04		12.12	0.06	86.67		
	01/21/05		13.38	0.02	85.38		
	03/23/06		12.37		86.37		
	01/07/09		15.27	0.12	83.57		
	11/03/09		15.82	0.12	83.02		
	11/22/11		17.47	0.04	81.30		
	11/06/13		14.69	0.01	84.06		
	08/27/14		14.48		84.26		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-4	01/16/03	98.58	15.06		83.52	25	10-25
	02/09/04		14.01		84.57		
	09/23/04		11.96		86.62		
	01/21/05		13.13		85.45		
	03/23/06		12.24		86.34		
	01/07/09		14.84		83.74		
	11/04/09		15.68		82.90		
	11/22/11		OBS		OBS		
	11/06/13		OBS		OBS		
	08/27/14		OBS		OBS		
MW-5	01/16/03	98.13	14.77		83.36	22	12-22
	02/09/04		13.77		84.36		
	09/23/04		11.71		86.42		
	01/21/05		13.14		84.99		
	03/23/06		12.80		85.33		
	01/07/09		14.96		83.17		
	11/04/09		15.26		82.87		
	11/22/11		OBS		OBS		
	11/06/13		OBS		OBS		
	08/27/14		OBS		OBS		
MW-6	01/16/03	98.50	14.64		83.86	21.5	11.5-21.5
	02/09/04		13.86		84.64		
	09/23/04		11.86		86.64		
	01/21/05		13.38		85.12		
	03/23/06		12.81		85.69		
	01/07/09		15.00		83.50		
	11/03/09		15.23		83.27		
	11/22/11		17.47		81.03		
	11/06/13		14.39		84.11		
	08/27/14		14.27		84.23		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-7	01/16/03	98.19	14.69		83.50	22	12-22
	02/09/04		13.56		84.63		
	09/23/04		11.56		86.63		
	01/21/05		12.78		85.41		
	03/23/06		11.73		86.46		
	01/07/09		14.60		83.59		
	11/03/09		15.27		82.92		
	11/22/11		17.32		80.87		
	11/06/13		14.26		83.93		
	08/27/14		14.05		84.14		
MW-8	01/16/03	98.17	14.85		83.32	22	12-22
	02/09/04		13.98		84.19		
	09/23/04		12.07		86.10		
	01/21/05		13.33		84.84		
	03/23/06		12.14		86.03		
	01/08/09		15.00		83.17		
	11/03/09		15.45		82.72		
	11/22/11		17.55		80.62		
	11/06/13		14.45		83.72		
	08/27/14		14.31		83.86		
MW-9	01/16/03	98.52	15.79		82.73	22	12-22
	02/09/04		15.00		83.52		
	09/23/04		13.12		85.40		
	01/21/05		14.64		83.88		
	03/23/06		13.29		85.23		
	01/08/09		16.01		82.51		
	11/03/09		16.56		81.96		
	11/22/11		18.73		79.79		
	11/06/13		15.51		83.01		
	08/27/14		15.35		83.17		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-10	01/16/03	98.68	16.52		82.16	25	10-25
	02/09/04		15.79		82.89		
	09/23/04		13.97		84.71		
	01/21/05		15.35		83.33		
	03/23/06		14.18		84.50		
	01/08/09		15.75		82.93		
	11/03/09		17.41		81.27		
	11/22/11		19.43		79.25		
	11/06/13		13.37		85.31		
	08/27/14		16.16		82.52		
MW-11	01/16/03	94.65	12.89		81.76	22	7-22
	02/09/04		12.10		82.55		
	09/23/04		10.51		84.14		
	01/21/05		11.68		82.97		
	03/23/06		10.55		84.10		
	01/08/09		NM		NM		
	11/03/09		NM		NM		
	11/22/11		NM		NM		
	11/06/13		NM		NM		
	08/27/14		NM		NM		
MW-12	01/16/03	95.70	13.13		82.57	22	7-22
	02/09/04		12.35		83.35		
	09/23/04		12.67		83.03		
	01/21/05		12.06		83.64		
	03/23/06		10.80		84.90		
	01/08/09		NM		NM		
	11/03/09		NM		NM		
	11/22/11		NM		NM		
	11/06/13		NM		NM		
	08/27/14		NM		NM		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-13	01/16/03	99.01	15.65		83.36	25	10-25
	02/09/04		14.70		84.31		
	09/23/04		12.90		86.11		
	01/21/05		14.05		84.96		
	03/23/06		12.82		86.19		
	01/08/09		15.68		83.33		
	11/03/09		16.30		82.71		
	11/22/11		18.57		80.44		
	11/06/13		15.25		83.76		
	08/27/14		15.08		83.93		
MW-14	01/16/03	98.36	15.12		83.24	25	10-25
	02/09/04		14.24		84.12		
	09/23/04		12.03		86.33		
	01/21/05		13.78		84.58		
	03/23/06		12.75		85.61		
	01/08/09		15.32		83.04		
	11/04/09		15.77		82.59		
	11/22/11		17.72		80.64		
	11/06/13		15.86		82.50		
	08/27/14		14.58		83.78		
MW-15	01/16/03	99.59	16.40		83.19	25	10-25
	02/09/04		15.55		84.04		
	09/23/04		13.50		86.09		
	01/21/05		14.89		84.70		
	03/23/06		13.92		85.67		
	01/08/09		16.63		82.96		
	11/04/09		17.16		82.43		
	11/22/11		19.15		80.44		
	11/06/13		16.26		83.33		
	08/27/14		15.96		83.63		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-16	01/16/03	98.93	16.21	0.04	82.75	23	8-23
	02/09/04		15.24	0.04	83.72		
	09/23/04		13.55		85.38		
	01/21/05		14.81	0.02	84.14		
	03/23/06		13.60		85.33		
	01/08/09		16.21		82.72		
	11/04/09		16.57		82.36		
	11/22/11		NM		NM		
	11/06/13		NM		NM		
	08/27/14		NM		NM		
MW-17	01/16/03	98.25	16.00	0.07	82.31	23	8-23
	02/09/04		14.55		83.70		
	09/23/04		12.82		85.43		
	01/21/05		13.78		84.47		
	03/23/06		NM		NM		
MW-18	01/16/03	99.83	17.70		82.13	25	10-25
	02/09/04		16.91		82.92		
	09/23/04		15.06		84.77		
	01/21/05		16.45		83.38		
	03/23/06		15.31		84.52		
	01/08/09		17.89		81.94		
	11/04/09		18.40		81.43		
	11/22/11		20.20		79.63		
	11/06/13		NM		NM		
	08/27/14		NM		NM		
MW-19	01/16/03	100.27	18.54		81.73	25	10-25
	02/09/04		17.63		82.64		
	09/23/04		16.00		84.27		
	01/21/05		17.21		83.06		
	03/23/06		16.15		84.12		
	01/08/09		NM		NM		
	11/04/09		19.22		81.05		
	11/22/11		20.93		79.34		
	11/06/13		18.50		81.77		
	08/27/14		18.08		82.19		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-20	01/16/03	97.21	15.59		81.62	25	10-25
	02/09/04		14.74		82.47		
	09/23/04		13.15		84.06		
	01/21/05		14.33		82.88		
	03/23/06		13.21		84.00		
	01/08/09		NM		NM		
	11/04/09		16.30		80.91		
	11/22/11		18.02		79.19		
	11/06/13		15.36		81.85		
	08/27/14		15.18		82.03		
MW-21	01/16/03	95.72	14.70		81.02	23	8-23
	02/09/04		13.85		81.87		
	09/23/04		12.27		83.45		
	01/21/05		13.42		82.30		
	03/23/06		NM		NM		
	01/08/09		NM		NM		
	11/04/09		15.35		80.37		
	11/22/11		17.01		78.71		
	11/06/13		NM		NM		
	08/27/14		14.22		81.50		
MW-22	01/16/03	96.68	15.40		80.32	25	10-25
	02/09/04		14.61		82.07		
	09/23/04		12.92		83.76		
	01/21/05		14.15		82.53		
	03/23/06		13.21		83.47		
	01/08/09		15.54		81.14		
	11/04/09		16.08		80.60		
	11/22/11		17.75		78.93		
	11/06/13		15.17		81.51		
	08/27/14		15.00		81.68		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-23	01/16/03	95.78	15.08		80.70	24	9-24
	02/09/04		14.30		81.48		
	09/23/04		12.72		83.06		
	01/20/05		13.82		81.96		
	03/23/06		13.09		82.69		
	01/08/09		15.21		80.57		
	11/04/09		15.64		80.14		
	11/22/11		17.28		78.50		
	11/06/13		14.82		80.96		
	08/27/14		14.71		81.07		
MW-24	01/16/03	93.86	13.00		80.86	23	8-23
	02/09/04		12.19		81.67		
	09/23/04		10.58		83.28		
	01/20/05		11.71		82.15		
	03/23/06		10.87		82.99		
	01/08/09		13.17		80.69		
	11/04/09		13.79		80.07		
	11/22/11		15.28		78.58		
	11/06/13		12.86		81.00		
	08/27/14		12.62		81.24		
MW-25	01/16/03	94.30	13.20		81.10	23	8-23
	02/09/04		12.37		81.93		
	09/23/04		10.74		83.56		
	01/20/05		11.99		82.31		
	03/23/06		11.00		83.30		
	01/08/09		13.34		80.96		
	11/04/09		13.83		80.47		
	11/22/11		15.56		78.74		
	11/06/13		13.00		81.30		
	08/27/14		12.79		81.51		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-26	01/16/03	93.88	12.38		81.50	21	6-21
	02/09/04		11.62		82.26		
	09/23/04		10.03		83.85		
	01/20/05		11.18		82.70		
	03/23/06		10.58		83.30		
	01/08/09		12.44		81.44		
	11/04/09		13.26		80.62		
	11/22/11		14.92		78.96		
	11/06/13		12.31		81.57		
	08/27/14		12.09		81.79		
MW-27	01/16/03	98.15	16.99		81.16	25	10-25
	02/09/04		16.20		81.95		
	09/23/04		14.61		83.54		
	01/21/05		15.81		82.34		
	03/23/06		14.84		83.31		
	01/08/09		17.20		80.95		
	11/04/09		17.64		80.51		
	11/22/11		19.30		78.85		
	11/06/13		16.74		81.41		
	08/27/14		16.61		81.54		
MW-28	01/16/03	98.45	17.46		80.99	25	10-25
	02/09/04		16.55		81.90		
	09/23/04		15.00		83.45		
	01/21/05		16.17		82.28		
	03/23/06		15.21		83.24		
	01/08/09		NM		NM		
	11/04/09		18.00		80.45		
	11/22/11		19.60		78.85		
	11/06/13		17.11		81.34		
	08/27/14		16.96		81.49		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-29	01/16/03	96.78	16.17		80.61	25	10-25
	02/09/04		15.30		81.48		
	09/23/04		13.74		83.04		
	01/20/05		14.69		82.09		
	03/23/06		14.12		82.66		
	01/08/09		16.31		80.47		
	11/04/09		16.71		80.07		
	11/22/11		18.26		78.52		
	11/06/13		15.89		80.89		
	08/27/14		15.74		81.04		
MW-30	01/16/03	95.38	15.18		80.20	22	7-22
	02/09/04		14.36		81.02		
	09/23/04		12.85		82.53		
	01/20/05		13.72		81.66		
	03/23/06		13.04		82.34		
	01/08/09		15.41		79.97		
	11/04/09		15.74		79.64		
	11/22/11		17.36		78.02		
	11/06/13		14.95		80.43		
	08/27/14		14.75		80.63		
MW-31	09/23/04	96.05	13.88		82.17	20	10-20
	01/20/05		14.73		81.32		
	03/23/06		14.22		81.83		
	01/08/09		16.49		79.56		
	11/04/09		16.37		79.68		
	11/22/11		18.20		77.85		
	11/06/13		15.81		80.24		
	08/27/14		15.71		80.34		
MW-1A	01/21/05	97.20	13.46	0.09	83.82	Unknown	Unknown
	03/23/06		12.11		85.09		
	01/08/09		14.99		82.21		
	11/03/09		15.25	0.06	82.00		
	11/22/11		17.76	0.85	80.17		
	11/06/13		14.11	0.01	83.10		
	08/27/14		14.08		83.12		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
MW-2A	01/21/05	97.30	13.63	0.28	83.91	Unknown	Unknown
	03/23/06		12.54	0.31	85.03		
	01/08/09		15.86	0.54	81.90		
	11/03/09		15.61	0.02	81.71		
	11/22/11		17.26		80.04		
	11/06/13		14.25	0.03	83.08		
	08/27/14		14.21		83.09		
MW-3A	01/21/05	97.27	13.46	0.22	84.00	Unknown	Unknown
	03/23/06		12.22	0.03	85.08		
	01/08/09		15.68	1.00	82.45		
	11/03/09		15.63	0.47	82.04		
	11/22/11		18.02	0.82	79.95		
	11/06/13		14.12	0.06	83.20		
	08/27/14		14.08		83.19		
MW-4A	01/21/05	98.09	13.06	0.02	85.05	Unknown	Unknown
	03/23/06		12.43		85.66		
	01/08/09		16.02	0.85	82.80		
	11/03/09		15.62	0.02	82.49		
	11/22/11		17.84	0.02	80.27		
	11/06/13		14.61		83.48		
	08/27/14		14.52		83.57		
TW-1	01/16/03	99.01	15.14		83.87	46	41-46
	02/09/04		14.81		84.20		
	09/23/04		13.16		85.85		
	01/21/05		14.39		84.62		
	03/23/06		13.35		85.66		
	01/08/09		15.97		83.04		
	11/04/09		16.84		82.17		
	11/22/11		18.76		80.25		
	11/06/13		15.76		83.25		
	08/27/14		15.54		83.47		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation	Depth to Ground Water	Free Product Thickness	Ground Water Elevation	Constructed Well Depth	Screened Interval
TW-2	01/16/03	95.26	14.33		80.93	51	46-51
	02/09/04		13.58		81.68		
	09/23/04		11.98		83.28		
	01/21/05		13.07		82.19		
	03/23/06		12.10		83.16		
	01/08/09		14.52		80.74		
	11/04/09		15.01		80.25		
	11/22/11		16.63		78.63		
	11/06/13		14.19		81.07		
	08/27/14		13.97		81.29		

Notes:

- Elevations relative to a temporary benchmark with an assumed datum of 100.00 feet; data reported in feet.
- ** : If free product is present in a well, groundwater elevation calculated by: [Top of Casing Elevation - Depth to Water] + [free product thickness x 0.8581].
- NM: Not measured; monitoring well is destroyed, covered or could not be located.
- OBS: Monitoring well obstructed.
- Monitoring wells MW-1A through MW-4A were installed by S&ME Consultants in January 2000.
- Monitoring wells MW-16 and MW-17 were completed above grade with stand up covers; depths to ground water were measured from the tops of casing; well depths and screened intervals were measured from the ground surface.

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-1	01/17/03	**17,300**	**31,000**	**2,220**	**12,800**	**495**	**515**	-	**0.13**
	02/09/04	**11,400**	**19,600**	**1,010**	**12,000**	**395**	**525**	-	NR
	10/07/04	**4,160**	**7,500**	504	4,400	**348**	**290**	-	0.03
	01/21/05	**8,150**	**13,500**	**790**	7,170	**560**	<500	-	NR
	03/24/06	**7,800**	**11,800**	552	6,640	**833**	<100	-	NR
	01/07/09	**15,700**	**15,100**	**1,600**	**12,310**	**1,120**	**878**	<500	**0.092**
	11/04/09	**7,120**	**12,600**	**988**	6,940	<500	<500	<500	**0.056**
	11/23/11	**6,630**	**9,340**	664	4,300	**399**	**210 J**	<20	NR
	11/06/13	**4,870**	**8,550**	659	4,900	**125**	**165 J**	<22	NR
	08/27/14	**5,210**	**11,900**	**824**	6,010	**134 J**	**239 J**	<48	<0.0095
MW-1 DUP (DUP A)	11/06/13	**5,090**	**10,600**	687	4,830	**105 J**	<200	<44	NR
	08/27/14	**5,210**	**12,300**	**845**	6,140	**130 J**	**210 J**	<48	<0.0095
MW-2	01/17/03	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	02/09/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	10/07/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	01/21/05	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	03/24/06	**14,600**	**17,900**	**2,240**	**12,000**	**164**	**495**	**FP**	NR
	01/07/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/23/11	**20,100**	**23,800**	**1,810**	9,030	**89.8 J**	**413 J**	<50	NR
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-2 DUP (DUP 2)	11/23/11	**20,600**	**24,500**	**2,030**	10,000	**92.5 J**	**620 J**	<50	NR

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-3	01/17/03	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	02/09/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	10/07/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	01/21/05	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	03/24/06	**54.6**	44.4	17.1	660	2.04	8	**FP**	NR
	01/07/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	3.7	6.9	6.0	44.2	<0.20	5.0	<0.24	<0.0096
MW-4	01/17/03	3.7	<1.0	1.8	7.2	<1.0	7.4	**FP**	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	**FP**	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	**FP**	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	**FP**	NR
	03/24/06	0.200J	<1.00	<1.00	1.44	0.340J	<1.00	**FP**	NR
	01/07/09	**5.9**	<5.0	<5.0	6.0	<5.0	8.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-5	01/17/03	<1.0	<1.0	1.7	3.4	<1.0	7.1	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	0.350J	<1.00	<1.00	-	NR
	01/07/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	**0.066**
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	01/17/03	<1.0	<1.0	1.9	3.8	<1.0	7	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/07/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-7	01/17/03	**70.3**	145	24.3	308	1.8	**25.7**	-	<0.02
	02/09/04	<1.0	11.4	60.2	441	<1.0	**40.7**	-	NR
	10/07/04	<1.0	1.1	2.4	25	<1.0	5.8	-	<0.02
	01/21/05	<1.0	<1.0	4.5	26.9	<1.0	17.5	-	NR
	03/24/06	<1.00	<1.00	<1.00	23.3	0.260J	9.62	-	NR
	01/07/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	12.2	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	0.62 J	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	0.41 J	<1.0	<0.24	<0.0096
MW-8	01/17/03	**1,480**	**11,800**	**1,930**	9,930	6.3	<500	-	<0.02
	02/09/04	**59**	**1,700**	424	2,380	<5.0	**96**	-	NR
	10/07/04	<1.0	3.2	7.4	71.1	<1.0	9	-	<0.02
	01/21/05	**12**	161	55.6	1,100	<1.0	**52.2**	-	NR
	03/24/06	4.19	24.1	118	1,070	<1.00	**102**	-	NR
	01/08/09	**16.8**	<5.0	<5.0	200.6	<5.0	18.5	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	12.8	<5.0	**34.7**	<5.0	<0.020
	11/22/11	**11.6**	1.3	8.1	7.0	<0.34	19.3	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	0.69 J	<0.66	<0.20	<1.0	<0.24	<0.0096
MW-8 DUP (DUP B)	11/06/13	0.33 J	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-9	01/17/03	<1.0	<1.0	<1.0	<1.0	34	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	11.1	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	1.2	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	12.5	<5.00	-	NR
	03/24/06	<1.00	<1.00	0.270J	2.49	1.5	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/30/11	<0.20	<0.20	<0.20	<0.52	1.9	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	0.28 J	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
MW-10	01/17/03	<1.0	<1.0	<1.0	<1.0	1.5	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	0.490J	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/30/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-11	01/17/03	<1.0	<1.0	<1.0	<1.0	1.6	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	23.7	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	5.1	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	0.250J	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
MW-12	01/17/03	<1.0	<1.0	<1.0	<1.0	2	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-13	01/17/03	<1.0	<1.0	<1.0	<1.0	**42.5**	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	**145**	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	6.3	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	**40.8**	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	11	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/30/11	<0.20	<0.20	<0.20	<0.52	2.4	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	0.22 J	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	3.5	<1.0	<0.24	<0.0095
MW-14	01/17/03	3.4	<1.0	<1.0	4.5	<1.0	10.9	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	**79.5**	16.7	4.8	26.8	5.8	8.7 J	<0.40	NR
	11/06/13	0.24 J	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-15	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
MW-16	01/17/03	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	-	**FP**
	02/09/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	-	**FP**
	10/07/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	-	**FP**
	01/21/05	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	-	**FP**
	03/24/06	**14,600**	**20,300**	**2,080**	**11,800**	**536**	**1,080**	-	NR
	01/08/09	**2,660**	**6,520**	**930**	5,100	<25.0	**633**	<25.0	<0.020
	11/04/09	**18,500**	**33,300**	**2,880**	**16,300**	**454**	**928**	<250	**0.30**
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
MW-17	01/17/03	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	-	**FP**
	02/09/04	<1.0	13.2	12.5	74.2	19	10.1	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	NS	NS	NS	NS	NS	NS	NS	NS

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SUMMARY OF LABORATORY ANALYTICAL RESULTS
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TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-18	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	**15.4**	5.5	<1.0	5.6	<1.0	<5.00	-	NR
	10/07/04	1.5	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	**19.2**	1.1	<1.0	7.1	<1.0	<5.00	-	NR
	03/24/06	**36.2**	1.27	<1.00	6.16	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
MW-19	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	3.1	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
MW-19 DUP (DUP 1)	11/22/11	1.3	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR

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SUMMARY OF LABORATORY ANALYTICAL RESULTS
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TISDALES QUICK STOP
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Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-20	01/17/03	**1,520**	314	108	298	**80.4**	**26.3**	-	<0.02
	02/09/04	**3,220**	530	15.2	830	**78**	**61.2**	-	NR
	10/07/04	**90.2**	6.6	<1.0	19.8	**94.4**	<5.00	-	<0.02
	01/21/05	**1,120**	43.1	5.8	95.1	**73**	**36.9**	-	NR
	03/24/06	**44.9**	0.300J	0.310J	3.54	9.14	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	**9.5**	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	2.4	<0.20	<0.20	<0.52	6.2	<1.0	<0.20	NR
	11/06/13	**235**	<1.0	<1.5	<2.5	5.2	10.7 J	<1.1	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
MW-21	01/17/03	**269**	27.5	12	118	**42.6**	12.6	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	NS	NS	NS	NS	NS	NS	-	NS
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	**108**	4.5	<0.40	<1.0	8.7	<2.0	<0.40	NR
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095

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SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
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Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-22	01/17/03	**2,080**	281	279	576	**257**	**67.9**	-	<0.02
	02/09/04	**782**	49.2	41.4	77.5	**93.4**	15.8	-	NR
	10/07/04	**109**	11.3	3.2	19.5	**71.4**	<5.00	-	<0.02
	01/21/05	**3,980**	300	197	454	**67**	**112**	-	NR
	03/23/06	0.340J	<1.00	<1.00	<1.00	8.11	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	**60.0**	8.3	3.4	3.1	13.8	<1.0	<0.20	NR
	11/06/13	**574**	41.6	45.7	10.9 J	37.3	<10	<2.2	NR
	08/27/14	1.0	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
MW-23	01/17/03	**27.6**	<1.0	<1.0	3.7	27.2	10.5	-	<0.02
	02/09/04	**1,760**	72	<1.0	592	**372**	17.2	-	NR
	10/07/04	**1,620**	103	<1.0	598	**286**	**46**	-	<0.02
	01/20/05	**1,670**	111	<1.0	578	**172**	19.9	-	NR
	03/23/06	**1,290**	44.1	<1.00	266	**168**	**38.4**	-	NR
	01/08/09	**574**	<5.0	<5.0	30.8	**65.2**	<5.0	<5.0	<0.019
	11/04/09	**1,250**	<25.0	<25.0	98.9	**152**	**31.0**	<25.0	<0.019
	11/22/11	**435**	<1.0	<1.0	<2.6	**140**	15.9 J	<1.0	NR
	11/06/13	**49.6**	2.8	<0.58	1.2 J	**98.6**	2.3 J	<0.44	NR
	08/27/14	**239**	16.4	<1.4	7.3 J	**239**	<5.0	<1.2	<0.0096

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SUMMARY OF LABORATORY ANALYTICAL RESULTS
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TISDALES QUICK STOP
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Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-24	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
MW-25	01/17/03	<1.0	<1.0	<1.0	<1.0	4.9	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	0.330J	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	1.8	<0.20	<0.29	<0.50	2.7	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095

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Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-26	01/17/03	1.3	<1.0	<1.0	<1.0	4.7	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	0.86 J	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
MW-27	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	1.7	<5.00	-	NR
	03/23/06	0.320J	<1.00	<1.00	<1.00	3.95	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	**6.2**	<0.20	<0.20	0.61 J	2.4	<1.0	<0.20	NR
	11/06/13	0.27 J	<0.20	<0.29	<0.50	0.22 J	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096

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GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
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Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-28	01/17/03	<1.0	<1.0	<1.0	<1.0	1.4	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	0.340 J	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	0.38 J	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
MW-29	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095

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SUMMARY OF LABORATORY ANALYTICAL RESULTS
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UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-30	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	11.0	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
MW-31	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-1A	01/21/05	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	03/24/06	**20,700**	**30,600**	**3,310**	**17,600**	**1,880**	**891**	-	NR
	01/08/09	**14,300**	**29,300**	**8,930**	**48,800**	**1,250**	**6,060**	<500	**0.066**
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	**140**	417	42.7	590	4.4 J	**155**	<1.2	<0.0097
MW-2A	01/21/05	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	03/23/06	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	01/08/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/30/11	**260**	517	37.3	491	<3.4	**70.4**	<2.0	NR
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	**17,000**	**30,600**	**2,420**	**15,700**	**232 J**	**1,270 J**	<60	<0.0093
MW-2A DUP (DUP B)	08/27/14	**17,500**	**31,000**	**2,310**	**14,500**	**250 J**	**695 J**	<120	**0.19**
MW-3A	01/21/05	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	03/23/06	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	01/08/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	**15,700**	**38,900**	**2,430**	**15,300**	<100	**873 J**	<120	**0.17**

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-4A	01/21/05	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	03/24/06	**19,600**	**34,800**	**3,900**	**21,500**	**247**	**952**	NR	NR
	01/08/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**7,250**	**30,200**	**2,050**	**12,700**	<110	**627 J**	<110	NR
	08/27/14	**6,890**	**27,700**	**1,680**	**16,300**	<50	**561 J**	<60	**0.13**
TW-1	01/17/03	**25.5**	46.6	6.9	19.8	<1.0	9.3	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/23/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/28/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
TW-2	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	11.7	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	**7.22**	<1.00	<1.00	<1.00	1.7	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	**7.0**	<0.20	<0.20	<0.52	1.0	<1.0	<0.20	NR
	11/06/13	4.7	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
WSW-1	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/28/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
WSW-2	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
WSW-3	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/28/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
FIELD BLANK	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	0.21 J	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
TRIP BLANK	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	NR

Notes:

- Analyses for selected volatile organic compounds by EPA Method 8260B; lead by EPA Method 6010B or 200.7; and EDB by Method 8011; results reported in µg/l.
- RBSL: May 2001 Risk Based Screening Level.
- Concentrations in bold face type exceeded the RBSL.
- <: Less than the report limit specified in the laboratory report.
- NS: Not sampled.
- NR: Analysis not requested.
- I or J: Estimated value.
- FP: Free product.

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
MW-1	03/24/06	<50.0	**5,030**	<5,000	<50.0	**35,000**	<50.0	**1,280**	<1,000
	11/04/09	<500	<10,000	<20,000	<1,000	**10,200**	<1,000	<10,000	<5,000
	11/23/11	<35	<2,500	<2,500	<31	**24,100**	<39	<300	<500
	11/06/13	<25	<2,000	<2,100	<55	**7,700**	<49	<470	<500
	08/27/14	<45	<760	<4,600	<40	**10,600**	<44	<1,800	<810
MW-1 DUP (DUP A)	11/06/13	<51	<4,000	<4,200	<110	**7,020**	<97	<950	<1,000
	08/27/14	<45	<760	<4,600	<40	**8,960**	<44	<1,800	<810
MW-2	03/24/06	<50.0	**4,620**	<5,000	<50.0	**25,700**	**54**	**1,020**	<1,000
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/23/11	<88	<6,300	<6,300	<78	**37,800**	<98	<750	<1,300
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-2 DUP (DUP 2)	11/23/11	<88	<6,300	<6,300	<78	**37,000**	<98	<750	<1,300
MW-3	03/24/06	<1.00	**99.1**	<100	<1.00	**223**	<1.00	**26.7**	<20.0
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
MW-4	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
MW-6	11/03/09	<5.0	115	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
MW-7	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
MW-8	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	**11.2 J**	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
MW-8 DUP (DUP B)	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
MW-9	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/30/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
MW-10	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/30/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
MW-11	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
MW-12	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
MW-13	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/30/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	**0.96 J**	<8.8	<4.0
MW-14	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.70	<50	<50	<0.62	**450**	<0.78	<6.0	<10
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
MW-15	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
MW-16	03/24/06	<50.0	**5,140**	<5,000	<50.0	**34,600**	**72.5**	**1,560**	<1,000
	11/04/09	<250	<5,000	<10,000	<500	**45,400**	<500	<5,000	<2,500
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
MW-18	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	**19.2 J**	<0.39	<3.0	<5.0
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
MW-19	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	**5.6 J**	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
MW-19 DUP (DUP 1)	11/22/11	<0.35	<25	<25	<0.31	**12.5 J**	<0.39	<3.0	<5.0
MW-20	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	**151**	<0.39	**9.3 J**	<5.0
	11/06/13	<1.3	<100	<110	<2.8	**567**	<2.4	<24	<25
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
MW-21	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.70	<50	<50	<0.62	**343**	**1.1 J**	**25.0 J**	<10
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
MW-22	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	**0.60 J**	**1,370**	**3.6**	**45.3**	<5.0
	11/06/13	<2.5	<200	<210	<5.5	**2,000**	**8.9 J**	**50.3 J**	<50
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
MW-23	11/04/09	<25.0	<500	<1,000	<50.0	**1,490**	<50.0	<500	<250
	11/22/11	<1.8	<130	<130	<1.6	**3,200**	**9.7 J**	<15	<25
	11/06/13	**1.5 J**	<40	<42	**2.0 J**	**2,700**	**8.8**	**214**	<10
	08/27/14	**3.4 J**	<19	<120	**6.2 J**	**8,040**	**28.7**	<44	<20
MW-24	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
MW-25	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
MW-26	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
MW-27	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	**43.2**	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
MW-28	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
MW-29	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
MW-30	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
MW-31	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
MW-1A	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	<1.1	<19	<120	<1.0	**2,150**	**5.3 J**	<44	<20
MW-2A	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/30/11	<3.5	<250	<250	<3.1	**83.3 J**	<3.9	<30	<50
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	<57	<950	<5,800	<50	**65,500**	**110 J**	<2,200	<1,000
MW-2A DUP (DUP B)	08/27/14	<110	<1,900	<12,000	<100	**63,000**	<110	<4,400	<2,000
MW-3A	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	<110	<1,900	<12,000	<100	**24,900**	<110	<4,400	<2,000
MW-4A	11/04/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	<130	<10,000	<11,000	<280	**6,280**	<240	<2,400	<2,500
	08/27/14	<57	<950	<5,800	<50	**5,990**	<55	<2,200	<1,000
TW-1	03/24/06	<1.00	<10.0	<100	<1.00	<20.0	<1.00	<20.0	<20.0
	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/23/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/28/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
TW-2	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	**15.9 J**	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
WSW-1	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/28/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
WSW-3	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/28/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
FIELD BLANK	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
TRIP BLANK	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0

Notes:
- Analyses for oxygenates by Method 8260B; results reported in µg/l.
- <: Less than the report limit specified in the laboratory report.
- Bold indicates analyte reported about the method detection limit.

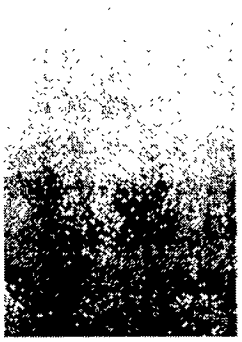
APPENDICES

APPENDIX A

Laboratory Analytical Report – Ground Water Samples

Southeast
ACCUTEST
LABORATORIES

09/08/14





Technical Report for

GRI (Geological Resources Inc.)

Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC 18686

Accutest Job Number: FA17887

Sampling Dates: 08/27/14 - 08/28/14

Report to:

GRI
3502 Hayes Rd
Monroe, NC 28110
wsb@geologicalresourcesinc.com; carriekennedy@geologicalresourcesinc.com; jjr@geologicalresourcesinc.com; nml@geologicalresourcesinc.com
ATTN: Scott Ball

Total number of pages in report: **109**

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.

Norm Farmer
Technical Director

Client Service contact: Muna Mohammed 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Test results relate only to samples analyzed.

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Sample Summary

GRI (Geological Resources Inc.)

Job No: FA17887

Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Project No: 18686

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA17887-1	08/27/14	16:14	AR	08/30/14	AQ	Ground Water	18686 MW-1
FA17887-2	08/27/14	16:22	AR	08/30/14	AQ	Ground Water	18686 MW-3
FA17887-3	08/27/14	15:48	AR	08/30/14	AQ	Ground Water	18686 MW-6
FA17887-4	08/27/14	15:55	AR	08/30/14	AQ	Ground Water	18686 MW-7
FA17887-5	08/27/14	14:22	AR	08/30/14	AQ	Ground Water	18686 MW-8
FA17887-6	08/27/14	15:06	AR	08/30/14	AQ	Ground Water	18686 MW-9
FA17887-7	08/27/14	15:19	AR	08/30/14	AQ	Ground Water	18686 MW-10
FA17887-8	08/27/14	14:13	AR	08/30/14	AQ	Ground Water	18686 MW-13
FA17887-9	08/27/14	16:38	AR	08/30/14	AQ	Ground Water	18686 MW-14
FA17887-10	08/27/14	16:47	AR	08/30/14	AQ	Ground Water	18686 MW-15
FA17887-11	08/27/14	13:19	AR	08/30/14	AQ	Ground Water	18686 MW-19
FA17887-12	08/27/14	13:10	AR	08/30/14	AQ	Ground Water	18686 MW-20
FA17887-13	08/27/14	12:10	AR	08/30/14	AQ	Ground Water	18686 MW-21

Sample Summary
(continued)

GRI (Geological Resources Inc.)

Job No: FA17887

Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Project No: 18686

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA17887-14	08/27/14	11:34	AR	08/30/14	AQ	Ground Water	18686 MW-22
FA17887-15	08/27/14	11:02	AR	08/30/14	AQ	Ground Water	18686 MW-23
FA17887-16	08/27/14	10:56	AR	08/30/14	AQ	Ground Water	18686 MW-24
FA17887-17	08/27/14	11:54	AR	08/30/14	AQ	Ground Water	18686 MW-25
FA17887-18	08/27/14	11:47	AR	08/30/14	AQ	Ground Water	18686 MW-26
FA17887-19	08/27/14	11:27	AR	08/30/14	AQ	Ground Water	18686 MW-27
FA17887-20	08/27/14	11:16	AR	08/30/14	AQ	Ground Water	18686 MW-28
FA17887-21	08/27/14	11:12	AR	08/30/14	AQ	Ground Water	18686 MW-29
FA17887-22	08/27/14	09:59	AR	08/30/14	AQ	Ground Water	18686 MW-30
FA17887-23	08/27/14	09:52	AR	08/30/14	AQ	Ground Water	18686 MW-31
FA17887-24	08/27/14	14:46	AR	08/30/14	AQ	Ground Water	18686 MW-1A
FA17887-25	08/27/14	14:52	AR	08/30/14	AQ	Ground Water	18686 MW-2A
FA17887-26	08/27/14	14:39	AR	08/30/14	AQ	Ground Water	18686 MW-3A

Sample Summary
(continued)

GRI (Geological Resources Inc.)

Job No: FA17887

Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Project No: 18686

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA17887-27	08/27/14	14:32	AR	08/30/14	AQ	Ground Water	18686 MW-4A
FA17887-28	08/28/14	09:29	AR	08/30/14	AQ	Ground Water	18686 TW-1
FA17887-29	08/27/14	12:43	AR	08/30/14	AQ	Ground Water	18686 TW-2
FA17887-30	08/27/14	00:00	AR	08/30/14	AQ	Ground Water	18686 DUP A
FA17887-31	08/27/14	00:00	AR	08/30/14	AQ	Ground Water	18686 DUP B
FA17887-32	08/27/14	16:24	AR	08/30/14	AQ	Field Blank Water	18686 FIELD BLANK
FA17887-33	08/27/14	00:00	AR	08/30/14	AQ	Trip Blank Water	18686 TRIP BLANK
FA17887-34	08/28/14	08:57	AR	08/30/14	AQ	Ground Water	18686 WSW-1
FA17887-35	08/28/14	08:35	AR	08/30/14	AQ	Ground Water	18686 WSW-3

Summary of Hits

2

Job Number: FA17887
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 08/27/14 thru 08/28/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA17887-1	**18686 MW-1**					
Benzene		5210	200	49	ug/l	SW846 8260B
Toluene		11900	200	40	ug/l	SW846 8260B
Ethylbenzene		824	200	56	ug/l	SW846 8260B
Xylene (total)		6010	600	130	ug/l	SW846 8260B
Methyl Tert Butyl Ether		134 J	200	40	ug/l	SW846 8260B
Naphthalene		239 J	1000	200	ug/l	SW846 8260B
Tert-Amyl Alcohol		10600	4000	1500	ug/l	SW846 8260B
FA17887-2	**18686 MW-3**					
Benzene		3.7	1.0	0.24	ug/l	SW846 8260B
Toluene		6.9	1.0	0.20	ug/l	SW846 8260B
Ethylbenzene		6.0	1.0	0.28	ug/l	SW846 8260B
Xylene (total)		44.2	3.0	0.66	ug/l	SW846 8260B
Naphthalene		5.0	5.0	1.0	ug/l	SW846 8260B
FA17887-3	**18686 MW-6**					
No hits reported in this sample.						
FA17887-4	**18686 MW-7**					
Methyl Tert Butyl Ether		0.41 J	1.0	0.20	ug/l	SW846 8260B
FA17887-5	**18686 MW-8**					
Ethylbenzene		0.69 J	1.0	0.28	ug/l	SW846 8260B
FA17887-6	**18686 MW-9**					
No hits reported in this sample.						
FA17887-7	**18686 MW-10**					
No hits reported in this sample.						
FA17887-8	**18686 MW-13**					
Methyl Tert Butyl Ether		3.5	1.0	0.20	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		0.96 J	2.0	0.22	ug/l	SW846 8260B

Summary of Hits

Job Number: FA17887
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 08/27/14 thru 08/28/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA17887-9	**18686 MW-14**					
No hits reported in this sample.						
FA17887-10	**18686 MW-15**					
No hits reported in this sample.						
FA17887-11	**18686 MW-19**					
No hits reported in this sample.						
FA17887-12	**18686 MW-20**					
No hits reported in this sample.						
FA17887-13	**18686 MW-21**					
No hits reported in this sample.						
FA17887-14	**18686 MW-22**					
Benzene		1.0	1.0	0.24	ug/l	SW846 8260B
FA17887-15	**18686 MW-23**					
Benzene		239	5.0	1.2	ug/l	SW846 8260B
Toluene		16.4	5.0	1.0	ug/l	SW846 8260B
Xylene (total)		7.3 J	15	3.3	ug/l	SW846 8260B
Methyl Tert Butyl Ether		239	5.0	1.0	ug/l	SW846 8260B
Di-Isopropyl ether		3.4 J	5.0	1.1	ug/l	SW846 8260B
Ethyl Tert Butyl Ether		6.2 J	10	1.0	ug/l	SW846 8260B
Tert-Amyl Alcohol		8040	200	74	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		28.7	10	1.1	ug/l	SW846 8260B
FA17887-16	**18686 MW-24**					
No hits reported in this sample.						
FA17887-17	**18686 MW-25**					
No hits reported in this sample.						

Summary of Hits

Job Number: FA17887
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 08/27/14 thru 08/28/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA17887-18	**18686 MW-26**					
No hits reported in this sample.						
FA17887-19	**18686 MW-27**					
No hits reported in this sample.						
FA17887-20	**18686 MW-28**					
No hits reported in this sample.						
FA17887-21	**18686 MW-29**					
No hits reported in this sample.						
FA17887-22	**18686 MW-30**					
No hits reported in this sample.						
FA17887-23	**18686 MW-31**					
No hits reported in this sample.						
FA17887-24	**18686 MW-1A**					
Benzene		140	5.0	1.2	ug/l	SW846 8260B
Toluene		417	5.0	1.0	ug/l	SW846 8260B
Ethylbenzene		42.7	5.0	1.4	ug/l	SW846 8260B
Xylene (total)		590	15	3.3	ug/l	SW846 8260B
Methyl Tert Butyl Ether		4.4 J	5.0	1.0	ug/l	SW846 8260B
Naphthalene		155	25	5.0	ug/l	SW846 8260B
Tert-Amyl Alcohol		2150	100	37	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		5.3 J	10	1.1	ug/l	SW846 8260B
FA17887-25	**18686 MW-2A**					
Benzene		17000	250	61	ug/l	SW846 8260B
Toluene		30600	500	100	ug/l	SW846 8260B
Ethylbenzene		2420	250	70	ug/l	SW846 8260B
Xylene (total)		15700	750	170	ug/l	SW846 8260B
Methyl Tert Butyl Ether		232 J	250	50	ug/l	SW846 8260B
Naphthalene		1270 J	1300	250	ug/l	SW846 8260B
Tert-Amyl Alcohol		65500	5000	1900	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		110 J	500	55	ug/l	SW846 8260B

2

Summary of Hits

Job Number: FA17887
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 08/27/14 thru 08/28/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA17887-26	**18686 MW-3A**					
Benzene		15700	500	120	ug/l	SW846 8260B
Toluene		38900	500	100	ug/l	SW846 8260B
Ethylbenzene		2430	500	140	ug/l	SW846 8260B
Xylene (total)		15300	1500	330	ug/l	SW846 8260B
Naphthalene		873 J	2500	500	ug/l	SW846 8260B
Tert-Amyl Alcohol		24900	10000	3700	ug/l	SW846 8260B
1,2-Dibromoethane [a]		0.17	0.018	0.0092	ug/l	SW846 8011
FA17887-27	**18686 MW-4A**					
Benzene		6890	250	61	ug/l	SW846 8260B
Toluene		27700	500	100	ug/l	SW846 8260B
Ethylbenzene		1680	250	70	ug/l	SW846 8260B
Xylene (total)		16300	750	170	ug/l	SW846 8260B
Naphthalene		561 J	1300	250	ug/l	SW846 8260B
Tert-Amyl Alcohol		5990	5000	1900	ug/l	SW846 8260B
1,2-Dibromoethane [a]		0.13	0.019	0.0095	ug/l	SW846 8011
FA17887-28	**18686 TW-1**					
No hits reported in this sample.						
FA17887-29	**18686 TW-2**					
No hits reported in this sample.						
FA17887-30	**18686 DUP A**					
Benzene		5210	200	49	ug/l	SW846 8260B
Toluene		12300	200	40	ug/l	SW846 8260B
Ethylbenzene		845	200	56	ug/l	SW846 8260B
Xylene (total)		6140	600	130	ug/l	SW846 8260B
Methyl Tert Butyl Ether		130 J	200	40	ug/l	SW846 8260B
Naphthalene		210 J	1000	200	ug/l	SW846 8260B
Tert-Amyl Alcohol		8960	4000	1500	ug/l	SW846 8260B
FA17887-31	**18686 DUP B**					
Benzene		17500	500	120	ug/l	SW846 8260B
Toluene		31000	500	100	ug/l	SW846 8260B
Ethylbenzene		2310	500	140	ug/l	SW846 8260B
Xylene (total)		14500	1500	330	ug/l	SW846 8260B

Summary of Hits

Job Number: FA17887
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 08/27/14 thru 08/28/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Methyl Tert Butyl Ether		250 J	500	100	ug/l	SW846 8260B
Naphthalene		695 J	2500	500	ug/l	SW846 8260B
Tert-Amyl Alcohol		63000	10000	3700	ug/l	SW846 8260B
1,2-Dibromoethane [a]		0.19	0.019	0.0095	ug/l	SW846 8011

FA17887-32 18686 FIELD BLANK

No hits reported in this sample.

FA17887-33 18686 TRIP BLANK

No hits reported in this sample.

FA17887-34 18686 WSW-1

No hits reported in this sample.

FA17887-35 18686 WSW-3

No hits reported in this sample.

(a) All hits confirmed by dual column analysis.

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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	18686 MW-1		
Lab Sample ID:	FA17887-1	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959743.D	200	09/03/14	MM	n/a	n/a	VJ4761
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5210	200	49	ug/l	
108-88-3	Toluene	11900	200	40	ug/l	
100-41-4	Ethylbenzene	824	200	56	ug/l	
1330-20-7	Xylene (total)	6010	600	130	ug/l	
1634-04-4	Methyl Tert Butyl Ether	134	200	40	ug/l	J
91-20-3	Naphthalene	239	1000	200	ug/l	J
107-06-2	1,2-Dichloroethane	ND	200	48	ug/l	
108-20-3	Di-Isopropyl ether	ND	200	45	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	10000	760	ug/l	
64-17-5	Ethyl Alcohol	ND	20000	4600	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	400	40	ug/l	
75-85-4	Tert-Amyl Alcohol	10600	4000	1500	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	400	44	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	4000	1800	ug/l	
762-75-4	Tert-Butyl Formate	ND	4000	810	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-1		
Lab Sample ID:	FA17887-1	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77209.D	1	09/03/14	NG	09/03/14	OP52960	GDD2316
Run #2							

	Initial Volume	Final Volume
Run #1	36.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	73%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-3		
Lab Sample ID:	FA17887-2	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959744.D	1	09/03/14	MM	n/a	n/a	VJ4761
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.7	1.0	0.24	ug/l	
108-88-3	Toluene	6.9	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	6.0	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	44.2	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	5.0	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	102%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-3		
Lab Sample ID:	FA17887-2	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77211.D	1	09/03/14	NG	09/03/14	OP52960	GDD2316
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	73%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-6		
Lab Sample ID:	FA17887-3	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959745.D	1	09/03/14	MM	n/a	n/a	VJ4761
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	102%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-6		
Lab Sample ID:	FA17887-3	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77213.D	1	09/03/14	NG	09/03/14	OP52960	GDD2316
Run #2							

	Initial Volume	Final Volume
Run #1	37.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	66%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-7		
Lab Sample ID:	FA17887-4	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959746.D	1	09/03/14	MM	n/a	n/a	VJ4761
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.41	1.0	0.20	ug/l	J
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-7		
Lab Sample ID:	FA17887-4	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77214.D	1	09/03/14	NG	09/03/14	OP52960	GDD2316
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	72%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-8		
Lab Sample ID:	FA17887-5	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959747.D	1	09/03/14	MM	n/a	n/a	VJ4761
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	0.69	1.0	0.28	ug/l	J
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	102%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-8		
Lab Sample ID:	FA17887-5	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77215.D	1	09/03/14	NG	09/03/14	OP52960	GDD2316
Run #2							

	Initial Volume	Final Volume
Run #1	36.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	75%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-9		
Lab Sample ID:	FA17887-6	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959748.D	1	09/03/14	MM	n/a	n/a	VJ4761
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	102%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-9		
Lab Sample ID:	FA17887-6	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77218.D	1	09/03/14	NG	09/03/14	OP52960	GDD2316
Run #2							

	Initial Volume	Final Volume
Run #1	37.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	69%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-10		
Lab Sample ID:	FA17887-7	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959749.D	1	09/03/14	MM	n/a	n/a	VJ4761
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

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

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-10		
Lab Sample ID:	FA17887-7	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77219.D	1	09/03/14	NG	09/03/14	OP52960	GDD2316
Run #2							

	Initial Volume	Final Volume
Run #1	36.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	73%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-13		
Lab Sample ID:	FA17887-8	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959750.D	1	09/03/14	MM	n/a	n/a	VJ4761
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.5	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	0.96	2.0	0.22	ug/l	J
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	102%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-13		
Lab Sample ID:	FA17887-8	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77220.D	1	09/03/14	NG	09/03/14	OP52960	GDD2316
Run #2							

	Initial Volume	Final Volume
Run #1	37.0 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW-14		
Lab Sample ID:	FA17887-9	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959751.D	1	09/03/14	MM	n/a	n/a	VJ4761
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	102%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-14		
Lab Sample ID:	FA17887-9	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77221.D	1	09/03/14	NG	09/03/14	OP52960	GDD2316
Run #2							

	Initial Volume	Final Volume
Run #1	36.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	79%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-15		
Lab Sample ID:	FA17887-10	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959752.D	1	09/03/14	MM	n/a	n/a	VJ4761
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-15		
Lab Sample ID:	FA17887-10	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77222.D	1	09/03/14	NG	09/03/14	OP52960	GDD2316
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	78%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-19		
Lab Sample ID:	FA17887-11	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959753.D	1	09/03/14	MM	n/a	n/a	VJ4761
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-19		
Lab Sample ID:	FA17887-11	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77223.D	1	09/04/14	NG	09/03/14	OP52960	GDD2316
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	76%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-20		
Lab Sample ID:	FA17887-12	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959754.D	1	09/03/14	MM	n/a	n/a	VJ4761
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		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	104%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-20		
Lab Sample ID:	FA17887-12	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77224.D	1	09/04/14	NG	09/03/14	OP52960	GDD2316
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	80%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-21		
Lab Sample ID:	FA17887-13	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959755.D	1	09/03/14	MM	n/a	n/a	VJ4761
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-21		
Lab Sample ID:	FA17887-13	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77225.D	1	09/04/14	NG	09/03/14	OP52960	GDD2316
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	79%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-22		
Lab Sample ID:	FA17887-14	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959756.D	1	09/03/14	MM	n/a	n/a	VJ4761
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.0	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	96%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-22		
Lab Sample ID:	FA17887-14	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77226.D	1	09/04/14	NG	09/03/14	OP52960	GDD2316
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	83%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-23		
Lab Sample ID:	FA17887-15	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959757.D	5	09/03/14	MM	n/a	n/a	VJ4761
Run #2	J0959778.D	10	09/04/14	MM	n/a	n/a	VJ4762

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	239	5.0	1.2	ug/l	
108-88-3	Toluene	16.4	5.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	5.0	1.4	ug/l	
1330-20-7	Xylene (total)	7.3	15	3.3	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	239	5.0	1.0	ug/l	
91-20-3	Naphthalene	ND	25	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.2	ug/l	
108-20-3	Di-Isopropyl ether	3.4	5.0	1.1	ug/l	J
624-95-3	3,3-Dimethyl-1-Butanol	ND	250	19	ug/l	
64-17-5	Ethyl Alcohol	ND	500	120	ug/l	
637-92-3	Ethyl Tert Butyl Ether	6.2	10	1.0	ug/l	J
75-85-4	Tert-Amyl Alcohol	8040 [a]	200	74	ug/l	
994-05-8	Tert-Amyl Methyl Ether	28.7	10	1.1	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	100	44	ug/l	
762-75-4	Tert-Butyl Formate	ND	100	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	97%	79-125%
2037-26-5	Toluene-D8	99%	102%	85-112%
460-00-4	4-Bromofluorobenzene	101%	105%	83-118%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-23		
Lab Sample ID:	FA17887-15	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77227.D	1	09/04/14	NG	09/03/14	OP52960	GDD2316
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	86%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-24		
Lab Sample ID:	FA17887-16	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959758.D	1	09/03/14	MM	n/a	n/a	VJ4761
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	102%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-24		
Lab Sample ID:	FA17887-16	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77230.D	1	09/04/14	NG	09/03/14	OP52960	GDD2316
Run #2							

	Initial Volume	Final Volume
Run #1	36.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	70%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-25		
Lab Sample ID:	FA17887-17	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959759.D	1	09/03/14	MM	n/a	n/a	VJ4761
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-25		
Lab Sample ID:	FA17887-17	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77231.D	1	09/04/14	NG	09/03/14	OP52960	GDD2316
Run #2							

	Initial Volume	Final Volume
Run #1	36.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	76%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-26		
Lab Sample ID:	FA17887-18	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959760.D	1	09/03/14	MM	n/a	n/a	VJ4761
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	100%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-26		
Lab Sample ID:	FA17887-18	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77232.D	1	09/04/14	NG	09/03/14	OP52960	GDD2316
Run #2							

	Initial Volume	Final Volume
Run #1	36.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-27		
Lab Sample ID:	FA17887-19	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959761.D	1	09/03/14	MM	n/a	n/a	VJ4761
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

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

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-27		
Lab Sample ID:	FA17887-19	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77233.D	1	09/04/14	NG	09/03/14	OP52960	GDD2316
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-28		
Lab Sample ID:	FA17887-20	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959774.D	1	09/04/14	MM	n/a	n/a	VJ4762
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

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

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-28		
Lab Sample ID:	FA17887-20	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77234.D	1	09/04/14	NG	09/03/14	OP52960	GDD2316
Run #2							

	Initial Volume	Final Volume
Run #1	37.1 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	80%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-29		
Lab Sample ID:	FA17887-21	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959775.D	1	09/04/14	MM	n/a	n/a	VJ4762
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-29		
Lab Sample ID:	FA17887-21	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77265.D	1	09/05/14	NG	09/05/14	OP52993	GDD2318
Run #2							

	Initial Volume	Final Volume
Run #1	37.0 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-30		
Lab Sample ID:	FA17887-22	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959776.D	1	09/04/14	MM	n/a	n/a	VJ4762
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-30		
Lab Sample ID:	FA17887-22	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77267.D	1	09/05/14	NG	09/05/14	OP52993	GDD2318
Run #2							

	Initial Volume	Final Volume
Run #1	37.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-31		
Lab Sample ID:	FA17887-23	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959777.D	1	09/04/14	MM	n/a	n/a	VJ4762
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-31		
Lab Sample ID:	FA17887-23	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77269.D	1	09/05/14	NG	09/05/14	OP52993	GDD2318
Run #2							

	Initial Volume	Final Volume
Run #1	37.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-1A		
Lab Sample ID:	FA17887-24	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959779.D	5	09/04/14	MM	n/a	n/a	VJ4762
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	140	5.0	1.2	ug/l	
108-88-3	Toluene	417	5.0	1.0	ug/l	
100-41-4	Ethylbenzene	42.7	5.0	1.4	ug/l	
1330-20-7	Xylene (total)	590	15	3.3	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4.4	5.0	1.0	ug/l	J
91-20-3	Naphthalene	155	25	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.2	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	1.1	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	250	19	ug/l	
64-17-5	Ethyl Alcohol	ND	500	120	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	10	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	2150	100	37	ug/l	
994-05-8	Tert-Amyl Methyl Ether	5.3	10	1.1	ug/l	J
75-65-0	Tert-Butyl Alcohol	ND	100	44	ug/l	
762-75-4	Tert-Butyl Formate	ND	100	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-1A		
Lab Sample ID:	FA17887-24	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77270.D	1	09/05/14	NG	09/05/14	OP52993	GDD2318
Run #2							

	Initial Volume	Final Volume
Run #1	35.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0097	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	79%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-2A		
Lab Sample ID:	FA17887-25	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959780.D	250	09/04/14	MM	n/a	n/a	VJ4762
Run #2	J0959810.D	500	09/05/14	MM	n/a	n/a	VJ4763

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	17000	250	61	ug/l	
108-88-3	Toluene	30600 [a]	500	100	ug/l	
100-41-4	Ethylbenzene	2420	250	70	ug/l	
1330-20-7	Xylene (total)	15700	750	170	ug/l	
1634-04-4	Methyl Tert Butyl Ether	232	250	50	ug/l	J
91-20-3	Naphthalene	1270	1300	250	ug/l	J
107-06-2	1,2-Dichloroethane	ND	250	60	ug/l	
108-20-3	Di-Isopropyl ether	ND	250	57	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	13000	950	ug/l	
64-17-5	Ethyl Alcohol	ND	25000	5800	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	500	50	ug/l	
75-85-4	Tert-Amyl Alcohol	65500	5000	1900	ug/l	
994-05-8	Tert-Amyl Methyl Ether	110	500	55	ug/l	J
75-65-0	Tert-Butyl Alcohol	ND	5000	2200	ug/l	
762-75-4	Tert-Butyl Formate	ND	5000	1000	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	96%	79-125%
2037-26-5	Toluene-D8	101%	100%	85-112%
460-00-4	4-Bromofluorobenzene	104%	102%	83-118%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: 18686 MW-2A
Lab Sample ID: FA17887-25 **Date Sampled:** 08/27/14
Matrix: AQ - Ground Water **Date Received:** 08/30/14
Method: SW846 8011 SW846 8011 **Percent Solids:** n/a
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77271.D	1	09/05/14	NG	09/05/14	OP52993	GDD2318
Run #2							

	Initial Volume	Final Volume
Run #1	37.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0093	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	70%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-3A		
Lab Sample ID:	FA17887-26	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959781.D	500	09/04/14	MM	n/a	n/a	VJ4762
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	15700	500	120	ug/l	
108-88-3	Toluene	38900	500	100	ug/l	
100-41-4	Ethylbenzene	2430	500	140	ug/l	
1330-20-7	Xylene (total)	15300	1500	330	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	500	100	ug/l	
91-20-3	Naphthalene	873	2500	500	ug/l	J
107-06-2	1,2-Dichloroethane	ND	500	120	ug/l	
108-20-3	Di-Isopropyl ether	ND	500	110	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	25000	1900	ug/l	
64-17-5	Ethyl Alcohol	ND	50000	12000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	1000	100	ug/l	
75-85-4	Tert-Amyl Alcohol	24900	10000	3700	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	1000	110	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10000	4400	ug/l	
762-75-4	Tert-Butyl Formate	ND	10000	2000	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	98%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-3A		
Lab Sample ID:	FA17887-26	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD77274.D	1	09/05/14	NG	09/05/14	OP52993	GDD2318
Run #2							

	Initial Volume	Final Volume
Run #1	37.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.17	0.018	0.0092	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	74%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-4A		
Lab Sample ID:	FA17887-27	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959782.D	250	09/04/14	MM	n/a	n/a	VJ4762
Run #2	J0959809.D	500	09/05/14	MM	n/a	n/a	VJ4763

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	6890	250	61	ug/l	
108-88-3	Toluene	27700 [a]	500	100	ug/l	
100-41-4	Ethylbenzene	1680	250	70	ug/l	
1330-20-7	Xylene (total)	16300	750	170	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	250	50	ug/l	
91-20-3	Naphthalene	561	1300	250	ug/l	J
107-06-2	1,2-Dichloroethane	ND	250	60	ug/l	
108-20-3	Di-Isopropyl ether	ND	250	57	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	13000	950	ug/l	
64-17-5	Ethyl Alcohol	ND	25000	5800	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	500	50	ug/l	
75-85-4	Tert-Amyl Alcohol	5990	5000	1900	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	500	55	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	5000	2200	ug/l	
762-75-4	Tert-Butyl Formate	ND	5000	1000	ug/l	

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

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 MW-4A		
Lab Sample ID:	FA17887-27	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD77275.D	1	09/05/14	NG	09/05/14	OP52993	GDD2318
Run #2							

	Initial Volume	Final Volume
Run #1	36.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.13	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	66%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 TW-1		
Lab Sample ID:	FA17887-28	**Date Sampled:**	08/28/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959783.D	1	09/04/14	MM	n/a	n/a	VJ4762
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	103%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 TW-1		
Lab Sample ID:	FA17887-28	**Date Sampled:**	08/28/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77276.D	1	09/05/14	NG	09/05/14	OP52993	GDD2318
Run #2							

	Initial Volume	Final Volume
Run #1	36.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 TW-2		
Lab Sample ID:	FA17887-29	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959784.D	1	09/04/14	MM	n/a	n/a	VJ4762
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		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	100%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 TW-2		
Lab Sample ID:	FA17887-29	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77277.D	1	09/05/14	NG	09/05/14	OP52993	GDD2318
Run #2							

	Initial Volume	Final Volume
Run #1	37.0 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 DUP A		
Lab Sample ID:	FA17887-30	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959785.D	200	09/04/14	MM	n/a	n/a	VJ4762
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5210	200	49	ug/l	
108-88-3	Toluene	12300	200	40	ug/l	
100-41-4	Ethylbenzene	845	200	56	ug/l	
1330-20-7	Xylene (total)	6140	600	130	ug/l	
1634-04-4	Methyl Tert Butyl Ether	130	200	40	ug/l	J
91-20-3	Naphthalene	210	1000	200	ug/l	J
107-06-2	1,2-Dichloroethane	ND	200	48	ug/l	
108-20-3	Di-Isopropyl ether	ND	200	45	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	10000	760	ug/l	
64-17-5	Ethyl Alcohol	ND	20000	4600	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	400	40	ug/l	
75-85-4	Tert-Amyl Alcohol	8960	4000	1500	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	400	44	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	4000	1800	ug/l	
762-75-4	Tert-Butyl Formate	ND	4000	810	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	100%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 DUP A		
Lab Sample ID:	FA17887-30	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77278.D	1	09/05/14	NG	09/05/14	OP52993	GDD2318
Run #2							

	Initial Volume	Final Volume
Run #1	36.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 DUP B		
Lab Sample ID:	FA17887-31	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959786.D	500	09/04/14	MM	n/a	n/a	VJ4762
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	17500	500	120	ug/l	
108-88-3	Toluene	31000	500	100	ug/l	
100-41-4	Ethylbenzene	2310	500	140	ug/l	
1330-20-7	Xylene (total)	14500	1500	330	ug/l	
1634-04-4	Methyl Tert Butyl Ether	250	500	100	ug/l	J
91-20-3	Naphthalene	695	2500	500	ug/l	J
107-06-2	1,2-Dichloroethane	ND	500	120	ug/l	
108-20-3	Di-Isopropyl ether	ND	500	110	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	25000	1900	ug/l	
64-17-5	Ethyl Alcohol	ND	50000	12000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	1000	100	ug/l	
75-85-4	Tert-Amyl Alcohol	63000	10000	3700	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	1000	110	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10000	4400	ug/l	
762-75-4	Tert-Butyl Formate	ND	10000	2000	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		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%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 DUP B		
Lab Sample ID:	FA17887-31	**Date Sampled:**	08/27/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD77279.D	1	09/05/14	NG	09/05/14	OP52993	GDD2318
Run #2							

	Initial Volume	Final Volume
Run #1	36.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.19	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 FIELD BLANK		
Lab Sample ID:	FA17887-32	**Date Sampled:**	08/27/14
Matrix:	AQ - Field Blank Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959787.D	1	09/04/14	MM	n/a	n/a	VJ4762
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	102%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 FIELD BLANK		
Lab Sample ID:	FA17887-32	**Date Sampled:**	08/27/14
Matrix:	AQ - Field Blank Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77280.D	1	09/05/14	NG	09/05/14	OP52993	GDD2318
Run #2							

	Initial Volume	Final Volume
Run #1	37.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 TRIP BLANK		
Lab Sample ID:	FA17887-33	**Date Sampled:**	08/27/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959788.D	1	09/04/14	MM	n/a	n/a	VJ4762
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	103%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 WSW-1		
Lab Sample ID:	FA17887-34	**Date Sampled:**	08/28/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959789.D	1	09/04/14	MM	n/a	n/a	VJ4762
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	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	98%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 WSW-1		
Lab Sample ID:	FA17887-34	**Date Sampled:**	08/28/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77281.D	1	09/05/14	NG	09/05/14	OP52993	GDD2318
Run #2							

	Initial Volume	Final Volume
Run #1	37.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 WSW-3		
Lab Sample ID:	FA17887-35	**Date Sampled:**	08/28/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0959790.D	1	09/04/14	MM	n/a	n/a	VJ4762
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		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	101%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	18686 WSW-3		
Lab Sample ID:	FA17887-35	**Date Sampled:**	08/28/14
Matrix:	AQ - Ground Water	**Date Received:**	08/30/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD77282.D	1	09/05/14	NG	09/05/14	OP52993	GDD2318
Run #2							

	Initial Volume	Final Volume
Run #1	37.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Parameter Certification Exceptions

Job Number: FA17887
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
3,3-Dimethyl-1-Butanol	624-95-3	**SW846 8260B**	AQ	Certified by SOP MS005
Di-Isopropyl ether	108-20-3	**SW846 8260B**	AQ	Certified by SOP MS005
Tert-Amyl Alcohol	75-85-4	**SW846 8260B**	AQ	Certified by SOP MS005
Tert-Butyl Formate	762-75-4	**SW846 8260B**	AQ	Certified by SOP MS005

Accutest Laboratories Southeast

Chain of Custody

ACCUTEST LABORATORIES

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

Accutest JOB # FA17887 PAGE 1 OF 3

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: G.R.T.
Address: 3502 Hayes Rd
City: Monroe State: NC Zip: 28110
Project Contact: Scott Ball E-mail: wsb2@pdq.net
Phone#: 704-845-4010
Sampler(s) Name(s) (Printed): Angela Roach

Project Information

Project Name: Tisdale's Quick Stop
Street: 1989 Thurgood Marshall Rd
City: Kingstree State: SC
Project #: UST Permit #: 18686
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	HNO3	H2SO4	NaOH+ZnAc	DI Water	MeOH	BTEX, MTBE, Naph, 1,2 DCA, Ethanol by 8260	Oxygenates by 8260	EDB by 8011
1	186860 MW-1	8/27	1614	ADE	GW	5									X	X	X
2	186860 MW-3	8/27	1622	ADE	GW	5									X	X	X
3	186860 MW-6	8/27	1548	ADE	GW	5									X	X	X
4	186860 MW-7	8/27	1555	ADE	GW	5									X	X	X
5	186860 MW-8	8/27	1422	ADE	GW	5									X	X	X
6	186860 MW-9	8/27	1506	ADE	GW	5									X	X	X
7	186860 MW-10	8/27	1519	ADE	GW	5									X	X	X
8	186860 MW-13	8/27	1413	ADE	GW	5									X	X	X
9	186860 MW-14	8/27	1638	ADE	GW	5									X	X	X
10	186860 MW-15	8/27	1640	ADE	GW	5									X	X	X
11	186860 MW-19	8/27	1359	ADE	GW	5									X	X	X
12	186860 MW-20	8/27	1310	ADE	GW	5									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; WP - Wipe

LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By / Rush Code

- [X] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Labtink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS) ACCUTEST
- [ ] REDT1 (EPA LEVEL 3) 2226-C QUEEN CITY DR
- [ ] FULT1 (EPA LEVEL 4) CLT NC 28208
- [ ] EDD'S

Comments / Remarks

SCDHEC UST mgt Program
2 coolers

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

Relinquished by Sampler	Date Time: 8/29 16:00	Received By: 2	Relinquished by 3	Date Time: 8/29 17:00	Received By 4 FX
Relinquished by: 5 FX	Date Time: 8-30-14	Received By: 6 J. Cooper (ASE) 10:20	Relinquished by 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided Y N Preserved where Applicable Y N Total # of Coolers: 2 Cooler Temperature (s) Celsius: 3.0 3.4

4.2 4

FA17887: Chain of Custody
Page 1 of 5

Accutest Laboratories Southeast

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
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www.accutest.com

Accutest JOB # FA17887 PAGE 2 OF 3

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: G.R.T.
Address: 3502 Hayes Rd
City: Monroe State: NC Zip: 28110
Project Contact: Scott Bolt E-mail: wshop@gr
Phone#: 704-845-4010
Sampler(s) Name(s) (Printed): Angela Roach

Project Information

Project Name: Tisdales Quick Stop
Street:
City: Kingstree State: SC
Project #: UST Permit # 18086
Fax #:
Client Purchase Order #:

Analytical Information

BTEX + MTBE + EDB by 8260B
Naphthalene by 8260B
EDB by 8011

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
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Collection DATE	Collection TIME	Sampled By	Matrix	Total # of Bottles	Container Information								Lab Use Only
							OTHER	NONE	HCl	NaOH	HNO3	H2SO4	MeOH+ZnAc	DI WATER	
13	18086 MW-21	8/27	1210	ADR	GW	5									
14	18086 MW-22	8/27	1134	ADR	GW	5									
15	18086 MW-23	8/27	1102	ADR	GW	5									
16	18086 MW-24	8/27	1056	ADR	GW	5									
17	18086 MW-25	8/27	1154	ADR	GW	5									
18	18086 MW-26	8/27	1147	ADR	GW	5									
19	18086 MW-27	8/27	1127	ADR	GW	5									
20	18086 MW-28	8/27	1116	ADR	GW	5									
21	18086 MW-29	8/27	1112	ADR	GW	5									
22	18086 MW-30	8/27	1159	ADR	GW	5									
23	18086 MW-31	8/27	1152	ADR	GW	5									
24	18086 MW-1A	8/27	1146	ADR	GW	5									

TURNAROUND TIME (Business Days)

Approved By / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS + QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

ACCUTEST
2828 QUEEN CT
FLT NC 28303

Comments / Remarks

SCDHEC UST Mgt Program

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

Relinquished by Sampler	Date Time	Received By	Relinquished by	Date Time	Received By
1 Angela Roach	8/29 16:00	2	3	8/29 17:12	4 FX
Relinquished by: 5 FX	Date Time: 8-30-11	Received By: 6 J. Cornell (ALS)	10:00 Relinquished by 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place. Y N Temp Blank Provided. Y N Preserved where Applicable. Y N Total # of Coolers: Cooler Temperature (s) Celsius:

4.2 4

FA17887: Chain of Custody
Page 2 of 5

ACCUTEST LABORATORIES

Accutest Laboratories Southeast

Chain of Custody

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

Accutest JOB # FA17887 PAGE 3 OF 3

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: G.R.T.
Address: 3502 Hawks Rd
City: Monroe State: NC Zip: 28110
Project Contact: Scott Bott wsbogro
Phone#: 704-845-4010
Sampler(s) Name(s) (Printed): Angela Roach

Project Information

Project Name: Tischler's Quick Stop
Street:
City: Kingstree State: SC
Project #: UST Permit # 18086
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	HNO3	H2SO4	NaOH	NaOH+ZnAc	DI Water	MeOH	BTEX MTBE by 8260B	8260B List	EDB by 8011	Matrix Codes / Lab Use Only
25	180880 MW-2A	8/27	1452	ADR	GW	5										X	X	X	
26	180880 MW-3A	8/27	1459	ADR	GW	5										X	X	X	
27	180880 MW-4A	8/27	1432	ADR	GW	5										X	X	X	
28	180880 TW-1	8/28	909	ADR	GW	5										X	X	X	
29	180880 TW-2	8/27	1243	ADR	GW	5										X	X	X	
30	180880 DUP A	8/27	—	ADR	GW	5										X	X	X	
31	180880 DUP B	8/27	—	ADR	GW	5										X	X	X	
32	180880 Field Blank	8/27	1604	ADR	GW	5										X	X	X	
33	180880 Trip Blank	8/27	—	—	—	2										X	X		
34	180880 WSW-1	8/28	857	ADR	GW	5										X	X	X	
35	180880 WSW-3	8/28	835	ADR	GW	5										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; WP - Wipe

TURNAROUND TIME (Business Days) — Approved By / Rush Code

- [X] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or LabLink

Date Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS + QC)
- [ ] REDUCED (LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

ACCUTEST 2800-C QUEEN CITY DR CLT NC 28273

Comments / Remarks

SCDHEC UST Mgt Program

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
	8/29 16:00	2	3	8/29 17:00	4 FX
Relinquished by: 5 FX	Date Time: 8-30-11	Received By: 6 L-Logan (AIR)	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:

4.2 4

FA17887: Chain of Custody
Page 3 of 5

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 17887 CLIENT: GAI PROJECT: TISDALES DOUBLE STOP

DATE/TIME RECEIVED: 8-30-14 10:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 2

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 801301259879

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.1
- [ ] OBSERVED TEMPS: 2.6 3.0
- [ ] CORRECTED TEMPS: 3.0 3.4

SAMPLE INFORMATION

- [X] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: RECEIVED 2 VIALS (EOB) PER SAMPLE

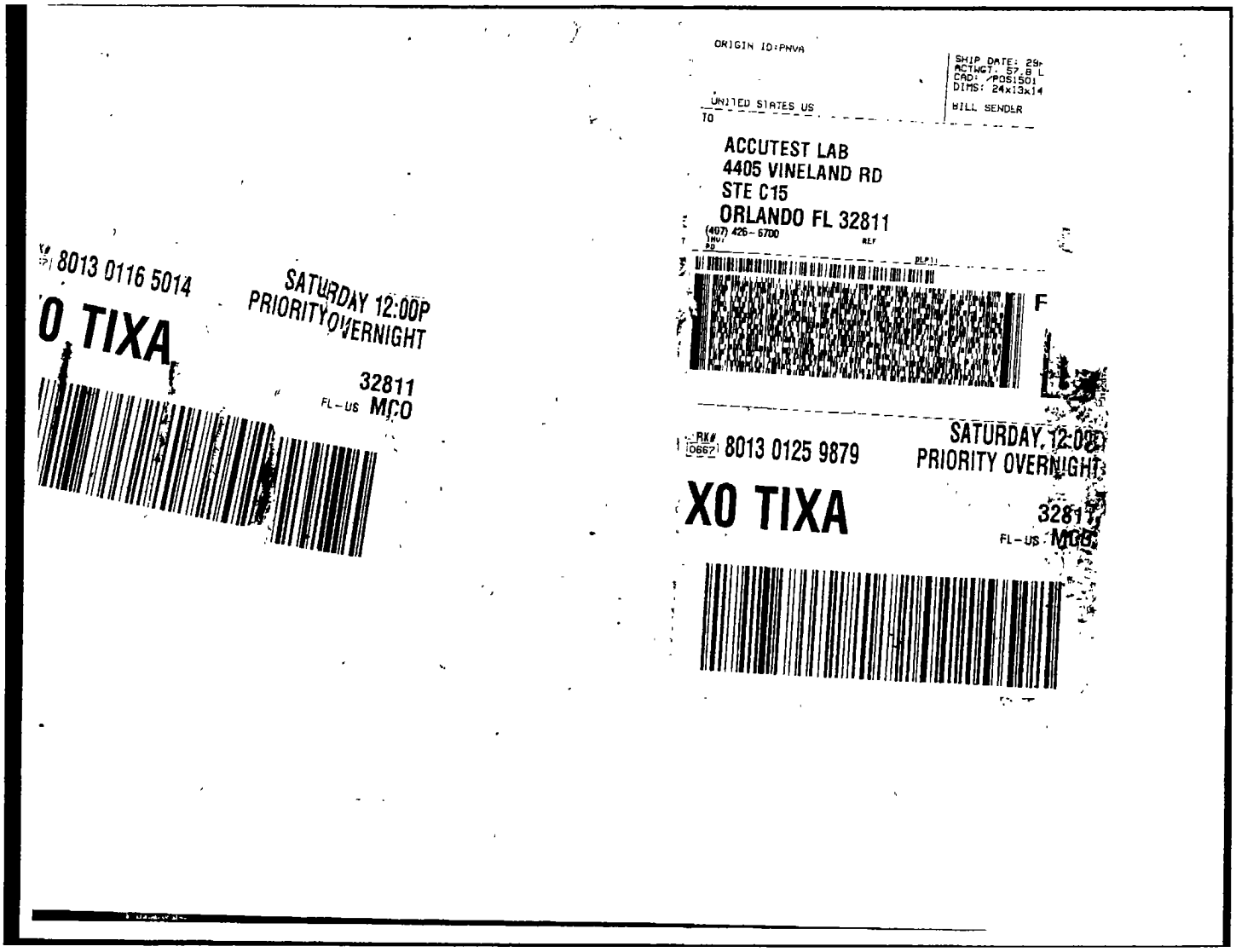
TECHNICIAN SIGNATURE/DATE: 8-30-14 REVIEWER SIGNATURE/DATE: 08-30-14

RS 04/14

receipt confirmation 041514.xls

4.2 4

FA17887: Chain of Custody
Page 4 of 5



FA17887: Chain of Custody
Page 5 of 5

Southeast ACCUTEST LABORATORIES

GC/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: FA17887
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ4761-MB	J0959741.D	1	09/03/14	MM	n/a	n/a	VJ4761

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

FA17887-1, FA17887-2, FA17887-3, FA17887-4, FA17887-5, FA17887-6, FA17887-7, FA17887-8, FA17887-9, FA17887-10, FA17887-11, FA17887-12, FA17887-13, FA17887-14, FA17887-15, FA17887-16, FA17887-17, FA17887-18, FA17887-19

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	

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

Method Blank Summary

Job Number: FA17887
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ4762-MB	J0959773.D	1	09/04/14	MM	n/a	n/a	VJ4762

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

FA17887-15, FA17887-20, FA17887-21, FA17887-22, FA17887-23, FA17887-24, FA17887-25, FA17887-26, FA17887-27, FA17887-28, FA17887-29, FA17887-30, FA17887-31, FA17887-32, FA17887-33, FA17887-34, FA17887-35

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.23	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	3.8	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
64-17-5	Ethyl Alcohol	ND	100	23	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	7.4	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.22	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	8.8	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	4.0	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	

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

Method Blank Summary

Job Number: FA17887
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ4763-MB	J0959803.D	1	09/05/14	MM	n/a	n/a	VJ4763

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

FA17887-25, FA17887-27

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

Blank Spike Summary

Job Number: FA17887
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ4761-BS	J0959739.D	1	09/03/14	MM	n/a	n/a	VJ4761

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

FA17887-1, FA17887-2, FA17887-3, FA17887-4, FA17887-5, FA17887-6, FA17887-7, FA17887-8, FA17887-9, FA17887-10, FA17887-11, FA17887-12, FA17887-13, FA17887-14, FA17887-15, FA17887-16, FA17887-17, FA17887-18, FA17887-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	24.8	99	81-122
107-06-2	1,2-Dichloroethane	25	25.9	104	75-125
108-20-3	Di-Isopropyl ether	25	23.4	94	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1200	96	55-126
100-41-4	Ethylbenzene	25	25.1	100	81-121
64-17-5	Ethyl Alcohol	500	465	93	46-145
637-92-3	Ethyl Tert Butyl Ether	25	23.6	94	71-120
1634-04-4	Methyl Tert Butyl Ether	25	23.4	94	72-117
91-20-3	Naphthalene	25	28.7	115	63-132
75-85-4	Tert-Amyl Alcohol	250	227	91	65-124
994-05-8	Tert-Amyl Methyl Ether	25	23.6	94	73-122
75-65-0	Tert-Butyl Alcohol	250	224	90	63-129
762-75-4	Tert-Butyl Formate	250	284	114	46-130
108-88-3	Toluene	25	25.2	101	80-120
1330-20-7	Xylene (total)	75	81.4	109	80-126

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

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA17887
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ4762-BS	J0959771.D	1	09/04/14	MM	n/a	n/a	VJ4762

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

FA17887-15, FA17887-20, FA17887-21, FA17887-22, FA17887-23, FA17887-24, FA17887-25, FA17887-26, FA17887-27, FA17887-28, FA17887-29, FA17887-30, FA17887-31, FA17887-32, FA17887-33, FA17887-34, FA17887-35

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.5	102	81-122
107-06-2	1,2-Dichloroethane	25	25.0	100	75-125
108-20-3	Di-Isopropyl ether	25	23.9	96	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1210	97	55-126
100-41-4	Ethylbenzene	25	25.1	100	81-121
64-17-5	Ethyl Alcohol	500	509	102	46-145
637-92-3	Ethyl Tert Butyl Ether	25	23.6	94	71-120
1634-04-4	Methyl Tert Butyl Ether	25	22.6	90	72-117
91-20-3	Naphthalene	25	25.7	103	63-132
75-85-4	Tert-Amyl Alcohol	250	225	90	65-124
994-05-8	Tert-Amyl Methyl Ether	25	23.7	95	73-122
75-65-0	Tert-Butyl Alcohol	250	243	97	63-129
762-75-4	Tert-Butyl Formate	250	275	110	46-130
108-88-3	Toluene	25	24.8	99	80-120
1330-20-7	Xylene (total)	75	81.0	108	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	79-125%
2037-26-5	Toluene-D8	94%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA17887
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ4763-BS	J0959801.D	1	09/05/14	MM	n/a	n/a	VJ4763

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

FA17887-25, FA17887-27

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-88-3	Toluene	25	24.9	100	80-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	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: FA17887
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA17887-15MS	J0959762.D	5	09/03/14	MM	n/a	n/a	VJ4761
FA17887-15MSD	J0959763.D	5	09/03/14	MM	n/a	n/a	VJ4761
FA17887-15	J0959757.D	5	09/03/14	MM	n/a	n/a	VJ4761

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

FA17887-1, FA17887-2, FA17887-3, FA17887-4, FA17887-5, FA17887-6, FA17887-7, FA17887-8, FA17887-9, FA17887-10, FA17887-11, FA17887-12, FA17887-13, FA17887-14, FA17887-15, FA17887-16, FA17887-17, FA17887-18, FA17887-19

CAS No.	Compound	FA17887-15 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	239		125	360	97	125	354	92	2	81-122/14
107-06-2	1,2-Dichloroethane	ND		125	123	98	125	122	98	1	75-125/14
108-20-3	Di-Isopropyl ether	3.4	J	125	119	92	125	121	94	2	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		6250	5890	94	6250	5890	94	0	55-126/17
100-41-4	Ethylbenzene	ND		125	123	98	125	120	96	2	81-121/14
64-17-5	Ethyl Alcohol	ND		2500	2410	96	2500	2390	96	1	46-145/30
637-92-3	Ethyl Tert Butyl Ether	6.2	J	125	118	89	125	120	91	2	71-120/14
1634-04-4	Methyl Tert Butyl Ether	239		125	341	82	125	356	94	4	72-117/14
91-20-3	Naphthalene	ND		125	111	89	125	130	104	16	63-132/25
75-85-4	Tert-Amyl Alcohol	7900	E	1250	9310	113	1250	8970	86	4	65-124/23
994-05-8	Tert-Amyl Methyl Ether	28.7		125	137	87	125	142	91	4	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		1250	2330	186*	1250	2300	184*	1	63-129/27
762-75-4	Tert-Butyl Formate	ND		1250	137	11*	1250	130	10*	5	46-130/33
108-88-3	Toluene	16.4		125	139	98	125	134	94	4	80-120/14
1330-20-7	Xylene (total)	7.3	J	375	398	104	375	388	102	3	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA17887-15	Limits
1868-53-7	Dibromofluoromethane	98%	102%	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	98%	99%	79-125%
2037-26-5	Toluene-D8	95%	94%	99%	85-112%
460-00-4	4-Bromofluorobenzene	99%	97%	101%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA17887
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA17887-21MS	J0959794.D	1	09/04/14	MM	n/a	n/a	VJ4762
FA17887-21MSD	J0959795.D	1	09/04/14	MM	n/a	n/a	VJ4762
FA17887-21	J0959775.D	1	09/04/14	MM	n/a	n/a	VJ4762

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

FA17887-15, FA17887-20, FA17887-21, FA17887-22, FA17887-23, FA17887-24, FA17887-25, FA17887-26, FA17887-27, FA17887-28, FA17887-29, FA17887-30, FA17887-31, FA17887-32, FA17887-33, FA17887-34, FA17887-35

CAS No.	Compound	FA17887-21 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		25	25.1	100	25	24.4	98	3	81-122/14
107-06-2	1,2-Dichloroethane	ND		25	26.0	104	25	24.4	98	6	75-125/14
108-20-3	Di-Isopropyl ether	ND		25	23.0	92	25	22.8	91	1	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		1250	1190	95	1250	1220	98	2	55-126/17
100-41-4	Ethylbenzene	ND		25	24.9	100	25	24.7	99	1	81-121/14
64-17-5	Ethyl Alcohol	ND		500	476	95	500	504	101	6	46-145/30
637-92-3	Ethyl Tert Butyl Ether	ND		25	22.8	91	25	22.7	91	0	71-120/14
1634-04-4	Methyl Tert Butyl Ether	ND		25	22.9	92	25	21.8	87	5	72-117/14
91-20-3	Naphthalene	ND		25	22.2	89	25	23.6	94	6	63-132/25
75-85-4	Tert-Amyl Alcohol	ND		250	219	88	250	212	85	3	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		25	22.2	89	25	21.6	86	3	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		250	370	148*	250	374	150*	1	63-129/27
762-75-4	Tert-Butyl Formate	ND		250	ND	0*	250	ND	0*	nc	46-130/33
108-88-3	Toluene	ND		25	25.0	100	25	24.3	97	3	80-120/14
1330-20-7	Xylene (total)	ND		75	79.1	105	75	76.7	102	3	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA17887-21	Limits
1868-53-7	Dibromofluoromethane	100%	100%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	96%	96%	79-125%
2037-26-5	Toluene-D8	94%	94%	101%	85-112%
460-00-4	4-Bromofluorobenzene	99%	98%	103%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA17887
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA17893-4MS	J0959824.D	1	09/05/14	MM	n/a	n/a	VJ4763
FA17893-4MSD	J0959825.D	1	09/05/14	MM	n/a	n/a	VJ4763
FA17893-4	J0959804.D	1	09/05/14	MM	n/a	n/a	VJ4763

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

FA17887-25, FA17887-27

CAS No.	Compound	FA17893-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-88-3	Toluene	ND		25	24.2	97	25	24.6	98	2	80-120/14

CAS No.	Surrogate Recoveries	MS	MSD	FA17893-4	Limits
1868-53-7	Dibromofluoromethane	99%	96%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	98%	96%	79-125%
2037-26-5	Toluene-D8	93%	96%	103%	85-112%
460-00-4	4-Bromofluorobenzene	99%	95%	102%	83-118%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

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: FA17887
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52960-MB	DD77208.D	1	09/03/14	NG	09/03/14	OP52960	GDD2316

The QC reported here applies to the following samples: **Method:** SW846 8011

FA17887-1, FA17887-2, FA17887-3, FA17887-4, FA17887-5, FA17887-6, FA17887-7, FA17887-8, FA17887-9, FA17887-10, FA17887-11, FA17887-12, FA17887-13, FA17887-14, FA17887-15, FA17887-16, FA17887-17, FA17887-18, FA17887-19, FA17887-20

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	77%	63-137%

Method Blank Summary

Job Number: FA17887
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52993-MB	DD77264.D	1	09/05/14	NG	09/05/14	OP52993	GDD2318

The QC reported here applies to the following samples: **Method:** SW846 8011

FA17887-21, FA17887-22, FA17887-23, FA17887-24, FA17887-25, FA17887-26, FA17887-27, FA17887-28, FA17887-29, FA17887-30, FA17887-31, FA17887-32, FA17887-34, FA17887-35

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	100%	63-137%

Blank Spike Summary

Job Number: FA17887
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52960-BS	DD77206.D	1	09/03/14	NG	09/03/14	OP52960	GDD2316

The QC reported here applies to the following samples: **Method:** SW846 8011

FA17887-1, FA17887-2, FA17887-3, FA17887-4, FA17887-5, FA17887-6, FA17887-7, FA17887-8, FA17887-9, FA17887-10, FA17887-11, FA17887-12, FA17887-13, FA17887-14, FA17887-15, FA17887-16, FA17887-17, FA17887-18, FA17887-19, FA17887-20

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.30	120	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	83%	63-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA17887
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52960-BS2	DD77207.D	1	09/03/14	NG	09/03/14	OP52960	GDD2316

The QC reported here applies to the following samples: **Method:** SW846 8011

FA17887-1, FA17887-2, FA17887-3, FA17887-4, FA17887-5, FA17887-6, FA17887-7, FA17887-8, FA17887-9, FA17887-10, FA17887-11, FA17887-12, FA17887-13, FA17887-14, FA17887-15, FA17887-16, FA17887-17, FA17887-18, FA17887-19, FA17887-20

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.29	116	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	80%	63-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA17887
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52993-BS	DD77262.D	1	09/05/14	NG	09/05/14	OP52993	GDD2318

The QC reported here applies to the following samples: **Method:** SW846 8011

FA17887-21, FA17887-22, FA17887-23, FA17887-24, FA17887-25, FA17887-26, FA17887-27, FA17887-28, FA17887-29, FA17887-30, FA17887-31, FA17887-32, FA17887-34, FA17887-35

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.26	104	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	98%	63-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA17887
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52993-BS2	DD77263.D	1	09/05/14	NG	09/05/14	OP52993	GDD2318

The QC reported here applies to the following samples: **Method:** SW846 8011

FA17887-21, FA17887-22, FA17887-23, FA17887-24, FA17887-25, FA17887-26, FA17887-27, FA17887-28, FA17887-29, FA17887-30, FA17887-31, FA17887-32, FA17887-34, FA17887-35

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.28	112	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	105%	63-137%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FA17887
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52960-MS	DD77210.D	1	09/03/14	NG	09/03/14	OP52960	GDD2316
FA17887-1	DD77209.D	1	09/03/14	NG	09/03/14	OP52960	GDD2316

The QC reported here applies to the following samples: **Method:** SW846 8011

FA17887-1, FA17887-2, FA17887-3, FA17887-4, FA17887-5, FA17887-6, FA17887-7, FA17887-8, FA17887-9, FA17887-10, FA17887-11, FA17887-12, FA17887-13, FA17887-14, FA17887-15, FA17887-16, FA17887-17, FA17887-18, FA17887-19, FA17887-20

CAS No.	Compound	FA17887-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
106-93-4	1,2-Dibromoethane	ND		0.239	0.27	113	72-134

CAS No.	Surrogate Recoveries	MS	FA17887-1	Limits
460-00-4	4-Bromofluorobenzene	88%	73%	63-137%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FA17887
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52993-MS	DD77266.D	1	09/05/14	NG	09/05/14	OP52993	GDD2318
FA17887-21	DD77265.D	1	09/05/14	NG	09/05/14	OP52993	GDD2318

The QC reported here applies to the following samples: **Method:** SW846 8011

FA17887-21, FA17887-22, FA17887-23, FA17887-24, FA17887-25, FA17887-26, FA17887-27, FA17887-28, FA17887-29, FA17887-30, FA17887-31, FA17887-32, FA17887-34, FA17887-35

CAS No.	Compound	FA17887-21 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
106-93-4	1,2-Dibromoethane	ND		0.236	0.29	123	72-134

CAS No.	Surrogate Recoveries	MS	FA17887-21	Limits
460-00-4	4-Bromofluorobenzene	120%	96%	63-137%

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA17887
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52960-DUP	DD77212.D	1	09/03/14	NG	09/03/14	OP52960	GDD2316
FA17887-2	DD77211.D	1	09/03/14	NG	09/03/14	OP52960	GDD2316

The QC reported here applies to the following samples: **Method:** SW846 8011

FA17887-1, FA17887-2, FA17887-3, FA17887-4, FA17887-5, FA17887-6, FA17887-7, FA17887-8, FA17887-9, FA17887-10, FA17887-11, FA17887-12, FA17887-13, FA17887-14, FA17887-15, FA17887-16, FA17887-17, FA17887-18, FA17887-19, FA17887-20

CAS No.	Compound	FA17887-2 ug/l	Q	DUP ug/l	Q	RPD	Limits
106-93-4	1,2-Dibromoethane	ND		ND		nc	28

CAS No.	Surrogate Recoveries	DUP	FA17887-2	Limits
460-00-4	4-Bromofluorobenzene	81%	73%	63-137%

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA17887
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52993-DUP	DD77268.D	1	09/05/14	NG	09/05/14	OP52993	GDD2318
FA17887-22	DD77267.D	1	09/05/14	NG	09/05/14	OP52993	GDD2318

The QC reported here applies to the following samples: **Method:** SW846 8011

FA17887-21, FA17887-22, FA17887-23, FA17887-24, FA17887-25, FA17887-26, FA17887-27, FA17887-28, FA17887-29, FA17887-30, FA17887-31, FA17887-32, FA17887-34, FA17887-35

CAS No.	Compound	FA17887-22 ug/l	Q	DUP ug/l	Q	RPD	Limits
106-93-4	1,2-Dibromoethane	ND		ND		nc	28

CAS No.	Surrogate Recoveries	DUP	FA17887-22	Limits
460-00-4	4-Bromofluorobenzene	105%	90%	63-137%

* = Outside of Control Limits.

APPENDIX B

Ground Water Sampling Data Sheets

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no.
pH=4.0 _____ Standard
pH=7.0 _____ Standard
pH=10.0 _____ Standard

Conductivity Meter serial no.
_____ Standard
_____ Standard
_____ Standard

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID # 186816 Monitoring Well # MW-1
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.052

* Free Product Thickness:	~~0~~	feet
Depth to Ground Water (DGW)	14.52	feet
Total Well Depth (TWD)	20.16	feet
Length of the water column (LWC = TWD-DGW)	—	feet

1 casing volume (CV = LWC X C) = —
3 casing volume 3 X CV = — gals (standard purge volume)

Total volume of Water Purged Before Sampling	~~0~~	gals
Total volume of Water Purged for Post Sampling	~~0~~	gals
	~~0~~	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1614
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	1.76							
PID readings, if required								

Remarks:
No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard
pH=7.0 _____ Standard
pH=10.0 _____ Standard

Conductivity Meter serial no. _____
Standard _____
Standard _____
Standard _____

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID # 18688e Monitoring Well # MW-2
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	0.02	feet
Depth to Ground Water (DGW)	14.62	feet
Total Well Depth (TWD)	25.67	feet
Length of the water column (LWC = TWD-DGW)	—	feet
1 casing volume (CV = LWC X C) =	—	
3 casing volume 3 X CV =	—	gals (standard purge volume)
Total volume of Water Purged Before Sampling	~~0~~	gals
Total volume of Water Purged for Post Sampling	~~0~~	gals
	~~0~~	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								
PID readings, if required								

Remarks: No sample; FP

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no.
pH=4.0 _____ Standard
pH=7.0 _____ Standard
pH=10.0 _____ Standard

Conductivity Meter serial no.
_____ Standard
_____ Standard
_____ Standard

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID # 186816 Monitoring Well # MW-3
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	14.48	feet
Total Well Depth (TWD)	25.57	feet
Length of the water column (LWC = TWD-DGW)	11.09	feet

1 casing volume (CV = LWC X C) = 1.81
3 casing volume 3 X CV = 5.43 gals (standard purge volume)

Total volume of Water Purged Before Sampling	3.62	gals
Total volume of Water Purged for Post Sampling	0	gals
	3.62	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	1.81						
Time (military)	1617	1619						1622
pH (s.u.)	5.41	5.72						
Specific Cond. (umhos/cm)	86	81						
Water Temperature (degrees C)	24.71	22.01						
Turbidity (subjective: clear, slightly cloudy, cloudy)	8.55	>1000						
Dissolved Oxygen (mg/l)	1.04	0.78						
PID readings, if required								

Remarks:
Dry @ 2 volumes
Not enough for readings

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____ Standard _____

Chain of Custody YSI: 13B100013 Hanna: 08597525

Relinquished by Date/Time Received by Date/Time

Facility Name: Tisdale's Quick Stop
Site ID #: 18686 Monitoring Well #: MW-4
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	—	feet
Total Well Depth (TWD)	13.48	feet
Length of the water column (LWC = TWD-DGW)	—	feet

1 casing volume (CV = LWC X C) = —
3 casing volume 3 X CV = — gals (standard purge volume)

Total volume of Water Purged Before Sampling	0	gals
Total volume of Water Purged for Post Sampling	0	gals
	0	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								
PID readings, if required								

Remarks: No sample; DRY

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard
pH=7.0 _____ Standard
pH=10.0 _____ Standard

Conductivity Meter serial no. _____
_____ Standard
_____ Standard
_____ Standard

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID # 18686 Monitoring Well # MW-5
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	—	feet
Total Well Depth (TWD)	11.86	feet
Length of the water column (LWC = TWD-DGW)	—	feet

1 casing volume (CV = LWC X C) = —
3 casing volume 3 X CV = — gals (standard purge volume)

Total volume of Water Purged Before Sampling	0	gals
Total volume of Water Purged for Post Sampling	0	gals
	0	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								
PID readings, if required								

Remarks:
No sample; DRY

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no. ____
Conductivity Meter serial no. ____
pH=4.0 ____ Standard ____
pH=7.0 ____ Standard ____
pH=10.0 ____ Standard ____

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID #: 18686 Monitoring Well #: MW-6
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.052

* Free Product Thickness:	—	feet
Depth to Ground Water (DGW)	14.27	feet
Total Well Depth (TWD)	21.07	feet
Length of the water column (LWC = TWD-DGW)	—	feet

1 casing volume (CV = LWC X C) = —
3 casing volume 3 X CV = — gals (standard purge volume)

Total volume of Water Purged Before Sampling: 0 gals
Total volume of Water Purged for Post Sampling: 0 gals
0 Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1548
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	2.84							
PID readings, if required								

Remarks:
No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		Standard	
pH=7.0		Standard	
pH=10.0		Standard	

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID #: 18686 Monitoring Well #: MW-7
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	—	feet
Depth to Ground Water (DGW)	14.05	feet
Total Well Depth (TWD)	21.69	feet
Length of the water column (LWC = TWD-DGW)	—	feet

1 casing volume (CV = LWC X C) = —
3 casing volume 3 X CV = — gals (standard purge volume)

Total volume of Water Purged Before Sampling	0	gals
Total volume of Water Purged for Post Sampling	0	gals
	0	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1555
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	2.59							
PID readings, if required								

Remarks:
No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard
pH=7.0 _____ Standard
pH=10.0 _____ Standard

Conductivity Meter serial no. _____
_____ Standard
_____ Standard
_____ Standard

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID # 186816 Monitoring Well # MW-8
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	—	feet
Depth to Ground Water (DGW)	14.31	feet
Total Well Depth (TWD)	21.71	feet
Length of the water column (LWC = TWD-DGW)	—	feet

1 casing volume (CV = LWC X C) = —
3 casing volume 3 X CV = — gals (standard purge volume)

Total volume of Water Purged Before Sampling 0 gals
Total volume of Water Purged for Post Sampling 0 gals
0 Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1422
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	2.94							
PID readings, if required								

Remarks:
No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by Date/Time Received by Date/Time

Facility Name: Tisdale's Quick Stop
Site ID # 18686 Monitoring Well # MW-9
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	—	feet
Depth to Ground Water (DGW)	15.35	feet
Total Well Depth (TWD)	22.03	feet
Length of the water column (LWC = TWD-DGW)	—	feet

1 casing volume (CV = LWC X C) = —
3 casing volume 3 X CV = — gals (standard purge volume)

Total volume of Water Purged Before Sampling 0 gals
Total volume of Water Purged for Post Sampling 0 gals
0 Total Purged
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1506
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	2.08							
PID readings, if required								

Remarks:
No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard
pH=7.0 _____ Standard
pH=10.0 _____ Standard

Conductivity Meter serial no. _____
Standard _____
Standard _____
Standard _____

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID # 18686 Monitoring Well # MW-10
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	16.16	feet
Total Well Depth (TWD)	24.86	feet
Length of the water column (LWC = TWD-DGW)	—	feet

1 casing volume (CV = LWC X C) = —
3 casing volume 3 X CV = — gals (standard purge volume)

Total volume of Water Purged Before Sampling	0	gals
Total volume of Water Purged for Post Sampling	0	gals
	0	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1519
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	2.84							
PID readings, if required								

Remarks:

No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard
pH=7.0 _____ Standard
pH=10.0 _____ Standard

Conductivity Meter serial no. _____
Standard _____
Standard _____

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID #: 18686 Monitoring Well #: MW-13
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	—	feet
Depth to Ground Water (DGW)	15.08	feet
Total Well Depth (TWD)	24.01	feet
Length of the water column (LWC = TWD-DGW)	—	feet

1 casing volume (CV = LWC X C) = —
3 casing volume 3 X CV = — gals (standard purge volume)

Total volume of Water Purged Before Sampling	~~0~~	gals
Total volume of Water Purged for Post Sampling	~~0~~	gals
	~~0~~	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1413
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	2.16							
PID readings, if required								

Remarks:
No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____ Standard _____ Standard _____

Chain of Custody YSI: 13B1000013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID #: 18686 Monitoring Well #: MW-14
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	~~0~~	feet
Depth to Ground Water (DGW)	14.58	feet
Total Well Depth (TWD)	24.01	feet
Length of the water column (LWC = TWD-DGW)	—	feet
1 casing volume (CV = LWC X C) =	—	
3 casing volume 3 X CV =	—	gals (standard purge volume)
Total volume of Water Purged Before Sampling	~~0~~	gals
Total volume of Water Purged for Post Sampling	~~0~~	gals
	~~0~~	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1638
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	2.31							
PID readings, if required								

Remarks:
No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____
Standard _____
Standard _____
Standard _____

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID #: 18686 Monitoring Well #: MW-15
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.052

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	15.96	feet
Total Well Depth (TWD)	24.43	feet
Length of the water column (LWC = TWD-DGW)	—	feet
1 casing volume (CV = LWC X C) =	—	
3 casing volume 3 X CV =	—	gals (standard purge volume)
Total volume of Water Purged Before Sampling	0	gals
Total volume of Water Purged for Post Sampling	0	gals
	0	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1647
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	1.97							
PID readings, if required								

Remarks:

No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____
Standard _____
Standard _____

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by Date/Time Received by Date/Time

Facility Name: Tisdale's Quick Stop
Site ID # 18686 Monitoring Well # MW-19
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	—	feet
Depth to Ground Water (DGW)	18.08	feet
Total Well Depth (TWD)	25.07	feet
Length of the water column (LWC = TWD-DGW)	—	feet

1 casing volume (CV = LWC X C) = —
3 casing volume 3 X CV = — gals (standard purge volume)

Total volume of Water Purged Before Sampling 0 gals
Total volume of Water Purged for Post Sampling 0 gals
0 Total Purged
*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1319
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	1.40							
PID readings, if required								

Remarks:
No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		Standard	
pH=7.0		Standard	
pH=10.0		Standard	

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID #: 186816 Monitoring Well #: MW-20
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	—	feet
Depth to Ground Water (DGW)	15.18	feet
Total Well Depth (TWD)	23.89	feet
Length of the water column (LWC = TWD-DGW)	—	feet
1 casing volume (CV = LWC X C) =	—	
3 casing volume 3 X CV =	—	gals (standard purge volume)
Total volume of Water Purged Before Sampling	0	gals
Total volume of Water Purged for Post Sampling	0	gals
	0	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1310
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	2.54							
PID readings, if required								

Remarks:

No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by Date/Time Received by Date/Time

Facility Name: Tisdale's Quick Stop
Site ID #: 18686 Monitoring Well #: MW-21
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	—	feet
Depth to Ground Water (DGW)	14.22	feet
Total Well Depth (TWD)	20.50	feet
Length of the water column (LWC = TWD-DGW)	6.28	feet
1 casing volume (CV = LWC X C) =	1.02	
3 casing volume 3 X CV =	3.06	gals (standard purge volume)
Total volume of Water Purged Before Sampling	3.06	gals
Total volume of Water Purged for Post Sampling	0	gals
	3.06	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	1.02	2.04	3.06				
Time (military)	1204	1205	1207	1209				1210
pH (s.u.)	4.56	4.53	4.38	4.25				
Specific Cond. (umhos/cm)	38	43	40	39				
Water Temperature (degrees C)	23.09	22.20	22.04	22.61				
Turbidity (subjective: clear, slightly cloudy, cloudy)	118	71000	71000	71000				
Dissolved Oxygen (mg/l)	2.40	2.68	2.18	1.92				
PID readings, if required								

Remarks:

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID #: 186816 Monitoring Well #: MW-22
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	15.00	feet
Total Well Depth (TWD)	24.17	feet
Length of the water column (LWC = TWD-DGW)	—	feet
1 casing volume (CV = LWC X C) =	—	
3 casing volume 3 X CV =	—	gals (standard purge volume)
Total volume of Water Purged Before Sampling	0	gals
Total volume of Water Purged for Post Sampling	0	gals
	0	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1134
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	2.62							
PID readings, if required								

Remarks:
No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no. _____
Conductivity Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by Date/Time Received by Date/Time

Facility Name: Tisdale's Quick Stop
Site ID # 18686 Monitoring Well # MW-23
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	14.71	feet
Total Well Depth (TWD)	22.48	feet
Length of the water column (LWC = TWD-DGW)	—	feet
1 casing volume (CV = LWC X C) =	—	
3 casing volume 3 X CV =	—	gals (standard purge volume)
Total volume of Water Purged Before Sampling	0	gals
Total volume of Water Purged for Post Sampling	0	gals
	0	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1102
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	1.51							
PID readings, if required								

Remarks:
No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no.
pH=4.0 _____ Standard
pH=7.0 _____ Standard
pH=10.0 _____ Standard

Conductivity Meter serial no.
_____ Standard
_____ Standard

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by Date/Time Received by Date/Time

Facility Name: Tisdale's Quick Stop
Site ID #: 18686 Monitoring Well #: MW-24
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	12.62	feet
Total Well Depth (TWD)	21.70	feet
Length of the water column (LWC = TWD-DGW)	—	feet
1 casing volume (CV = LWC X C) =	—	
3 casing volume 3 X CV =	—	gals (standard purge volume)
Total volume of Water Purged Before Sampling	0	gals
Total volume of Water Purged for Post Sampling	0	gals
	0	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1056
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	2.38							
PID readings, if required								

Remarks:
No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no. _____
Conductivity Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by Date/Time Received by Date/Time

Facility Name: Tisdale's Quick Stop
Site ID # 186816 Monitoring Well # MW-25
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.052

* Free Product Thickness:	-0-	feet
Depth to Ground Water (DGW)	12.79	feet
Total Well Depth (TWD)	21.29	feet
Length of the water column (LWC = TWD-DGW)	—	feet

1 casing volume (CV = LWC X C) = —
3 casing volume 3 X CV = — gals (standard purge volume)

Total volume of Water Purged Before Sampling -0- gals
Total volume of Water Purged for Post Sampling -0- gals
-0- Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1154
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	2.39							
PID readings, if required								

Remarks:
No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____
Standard _____

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID # 186816 Monitoring Well # MW-26
Well Diameter (D): 2" 0.167 foot

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	12.09	feet
Total Well Depth (TWD)	19.73	feet
Length of the water column (LWC = TWD-DGW)	—	feet
1 casing volume (CV = LWC X C) =	—	
3 casing volume 3 X CV =	—	gals (standard purge volume)
Total volume of Water Purged Before Sampling	0	gals
Total volume of Water Purged for Post Sampling	0	gals
	0	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1147
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	2.45							
PID readings, if required								

Remarks:
No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard
pH=7.0 _____ Standard
pH=10.0 _____ Standard

Conductivity Meter serial no. _____
_____ Standard
_____ Standard

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by | Date/Time | Received by | Date/Time

Facility Name: Tisdale's Quick Stop
Site ID #: 18686 Monitoring Well #: MW-27
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	Θ	feet
Depth to Ground Water (DGW)	16.61	feet
Total Well Depth (TWD)	25.15	feet
Length of the water column (LWC = TWD-DGW)	—	feet
1 casing volume (CV = LWC X C) =	—	
3 casing volume 3 X CV =	—	gals (standard purge volume)
Total volume of Water Purged Before Sampling	Θ	gals
Total volume of Water Purged for Post Sampling	Θ	gals
	Θ	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1127
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	2.01							
PID readings, if required								

Remarks:
No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____ Standard _____

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID # 18686 Monitoring Well # MW-28
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.052

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	16.96	feet
Total Well Depth (TWD)	25.06	feet
Length of the water column (LWC = TWD-DGW)	—	feet

1 casing volume (CV = LWC X C) = —
3 casing volume 3 X CV = — gals (standard purge volume)

Total volume of Water Purged Before Sampling	0	gals
Total volume of Water Purged for Post Sampling	0	gals
	0	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1116
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	2.41							
PID readings, if required								

Remarks:
No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		Standard	
pH=7.0		Standard	
pH=10.0		Standard	

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID # 18608le Monitoring Well # MW-29
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	15.74	feet
Total Well Depth (TWD)	25.16	feet
Length of the water column (LWC = TWD-DGW)	—	feet
1 casing volume (CV = LWC X C) =	—	
3 casing volume 3 X CV =	—	gals (standard purge volume)
Total volume of Water Purged Before Sampling	0	gals
Total volume of Water Purged for Post Sampling	0	gals
	0	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1112
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	2.49							
PID readings, if required								

Remarks:
No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Conductivity Meter serial no. _____
Standard _____

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID # 18686 Monitoring Well # MW-30
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	14.75	feet
Total Well Depth (TWD)	19.78	feet
Length of the water column (LWC = TWD-DGW)	—	feet

1 casing volume (CV = LWC X C) = —
3 casing volume 3 X CV = — gals (standard purge volume)

Total volume of Water Purged Before Sampling	0	gals
Total volume of Water Purged for Post Sampling	0	gals
	0	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								959
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	2.82							
PID readings, if required								

Remarks:
No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: SUNNY
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no.		Conductivity Meter serial no.	
pH=4.0	Standard		
pH=7.0	Standard		
pH=10.0	Standard		

Chain of Custody: YSI: 13B100013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID #: 18688 Monitoring Well #: MW-31
Well Diameter (D): 2" 0.167 foot

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	~~0~~	feet
Depth to Ground Water (DGW)	15.71	feet
Total Well Depth (TWD)	20.23	feet
Length of the water column (LWC = TWD-DGW)	—	feet
1 casing volume (CV = LWC X C) =	—	
3 casing volume 3 X CV =	—	gals (standard purge volume)
Total volume of Water Purged Before Sampling	~~0~~	gals
Total volume of Water Purged for Post Sampling	~~0~~	gals
	~~0~~	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								952
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	2.63							
PID readings, if required								

Remarks:

No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		Standard	
pH=7.0		Standard	
pH=10.0		Standard	

Chain of Custody: YSI: 13B100013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID #: 18686 Monitoring Well #: MW-1A
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	—	feet
Depth to Ground Water (DGW)	14.08	feet
Total Well Depth (TWD)	21.24	feet
Length of the water column (LWC = TWD-DGW)	—	feet

1 casing volume (CV = LWC X C) =
3 casing volume 3 X CV = — gals (standard purge volume)

Total volume of Water Purged Before Sampling: 0 gals
Total volume of Water Purged for Post Sampling: 0 gals
0 Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1446
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	0.37							
PID readings, if required								

Remarks:
No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: 95° F

Quality Assurance

pH Meter serial no.		Conductivity Meter serial no.	
pH=4.0	Standard		
pH=7.0	Standard		
pH=10.0	Standard		

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID # 186816 Monitoring Well # MW-2A
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	—	feet
Depth to Ground Water (DGW)	14.21	feet
Total Well Depth (TWD)	20.85	feet
Length of the water column (LWC = TWD-DGW)	—	feet

1 casing volume (CV = LWC X C) = —
3 casing volume 3 X CV = — gals (standard purge volume)

Total volume of Water Purged Before Sampling	0	gals
Total volume of Water Purged for Post Sampling	0	gals
	0	Total Purged

*if free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1452
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	0.87							
PID readings, if required								

Remarks:
No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		Standard	
pH=7.0		Standard	
pH=10.0		Standard	

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID # 18686 Monitoring Well # MW-3A
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	—	feet
Depth to Ground Water (DGW)	14.08	feet
Total Well Depth (TWD)	20.02	feet
Length of the water column (LWC = TWD-DGW)	—	feet

1 casing volume (CV = LWC X C) = —
3 casing volume 3 X CV = — gals (standard purge volume)

Total volume of Water Purged Before Sampling	0	gals
Total volume of Water Purged for Post Sampling	0	gals
	0	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1439
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	0.97							
PID readings, if required								

Remarks:
No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no. _____
Conductivity Meter serial no. _____
pH=4.0 _____ Standard _____
pH=7.0 _____ Standard _____
pH=10.0 _____ Standard _____

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID # 18688e Monitoring Well # MW-4A
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.052

* Free Product Thickness:	—	feet
Depth to Ground Water (DGW)	14.52	feet
Total Well Depth (TWD)	20.74	feet
Length of the water column (LWC = TWD-DGW)	—	feet

1 casing volume (CV = LWC X C) = —
3 casing volume 3 X CV = — gals (standard purge volume)

Total volume of Water Purged Before Sampling ⊖ gals
Total volume of Water Purged for Post Sampling ⊖ gals
⊖ Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25							
Time (military)								1432
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temperature (degrees C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)	1.84							
PID readings, if required								

Remarks:

No Purge

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/28/14
Field Personnel: Angela Roach
General Weather Conditions: Sunny
Ambient Air Temperature: ~85° F

Quality Assurance

pH Meter serial no.
pH=4.0 _____ Standard
pH=7.0 _____ Standard
pH=10.0 _____ Standard

Conductivity Meter serial no.
Standard
Standard
Standard

Chain of Custody YSI: 13B100013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID # 186816 Monitoring Well # TW-1
Well Diameter (D): 2" 0.167 foot

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.052

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	15.54	feet
Total Well Depth (TWD)	45.71	feet
Length of the water column (LWC = TWD-DGW)	30.17	feet
1 casing volume (CV = LWC X C) =	4.92	
3 casing volume 3 X CV =	14.75	gals (standard purge volume)
Total volume of Water Purged Before Sampling	14.75	gals
Total volume of Water Purged for Post Sampling	0	gals
	14.75	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	4.92	9.84	14.75				
Time (military)	903	911	919	928				929
pH (s.u.)	5.86	6.39	5.90	5.84				
Specific Cond. (umhos/cm)	101	93	93	92				
Water Temperature (degrees C)	22.65	21.02	21.50	21.22				
Turbidity (subjective: clear, slightly cloudy, cloudy)	14.6	30.1	144	43.9				
Dissolved Oxygen (mg/l)	3.78	2.44	1.98	1.52				
PID readings, if required								

Remarks:

Field Data Information Sheet for Ground-Water Sampling
South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 08/27/14
Field Personnel: Angela Roach
General Weather Conditions: sunny
Ambient Air Temperature: ~95° F

Quality Assurance

pH Meter serial no. ____
pH=4.0 ____ Standard ____
pH=7.0 ____ Standard ____
pH=10.0 ____ Standard ____

Conductivity Meter serial no. ____

Chain of Custody YSI: 13B1000013
Hanna: 08597525

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Tisdale's Quick Stop
Site ID #: 18686 Monitoring Well #: TW-2
Well Diameter (D): 2" 0.167 feet

Conversion factor (C): 3.14 X (D/2)2 for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

* Free Product Thickness:	0	feet
Depth to Ground Water (DGW)	13.97	feet
Total Well Depth (TWD)	50.52	feet
Length of the water column (LWC = TWD-DGW)	36.55	feet

1 casing volume (CV = LWC X C) = 5.96
3 casing volume 3 X CV = 17.87 gals (standard purge volume)

Total volume of Water Purged Before Sampling	17.87	gals
Total volume of Water Purged for Post Sampling	0	gals
	17.87	Total Purged

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	0.25	5.96	11.92	17.87				
Time (military)	1228	1231	1236	1242				1243
pH (s.u.)	6.07	6.08	6.09	6.06				
Specific Cond. (umhos/cm)	136	138	144	146				
Water Temperature (degrees C)	25.63	24.13	23.12	22.88				
Turbidity (subjective: clear, slightly cloudy, cloudy)	9.22	8.49	17.8	46.5				
Dissolved Oxygen (mg/l)	2.78	1.76	1.89	1.61				
PID readings, if required								

Remarks:

APPENDIX C

Contractor Checklist

Contractor Checklist

For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, the No box should be checked and a thorough description of the reason must be provided.

Item #	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?	X		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?			X
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided?	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	X		
24	If free-product is present, has the thickness been provided?	X		
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?	X		
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	X		
34	Has the current and historical laboratory data been provided in tabular format?	X		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)	X		
40	Has the site potentiometric map been provided? (Figure 5)	X		
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)			X
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

Explanation for missing or incomplete information.

dhec
Healthy People Healthy Communities.

JAN 1 8 2017

UST 57 DOCKETING

MR MARTY EASLER
196 RICHBURG ROAD
GREELEYVILLE SC 29056

Re: **SSWP Directive for GWS**
Tisdales Quick Stop, 1989 Thurgood Marshall Blvd, Kingstree SC 29056
UST Permit # 18686
Release reported March 30, 2001
Monitoring Report received August 22, 2016
Williamsburg County

Dear Mr. Easler:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report submitted by Geological Resources, Inc. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels (RBSLs).

To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of groundwater sampling is necessary. The groundwater sampling must be conducted in accordance with the contractor's Annual Contractor Quality Assurance Plan (ACQAP) and in compliance with all applicable regulations. A copy of the UST QAPP is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/.

Groundwater samples should be collected from all monitoring wells, water supply wells, and surface waters within 1,000 ft radius of the site and analyzed for BTEX + Naphth + MtBE, 1,2-DCA, 8 oxygenates, and EDB. All wells should be purged prior to sampling.

Your contractor must complete the Site-Specific Work Plan (SSWP) if your contractor has an approved Annual Contractor Quality Assurance Plan (ACQAP). SSWP and Cost Proposal must be submitted within 30 days from the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that approval from DHEC must be issued before work begins.**

On all correspondence regarding this site, please reference UST Permit # 18686. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 898-0605, fax me at (803) 898-0673, or e-mail me at gathinnr@dhec.sc.gov.

Sincerely,

Nicholas Gathings, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Technical file
Geological Resources, Inc. 3502 Hayes Rd., Monroe, North Carolina 28110

Geological Resources, Inc.

UST
JAN 30 2017
DIVISION

UST
581
DOCKETING

January 24, 2017

Mr. Nicholas Gathings
South Carolina Department of Health
And Environmental Control
Underground Storage Tank Management Division
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201

Re: GRI Proposal No. 17-068
Site Specific Work Plan
Tisdale's Quick Stop
1989 Thurgood Marshall Blvd
Kingstree, Williamsburg County
UST Permit No. 18686
GRI Project No. 1543

Dear Mr. Gathings:

Attached is a Site Specific Work Plan for approved ACQAP and the associated Assessment Component Cost Agreement for the above referenced site in Kingstree, Williamsburg County, South Carolina.

Please contact me at (704) 845-4010 or by e-mail at wsb@geologicalresourcesinc.com if you have questions or comments concerning this matter.

Sincerely,

W. Scott Ball
Senior Project Manager

Enclosures

cc: file

3502 Hayes Road • Monroe, North Carolina 28110
Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012

D H E C

PROMOTE PROTECT PROSPER

Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division

To: Nicholas Gathings (SCDHEC Project Manager)

From: Scott Ball (Contractor Project Manager)

Contractor: Geological Resources, Inc. UST Contractor Certification Number: 74

Facility Name: Tisdale's Quick Stop UST Permit #: 18686

Facility Address: 1989 Thurgood Marshall Blvd, Kingstree, Williamsburg County, SC

Responsible Party: Mr. Marty Easler Phone: (843) 426-2557

RP Address: 196 Richburg Road, Greeleyville, SC 29056

Property Owner (if different): Andy McKnight

Property Owner Address: 316 McCullough Loop,Kingstree, SC

Current Use of Property: Commercial - Restaurant

Scope of Work (Please check all that apply)

☐ IGWA ☐ Tier II ☑ Groundwater Sampling ☐ GAC

☐ Tier I ☐ Monitoring Well Installation ☐ Other _____

Analyses (Please check all that apply)

Groundwater/Surface Water:

☑ BTEXNMDCA (8260B)	☐ Lead	☐ BOD	☐ Methane
☑ Oxygenates (8260B)	☐ 8 RCRA Metals	☐ Nitrate	☐ Ethanol
☑ EDB (8011)	☐ TPH	☐ Sulfate	☐ Dissolved Iron
☐ PAH (8270D)	☐ pH	☐ Other _____	

Soil:

☐ BTEXN	☐ 8 RCRA Metals	☐ TPH-DRO (3550B/8015B)	☐ Grain Size
☐ PAH	☐ Oil & Grease (9071)	☐ TPH-GRO (5030B/8015B)	☐ TOC

Air:

☐ BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

____ Soil	2 Water Supply Wells	____ Air	1 Field Blank
34 Monitoring Wells	____ Surface Water	2 Duplicate	1 Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

# of shallow points proposed: NA Estimated Footage: _____ feet per point

# of deep points proposed: _____ Estimated Footage: _____ feet per point

Field Screening Methodology: _____

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells: NA Estimated Footage: _____ feet per point

# of deep wells: _____ Estimated Footage: _____ feet per point

# of recovery wells: _____ Estimated Footage: _____ feet per point

Monitoring Well development method (consistent with SOP): _____

Comments, if warranted:

_____

_____

_____

UST Permit #: 18686 Facility Name: Tisdale's Quick Stop

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 10 days from approval Field Work Completion: 12 days from approval
Report Submittal: 45 days from approval # of Copies Provided to Property Owners: 1

Aquifer Characterization
Pump Test: ☐ Slug Test: ☐ (Check one and provide explanation below for choice)
NA

Investigation Derived Waste Disposal
Soil: _____ Tons Purge Water: 150 Gallons
Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons

Additional Details For This Scope of Work
For example, list wells to be sampled, wells to be abandoned/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.
Sample wells MW-1 through MW10, MW-13 through MW-16, MW-18 through MW 31, MW-1A through MW-4A, TW-1 and TW-2. Sample water supply wells WSW-1 and WSW-3. If any of the monitoring wells contain free product they will only be gauged and no samples will be collected. All ground water samples collected will be submitted for analyses of BTEX, MTBE, naphthalene, 1, 2-DCA and 8 oxygenates by Method 8260 and EDB by Method 8011.
All wells will be purged.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)
Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.
Name of Laboratory: _____
SCDHEC Certification Number: _____
Name of Laboratory Director: _____

NA Well Driller as indicated in ACQAO? (Yes/No) If no, indicate driller information below.
Name of Well Driller: _____
SCLLR Certification Number: _____

NA Other variations from ACQAP. Please describe below.

Attachments
1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:
   - North Arrow
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664

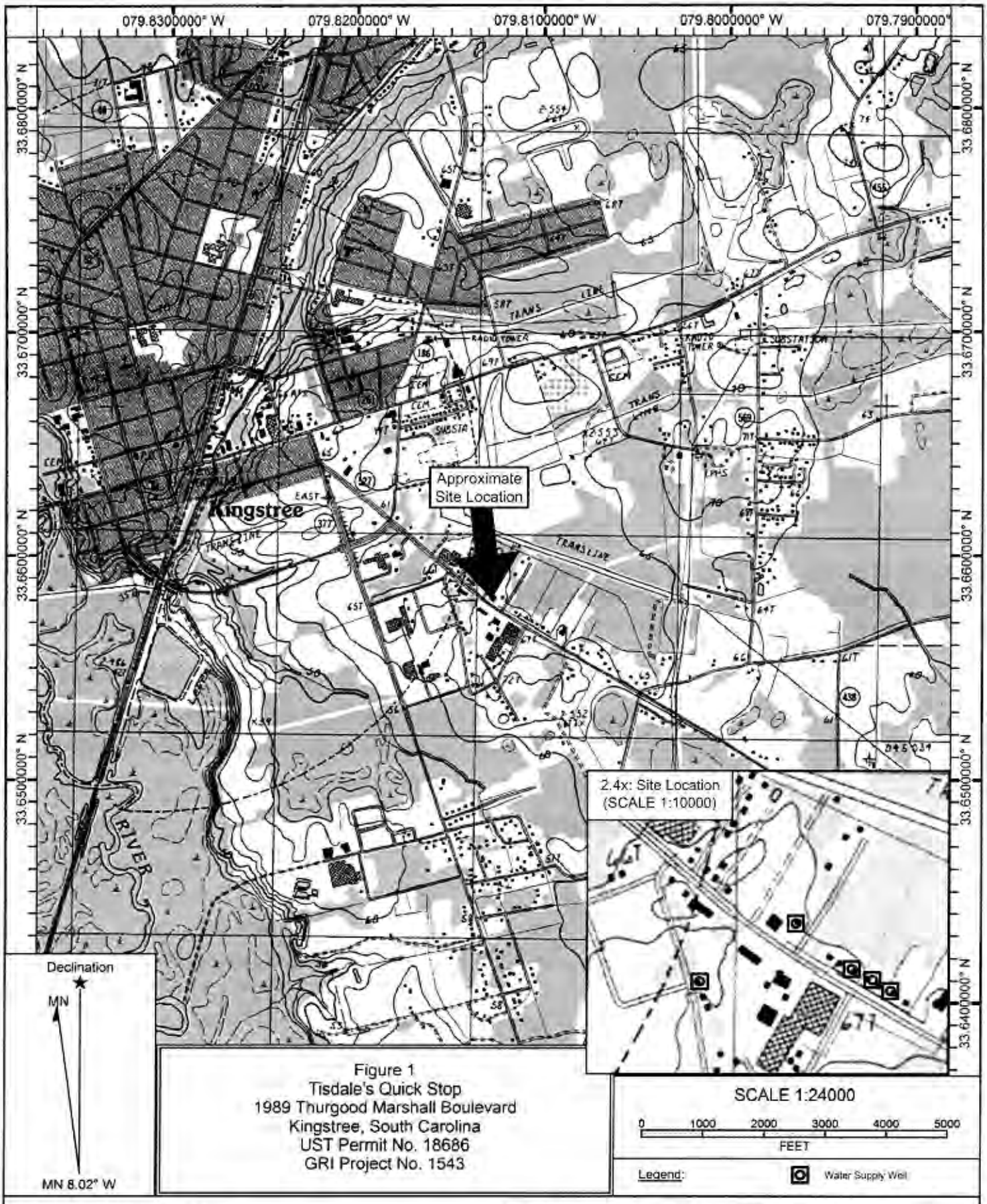


Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit No. 18686
GRI Project No. 1543

Name: Topographic Map
Date: 08/08/16
Scale: 1 inch = 2,000 ft.

Map Center Location: 033.6579897° N 079.8127613° W

Generated by Geological Resources, Inc.

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- WATER SUPPLY WELL
- DESTROYED MONITORING WELL
- LIGHT POLE
- TELEPHONE PEDESTAL
- SEWER MANHOLE
- FIRE HYDRANT
- FIBER OPTIC CABLE MARKER
- PROPERTY LINE
- T — UNDERGROUND TELEPHONE LINE
- W — UNDERGROUND WATER LINE
- PP & OVERHEAD POWER LINE
- S — UNDERGROUND SEWER LINE
- G — UNDERGROUND GAS LINE
- FOC — UNDERGROUND FIBER OPTIC LINE
- D — DITCH
- X — FENCE
- BENCHMARK
- 18-055 — WILLIAMSBURG COUNTY TAX MAP NUMBER
- (18) — PARCEL NUMBER

N

18-055 (20)
18-055 (21)
18-055 (22)
18-055 (23)
18-055 (18)
18-055 (19)
18-055 (24)
11-40 (1)
18-056 (18)
18-056 (19)

SALVATION AVE.
SC HIGHWAY 527
WARSAW ROAD
DRIVEWAY
Williamsburg Technical College
Open Grass Field
WOODS
WOODS
WOODS
CONC.
Shed
LUCKY 777
Mobile Home
Gate
Gate
Block Storage Buildings
State Dept. of Educ. School Bus Maint. Shop
Canopy
Diesel Dispenser
Abandoned Residence
1/2" REBAR IN P.P.
ASSUMED ELEV. 100.00'
Tisdale's Quick Stop

MW-1
MW-1A
MW-2
MW-2A
MW-3
MW-3A
MW-4
MW-4A
MW-5
MW-6
MW-7
MW-8
MW-9
MW-10
MW-13
MW-14
MW-15
MW-19
MW-20
MW-21
MW-22
MW-23
MW-24
MW-25
MW-26
MW-27
MW-28
MW-29
MW-30
MW-31
TW-1
TW-2
WSW-1
WSW-2 (INACTIVE)
WSW-3

0 50 100 200
(IN FEET)
1 inch = 100 ft

Geological Resources, Inc.

SITE MAP

Tisdale's Quick Stop
UST Permit No. 18686
GRI Project No. 1543

1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County, SC

Date:	08/08/16	Drawn by:	ECH	Figure:	2

dhec
Healthy People. Healthy Communities.

ASSESSMENT COMPONENT INVOICE
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
August 16, 2016

Facility Name: Tisdales Quick Stop

GRI Proposal No. 17-068

UST Permit #: 18686 **Cost Agreement #:**

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. **Plan Preparation**				
A1. Site-specific Work Plan	1	each	$150.00	$150.00
B1. Tax Map		each	$70.00	$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00	$0.00
2. A1. **Receptor Survey ***		each	$551.00	$0.00
3. **Survey (500 ft x 500 ft)**				
A1. Comprehensive Survey		each	$1,040.00	$0.00
B. Subsurface Geophysical Survey				
1B. < 10 meters below grade		each	$1,300.00	$0.00
2B. > 10 meters below grade		each	$2,310.00	$0.00
C1. Geophysical UST or Drum Survey		each	$910.00	$0.00
4. **Mob/Demob**				
A1. Equipment		each	$1,020.00	$0.00
B1. Personnel	2	each	$423.00	$846.00
C1. Adverse Terrain Vehicle		each	$500.00	$0.00
5. A1. **Soil Borings (hand auger)***		foot	$5.00	$0.00
6. **Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)***				
AA. Standard		per foot	$15.00	$0.00
C1. Fractured Rock		per foot	$20.20	$0.00
7. A1. **Soil Leachability Model**		each	$60.00	$0.00
8. **Abandonment (per foot)***				
A1. 2" diameter or less		per foot	$3.10	$0.00
B1. Greater than 2" to 6" diameter		per foot	$4.50	$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	$15.00	$0.00
9. **Well Installation (per foot)***				
A1. Water Table (hand augered)		per foot	$10.60	$0.00
B1. Water Table (drill rig)		per foot	$38.00	$0.00
CC. Telescoping		per foot	$50.00	$0.00
DD. Rock Drilling		per foot	$58.00	$0.00
E1. 2" Rock Coring		per foot	$30.90	$0.00
G1. Rock Multi-sampling ports/screens		per foot	$33.40	$0.00
HH. Recovery Well (4" diameter)		per foot	$45.00	$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	$15.00	$0.00
J1. Rotosonic (2" diameter)		per foot	$44.00	$0.00
K. Re-develop Existing Well		per foot	$11.00	$0.00
10. **Groundwater Sample Collection / Gauge Depth to Water or Product ***				
A1. Groundwater Purge	34	per well/receptor	$60.00	$2,040.00
B1. Air or Vapors		per receptor	$12.00	$0.00
C1. Water Supply	2	per well/receptor	$22.00	$44.00
D1. Groundwater (No Purge or Duplicat	2	per well/receptor	$28.00	$56.00
E1. Gauge Well only		per well	$7.00	$0.00
F1. Sample Below Product		per well	$12.00	$0.00
G1. Passive Diffusion Bag		each	$26.00	$0.00
H1. Field Blank	1	each	$24.60	$24.60

11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(82	40	per sample	$122.00		$4,880.00
AA1. Lead, Filtered		per sample	$13.80		$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	$153.60		$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	$36.40		$0.00
D1. PAH's		per sample	$60.60		$0.00
E1. Lead		per sample	$16.00		$0.00
F1. EDB by EPA 8011	39	per sample	$45.20		$1,762.80
FF1. EDB by EPA Method 8011 Rush		per sample	$68.20		$0.00
G1. 8 RCRA Metals		per sample	$63.40		$0.00
H1. TPH (9070)		per sample	$41.00		$0.00
II. pH		per sample	$5.20		$0.00
J1. BOD		per sample	$20.00		$0.00
PP. Ethanol		per sample	$14.80		$0.00
11. Analyses-Drinking Water					
L. BTEXNM+1,2 DCA (524.2)		per sample	$124.05		$0.00
M. 7-OXYGENATES & ETHANOL (8260B)		per sample	$91.75		$0.00
N. EDB (504.1)		per sample	$79.50		$0.00
O. RCRA METALS (200.8)		per sample	$100.00		$0.00
11. **Analyses-Soil**					
Q1. BTEX + Naphth.		per sample	$64.00		$0.00
R1. PAH's		per sample	$64.04		$0.00
S1. 8 RCRA Metals		per sample	$56.40		$0.00
U1. TPH-DRO (3550C/8015C)		per sample	$40.00		$0.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96		$0.00
W1. Grain size/hydrometer		per sample	$104.00		$0.00
X1. Total Organic Carbon		per sample	$30.60		$0.00
11. **Analyses-Air**					
Y1. BTEX + Naphthalene		per sample	$216.00		$0.00
11. **Analyses-Free Phase Product**					
Z1. Hydrocarbon Fuel Identification		per sample	$357.00		$0.00
12. **Aquifer Characterization**					
A1. Pumping Test*		per hour	$23.00		$0.00
B1. Slug Test*		per test	$191.00		$0.00
C1. Fractured Rock		per test	$100.00		$0.00
13. A1. **Free Product Recovery Rate Test***		each	$38.00		$0.00
14. **Fate/Transport Modeling**					
A1. Mathematical Model		each	$100.00		$0.00
B1. Computer Model		each	$100.00		$0.00
15. **Risk Evaluation**					
A. Tier I Risk Evaluation		each	$300.00		$0.00
B1. Tier II Risk Evaluation		each	$100.00		$0.00
16. A1. **Subsequent Survey***		each	$260.00		$0.00
17. **Disposal (gallons or tons)***					
AA. Wastewater	150	gallon	$0.56		$84.00
BB. Free Product		gallon	$0.50		$0.00
C1. Soil Treatment/Disposal		ton	$60.00		$0.00
D1. Drilling fluids		gallon	$0.42		$0.00
18. **Miscellaneous (attach receipts)**					
		each	$0.00		$0.00
		each	$0.00		$0.00
		each	$0.00		$0.00
20. **Tier I Assessment (Use DHEC 3665 form)**		standard			$0.00
21. **IGWA (Use DHEC 3666 form)**		standard			$0.00
22. **Corrective Action (Use DHEC 3667 form)**		PFP Bid			$0.00

23. **Aggressive Fluid & Vapor Recovery (AFVR)**					
A1. 8-hour Event*		each	$1,375.00		$0.00
AA. 24-hour Event*		each	$3,825.00		$0.00
A3. 48-hour Event*		each	$6,265.00		$0.00
A4. 96-hour Event*		each	$12,567.50		$0.00
C1. Off-gas Treatment 8 hour		per event	$122.50		$0.00
C2. Off-gas Treatment 24 hour		per event	$241.50		$0.00
C3. Off-gas Treatment 48 hour		per event	$327.00		$0.00
C4. Off-gas Treatment 96 hour		per event	$780.00		$0.00
D. Site Reconnaissance		each	$203.25		$0.00
E1. Additional Hook-ups		each	$25.75		$0.00
F1. Effluent Disposal		gallon	$0.44		$0.00
G. AFVR Mobilization/Demobilization		each	$391.50		$0.00
24. **Granulated Activated Carbon (GAC) filter system installation & service:**					
A1. New GAC System Installation*		each	$1,900.00		$0.00
BB. Refurbished GAC Sys. Install*		each	$900.00		$0.00
C1. Filter replacement/removal*		each	$350.00		$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	$275.00		$0.00
E1. GAC System housing*		each	$250.00		$0.00
F. In-line particulate filter		each	$150.00		$0.00
G1. Additional piping & fittings		foot	$1.50		$0.00
25. **Well Repair**					
A1. Additional Copies of the Report Delivered		each	$50.00		$0.00
B1. Repair 2x2 MW pad*		each	$50.00		$0.00
C1. Repair 4x4 MW pad*		each	$88.00		$0.00
D1. Repair well vault*		each	$118.00		$0.00
F1. Replace well cover bolts		each	$2.60		$0.00
G. Replace locking well cap & lock		each	$15.00		$0.00
H1. Replace/Repair stick-up*		each	$134.00		$0.00
I1. Convert Flush-mount to Stick-up*		each	$150.00		$0.00
J1. Convert Stick-up to Flush-mount*		each	$130.00		$0.00
K1. Replace missing/illegible well ID plate		each	$12.00		$0.00
Report Prep & Project Coordination	12%	percent	$9,887.40		$1,186.49
TOTAL					$11,073.89

*The appropriate mobilization cost can be added to complete these tasks, as necessary. DHEC

dhec
Healthy People. Healthy Communities.

MR MARTY EASLER
196 RICHBURG ROAD
GREELEYVILLE SC 29056

FEB 16 2017

UST 59 DOCKETING

Re: **Groundwater Sampling Directive**
Tisdales Quick Stop, 1989 Thurgood Marshall Blvd, Kingstree, SC
UST Permit #18686; CA #54032
Release Reported March 30, 2001
Site Specific Work Plan Received January 30, 2017
Williamsburg County

Dear Mr. Easler:

The Underground Storage Tank (UST) Management Division (Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced Site Specific Work Plan submitted on your behalf by Geological Resources, Inc. This scope of work will include comprehensive groundwater sampling to evaluate current site conditions. All work should be conducted in accordance with the contractor's Annual Contractor Quality Assurance Plan (ACQAP) and must be conducted in compliance with all applicable regulations. A copy of the current revision of DHEC's QAPP for the UST Management Division is available at https://www.scdhec.gov/environment/lw/ust/ReleaseAssessmentClean-up/QualityAssurance/.

Activities at the site should begin immediately upon receipt of this letter. **Cost agreement #54032** has been approved for the amount shown on the enclosed cost agreement form for a comprehensive groundwater sampling event. Groundwater samples will be analyzed for BTEX, Naphthalene, MTBE, 1,2-DCA, 8 Oxygenates, and EDB. All wells not bracketing the water table should be purged prior to sampling. Sampling and analyses should be conducted in accordance with Appendix F of the QAPP and to include duplicate samples, field and trip blanks. All water supply wells (WSW) if present should be tested under EPA drinking water methods 524.2 for BETXNM+1,2 DCA, 8260B for 7 Oxygenates and ethanol, and 504.1 for EDB.

The Monitoring Report and invoice are due within 60 days from the date samples are collected and 90 days from the date of this letter. The report submitted at the completion of these activities should include the required information outlined in the QAPP. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

Geological Resources, Inc. can submit an invoice for direct payment from State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. Please note that applicable South Carolina certification requirements regarding the services and report preparation must be satisfied. If the invoice is not submitted within 120 days from the date of this letter, monies

allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from DHEC is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by DHEC for the cost to be paid. DHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, DHEC reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note; if unnecessary dilutions are completed resulting in reporting limits of individual Chemicals of Concern in excess of Risk-Based Screening Levels (RBSLs), the data cannot be used. In those cases, the Division may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST Management Division encourages the use of 'J' values as necessary so the appropriate action can be determined for a release.

DHEC grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The transport and disposal must be conducted in accordance with the QAPP. If the CoC concentrations based on laboratory analysis are below RBSLs, please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence regarding this site, please reference **UST Permit #18686** and **CA #54032**. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0605 or by e-mail at gathinnr@dhec.sc.gov.

Sincerely,

Nicholas Gathings, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Geological Resources, Inc., 3502 Hayes Rd., Monroe, NC 28110 (w/ enc)
Technical File (w/ enc)

Approved Cost Agreement 54032

Facility: 18686 TISDALES QUICK STOP
GATHINNR
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
01 PLAN					
		A1 SITE SPECIFIC WORK PLAN	1.0000	$150.000	150.00
04 MOB/DEMOB					
		B1 PERSONNEL	2.0000	$423.000	846.00
10 SAMPLE COLLECTION					
		A1 GROUNDWATER (PURGE)	34.0000	$60.000	2,040.00
		C1 WATER SUPPLY	2.0000	$22.000	44.00
		D1 GROUNDWATER NO PURGE/DUPLICATE	3.0000	$28.000	84.00
		H1 FIELD BLANK	2.0000	$24.600	49.20
11 ANALYSES					
	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	38.0000	$122.000	4,636.00
		F1 EDB BY 8011	37.0000	$45.200	1,672.40
	WATER DRINKING WATER	L BTEXNM+1,2 DCA (524.2)	5.0000	$124.050	620.25
		M 7-OXYGENATES & ETHANOL (8260B)	5.0000	$91.750	458.75
		N EDB (504.1)	4.0000	$79.500	318.00
17 DISPOSAL					
		AA WASTEWATER	340.0000	$0.560	190.40
19 RPT/PROJECT MNGT & COORDINATIO					
		PRT REPORT PREPARATION	0.1200	$11,109.000	1,333.08
				Total Amount	12,442.08

Geological Resources, Inc.

UST
MAR 31 2017
DIVISION

March 29, 2017

Mr. ~~Jim Martin~~ Nick Gathings
SCDHEC
UST Management Division
Bureau of Land & Waste Management
2600 Bull Street
Columbia, SC 29201

Re: Ground Water Monitoring Report
March 2017
Tisdale's Quick Stop
1989 Thurgood Marshall Blvd.
Kingstree, Williamsburg County, South Carolina
UST Permit Number: 18686
GRI Project No: 1543

Dear Mr. Martin,

Please find enclosed the referenced report for the above mentioned site.

If you have any questions, please do not hesitate to contact Scott Ball at (704) 845-4010.

Sincerely,
Geological Resources, Inc.

Leslie Maxtone-Graham
Administrative Assistant

Enclosure

cc: Mr. Marty Easlerfile

UST
DOCKETING
607

3502 Hayes Road • Monroe, North Carolina 28110
113 West Firetower Road, Suite G • Winterville, North Carolina 28590
Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012

UST
MAR 3 1 2017
DIVISION

GROUND WATER MONITORING REPORT
MARCH 2017
TISDALE'S QUICK STOP
1989 THURGOOD MARSHALL BOULEVARD
KINGSTREE, WILLIAMSBURG COUNTY
SOUTH CAROLINA
UST PERMIT NO. 18686
GRI PROJECT NO. 1543

Prepared for:

Mr. Marty Easler
196 Richburg Road
Greeleyville, SC 29056

Prepared by:

Geological Resources, Inc.
3502 Hayes Road
Monroe, North Carolina 28110
Class I UST Site Rehabilitation Contractor # 74

March 29, 2017



W. Scott Ball
Project Manager

Randy A. Smith, P.G.
License # 2323

TABLE OF CONTENTS

1.0 INTRODUCTION 1

2.0 FACILITY INFORMATION 1

3.0 GROUND WATER QUALITY 2

4.0 QA/QC 3

5.0 CONCLUSIONS AND RECOMMENDATIONS 3

6.0 LIMITATIONS 4

FIGURES

Figure 1: Site Location Map
Figure 2: Site Map
Figure 3: Water Table Surface Map
Figure 4: Ground Water Quality Map

TABLES

Table 1: Summary of Ground Water Elevation Data
Table 2: Summary of Laboratory Analytical Results – Ground Water Samples – Chemicals of Concern
Table 3: Summary of Laboratory Analytical Results – Ground Water Samples – Oxygenates

APPENDICES

Appendix A: Laboratory Analytical Report - Ground Water Samples
Appendix B: Field Data Information Sheets
Appendix C: Disposal Manifest
Appendix D: Contractor Checklist

1.0 INTRODUCTION

This report presents the results of comprehensive ground water sampling activities conducted in March 2017 at the Tisdales Quick Stop site located at 1989 Thurgood Marshall Highway, in Kingstree, Williamsburg County, South Carolina (**Figures 1** and **2**). The activities were conducted in accordance with the "Groundwater Sampling Directive" dated February 16, 2017 from the SCDHEC. The purpose of the activities was to obtain current ground water quality data for the site.

The site is a former petroleum retail location. There are two buildings on site, the first is used as a convenience store and grill and the second building is used for a liquor store. Surrounding properties are a mix of commercial and residential. According to the South Carolina Underground Storage Tank (UST) registry database, a release at the site occurred on March 30, 2001, and the confirmation date of the release is listed as April 6, 2001. Two 550 gallon gasoline tanks and one 1,000 gallon diesel tank were removed March 1, 2001. A total of 37 monitoring wells (MW-1 through MW-31, MW-1A through MW-4A, TW-1 and TW-2) have been installed previously at the site. Please refer to earlier submittals for additional information regarding previous assessment activities.

2.0 FACILITY INFORMATION

- **Facility Name:** Tisdales Quick Stop
- **Location:** 1989 Thurgood Marshall Blvd (Highway 527)
  Kingstree, Williamsburg County
- **UST Permit No.** 18686
- **Property Owner:** Andy McKnight (Life) & Regina Mae Scott McKnight (Life)
  316 McCullough Loop
  Kingstree, South Carolina 29566
  (843) 382-2474
- **UST Owner/Operator:** Marty Easler
  196 Richburg Road
  Greeleyville, South Carolina 29056
  (843) 372-2502
- **Site Rehabilitation Contractor:** Geological Resources, Inc.
  3502 Hayes Road
  Monroe, North Carolina 28110
  (704) 845-4010
  Class 1, Certification Number 74

- **Laboratory:** Accutest Laboratories - Southeast
  4405 Vineland Road, Suite C-15
  Orlando, FL 32811
  (407) 425-6700
  State Certification Number: 96038001

Release Information:

- **Date Discovered:** March 30, 2001
- **Estimated Amount of Release:** Unknown
- **Source of Release:** Leaking UST System
- **UST Size/Contents:** Two 550 gallon gasoline tanks and one 1,000 gallon diesel tank (Removed March 1, 2001)
- **Latitude:** 33.6579897° North **Longitude:** 79.8127613° West

3.0 GROUND WATER QUALITY

Twenty-nine Type III monitoring wells (MW-1 through MW-4, MW-6 though MW-10, MW-13 through MW-15, MW-19 through MW-31 and MW-1A through MW-4A) and two telescoping monitoring wells (TW-1 and TW-2) were gauged on March 8, 2017, purged and/or sampled between March 8 and 9, 2017. Two water supply wells (WSW-1 and WSW-3) were also sampled between March 8 and 9, 2017. Monitoring wells MW-16 and MW-18 could not be found and were not sampled. Monitoring well MW-5 was obstructed and could not be gauged or sampled. All Type III and telescoping wells were purged prior to sampling. The depths to ground water in the Type III monitoring wells during the March 2017 sampling event ranged from 10.76 to 16.78 feet below the top of casings. Ground water elevations in the Type III monitoring wells relative to a temporary benchmark with an assumed datum of 100.00 feet ranged from 81.52 to 86.05 feet. Based on this data, ground water flow was generally toward the west. The horizontal hydraulic gradient across the site was less than 0.01 feet per foot. The vertical hydraulic gradient calculated for MW-3/TW-1 and MW-21/TW-2 were 0.023 and 0.004 feet per foot downward, respectively. A Site Map showing the locations of the monitoring wells and the structures on-site has been included as **Figure 2**. A Water Table Surface Map for the March 2017 sampling event has been included as **Figure 3**. A summary of well construction and gauging information is presented in **Table 1**.

Laboratory analyses were performed on the ground water samples collected from the monitoring wells during the March 2017 sampling event for BTEX, MTBE, naphthalene, 1,2-DCA and eight oxygenates using EPA Method 8260 as well as EDB by EPA Method 8011. Laboratory analyses were performed on the ground water samples collected from the water supply wells for BTEX, MTBE, naphthalene, 1,2-DCA by EPA Method 524.2, eight oxygenates using EPA Method 8260B and EDB by EPA Method 504.1. Concentrations of benzene, toluene, ethylbenzene, xylenes, MTBE, naphthalene and/or EDB that exceeded the RBSLs were

reported in the ground water samples collected from MW-1, MW-2, MW-3, MW-6, MW-14, MW-22, MW-1A, MW-2A, MW-3A and MW-4A. Concentrations of oxygenates that exceeded the action levels were reported in the samples collected from MW-1, MW-2, MW-3, MW-22, MW-23, MW-1A, MW-2A, MW-3A and MW-4A. No detectable concentrations of requested method constituents were reported in the water supply well samples. A Ground Water Quality Map based on data from the March 2017 sampling event has been included as **Figure 4**. Summaries of ground water sample analytical results are presented in **Tables 2** and **3**. A complete laboratory analytical report has been included as **Appendix A**. Field data information sheets have been included as **Appendix B**. A disposal manifest for purge water generated during sampling activities has been included as **Appendix C**.

4.0 QA/QC

Monitoring well gauging, purging and sampling was conducted in general accordance with the SCDHEC Programmatic QAPP and the approved site specific Contractor Addendum. All wells were purged and/or sampled with dedicated disposable bailers. All field measurement equipment was properly decontaminated between sampling locations. Duplicate samples from monitoring wells MW-1, MW-3A and WSW-3 as well as a field blank for both the monitoring wells and the water supply wells were collected during the sampling activities. A trip blank was included in the sample cooler. Laboratory results for MW-1 and MW-1 DUP B, MW-3A and MW-3A DUP A as well as WSW-3 and WSW-3 DUP C showed similar concentrations. No detectable concentrations of requested method constituents were reported for the trip blanks or field blanks. All applicable items on the Contractor Checklist were reviewed and verified. A copy of the Contractor Checklist is included as **Appendix D**.

5.0 CONCLUSIONS AND RECOMMENDATIONS

- A total of twenty-nine Type III monitoring wells, two telescoping monitoring wells and two water supply wells were gauged, purged and/or sampled in March 2017. Ground water flow at the site based on the March 2017 event was generally toward the west. The horizontal hydraulic gradient across the site was less than 0.01 feet per foot. The vertical hydraulic gradient ranged from 0.004 to 0.023 feet per foot downward.
- Concentrations of benzene, toluene, ethylbenzene, xylenes, MTBE, naphthalene and/or EDB that exceeded the RBSLs were reported in the ground water samples collected from MW-1, MW-2, MW-3, MW-6, MW-14, MW-22, MW-1A, MW-2A, MW-3A and MW-4A. Concentrations of oxygenates that exceeded the action levels were reported in the samples collected from MW-1, MW-2, MW-3, MW-22,

MW-23, MW-1A, MW-2A, MW-3A and MW-4A. No detectable concentrations of requested method constituents were reported in the water supply well samples.

- Free product was historically encountered in several monitoring wells. Based on the historical presence of free product and high levels of dissolved phase concentrations, an AFVR event is recommended for the affected wells. In addition, monitoring well MW-16 historically contained free product or elevated levels of dissolved-phase contaminants and should be replaced.
- Ground water sampling should continue as directed by the SCDHEC.

6.0 LIMITATIONS

This report has been prepared for the exclusive use of Mr. Marty Easler and the SCDHEC for specific application to the referenced site in Williamsburg County, South Carolina. The assessment was conducted based on the scope of work and level of effort specified by the SCDHEC and with resources adequate only for that scope of work. Our findings have been developed in accordance with generally accepted standards of geology and hydrogeology practices in the State of South Carolina, available information, and our professional judgment. No other warranty is expressed or implied.

The data that are presented in this report are indicative of conditions that existed at the precise locations sampled and at the time the samples were collected. In addition, the data obtained from samples would be interpreted as being meaningful with respect to parameters indicated in the laboratory report. No additional information can logically be inferred from these data.

FIGURES

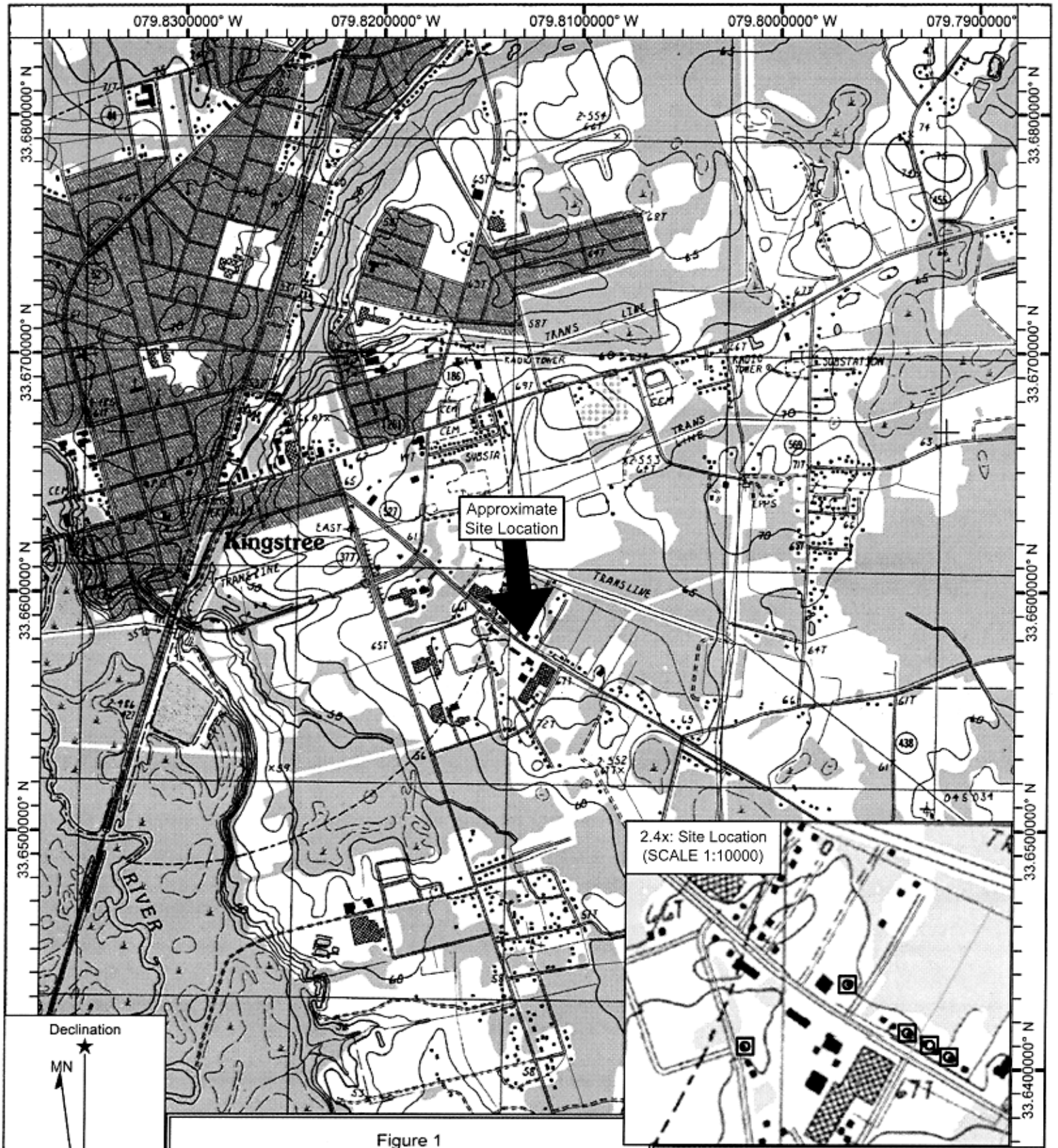
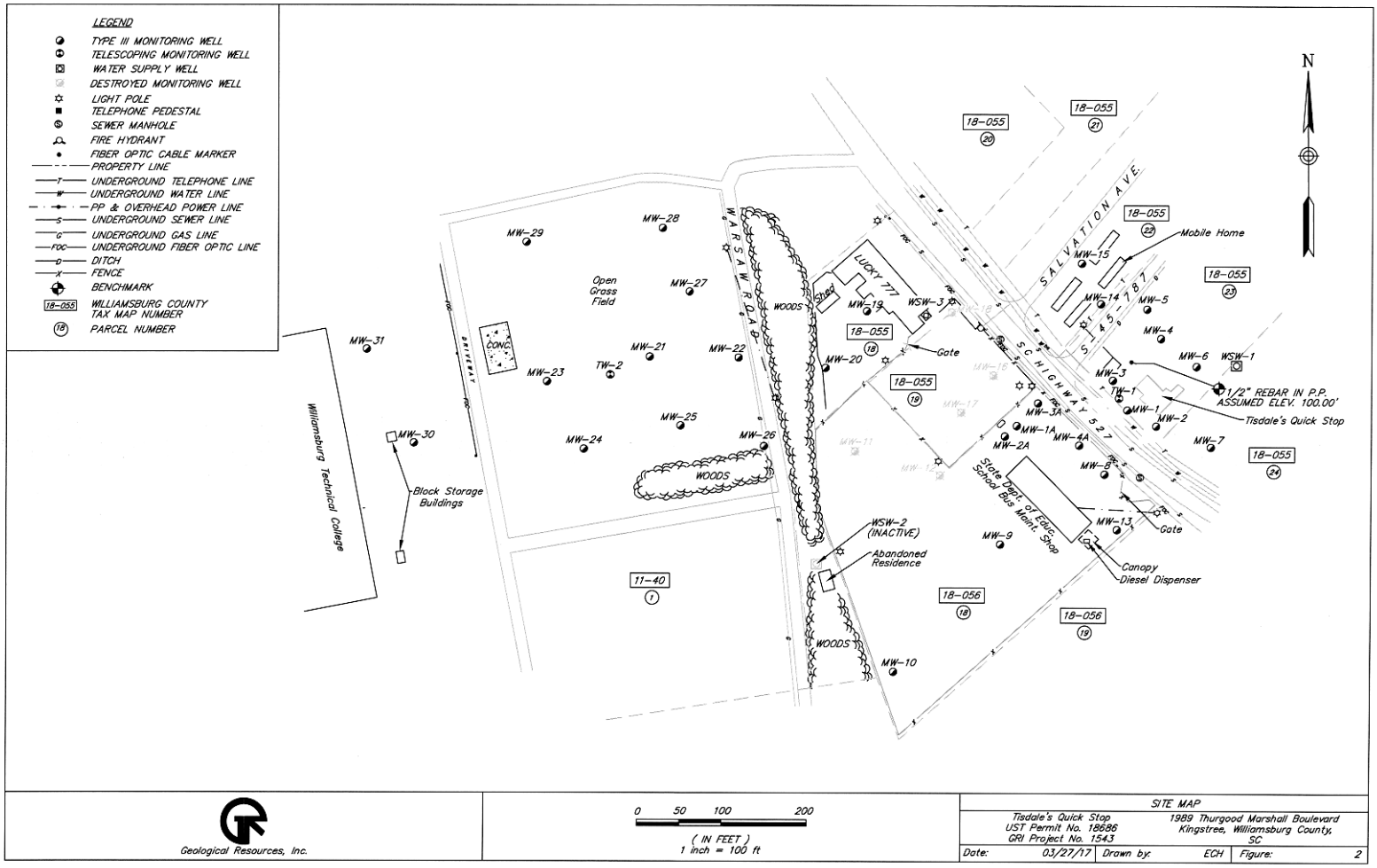


Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit No. 18686
GRI Project No. 1543

Name: Topographic Map
Date: 08/08/16
Scale: 1 inch = 2,000 ft.

Map Center Location: 033.6579897° N 079.8127613° W

Generated by Geological Resources, Inc.



Geological Resources, Inc.

0 50 100 200

(IN FEET)
1 inch = 100 ft

SITE MAP

Tisdale's Quick Stop
UST Permit No. 18686
GRI Project No. 1543

1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County, SC

Date:	03/27/17	Drawn by:	ECH	Figure:	2



Geological Resources, Inc.

0 50 100 200

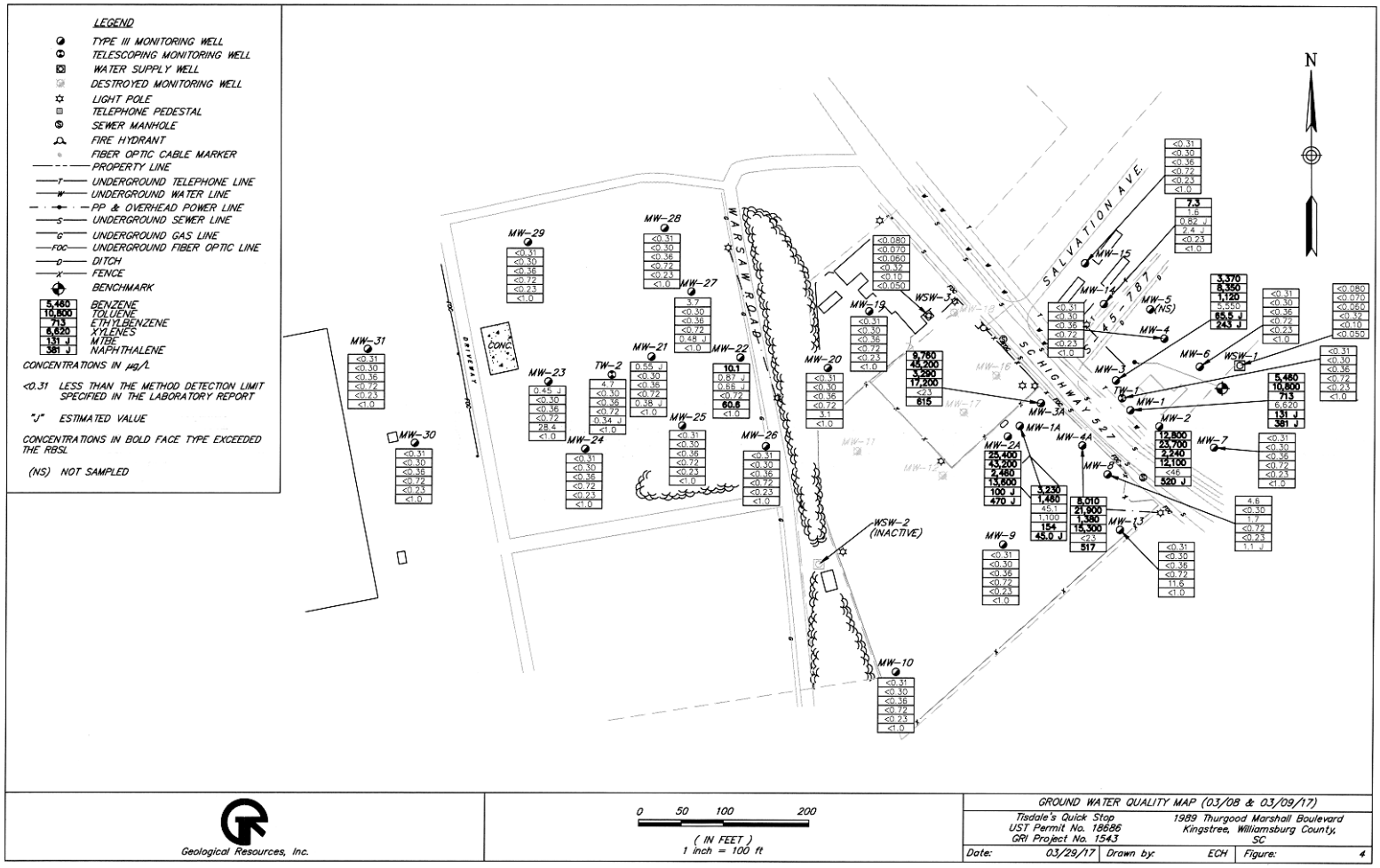
(IN FEET)
1 inch = 100 ft

WATER TABLE SURFACE MAP (03/08/17)

Tisdale's Quick Stop
UST Permit No. 18686
GRI Project No. 1543

1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County, SC

Date:	03/29/17	Drawn by:	ECH	Figure:	3



Geological Resources, Inc.

GROUND WATER QUALITY MAP (03/08 & 03/09/17)

Tisdale's Quick Stop
UST Permit No. 18686
GRI Project No. 1543

1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County, SC

Date:	03/29/17	Drawn by:	ECH	Figure:	4

TABLES

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-1	01/16/03	98.81	15.72		83.09	20	10-20
	02/09/04		14.25		84.56		
	09/23/04		11.94		86.87		
	01/21/05		13.09		85.72		
	03/23/06		12.43		86.38		
	01/07/09		15.12		83.69		
	11/04/09		15.58		83.23		
	11/22/11		17.46		81.35		
	11/06/13		14.83		83.98		
	08/27/14		14.52		84.29		
	01/15/15		13.53		85.28		
	06/23/15		13.64		85.17		
	07/18/16		13.87		84.94		
	03/08/17		13.13		85.68		
MW-2	01/16/03	98.82	17.35	1.90	83.10	25	10-25
	02/09/04		15.17	1.07	84.57		
	09/23/04		12.95	1.18	86.88		
	01/21/05		13.61	0.61	85.73		
	03/23/06		12.43		86.39		
	01/07/09		15.03	0.02	83.81		
	11/03/09		15.97	0.11	82.94		
	11/22/11		17.87		80.95		
	11/06/13		15.02	0.21	83.98		
	08/27/14		14.62	0.02	84.22		
	01/15/15		13.52		85.30		
	06/23/15		13.81		85.01		
	07/18/16		14.03		84.79		
	03/08/17		13.20		85.62		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-3	01/16/03	98.74	15.36	0.33	83.66	25	10-25
	02/09/04		14.34	0.19	84.56		
	09/23/04		12.12	0.06	86.67		
	01/21/05		13.38	0.02	85.38		
	03/23/06		12.37		86.37		
	01/07/09		15.27	0.12	83.57		
	11/03/09		15.82	0.12	83.02		
	11/22/11		17.47	0.04	81.30		
	11/06/13		14.69	0.01	84.06		
	08/27/14		14.48		84.26		
	01/15/15		13.52		85.22		
	06/23/15		13.68		85.06		
	07/18/16		13.93		84.81		
	03/08/17		13.12		85.62		
MW-4	01/16/03	98.58	15.06		83.52	25	10-25
	02/09/04		14.01		84.57		
	09/23/04		11.96		86.62		
	01/21/05		13.13		85.45		
	03/23/06		12.24		86.34		
	01/07/09		14.84		83.74		
	11/04/09		15.68		82.90		
	11/22/11		OBS		OBS		
	11/06/13		OBS		OBS		
	08/27/14		OBS		OBS		
	01/15/15		13.37		85.21		
	06/23/15		OBS		OBS		
	07/18/16		OBS		OBS		
	03/08/17		13.05		85.53		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-5	01/16/03	98.13	14.77		83.36	22	12-22
	02/09/04		13.77		84.36		
	09/23/04		11.71		86.42		
	01/21/05		13.14		84.99		
	03/23/06		12.80		85.33		
	01/07/09		14.96		83.17		
	11/04/09		15.26		82.87		
	11/22/11		OBS		OBS		
	11/06/13		OBS		OBS		
	08/27/14		OBS		OBS		
	01/15/15		OBS		OBS		
	06/23/15		OBS		OBS		
	07/18/16		OBS		OBS		
	03/08/17		OBS		OBS		
MW-6	01/16/03	98.50	14.64		83.86	21.5	11.5-21.5
	02/09/04		13.86		84.64		
	09/23/04		11.86		86.64		
	01/21/05		13.38		85.12		
	03/23/06		12.81		85.69		
	01/07/09		15.00		83.50		
	11/03/09		15.23		83.27		
	11/22/11		17.47		81.03		
	11/06/13		14.39		84.11		
	08/27/14		14.27		84.23		
	01/15/15		13.07		85.43		
	06/23/15		13.46		85.04		
	07/18/16		13.74		84.76		
	03/08/17		13.06		85.44		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-7	01/16/03	98.19	14.69		83.50	22	12-22
	02/09/04		13.56		84.63		
	09/23/04		11.56		86.63		
	01/21/05		12.78		85.41		
	03/23/06		11.73		86.46		
	01/07/09		14.60		83.59		
	11/03/09		15.27		82.92		
	11/22/11		17.32		80.87		
	11/06/13		14.26		83.93		
	08/27/14		14.05		84.14		
	01/15/15		12.81		85.38		
	06/23/15		13.19		85.00		
	07/18/16		13.45		84.74		
	03/08/17		12.58		85.61		
MW-8	01/16/03	98.17	14.85		83.32	22	12-22
	02/09/04		13.98		84.19		
	09/23/04		12.07		86.10		
	01/21/05		13.33		84.84		
	03/23/06		12.14		86.03		
	01/08/09		15.00		83.17		
	11/03/09		15.45		82.72		
	11/22/11		17.55		80.62		
	11/06/13		14.45		83.72		
	08/27/14		14.31		83.86		
	01/15/15		13.27		84.90		
	06/23/15		13.38		84.79		
	07/18/16		13.61		84.56		
	03/08/17		12.89		85.28		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-9	01/16/03	98.52	15.79		82.73	22	12-22
	02/09/04		15.00		83.52		
	09/23/04		13.12		85.40		
	01/21/05		14.64		83.88		
	03/23/06		13.29		85.23		
	01/08/09		16.01		82.51		
	11/03/09		16.56		81.96		
	11/22/11		18.73		79.79		
	11/06/13		15.51		83.01		
	08/27/14		15.35		83.17		
	01/15/15		14.59		83.93		
	06/23/15		14.29		84.23		
	07/18/16		14.42		84.10		
	03/08/17		14.02		84.50		
MW-10	01/16/03	98.68	16.52		82.16	25	10-25
	02/09/04		15.79		82.89		
	09/23/04		13.97		84.71		
	01/21/05		15.35		83.33		
	03/23/06		14.18		84.50		
	01/08/09		15.75		82.93		
	11/03/09		17.41		81.27		
	11/22/11		19.43		79.25		
	11/06/13		13.37		85.31		
	08/27/14		16.16		82.52		
	01/15/15		15.26		83.42		
	06/23/15		15.16		83.52		
	07/18/16		15.28		83.40		
	03/08/17		14.84		83.84		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-11	01/16/03	94.65	12.89		81.76	22	7-22
	02/09/04		12.10		82.55		
	09/23/04		10.51		84.14		
	01/21/05		11.68		82.97		
	03/23/06		10.55		84.10		
	01/08/09		NM		NM		
MW-12	01/16/03	95.70	13.13		82.57	22	7-22
	02/09/04		12.35		83.35		
	09/23/04		12.67		83.03		
	01/21/05		12.06		83.64		
	03/23/06		10.80		84.90		
	01/08/09		NM		NM		
MW-13	01/16/03	99.01	15.65		83.36	25	10-25
	02/09/04		14.70		84.31		
	09/23/04		12.90		86.11		
	01/21/05		14.05		84.96		
	03/23/06		12.82		86.19		
	01/08/09		15.68		83.33		
	11/03/09		16.30		82.71		
	11/22/11		18.57		80.44		
	11/06/13		15.25		83.76		
	08/27/14		15.08		83.93		
	01/15/15		13.94		85.07		
	06/23/15		14.15		84.86		
	07/18/16		14.37		84.64		
	03/08/17		13.67		85.34		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-14	01/16/03	98.36	15.12		83.24	25	10-25
	02/09/04		14.24		84.12		
	09/23/04		12.03		86.33		
	01/21/05		13.78		84.58		
	03/23/06		12.75		85.61		
	01/08/09		15.32		83.04		
	11/04/09		15.77		82.59		
	11/22/11		17.72		80.64		
	11/06/13		15.86		82.50		
	08/27/14		14.58		83.78		
	01/15/15		14.61		83.75		
	06/23/15		13.00		85.36		
	07/18/16		13.98		84.38		
	03/08/17		12.31		86.05		
MW-15	01/16/03	99.59	16.40		83.19	25	10-25
	02/09/04		15.55		84.04		
	09/23/04		13.50		86.09		
	01/21/05		14.89		84.70		
	03/23/06		13.92		85.67		
	01/08/09		16.63		82.96		
	11/04/09		17.16		82.43		
	11/22/11		19.15		80.44		
	11/06/13		16.26		83.33		
	08/27/14		15.96		83.63		
	01/15/15		14.94		84.65		
	06/23/15		15.08		84.51		
	07/18/16		15.25		84.34		
	03/08/17		14.76		84.83		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-16	01/16/03	98.93	16.21	0.04	82.75	23	8-23
	02/09/04		15.24	0.04	83.72		
	09/23/04		13.55		85.38		
	01/21/05		14.81	0.02	84.14		
	03/23/06		13.60		85.33		
	01/08/09		16.21		82.72		
	11/04/09		16.57		82.36		
	11/22/11		NM		NM		
MW-17	01/16/03	98.25	16.00	0.07	82.31	23	8-23
	02/09/04		14.55		83.70		
	09/23/04		12.82		85.43		
	01/21/05		13.78		84.47		
	03/23/06		NM		NM		
MW-18	01/16/03	99.83	17.70		82.13	25	10-25
	02/09/04		16.91		82.92		
	09/23/04		15.06		84.77		
	01/21/05		16.45		83.38		
	03/23/06		15.31		84.52		
	01/08/09		17.89		81.94		
	11/04/09		18.40		81.43		
	11/22/11		20.20		79.63		
	11/06/13		NM		NM		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-19	01/16/03	100.27	18.54		81.73	25	10-25
	02/09/04		17.63		82.64		
	09/23/04		16.00		84.27		
	01/21/05		17.21		83.06		
	03/23/06		16.15		84.12		
	01/08/09		NM		NM		
	11/04/09		19.22		81.05		
	11/22/11		20.93		79.34		
	11/06/13		18.50		81.77		
	08/27/14		18.08		82.19		
	01/15/15		17.26		83.01		
	06/23/15		17.14		83.13		
	07/18/16		17.23		83.04		
	03/08/17		16.78		83.49		
MW-20	01/16/03	97.21	15.59		81.62	25	10-25
	02/09/04		14.74		82.47		
	09/23/04		13.15		84.06		
	01/21/05		14.33		82.88		
	03/23/06		13.21		84.00		
	01/08/09		NM		NM		
	11/04/09		16.30		80.91		
	11/22/11		18.02		79.19		
	11/06/13		15.36		81.85		
	08/27/14		15.18		82.03		
	01/15/15		14.41		82.80		
	06/23/15		14.21		83.00		
	07/18/16		14.30		82.91		
	03/08/17		13.88		83.33		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-21	01/16/03	95.72	14.70		81.02	23	8-23
	02/09/04		13.85		81.87		
	09/23/04		12.27		83.45		
	01/21/05		13.42		82.30		
	03/23/06		NM		NM		
	01/08/09		NM		NM		
	11/04/09		15.35		80.37		
	11/22/11		17.01		78.71		
	11/06/13		NM		NM		
	08/27/14		14.22		81.50		
	01/15/15		13.48		82.24		
	06/23/15		13.41		82.31		
	07/18/16		13.36		82.36		
	03/08/17		12.99		82.73		
MW-22	01/16/03	96.68	15.40		80.32	25	10-25
	02/09/04		14.61		82.07		
	09/23/04		12.92		83.76		
	01/21/05		14.15		82.53		
	03/23/06		13.21		83.47		
	01/08/09		15.54		81.14		
	11/04/09		16.08		80.60		
	11/22/11		17.75		78.93		
	11/06/13		15.17		81.51		
	08/27/14		15.00		81.68		
	01/15/15		14.17		82.51		
	06/23/15		14.14		82.54		
	07/18/16		14.15		82.53		
	03/08/17		13.76		82.92		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-23	01/16/03	95.78	15.08		80.70	24	9-24
	02/09/04		14.30		81.48		
	09/23/04		12.72		83.06		
	01/20/05		13.82		81.96		
	03/23/06		13.09		82.69		
	01/08/09		15.21		80.57		
	11/04/09		15.64		80.14		
	11/22/11		17.28		78.50		
	11/06/13		14.82		80.96		
	08/27/14		14.71		81.07		
	01/15/15		13.89		81.89		
	06/23/15		13.75		82.03		
	07/18/16		13.90		81.88		
	03/08/17		13.43		82.35		
MW-24	01/16/03	93.86	13.00		80.86	23	8-23
	02/09/04		12.19		81.67		
	09/23/04		10.58		83.28		
	01/20/05		11.71		82.15		
	03/23/06		10.87		82.99		
	01/08/09		13.17		80.69		
	11/04/09		13.79		80.07		
	11/22/11		15.28		78.58		
	11/06/13		12.86		81.00		
	08/27/14		12.62		81.24		
	01/15/15		11.73		82.13		
	06/23/15		11.79		82.07		
	07/18/16		11.81		82.05		
	03/08/17		11.37		82.49		

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SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-25	01/16/03	94.30	13.20		81.10	23	8-23
	02/09/04		12.37		81.93		
	09/23/04		10.74		83.56		
	01/20/05		11.99		82.31		
	03/23/06		11.00		83.30		
	01/08/09		13.34		80.96		
	11/04/09		13.83		80.47		
	11/22/11		15.56		78.74		
	11/06/13		13.00		81.30		
	08/27/14		12.79		81.51		
	01/15/15		11.91		82.39		
	06/23/15		11.92		82.38		
	07/18/16		11.98		82.32		
	03/08/17		11.49		82.81		
MW-26	01/16/03	93.88	12.38		81.50	21	6-21
	02/09/04		11.62		82.26		
	09/23/04		10.03		83.85		
	01/20/05		11.18		82.70		
	03/23/06		10.58		83.30		
	01/08/09		12.44		81.44		
	11/04/09		13.26		80.62		
	11/22/11		14.92		78.96		
	11/06/13		12.31		81.57		
	08/27/14		12.09		81.79		
	01/15/15		10.10		83.78		
	06/23/15		11.21		82.67		
	07/18/16		11.26		82.62		
	03/08/17		10.76		83.12		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-27	01/16/03	98.15	16.99		81.16	25	10-25
	02/09/04		16.20		81.95		
	09/23/04		14.61		83.54		
	01/21/05		15.81		82.34		
	03/23/06		14.84		83.31		
	01/08/09		17.20		80.95		
	11/04/09		17.64		80.51		
	11/22/11		19.30		78.85		
	11/06/13		16.74		81.41		
	08/27/14		16.61		81.54		
	01/15/15		15.79		82.36		
	06/23/15		15.74		82.41		
	07/18/16		15.77		82.38		
	03/08/17		15.37		82.78		
MW-28	01/16/03	98.45	17.46		80.99	25	10-25
	02/09/04		16.55		81.90		
	09/23/04		15.00		83.45		
	01/21/05		16.17		82.28		
	03/23/06		15.21		83.24		
	01/08/09		NM		NM		
	11/04/09		18.00		80.45		
	11/22/11		19.60		78.85		
	11/06/13		17.11		81.34		
	08/27/14		16.96		81.49		
	01/15/15		16.19		82.26		
	06/23/15		16.10		82.35		
	07/18/16		16.16		82.29		
	03/08/17		15.72		82.73		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-29	01/16/03	96.78	16.17		80.61	25	10-25
	02/09/04		15.30		81.48		
	09/23/04		13.74		83.04		
	01/20/05		14.69		82.09		
	03/23/06		14.12		82.66		
	01/08/09		16.31		80.47		
	11/04/09		16.71		80.07		
	11/22/11		18.26		78.52		
	11/06/13		15.89		80.89		
	08/27/14		15.74		81.04		
	01/15/15		14.98		81.80		
	06/23/15		14.95		81.83		
	07/18/16		14.94		81.84		
	03/08/17		14.53		82.25		
MW-30	01/16/03	95.38	15.18		80.20	22	7-22
	02/09/04		14.36		81.02		
	09/23/04		12.85		82.53		
	01/20/05		13.72		81.66		
	03/23/06		13.04		82.34		
	01/08/09		15.41		79.97		
	11/04/09		15.74		79.64		
	11/22/11		17.36		78.02		
	11/06/13		14.95		80.43		
	08/27/14		14.75		80.63		
	01/15/15		14.04		81.34		
	06/23/15		14.01		81.37		
	07/18/16		13.97		81.41		
	03/08/17		13.71		81.67		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-31	09/23/04	96.05	13.88		82.17	20	10-20
	01/20/05		14.73		81.32		
	03/23/06		14.22		81.83		
	01/08/09		16.49		79.56		
	11/04/09		16.37		79.68		
	11/22/11		18.20		77.85		
	11/06/13		15.81		80.24		
	08/27/14		15.71		80.34		
	01/15/15		15.06		80.99		
	06/23/15		14.98		81.07		
	07/18/16		14.91		81.14		
	03/08/17		14.53		81.52		
MW-1A	01/21/05	97.20	13.46	0.09	83.82	Unknown	Unknown
	03/23/06		12.11		85.09		
	01/08/09		14.99		82.21		
	11/03/09		15.25	0.06	82.00		
	11/22/11		17.76	0.85	80.17		
	11/06/13		14.11	0.01	83.10		
	08/27/14		14.08		83.12		
	01/15/15		13.40		83.80		
	06/23/15		13.10		84.10		
	07/18/16		13.23		83.97		
	03/08/17		12.81		84.39		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-2A	01/21/05	97.30	13.63	0.28	83.91	Unknown	Unknown
	03/23/06		12.54	0.31	85.03		
	01/08/09		15.86	0.54	81.90		
	11/03/09		15.61	0.02	81.71		
	11/22/11		17.26		80.04		
	11/06/13		14.25	0.03	83.08		
	08/27/14		14.21		83.09		
	01/15/15		13.74		83.56		
	06/23/15		13.14		84.16		
	07/18/16		13.31		83.99		
	03/08/17		13.42		83.88		
MW-3A	01/21/05	97.27	13.46	0.22	84.00	Unknown	Unknown
	03/23/06		12.22	0.03	85.08		
	01/08/09		15.68	1.00	82.45		
	11/03/09		15.63	0.47	82.04		
	11/22/11		18.02	0.82	79.95		
	11/06/13		14.12	0.06	83.20		
	08/27/14		14.08		83.19		
	01/15/15		13.46		83.81		
	06/23/15		12.98		84.29		
	07/18/16		13.11		84.16		
	03/08/17		12.81		84.46		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-4A	01/21/05	98.09	13.06	0.02	85.05	Unknown	Unknown
	03/23/06		12.43		85.66		
	01/08/09		16.02	0.85	82.80		
	11/03/09		15.62	0.02	82.49		
	11/22/11		17.84	0.02	80.27		
	11/06/13		14.61		83.48		
	08/27/14		14.52		83.57		
	01/15/15		13.81		84.28		
	06/23/15		13.60		84.49		
	07/18/16		13.78		84.31		
	03/08/17		13.18		84.91		
TW-1	01/16/03	99.01	15.14		83.87	46	41-46
	02/09/04		14.81		84.20		
	09/23/04		13.16		85.85		
	01/21/05		14.39		84.62		
	03/23/06		13.35		85.66		
	01/08/09		15.97		83.04		
	11/04/09		16.84		82.17		
	11/22/11		18.76		80.25		
	11/06/13		15.76		83.25		
	08/27/14		15.54		83.47		
	01/15/15		14.31		84.70		
	06/23/15		14.68		84.33		
	07/18/16		14.84		84.17		
	03/08/17		14.08		84.93		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
TW-2	01/16/03	95.26	14.33		80.93	51	46-51
	02/09/04		13.58		81.68		
	09/23/04		11.98		83.28		
	01/21/05		13.07		82.19		
	03/23/06		12.10		83.16		
	01/08/09		14.52		80.74		
	11/04/09		15.01		80.25		
	11/22/11		16.63		78.63		
	11/06/13		14.19		81.07		
	08/27/14		13.97		81.29		
	01/15/15		13.14		82.12		
	06/23/15		13.12		82.14		
	07/18/16		13.17		82.09		
	03/08/17		12.67		82.59		

Notes:

- Elevations relative to a temporary benchmark with an assumed datum of 100.00 feet; data reported in feet.
- ** : If free product is present in a well, groundwater elevation calculated by: [Top of Casing Elevation - Depth to Water] + [free product thickness x 0.8581].
- NM: Not measured; monitoring well is destroyed, covered or could not be located.
- OBS: Monitoring well obstructed.
- Monitoring wells MW-1A through MW-4A were installed by S&ME Consultants in January 2000.
- Monitoring wells MW-16 and MW-17 were completed above grade with stand up covers; depths to ground water were measured from the tops of casing; well depths and screened intervals were measured from the ground surface.

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
MW-1	01/17/03	17,300	31,000	2,220	12,800	495	515	-	0.13
	02/09/04	11,400	19,600	1,010	12,000	395	525	-	NR
	10/07/04	4,160	7,500	504	4,400	348	290	-	0.03
	01/21/05	8,150	13,500	790	7,170	560	<500	-	NR
	03/24/06	7,800	11,800	552	6,640	833	<100	-	NR
	01/07/09	15,700	15,100	1,600	12,310	1,120	878	<500	0.092
	11/04/09	7,120	12,600	988	6,940	<500	<500	<500	0.056
	11/23/11	6,630	9,340	664	4,300	399	210 J	<20	NR
	11/06/13	4,870	8,550	659	4,900	125	165 J	<22	NR
	08/27/14	5,210	11,900	824	6,010	134 J	239 J	<48	<0.0095
	01/16/15	3,820	8,360	641	4,760	105	217 J	<24	<0.0097
	06/24/15	4,370	10,900	841	6,320	94.5 J	258 J	<20	<0.0096
	07/19/16	4,500	13,000	860	6,720	108 J	338 J	<57	<0.0096
	03/09/17	5,460	10,800	713	6,220	131 J	381 J	<62	0.010 J
MW-1 DUP	11/06/13	5,090	10,600	687	4,830	105 J	<200	<44	NR
	08/27/14	5,210	12,300	845	6,140	130 J	210 J	<48	<0.0095
	01/16/15	3,690	8,250	623	4,860	105	196 J	<20	<0.0097
	03/09/17	5,730	12,700	767	6,450	138 J	<200	<62	<0.0095
MW-2	01/17/03	FP	FP	FP	FP	FP	FP	FP	FP
	02/09/04	FP	FP	FP	FP	FP	FP	FP	FP
	10/07/04	FP	FP	FP	FP	FP	FP	FP	FP
	01/21/05	FP	FP	FP	FP	FP	FP	FP	FP
	03/24/06	14,600	17,900	2,240	12,000	164	495	FP	NR
	01/07/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/03/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/23/11	20,100	23,800	1,810	9,030	89.8 J	413 J	<50	NR
	11/06/13	FP	FP	FP	FP	FP	FP	FP	FP
	01/16/15	3,920	3,910	181	1,000	26.1 J	69.9	<12	0.17
	06/24/15	5,560	11,400	1,040	6,020	17.4 J	239 J	<10	0.26
	07/19/16	12,700	33,900	4,280	27,300	57.1 J	1,560	<71	0.80
	03/09/17	12,800	23,700	2,240	12,100	<46	520 J	<62	0.45
MW-2 DUP (DUP A)	11/23/11	20,600	24,500	2,030	10,000	92.5 J	620 J	<50	NR
	07/19/16	11,500	24,400	2,870	17,000	<100	1,060 J	<140	0.72

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
MW-3	01/17/03	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	02/09/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	10/07/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	01/21/05	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	03/24/06	**54.6**	44.4	17.1	660	2.04	8	**FP**	NR
	01/07/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	3.7	6.9	6.0	44.2	<0.20	5.0	<0.24	<0.0096
	01/16/15	**27.4**	19.1	7.5	65.8	0.48 J	1.1 J	<0.24	<0.0094
	06/24/15	0.73 J	12.6	9.1	77.6	<0.30	5.7	<0.20	<0.0096
	07/19/16	**2,120**	**7,020**	**763**	4,140	**68.3 J**	**210 J**	<28	0.025
	03/09/17	**3,370**	**8,350**	**1,120**	5,550	**65.5 J**	**243 J**	<31	0.044
MW-3 DUP B	06/24/15	0.24 J	14.2	16.1	112	<0.30	8.1	<0.20	<0.0095
MW-4	01/17/03	3.7	<1.0	1.8	7.2	<1.0	7.4	**FP**	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	**FP**	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	**FP**	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	**FP**	NR
	03/24/06	0.200J	<1.00	<1.00	1.44	0.340J	<1.00	**FP**	NR
	01/07/09	**5.9**	<5.0	<5.0	6.0	<5.0	8.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
	07/19/16	NS	NS	NS	NS	NS	NS	NS	NS
	03/09/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0094
MW-5	01/17/03	<1.0	<1.0	1.7	3.4	<1.0	7.1	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	0.350J	<1.00	<1.00	-	NR
	01/07/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	**0.066**
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	01/15/15	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
	07/19/16	NS	NS	NS	NS	NS	NS	NS	NS
	03/08/17	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-6	01/17/03	<1.0	<1.0	1.9	3.8	<1.0	7	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/07/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0099
	03/09/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	**0.057**
MW-7	01/17/03	**70.3**	145	24.3	308	1.8	**25.7**	-	<0.02
	02/09/04	<1.0	11.4	60.2	441	<1.0	**40.7**	-	NR
	10/07/04	<1.0	1.1	2.4	25	<1.0	5.8	-	<0.02
	01/21/05	<1.0	<1.0	4.5	26.9	<1.0	17.5	-	NR
	03/24/06	<1.00	<1.00	<1.00	23.3	0.260J	9.62	-	NR
	01/07/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	12.2	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	0.62 J	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	0.41 J	<1.0	<0.24	<0.0096
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0098
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/19/16	<0.20	<0.20	<0.25	<0.56	0.31 J	<1.0	<0.28	<0.0099
	03/09/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	0.024
MW-8	01/17/03	**1,480**	**11,800**	**1,930**	9,930	6.3	<500	-	<0.02
	02/09/04	**59**	**1,700**	424	2,380	<5.0	**96**	-	NR
	10/07/04	<1.0	3.2	7.4	71.1	<1.0	9	-	<0.02
	01/21/05	**12**	161	55.6	1,100	<1.0	**52.2**	-	NR
	03/24/06	4.19	24.1	118	1,070	<1.00	**102**	-	NR
	01/08/09	**16.8**	<5.0	<5.0	200.6	<5.0	18.5	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	12.8	<5.0	**34.7**	<5.0	<0.020
	11/22/11	**11.6**	1.3	8.1	7.0	<0.34	19.3	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	0.69 J	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0097
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0095
	07/19/16	4.5	<0.20	2.5	0.58 J	<0.20	2.4 J	<0.28	<0.0093
	03/09/17	4.6	<0.30	1.7	<0.72	<0.23	1.1 J	<0.31	<0.0094
MW-8 DUP	11/06/13	0.33 J	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	01/15/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0097

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
MW-9	01/17/03	<1.0	<1.0	<1.0	<1.0	34	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	11.1	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	1.2	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	12.5	<5.00	-	NR
	03/24/06	<1.00	<1.00	0.270J	2.49	1.5	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/30/11	<0.20	<0.20	<0.20	<0.52	1.9	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	0.28 J	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0095
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0094
	03/09/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	0.016 J
MW-10	01/17/03	<1.0	<1.0	<1.0	<1.0	1.5	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	0.490J	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/30/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0097
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0093
	03/09/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0095
MW-11	01/17/03	<1.0	<1.0	<1.0	<1.0	1.6	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	23.7	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	5.1	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	0.250J	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
MW-12	01/17/03	<1.0	<1.0	<1.0	<1.0	2	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	01/15/15	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
MW-13	01/17/03	<1.0	<1.0	<1.0	<1.0	**42.5**	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	**145**	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	6.3	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	**40.8**	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	11	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/30/11	<0.20	<0.20	<0.20	<0.52	2.4	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	0.22 J	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	3.5	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	9.8	<1.0	<0.24	<0.0094
	06/24/15	<0.20	<0.40	<0.20	<0.51	3.2	<1.0	<0.20	<0.0096
	07/19/16	<0.20	<0.20	<0.25	<0.56	2.8	<1.0	<0.28	<0.0092
	03/09/17	<0.31	<0.30	<0.36	<0.72	11.6	<1.0	<0.31	<0.0096
MW-14	01/17/03	3.4	<1.0	<1.0	4.5	<1.0	10.9	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	**79.5**	16.7	4.8	26.8	5.8	8.7 J	<0.40	NR
	11/06/13	0.24 J	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/16/15	0.73 J	0.27 J	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/18/16	**23.2**	4.4	1.6	7.5	0.71 J	<1.0	<0.28	<0.0095
	03/09/17	**7.3**	1.6	0.82 J	2.4 J	<0.23	<1.0	<0.31	0.027

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
MW-15	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0098
	03/09/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0095
MW-16	01/17/03	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	02/09/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	10/07/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	01/21/05	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	03/24/06	**14,600**	**20,300**	**2,080**	**11,800**	**536**	**1,080**	-	NR
	01/08/09	**2,660**	**6,520**	**930**	5,100	<25.0	**633**	<25.0	<0.020
	11/04/09	**18,500**	**33,300**	**2,880**	**16,300**	**454**	**928**	<250	**0.30**
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
	07/18/16	NS	NS	NS	NS	NS	NS	NS	NS
MW-17	01/17/03	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	-	**FP**
	02/09/04	<1.0	13.2	12.5	74.2	19	10.1	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	NS	NS	NS	NS	NS	NS	NS	NS
MW-18	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	**15.4**	5.5	<1.0	5.6	<1.0	<5.00	-	NR
	10/07/04	1.5	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	**19.2**	1.1	<1.0	7.1	<1.0	<5.00	-	NR
	03/24/06	**36.2**	1.27	<1.00	6.16	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
	07/18/16	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-19	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	3.1	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0099
	03/08/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0094
MW-19 DUP (DUP 1)	11/22/11	1.3	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
MW-20	01/17/03	**1,520**	314	108	298	**80.4**	**26.3**	-	<0.02
	02/09/04	**3,220**	530	15.2	830	**78**	**61.2**	-	NR
	10/07/04	**90.2**	6.6	<1.0	19.8	**94.4**	<5.00	-	<0.02
	01/21/05	**1,120**	43.1	5.8	95.1	**73**	**36.9**	-	NR
	03/24/06	**44.9**	0.300J	0.310J	3.54	9.14	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	**9.5**	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	2.4	<0.20	<0.20	<0.52	6.2	<1.0	<0.20	NR
	11/06/13	**235**	<1.0	<1.5	<2.5	5.2	10.7 J	<1.1	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/15/15	4.5	0.35 J	<0.28	<0.66	**93.7**	<1.0	<0.24	<0.0095
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0095
	07/19/16	0.80 J	<0.20	0.34 J	<0.56	4.5	<1.0	<0.28	<0.010
	03/08/17	<0.31	<0.30	<0.36	<0.72	3.1	<1.0	<0.31	<0.0094
MW-21	01/17/03	**269**	27.5	12	118	**42.6**	12.6	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	NS	NS	NS	NS	NS	NS	-	NS
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	**108**	4.5	<0.40	<1.0	8.7	<2.0	<0.40	NR
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	0.93 J	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0098
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0095
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0098
	03/08/17	0.55 J	<0.30	<0.36	<0.72	0.38 J	<1.0	<0.31	<0.0096

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
MW-22	01/17/03	**2,080**	281	279	576	**257**	**67.9**	-	<0.02
	02/09/04	**782**	49.2	41.4	77.5	**93.4**	15.8	-	NR
	10/07/04	**109**	11.3	3.2	19.5	**71.4**	<5.00	-	<0.02
	01/21/05	**3,980**	300	197	454	**67**	**112**	-	NR
	03/23/06	0.340J	<1.00	<1.00	<1.00	8.11	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	**60.0**	8.3	3.4	3.1	13.8	<1.0	<0.20	NR
	11/06/13	**574**	41.6	45.7	10.9 J	37.3	<10	<2.2	NR
	08/27/14	1.0	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/15/15	**312**	15.6	18.8	6.2	**134**	4.9 J	0.99 J	<0.0095
	06/23/15	1.3	<0.40	<0.20	<0.51	0.51 J	<1.0	<0.20	<0.0096
	07/18/16	**49.5**	12.7	3.6	1.6 J	**75.2**	3.2 J	0.48 J	<0.0094
	03/08/17	**10.1**	0.87 J	0.66 J	<0.72	**60.6**	<1.0	<0.31	<0.0096
MW-23	01/17/03	**27.6**	<1.0	<1.0	3.7	27.2	10.5	-	<0.02
	02/09/04	**1,760**	72	<1.0	592	**372**	17.2	-	NR
	10/07/04	**1,620**	103	<1.0	598	**286**	**46**	-	<0.02
	01/20/05	**1,670**	111	<1.0	578	**172**	19.9	-	NR
	03/23/06	**1,290**	44.1	<1.00	266	**168**	**38.4**	-	NR
	01/08/09	**574**	<5.0	<5.0	30.8	**65.2**	<5.0	<5.0	<0.019
	11/04/09	**1,250**	<25.0	<25.0	98.9	**152**	**31.0**	<25.0	<0.019
	11/22/11	**435**	<1.0	<1.0	<2.6	**140**	15.9 J	<1.0	NR
	11/06/13	**49.6**	2.8	<0.58	1.2 J	**98.6**	2.3 J	<0.44	NR
	08/27/14	**239**	16.4	<1.4	7.3 J	**239**	<5.0	<1.2	<0.0096
	01/15/15	**18.6**	<2.0	<2.8	<6.6	**161**	<10	<2.4	<0.0094
	06/23/15	1.9	<0.40	<0.20	<0.51	**102**	<1.0	<0.20	<0.0095
	07/18/16	0.87 J	<0.20	<0.25	<0.56	**45.6**	<1.0	<0.28	<0.0098
	03/08/17	0.45 J	<0.30	<0.36	<0.72	28.4	<1.0	<0.31	<0.0095
MW-24	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0095
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0099
	03/08/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0097

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
MW-25	01/17/03	<1.0	<1.0	<1.0	<1.0	4.9	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	0.330J	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	1.8	<0.20	<0.29	<0.50	2.7	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0097
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0093
	03/08/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0094
MW-26	01/17/03	1.3	<1.0	<1.0	<1.0	4.7	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	0.86 J	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0098
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0093
	03/08/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0095
MW-27	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	1.7	<5.00	-	NR
	03/23/06	0.320J	<1.00	<1.00	<1.00	3.95	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	**6.2**	<0.20	<0.20	0.61 J	2.4	<1.0	<0.20	NR
	11/06/13	0.27 J	<0.20	<0.29	<0.50	0.22 J	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/15/15	0.87 J	<0.20	<0.28	<0.66	1.3	<1.0	<0.24	<0.0097
	06/23/15	0.54 J	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/18/16	**5.1**	<0.20	<0.25	<0.56	0.68 J	<1.0	<0.28	<0.0097
	03/08/17	3.7	<0.30	<0.36	<0.72	0.48 J	<1.0	<0.31	0.044

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
MW-28	01/17/03	<1.0	<1.0	<1.0	<1.0	1.4	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	0.340 J	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	0.38 J	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	**0.26**
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0098
	03/08/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0096
MW-29	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0097
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0098
	03/08/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0095
MW-30	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	11.0	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0094
	03/08/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0095

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-31	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0095
	03/08/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0095
MW-1A	01/21/05	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	03/24/06	**20,700**	**30,600**	**3,310**	**17,600**	**1,880**	**891**	-	NR
	01/08/09	**14,300**	**29,300**	**8,930**	**48,800**	**1,250**	**6,060**	<500	**0.066**
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	**140**	417	42.7	590	4.4 J	**155**	<1.2	<0.0097
	01/15/15	**1,040**	**4,950**	583	5,130	**78.8**	**474**	<1.2	<0.0096
	06/24/15	**6,460**	**16,400**	**2,060**	**13,600**	**123**	**1,180**	<10	**0.12**
	07/19/16	**2,210**	**3,390**	170	2,570	**117**	**227 J**	<14	0.011 J
	03/09/17	**3,230**	**1,460**	45.1	1,100	**154**	**45.0 J**	<6.2	<0.0098
MW-2A	01/21/05	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	03/23/06	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	01/08/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/30/11	**260**	517	37.3	491	<3.4	**70.4**	<2.0	NR
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	**17,000**	**30,600**	**2,420**	**15,700**	**232 J**	**1,270 J**	<60	<0.0093
	01/15/15	**17,900**	**20,900**	**1,680**	8,520	**281**	**571 J**	<60	**0.12**
	06/24/15	**9,680**	**19,000**	**1,600**	9,370	<75	**962 J**	<50	**0.083**
	07/19/16	**17,500**	**35,200**	**1,780**	**10,200**	<100	**574 J**	<140	**0.20**
	03/09/17	**25,400**	**43,200**	**2,460**	**13,600**	**100 J**	**470 J**	<78	**0.17**
MW-2A DUP (DUP B)	08/27/14	**17,500**	**31,000**	**2,310**	**14,500**	**250 J**	**695 J**	<120	**0.19**
	07/19/16	**17,200**	**35,400**	**1,910**	**10,900**	**104 J**	**758 J**	<140	**0.20**

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
MW-3A	01/21/05	FP	FP	FP	FP	FP	FP	FP	FP
	03/23/06	FP	FP	FP	FP	FP	FP	FP	FP
	01/08/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/03/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/22/11	FP	FP	FP	FP	FP	FP	FP	FP
	11/06/13	FP	FP	FP	FP	FP	FP	FP	FP
	08/27/14	**15,700**	**38,900**	**2,430**	**15,300**	<100	**873 J**	<120	**0.17**
	01/15/15	**2,930**	**8,310**	**875**	8,780	<20	**556**	<24	0.029
	06/24/15	**11,400**	**35,000**	**3,220**	**18,400**	37.8 J	**1,540**	<20	**0.18**
	07/19/16	**11,400**	**48,200**	**3,940**	**22,500**	<200	**2,080 J**	<280	**0.22**
	03/09/17	**9,760**	**45,200**	**3,290**	**17,200**	<23	**615**	<31	**0.099**
MW-3A DUP	03/09/17	**9,930**	**49,400**	**3,200**	**16,600**	<110	<500	<160	**0.093**
MW-4A	01/21/05	FP	FP	FP	FP	FP	FP	FP	FP
	03/24/06	**19,600**	**34,800**	**3,900**	**21,500**	**247**	**952**	NR	NR
	01/08/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/03/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/22/11	FP	FP	FP	FP	FP	FP	FP	FP
	11/06/13	**7,250**	**30,200**	**2,050**	**12,700**	<110	**627 J**	<110	NR
	08/27/14	**6,890**	**27,700**	**1,680**	**16,300**	<50	**561 J**	<60	**0.13**
	01/15/15	**2,300**	**11,500**	**1,010**	**12,300**	**50.9 J**	**511 J**	<48	**0.052**
	06/24/15	**7,680**	**33,800**	**2,000**	**17,400**	<60	**840 J**	<40	**0.10**
	07/19/16	**7,280**	**28,500**	**1,650**	**13,000**	<100	**613 J**	<140	**0.10**
	03/09/17	**8,010**	**21,900**	**1,380**	**15,300**	<23	**517**	<31	**0.063**
MW-4A DUP A	06/24/15	**8,140**	**37,100**	**2,460**	**19,900**	7.4	**867 J**	1.6	**0.16**
TW-1	01/17/03	**25.5**	46.6	6.9	19.8	<1.0	9.3	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/23/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/28/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0094
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0097
	03/09/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0096

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
TW-2	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	11.7	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	**7.22**	<1.00	<1.00	<1.00	1.7	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	**7.0**	<0.20	<0.20	<0.52	1.0	<1.0	<0.20	NR
	11/06/13	4.7	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	0.26 J	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	06/23/15	0.96 J	<0.40	<0.20	<0.51	0.40 J	<1.0	<0.20	<0.0095
	07/18/16	**8.7**	<0.20	<0.25	<0.56	0.47 J	<1.0	<0.28	<0.0092
	03/08/17	4.7	<0.30	<0.36	<0.72	0.34 J	<1.0	<0.31	<0.0096
WSW-1	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/28/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0093
	03/09/17	<0.080	<0.070	<0.060	<0.32	<0.10	<0.050	<0.12	<0.0085
WSW-2	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	06/23/15	NS	NS	NS	NS	NS	NS	NS	NS
	07/19/16	NS	NS	NS	NS	NS	NS	NS	NS
WSW-3	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/28/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0097
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0097
	03/08/17	<0.080	<0.070	<0.060	<0.32	<0.10	<0.050	<0.12	<0.0084
WSW-3 DUP	03/08/17	<0.080	<0.070	<0.060	<0.32	<0.10	<0.050	<0.12	<0.0086

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
MW FIELD BLANK	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	0.21 J	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0097
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0096
	03/09/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0096
MW TRIP BLANK	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	NR
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	NR
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	NR
	03/08/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	NR
WSW FIELD BLANK	03/08/17	<0.080	<0.070	<0.060	<0.32	<0.10	<0.050	<0.12	<0.0087
WSW TRIP BLANK	03/08/17	<0.080	<0.070	<0.060	<0.32	<0.10	<0.050	<0.12	NR

Notes:

- Analyses for selected volatile organic compounds (VOCs) by EPA Method 8260B; lead by EPA Method 6010B or 200.7; and EDB by EPA Method 8011; results reported in µg/l.
- Water supply well (WSW) samples collected after 2016 analyzed for VOCs by EPA Method 524.2 and EDB by 504.1.
- RBSL: Risk Based Screening Level.
- Concentrations in bold face type exceeded the RBSL.
- <: Less than the report limit specified in the laboratory report.
- NS: Not sampled.
- NR: Analysis not requested.
- I or J: Estimated value.
- FP: Free product.

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-1	03/24/06	<50.0	**5,030**	<5,000	<50.0	**35,000**	<50.0	1,280	<1,000
	11/04/09	<500	<10,000	<20,000	<1,000	**10,200**	<1,000	<10,000	<5,000
	11/23/11	<35	<2,500	<2,500	<31	**24,100**	<39	<300	<500
	11/06/13	<25	<2,000	<2,100	<55	**7,700**	<49	<470	<500
	08/27/14	<45	<760	<4,600	<40	**10,600**	<44	<1,800	<810
	01/16/15	<23	<380	<2300	<20	**12,200**	<22	<880	<400
	06/24/15	<20	<1000	<3500	<20	**9,000**	<22	<540	<400
	07/19/16	<45	<2,000	<10,000	<44	**10,200**	<40	<1,800	<1,000
	03/09/17	<48	<2,000	<16,000	<47	**13,400**	<49	<1,100	<1,000
MW-1 DUP	11/06/13	<51	<4,000	<4,200	<110	**7,020**	<97	<950	<1,000
	08/27/14	<45	<760	<4,600	<40	**8,960**	<44	<1,800	<810
	01/16/15	<20	<1,000	<3,500	<20	**12,300**	<22	<540	<400
	03/09/17	<48	<2,000	<16,000	<47	**13,300**	<49	<1,100	<1,000
MW-2	03/24/06	<50.0	**4,620**	<5,000	<50.0	**25,700**	54	1,020	<1,000
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/23/11	<88	<6,300	<6,300	<78	**37,800**	<98	<750	<1,300
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	01/16/15	<11	<190	<1,200	<10	**5,830**	<11	<440	<200
	06/24/15	<10	<500	<1800	<10	**7,070**	<11	<270	<200
	07/19/16	<57	<2,500	<13,000	<55	**20,700**	<50	<2,300	<1,300
	03/09/17	<48	<2,000	<16,000	<47	**18,400**	<49	<1,100	<1,000
MW-2 DUP (DUP A)	11/23/11	<88	<6,300	<6,300	<78	**37,000**	<98	<750	<1,300
	07/19/16	<110	<5,000	<25,000	<110	**18,300**	<100	<4,500	<2,500

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-3	03/24/06	<1.00	**99.1**	<100	<1.00	223	<1.00	26.7	<20.0
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	23.9	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<23	<1,000	<5,000	<22	**6,420**	<20	<910	<500
	03/09/17	<24	<1,000	<8,200	<24	**6,700**	<24	<530	<500
MW-3 DUP B	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
MW-4	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	01/15/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
	07/19/16	NS	NS	NS	NS	NS	NS	NS	NS
	03/09/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-5	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	01/15/15	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	NS	NS	NS	NS	NS	NS	NS	NS
	03/08/17	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	11/03/09	<5.0	**115**	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/09/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-7	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/09/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-8	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	11.2 J	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/09/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-8 DUP	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	01/15/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
MW-9	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/30/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/09/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-10	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/30/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/09/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-11	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
MW-12	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
MW-13	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/30/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	0.96 J	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	5.1	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	1.9 J	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	0.39 J	<9.1	<5.0
	03/09/17	<0.24	<10	<82	<0.24	<5.3	1.4 J	<5.3	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-14	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.70	<50	<50	<0.62	**450**	<0.78	<6.0	<10
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	36.5	<0.20	<9.1	<5.0
	03/09/17	<0.24	<10	<82	<0.24	10.0 J	<0.24	<5.3	<5.0
MW-15	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/09/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-16	03/24/06	<50.0	**5,140**	<5,000	<50.0	**34,600**	72.5	**1,560**	<1,000
	11/04/09	<250	<5,000	<10,000	<500	**45,400**	<500	<5,000	<2,500
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
MW-18	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	19.2 J	<0.39	<3.0	<5.0
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-19	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	5.6 J	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-19 DUP (DUP 1)	11/22/11	<0.35	<25	<25	<0.31	12.5 J	<0.39	<3.0	<5.0
MW-20	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	151	<0.39	9.3 J	<5.0
	11/06/13	<1.3	<100	<110	<2.8	**567**	<2.4	<24	<25
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	1.6	<3.8	<23	1.9 J	**1,880**	3.6	105	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	77.7	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	52.9	<0.24	<5.3	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-21	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.70	<50	<50	<0.62	**343**	1.1 J	25.0 J	<10
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	10.3 J	<0.24	<5.3	<5.0
MW-22	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	0.60 J	**1,370**	3.6	45.3	<5.0
	11/06/13	<2.5	<200	<210	<5.5	**2,000**	8.9 J	50.3 J	<50
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	3.7	<3.8	<23	6.6	**8,180**	22.6	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	8.5 J	<0.22	<5.4	<4.0
	07/18/16	1.6	<10	<50	2.2	**2,730**	10.3	143	<5.0
	03/08/17	1.1	<10	<82	1.6 J	**1,850**	7.0	<5.3	<5.0
MW-23	11/04/09	<25.0	<500	<1,000	<50.0	**1,490**	<50.0	<500	<250
	11/22/11	<1.8	<130	<130	<1.6	**3,200**	9.7 J	<15	<25
	11/06/13	1.5 J	<40	<42	2.0 J	**2,700**	8.8	214	<10
	08/27/14	3.4 J	<19	<120	6.2 J	**8,040**	28.7	<44	<20
	01/15/15	2.9 J	<38	<230	4.5 J	**4,730**	19.3 J	339	<40
	06/23/15	2.1	<10	<35	3.2	**3,030**	14.7	<5.4	<4.0
	07/18/16	0.97 J	<10	<50	1.2 J	**1,330**	5.5	<9.1	<5.0
	03/08/17	0.53 J	<10	<82	0.57 J	**732**	2.4	<5.3	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		150	NE	10,000	47	240	128	1,400	NE
MW-24	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-25	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-26	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		150	NE	10,000	47	240	128	1,400	NE
MW-27	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	43.2	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	11.5 J	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	17.6 J	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	10.9 J	<0.24	<5.3	<5.0
MW-28	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-29	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-30	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-31	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-1A	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	<1.1	<19	<120	<1.0	**2,150**	5.3 J	<44	<20
	01/15/15	2.1 J	<19	<120	3.3 J	**11,900**	12.2	386	<20
	06/24/15	18.7 J	<500	<1,800	<10	**44,000**	**130**	1,080	<200
	07/19/16	<11	<500	<2,500	<11	**24,000**	36.9 J	<450	<250
	03/09/17	14.0 J	<200	<1,600	13.5 J	**23,700**	61.8	482	<100

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-2A	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/30/11	<3.5	<250	<250	<3.1	83.3 J	<3.9	<30	<50
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	<57	<950	<5,800	<50	**65,500**	110 J	<2,200	<1,000
	01/15/15	<57	<950	<5,800	<50	**60,900**	103 J	<2,200	<1,000
	06/24/15	<50	<2,500	<8,800	<50	**43,500**	64.2 J	<1,400	<1,000
	07/19/16	<110	<5,000	<25,000	<110	**44,800**	<100	<4,500	<2,500
	03/09/17	<60	<2,500	<20,000	<59	**42,400**	76.3 J	<1,300	<1,300
MW-2A DUP (DUP B)	08/27/14	<110	<1,900	<12,000	<100	**63,000**	<110	<4,400	<2,000
	07/19/16	<110	<5,000	<25,000	<110	**44,900**	<100	<4,500	<2,500
MW-3A	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	<110	<1,900	<12,000	<100	**24,900**	<110	<4,400	<2,000
	01/15/15	<23	<380	<2,300	<20	**1,690 J**	<22	<880	<400
	06/24/15	<20	<1,000	<3,500	<20	**38,100**	28.4 J	1,060 J	<400
	07/19/16	<230	<10,000	<50,000	<220	<6,000	<200	<9,100	<5,000
	03/09/17	<24	<1,000	<8,200	<24	**17,700**	<24	<530	<500
MW-3A DUP	03/09/17	<120	<5,000	<41,000	<120	**15,700**	<120	<2,700	<2,500

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-4A	11/04/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	<130	<10,000	<11,000	<280	**6,280**	<240	<2,400	<2,500
	08/27/14	<57	<950	<5,800	<50	**5,990**	<55	<2,200	<1,000
	01/15/15	<45	<760	<4,600	<40	**2,110 J**	<44	<1,800	<810
	06/24/15	<40	<2,000	<7,000	<40	**3,950 J**	<44	<1,100	<800
	07/19/16	<110	<5,000	<25,000	<110	**3,160 J**	<100	<4,500	<2,500
	03/09/17	<24	<1,000	<8,200	<24	**4,350**	<24	<530	<500
MW-4A DUP A	06/24/15	<0.20	<10	<35	6.1	**4,840**	22.6	<5.4	<4.0
TW-1	03/24/06	<1.00	<10.0	<100	<1.00	<20.0	<1.00	<20.0	<20.0
	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/23/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/28/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/09/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		150	NE	10,000	47	240	128	1,400	NE
TW-2	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	15.9 J	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	10.6 J	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	20.1	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	19.1 J	<0.24	<5.3	<5.0
WSW-1	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/28/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/09/17	<0.40	<8.0	<40	<0.40	<8.0	<0.40	<8.0	<2.0
WSW-3	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/28/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/08/17	<0.40	<8.0	<40	<0.40	<8.0	<0.40	<8.0	<2.0
WSW-3 DUP	03/08/17	<0.40	<8.0	<40	<0.40	<8.0	<0.40	<8.0	<2.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW FIELD BLANK	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/09/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW TRIP BLANK	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
WSW FIELD BLANK	03/08/17	<0.40	<8.0	<40	<0.40	<8.0	<0.40	<8.0	<2.0
WSW TRIP BLANK	03/08/17	<0.40	<8.0	<40	<0.40	<8.0	<0.40	<8.0	<2.0

Notes:
- Analyses for oxygenates by Method 8260B; results reported in µg/l.
- <: Less than the report limit specified in the laboratory report.
- Bold indicates analyte reported above the method detection limit.
- FP: Free Product.
- Concentrations in bold face type exceeded the Action Level.

APPENDICES

APPENDIX A

Laboratory Analytical Report – Ground Water Samples

SGS ACCUTEST
Southeast

03/23/17

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Technical Report for

GRI (Geological Resources Inc.)

Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC 18686/1543

SGS Accutest Job Number: FA41991

Sampling Dates: 03/08/17 - 03/09/17

Report to:

GRI (Geological Resources Inc.)

wsb@geologicalresourcesinc.com

ATTN: Scott Ball

Total number of pages in report: 138

NELAP ACCREDITED TNI LABORATORY

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.

Norm Farmer
Technical Director

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(L-A-B L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, GA, IA, KY, MA, NV, OK, OR, UT, WA

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Test results relate only to samples analyzed.

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Sample Summary

GRI (Geological Resources Inc.)

Job No: FA41991

Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Project No: 18686/1543

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA41991-1	03/09/17	15:16	ZC	03/10/17	AQ	Ground Water	18686 MW-1
FA41991-2	03/09/17	15:44	ZC	03/10/17	AQ	Ground Water	18686 MW-2
FA41991-3	03/09/17	09:57	ZC	03/10/17	AQ	Ground Water	18686 MW-3
FA41991-4	03/09/17	09:21	ZC	03/10/17	AQ	Ground Water	18686 MW-4
FA41991-5	03/09/17	10:51	ZC	03/10/17	AQ	Ground Water	18686 MW-6
FA41991-6	03/09/17	10:25	ZC	03/10/17	AQ	Ground Water	18686 MW-7
FA41991-7	03/09/17	13:56	ZC	03/10/17	AQ	Ground Water	18686 MW-8
FA41991-8	03/09/17	12:03	ZC	03/10/17	AQ	Ground Water	18686 MW-9
FA41991-9	03/09/17	11:45	ZC	03/10/17	AQ	Ground Water	18686 MW-10
FA41991-10	03/09/17	11:24	ZC	03/10/17	AQ	Ground Water	18686 MW-13
FA41991-11	03/09/17	14:30	ZC	03/10/17	AQ	Ground Water	18686 MW-14
FA41991-12	03/09/17	14:55	ZC	03/10/17	AQ	Ground Water	18686 MW-15
FA41991-13	03/08/17	14:54	ZC	03/10/17	AQ	Ground Water	18686 MW-19

Sample Summary
(continued)

GRI (Geological Resources Inc.)

Job No: FA41991

Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Project No: 18686/1543

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA41991-14	03/08/17	15:19	ZC	03/10/17	AQ	Ground Water	18686 MW-20
FA41991-15	03/08/17	13:33	ZC	03/10/17	AQ	Ground Water	18686 MW-21
FA41991-16	03/08/17	11:44	ZC	03/10/17	AQ	Ground Water	18686 MW-22
FA41991-17	03/08/17	09:43	ZC	03/10/17	AQ	Ground Water	18686 MW-23
FA41991-18	03/08/17	09:14	ZC	03/10/17	AQ	Ground Water	18686 MW-24
FA41991-19	03/08/17	13:06	ZC	03/10/17	AQ	Ground Water	18686 MW-25
FA41991-20	03/08/17	12:28	ZC	03/10/17	AQ	Ground Water	18686 MW-26
FA41991-21	03/08/17	11:14	ZC	03/10/17	AQ	Ground Water	18686 MW-27
FA41991-22	03/08/17	10:42	ZC	03/10/17	AQ	Ground Water	18686 MW-28
FA41991-23	03/08/17	10:14	ZC	03/10/17	AQ	Ground Water	18686 MW-29
FA41991-24	03/08/17	08:46	ZC	03/10/17	AQ	Ground Water	18686 MW-30
FA41991-25	03/08/17	09:15	ZC	03/10/17	AQ	Ground Water	18686 MW-31
FA41991-26	03/09/17	12:43	ZC	03/10/17	AQ	Ground Water	18686 MW-1A

Sample Summary
(continued)

GRI (Geological Resources Inc.)

Job No: FA41991

Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Project No: 18686/1543

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA41991-27	03/09/17	12:24	ZC	03/10/17	AQ	Ground Water	18686 MW-2A
FA41991-28	03/09/17	13:07	ZC	03/10/17	AQ	Ground Water	18686 MW-3A
FA41991-29	03/09/17	13:34	ZC	03/10/17	AQ	Ground Water	18686 MW-4A
FA41991-30	03/09/17	09:04	ZC	03/10/17	AQ	Ground Water	18686 TW-1
FA41991-31	03/08/17	14:20	ZC	03/10/17	AQ	Ground Water	18686 TW-2
FA41991-32	03/09/17	09:34	ZC	03/10/17	AQ	Ground Water	18686 WSW-1
FA41991-33	03/08/17	15:41	ZC	03/10/17	AQ	Ground Water	18686 WSW-3
FA41991-34	03/09/17	00:00	ZC	03/10/17	AQ	Ground Water	18686 DUP-A
FA41991-35	03/09/17	00:00	ZC	03/10/17	AQ	Ground Water	18686 DUP-B
FA41991-36	03/08/17	00:00	ZC	03/10/17	AQ	Ground Water	18686 DUP-C
FA41991-37	03/09/17	15:51	ZC	03/10/17	AQ	Field Blank Water	18686 MW-FB
FA41991-38	03/08/17	15:49	ZC	03/10/17	AQ	Field Blank Water	18686 WSW-FB
FA41991-39	03/08/17	00:00	ZC	03/10/17	AQ	Trip Blank Water	18686 TRIP BLANK

Sample Summary
(continued)

GRI (Geological Resources Inc.)

Job No: FA41991

Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Project No: 18686/1543

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA41991-40	03/08/17	00:00	ZC	03/10/17	AQ	Trip Blank Water	18686 TRIP BLANK

Summary of Hits

Job Number: FA41991
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 03/08/17 thru 03/09/17

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA41991-1	**18686 MW-1**					
Benzene		5460	200	62	ug/l	SW846 8260B
Toluene		10800	200	60	ug/l	SW846 8260B
Ethylbenzene		713	200	71	ug/l	SW846 8260B
Xylene (total)		6220	600	140	ug/l	SW846 8260B
Methyl Tert Butyl Ether		131 J	200	46	ug/l	SW846 8260B
Naphthalene		381 J	1000	200	ug/l	SW846 8260B
Tert-Amyl Alcohol		13400	4000	1100	ug/l	SW846 8260B
1,2-Dibromoethane [a]		0.010 J	0.019	0.0094	ug/l	SW846 8011
FA41991-2	**18686 MW-2**					
Benzene		12800	200	62	ug/l	SW846 8260B
Toluene		23700	500	150	ug/l	SW846 8260B
Ethylbenzene		2240	200	71	ug/l	SW846 8260B
Xylene (total)		12100	600	140	ug/l	SW846 8260B
Naphthalene		520 J	1000	200	ug/l	SW846 8260B
Tert-Amyl Alcohol		18400	4000	1100	ug/l	SW846 8260B
1,2-Dibromoethane [b]		0.45	0.019	0.0094	ug/l	SW846 8011
FA41991-3	**18686 MW-3**					
Benzene		3370	100	31	ug/l	SW846 8260B
Toluene		8350	100	30	ug/l	SW846 8260B
Ethylbenzene		1120	100	36	ug/l	SW846 8260B
Xylene (total)		5550	300	72	ug/l	SW846 8260B
Methyl Tert Butyl Ether		65.5 J	100	23	ug/l	SW846 8260B
Naphthalene		243 J	500	100	ug/l	SW846 8260B
Tert-Amyl Alcohol		6700	2000	530	ug/l	SW846 8260B
1,2-Dibromoethane [a]		0.044	0.019	0.0097	ug/l	SW846 8011
FA41991-4	**18686 MW-4**					
No hits reported in this sample.						
FA41991-5	**18686 MW-6**					
1,2-Dibromoethane [b]		0.057	0.019	0.0096	ug/l	SW846 8011
FA41991-6	**18686 MW-7**					
1,2-Dibromoethane [b]		0.024	0.019	0.0095	ug/l	SW846 8011

Summary of Hits

Job Number: FA41991
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 03/08/17 thru 03/09/17

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA41991-7	**18686 MW-8**					
Benzene		4.6	1.0	0.31	ug/l	SW846 8260B
Ethylbenzene		1.7	1.0	0.36	ug/l	SW846 8260B
Naphthalene		1.1 J	5.0	1.0	ug/l	SW846 8260B
FA41991-8	**18686 MW-9**					
1,2-Dibromoethane [b]		0.016 J	0.019	0.0095	ug/l	SW846 8011
FA41991-9	**18686 MW-10**					
No hits reported in this sample.						
FA41991-10	**18686 MW-13**					
Methyl Tert Butyl Ether		11.6	1.0	0.23	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		1.4 J	2.0	0.24	ug/l	SW846 8260B
FA41991-11	**18686 MW-14**					
Benzene		7.3	1.0	0.31	ug/l	SW846 8260B
Toluene		1.6	1.0	0.30	ug/l	SW846 8260B
Ethylbenzene		0.82 J	1.0	0.36	ug/l	SW846 8260B
Xylene (total)		2.4 J	3.0	0.72	ug/l	SW846 8260B
Tert-Amyl Alcohol		10.0 J	20	5.3	ug/l	SW846 8260B
1,2-Dibromoethane [b]		0.027	0.019	0.0095	ug/l	SW846 8011
FA41991-12	**18686 MW-15**					
No hits reported in this sample.						
FA41991-13	**18686 MW-19**					
No hits reported in this sample.						
FA41991-14	**18686 MW-20**					
Methyl Tert Butyl Ether		3.1	1.0	0.23	ug/l	SW846 8260B
Tert-Amyl Alcohol		52.9	20	5.3	ug/l	SW846 8260B
FA41991-15	**18686 MW-21**					
Benzene		0.55 J	1.0	0.31	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.38 J	1.0	0.23	ug/l	SW846 8260B

Summary of Hits

Job Number: FA41991
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 03/08/17 thru 03/09/17

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Tert-Amyl Alcohol		10.3 J	20	5.3	ug/l	SW846 8260B
FA41991-16	**18686 MW-22**					
Benzene		10.1	1.0	0.31	ug/l	SW846 8260B
Toluene		0.87 J	1.0	0.30	ug/l	SW846 8260B
Ethylbenzene		0.66 J	1.0	0.36	ug/l	SW846 8260B
Methyl Tert Butyl Ether		60.6	1.0	0.23	ug/l	SW846 8260B
Di-Isopropyl Ether		1.1	1.0	0.24	ug/l	SW846 8260B
Ethyl Tert Butyl Ether		1.6 J	2.0	0.24	ug/l	SW846 8260B
Tert-Amyl Alcohol		1850	100	26	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		7.0	2.0	0.24	ug/l	SW846 8260B
FA41991-17	**18686 MW-23**					
Benzene		0.45 J	1.0	0.31	ug/l	SW846 8260B
Methyl Tert Butyl Ether		28.4	1.0	0.23	ug/l	SW846 8260B
Di-Isopropyl Ether		0.53 J	1.0	0.24	ug/l	SW846 8260B
Ethyl Tert Butyl Ether		0.57 J	2.0	0.24	ug/l	SW846 8260B
Tert-Amyl Alcohol		732	20	5.3	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		2.4	2.0	0.24	ug/l	SW846 8260B
FA41991-18	**18686 MW-24**					
No hits reported in this sample.						
FA41991-19	**18686 MW-25**					
No hits reported in this sample.						
FA41991-20	**18686 MW-26**					
No hits reported in this sample.						
FA41991-21	**18686 MW-27**					
Benzene		3.7	1.0	0.31	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.48 J	1.0	0.23	ug/l	SW846 8260B
Tert-Amyl Alcohol		10.9 J	20	5.3	ug/l	SW846 8260B
1,2-Dibromoethane [b]		0.044	0.019	0.0096	ug/l	SW846 8011
FA41991-22	**18686 MW-28**					
No hits reported in this sample.						

Summary of Hits

Job Number: FA41991
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 03/08/17 thru 03/09/17

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA41991-23	**18686 MW-29**					
No hits reported in this sample.						
FA41991-24	**18686 MW-30**					
No hits reported in this sample.						
FA41991-25	**18686 MW-31**					
No hits reported in this sample.						
FA41991-26	**18686 MW-1A**					
Benzene		3230	200	62	ug/l	SW846 8260B
Toluene		1460	20	6.0	ug/l	SW846 8260B
Ethylbenzene		45.1	20	7.1	ug/l	SW846 8260B
Xylene (total)		1100	60	14	ug/l	SW846 8260B
Methyl Tert Butyl Ether		154	20	4.6	ug/l	SW846 8260B
Naphthalene		45.0 J	100	20	ug/l	SW846 8260B
Di-Isopropyl Ether		14.0 J	20	4.8	ug/l	SW846 8260B
Ethyl Tert Butyl Ether		13.5 J	40	4.7	ug/l	SW846 8260B
Tert-Amyl Alcohol		23700	4000	1100	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		61.8	40	4.9	ug/l	SW846 8260B
Tert-Butyl Alcohol		482	400	110	ug/l	SW846 8260B
FA41991-27	**18686 MW-2A**					
Benzene		25400	500	160	ug/l	SW846 8260B
Toluene		43200	500	150	ug/l	SW846 8260B
Ethylbenzene		2460	250	89	ug/l	SW846 8260B
Xylene (total)		13600	750	180	ug/l	SW846 8260B
Methyl Tert Butyl Ether		100 J	250	57	ug/l	SW846 8260B
Naphthalene		470 J	1300	250	ug/l	SW846 8260B
Tert-Amyl Alcohol		42400	5000	1300	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		76.3 J	500	61	ug/l	SW846 8260B
1,2-Dibromoethane [b]		0.17	0.019	0.0094	ug/l	SW846 8011
FA41991-28	**18686 MW-3A**					
Benzene		9760	100	31	ug/l	SW846 8260B
Toluene		45200	1000	300	ug/l	SW846 8260B
Ethylbenzene		3290	100	36	ug/l	SW846 8260B
Xylene (total)		17200	300	72	ug/l	SW846 8260B
Naphthalene		615	500	100	ug/l	SW846 8260B

Summary of Hits

Job Number: FA41991
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 03/08/17 thru 03/09/17

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Tert-Amyl Alcohol		17700	2000	530	ug/l	SW846 8260B
1,2-Dibromoethane [b]		0.099	0.019	0.0096	ug/l	SW846 8011
FA41991-29	**18686 MW-4A**					
Benzene		8010	100	31	ug/l	SW846 8260B
Toluene		21900	500	150	ug/l	SW846 8260B
Ethylbenzene		1380	100	36	ug/l	SW846 8260B
Xylene (total)		15300	300	72	ug/l	SW846 8260B
Naphthalene		517	500	100	ug/l	SW846 8260B
Tert-Amyl Alcohol		4350	2000	530	ug/l	SW846 8260B
1,2-Dibromoethane [b]		0.063	0.019	0.0095	ug/l	SW846 8011
FA41991-30	**18686 TW-1**					
No hits reported in this sample.						
FA41991-31	**18686 TW-2**					
Benzene		4.7	1.0	0.31	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.34 J	1.0	0.23	ug/l	SW846 8260B
Tert-Amyl Alcohol		19.1 J	20	5.3	ug/l	SW846 8260B
FA41991-34	**18686 DUP-A**					
Benzene		9930	500	160	ug/l	SW846 8260B
Toluene		49400	500	150	ug/l	SW846 8260B
Ethylbenzene		3200	500	180	ug/l	SW846 8260B
Xylene (total)		16600	1500	360	ug/l	SW846 8260B
Tert-Amyl Alcohol		15700	10000	2600	ug/l	SW846 8260B
1,2-Dibromoethane [b]		0.093	0.019	0.0095	ug/l	SW846 8011
FA41991-35	**18686 DUP-B**					
Benzene		5730	200	62	ug/l	SW846 8260B
Toluene		12700	200	60	ug/l	SW846 8260B
Ethylbenzene		767	200	71	ug/l	SW846 8260B
Xylene (total)		6450	600	140	ug/l	SW846 8260B
Methyl Tert Butyl Ether		138 J	200	46	ug/l	SW846 8260B
Tert-Amyl Alcohol		13300	4000	1100	ug/l	SW846 8260B
FA41991-37	**18686 MW-FB**					
No hits reported in this sample.						

Summary of Hits

Job Number: FA41991
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 03/08/17 thru 03/09/17

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

FA41991-39 **18686 TRIP BLANK**

No hits reported in this sample.

(a) All hits confirmed by dual column analysis. Quantitation between primary and confirmation differed by > 40%. Lower value reported due to possible coelution.
(b) All hits confirmed by dual column analysis.

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-1		
Lab Sample ID:	FA41991-1	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46225.D	200	03/14/17	WV	n/a	n/a	VI1294
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5460	200	62	ug/l	
108-88-3	Toluene	10800	200	60	ug/l	
100-41-4	Ethylbenzene	713	200	71	ug/l	
1330-20-7	Xylene (total)	6220	600	140	ug/l	
1634-04-4	Methyl Tert Butyl Ether	131	200	46	ug/l	J
91-20-3	Naphthalene	381	1000	200	ug/l	J
107-06-2	1,2-Dichloroethane	ND	200	62	ug/l	
108-20-3	Di-Isopropyl Ether	ND	200	48	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	10000	2000	ug/l	
64-17-5	Ethyl Alcohol	ND	40000	16000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	400	47	ug/l	
75-85-4	Tert-Amyl Alcohol	13400	4000	1100	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	400	49	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	4000	1100	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	4000	1000	ug/l	

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

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW-1		
Lab Sample ID:	FA41991-1	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD91785.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	37.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane [b]	0.010	0.019	0.0094	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		63-137%

(a) All hits confirmed by dual column analysis.
(b) Quantitation between primary and confirmation differed by > 40%. Lower value reported due to possible coelution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW-2		
Lab Sample ID:	FA41991-2	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46226.D	200	03/14/17	WV	n/a	n/a	VI1294
Run #2	I46250.D	500	03/15/17	WV	n/a	n/a	VI1295

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	12800	200	62	ug/l	
108-88-3	Toluene	23700 [a]	500	150	ug/l	
100-41-4	Ethylbenzene	2240	200	71	ug/l	
1330-20-7	Xylene (total)	12100	600	140	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	200	46	ug/l	
91-20-3	Naphthalene	520	1000	200	ug/l	J
107-06-2	1,2-Dichloroethane	ND	200	62	ug/l	
108-20-3	Di-Isopropyl Ether	ND	200	48	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	10000	2000	ug/l	
64-17-5	Ethyl Alcohol	ND	40000	16000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	400	47	ug/l	
75-85-4	Tert-Amyl Alcohol	18400	4000	1100	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	400	49	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	4000	1100	ug/l	
762-75-4	Tert-Butyl Formate [b]	ND	4000	1000	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	102%	79-125%
2037-26-5	Toluene-D8	99%	104%	85-112%
460-00-4	4-Bromofluorobenzene	103%	98%	83-118%

(a) Result is from Run# 2
(b) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-2		
Lab Sample ID:	FA41991-2	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD91789.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	37.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.45	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW-3		
Lab Sample ID:	FA41991-3	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46227.D	100	03/14/17	WV	n/a	n/a	VI1294
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3370	100	31	ug/l	
108-88-3	Toluene	8350	100	30	ug/l	
100-41-4	Ethylbenzene	1120	100	36	ug/l	
1330-20-7	Xylene (total)	5550	300	72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	65.5	100	23	ug/l	J
91-20-3	Naphthalene	243	500	100	ug/l	J
107-06-2	1,2-Dichloroethane	ND	100	31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	100	24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	5000	1000	ug/l	
64-17-5	Ethyl Alcohol	ND	20000	8200	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	200	24	ug/l	
75-85-4	Tert-Amyl Alcohol	6700	2000	530	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	200	24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	2000	530	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	2000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-3		
Lab Sample ID:	FA41991-3	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD91791.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	36.0 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane [b]	0.044	0.019	0.0097	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		63-137%

(a) All hits confirmed by dual column analysis.
(b) Quantitation between primary and confirmation differed by > 40%. Lower value reported due to possible coelution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-4		
Lab Sample ID:	FA41991-4	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46228.D	1	03/14/17	WV	n/a	n/a	VI1294
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	20	5.0	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	104%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-4		
Lab Sample ID:	FA41991-4	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD91792.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	37.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-6		
Lab Sample ID:	FA41991-5	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46229.D	1	03/14/17	WV	n/a	n/a	VI1294
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	20	5.0	ug/l	

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

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-6		
Lab Sample ID:	FA41991-5	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD91793.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.057	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW-7		
Lab Sample ID:	FA41991-6	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46230.D	1	03/14/17	WV	n/a	n/a	VI1294
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	20	5.0	ug/l	

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

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-7		
Lab Sample ID:	FA41991-6	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD91794.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	37.0 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.024	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-8		
Lab Sample ID:	FA41991-7	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46231.D	1	03/14/17	WV	n/a	n/a	VI1294
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4.6	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	1.7	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	1.1	5.0	1.0	ug/l	J
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-8		
Lab Sample ID:	FA41991-7	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD91795.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	37.1 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-9		
Lab Sample ID:	FA41991-8	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46232.D	1	03/14/17	WV	n/a	n/a	VI1294
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	20	5.0	ug/l	

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

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-9		
Lab Sample ID:	FA41991-8	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD91796.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.016	0.019	0.0095	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-10		
Lab Sample ID:	FA41991-9	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46233.D	1	03/14/17	WV	n/a	n/a	VI1294
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	20	5.0	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	103%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-10		
Lab Sample ID:	FA41991-9	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD91797.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	36.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-13		
Lab Sample ID:	FA41991-10	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46234.D	1	03/14/17	WV	n/a	n/a	VI1294
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	11.6	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	1.4	2.0	0.24	ug/l	J
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW-13		
Lab Sample ID:	FA41991-10	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD91798.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	36.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-14		
Lab Sample ID:	FA41991-11	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46237.D	1	03/14/17	WV	n/a	n/a	VI1294
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	7.3	1.0	0.31	ug/l	
108-88-3	Toluene	1.6	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	0.82	1.0	0.36	ug/l	J
1330-20-7	Xylene (total)	2.4	3.0	0.72	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	10.0	20	5.3	ug/l	J
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	20	5.0	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	99%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW-14		
Lab Sample ID:	FA41991-11	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD91801.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	36.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.027	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-15		
Lab Sample ID:	FA41991-12	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46238.D	1	03/14/17	WV	n/a	n/a	VI1294
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 18686 MW-15
Lab Sample ID: FA41991-12
Matrix: AQ - Ground Water
Method: SW846 8011 SW846 8011
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Date Sampled: 03/09/17
Date Received: 03/10/17
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD91802.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW-19		
Lab Sample ID:	FA41991-13	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46239.D	1	03/14/17	WV	n/a	n/a	VI1294
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	20	5.0	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	103%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-19		
Lab Sample ID:	FA41991-13	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD91803.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	37.1 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-20		
Lab Sample ID:	FA41991-14	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46240.D	1	03/14/17	WV	n/a	n/a	VI1294
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.1	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	52.9	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-20		
Lab Sample ID:	FA41991-14	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD91804.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	37.1 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW-21		
Lab Sample ID:	FA41991-15	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46241.D	1	03/14/17	WV	n/a	n/a	VI1294
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.55	1.0	0.31	ug/l	J
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.38	1.0	0.23	ug/l	J
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	10.3	20	5.3	ug/l	J
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	20	5.0	ug/l	

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

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW-21		
Lab Sample ID:	FA41991-15	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD91805.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW-22		
Lab Sample ID:	FA41991-16	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46242.D	1	03/14/17	WV	n/a	n/a	VI1294
Run #2	I46251.D	5	03/15/17	WV	n/a	n/a	VI1295

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	10.1	1.0	0.31	ug/l	
108-88-3	Toluene	0.87	1.0	0.30	ug/l	J
100-41-4	Ethylbenzene	0.66	1.0	0.36	ug/l	J
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	60.6	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	1.1	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	1.6	2.0	0.24	ug/l	J
75-85-4	Tert-Amyl Alcohol	1850 [a]	100	26	ug/l	
994-05-8	Tert-Amyl Methyl Ether	7.0	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [b]	ND	20	5.0	ug/l	

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

(a) Result is from Run# 2
(b) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-22		
Lab Sample ID:	FA41991-16	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD91806.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	36.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-23		
Lab Sample ID:	FA41991-17	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46252.D	1	03/15/17	WV	n/a	n/a	VI1295
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.45	1.0	0.31	ug/l	J
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	28.4	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	0.53	1.0	0.24	ug/l	J
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	0.57	2.0	0.24	ug/l	J
75-85-4	Tert-Amyl Alcohol	732	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	2.4	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	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	102%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-23		
Lab Sample ID:	FA41991-17	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD91807.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	36.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW-24		
Lab Sample ID:	FA41991-18	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46253.D	1	03/15/17	WV	n/a	n/a	VI1295
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-24		
Lab Sample ID:	FA41991-18	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD91808.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	36.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0097	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW-25		
Lab Sample ID:	FA41991-19	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46254.D	1	03/15/17	WV	n/a	n/a	VI1295
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW-25		
Lab Sample ID:	FA41991-19	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD91809.D	1	03/16/17	AN	03/15/17	OP64176	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	37.1 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-26		
Lab Sample ID:	FA41991-20	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46255.D	1	03/15/17	WV	n/a	n/a	VI1295
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	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	105%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-26		
Lab Sample ID:	FA41991-20	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD91810.D	1	03/16/17	AN	03/15/17	OP64176	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	37.0 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW-27		
Lab Sample ID:	FA41991-21	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46256.D	1	03/15/17	WV	n/a	n/a	VI1295
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.7	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.48	1.0	0.23	ug/l	J
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	10.9	20	5.3	ug/l	J
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-27		
Lab Sample ID:	FA41991-21	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD91815.D	1	03/16/17	AN	03/15/17	OP64177	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.044	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-28		
Lab Sample ID:	FA41991-22	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46257.D	1	03/15/17	WV	n/a	n/a	VI1295
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	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	104%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-28		
Lab Sample ID:	FA41991-22	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD91817.D	1	03/16/17	AN	03/15/17	OP64177	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-29		
Lab Sample ID:	FA41991-23	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46258.D	1	03/15/17	WV	n/a	n/a	VI1295
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	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	106%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-29		
Lab Sample ID:	FA41991-23	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD91819.D	1	03/16/17	AN	03/15/17	OP64177	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	37.0 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-30		
Lab Sample ID:	FA41991-24	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46259.D	1	03/15/17	WV	n/a	n/a	VI1295
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	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	106%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-30		
Lab Sample ID:	FA41991-24	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD91820.D	1	03/16/17	AN	03/15/17	OP64177	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	36.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-31		
Lab Sample ID:	FA41991-25	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46260.D	1	03/15/17	WV	n/a	n/a	VI1295
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	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	105%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-31		
Lab Sample ID:	FA41991-25	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD91821.D	1	03/16/17	AN	03/15/17	OP64177	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	36.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-1A		
Lab Sample ID:	FA41991-26	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46338.D	20	03/17/17	WV	n/a	n/a	VI1298
Run #2	I46261.D	200	03/15/17	WV	n/a	n/a	VI1295

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3230 [a]	200	62	ug/l	
108-88-3	Toluene	1460	20	6.0	ug/l	
100-41-4	Ethylbenzene	45.1	20	7.1	ug/l	
1330-20-7	Xylene (total)	1100	60	14	ug/l	
1634-04-4	Methyl Tert Butyl Ether	154	20	4.6	ug/l	
91-20-3	Naphthalene	45.0	100	20	ug/l	J
107-06-2	1,2-Dichloroethane	ND	20	6.2	ug/l	
108-20-3	Di-Isopropyl Ether	14.0	20	4.8	ug/l	J
624-95-3	3,3-Dimethyl-1-Butanol	ND	1000	200	ug/l	
64-17-5	Ethyl Alcohol	ND	4000	1600	ug/l	
637-92-3	Ethyl Tert Butyl Ether	13.5	40	4.7	ug/l	J
75-85-4	Tert-Amyl Alcohol	23700 [a]	4000	1100	ug/l	
994-05-8	Tert-Amyl Methyl Ether	61.8	40	4.9	ug/l	
75-65-0	Tert-Butyl Alcohol	482	400	110	ug/l	
762-75-4	Tert-Butyl Formate [b]	ND	400	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	106%	79-125%
2037-26-5	Toluene-D8	103%	102%	85-112%
460-00-4	4-Bromofluorobenzene	98%	97%	83-118%

(a) Result is from Run# 2
(b) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-1A		
Lab Sample ID:	FA41991-26	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD91822.D	1	03/16/17	AN	03/15/17	OP64177	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	35.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.0098	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	77%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW-2A		
Lab Sample ID:	FA41991-27	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46262.D	250	03/15/17	WV	n/a	n/a	VI1295
Run #2	I46339.D	500	03/17/17	WV	n/a	n/a	VI1298

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	25400 [a]	500	160	ug/l	
108-88-3	Toluene	43200 [a]	500	150	ug/l	
100-41-4	Ethylbenzene	2460	250	89	ug/l	
1330-20-7	Xylene (total)	13600	750	180	ug/l	
1634-04-4	Methyl Tert Butyl Ether	100	250	57	ug/l	J
91-20-3	Naphthalene	470	1300	250	ug/l	J
107-06-2	1,2-Dichloroethane	ND	250	78	ug/l	
108-20-3	Di-Isopropyl Ether	ND	250	60	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	13000	2500	ug/l	
64-17-5	Ethyl Alcohol	ND	50000	20000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	500	59	ug/l	
75-85-4	Tert-Amyl Alcohol	42400	5000	1300	ug/l	
994-05-8	Tert-Amyl Methyl Ether	76.3	500	61	ug/l	J
75-65-0	Tert-Butyl Alcohol	ND	5000	1300	ug/l	
762-75-4	Tert-Butyl Formate	ND	5000	1300	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	107%	103%	79-125%
2037-26-5	Toluene-D8	102%	103%	85-112%
460-00-4	4-Bromofluorobenzene	98%	100%	83-118%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-2A		
Lab Sample ID:	FA41991-27	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD91825.D	1	03/16/17	AN	03/15/17	OP64177	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	37.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.17	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-3A		
Lab Sample ID:	FA41991-28	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46340.D	100	03/17/17	WV	n/a	n/a	VI1298
Run #2	I46350.D	1000	03/17/17	WV	n/a	n/a	VI1298

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	9760	100	31	ug/l	
108-88-3	Toluene	45200 [a]	1000	300	ug/l	
100-41-4	Ethylbenzene	3290	100	36	ug/l	
1330-20-7	Xylene (total)	17200	300	72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	23	ug/l	
91-20-3	Naphthalene	615	500	100	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	100	24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	5000	1000	ug/l	
64-17-5	Ethyl Alcohol	ND	20000	8200	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	200	24	ug/l	
75-85-4	Tert-Amyl Alcohol	17700	2000	530	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	200	24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	2000	530	ug/l	
762-75-4	Tert-Butyl Formate [b]	ND	2000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	104%	79-125%
2037-26-5	Toluene-D8	102%	103%	85-112%
460-00-4	4-Bromofluorobenzene	103%	97%	83-118%

(a) Result is from Run# 2
(b) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-3A		
Lab Sample ID:	FA41991-28	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD91826.D	1	03/16/17	AN	03/15/17	OP64177	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.099	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW-4A		
Lab Sample ID:	FA41991-29	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46341.D	100	03/17/17	WV	n/a	n/a	VI1298
Run #2	I46266.D	500	03/15/17	WV	n/a	n/a	VI1295

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	8010	100	31	ug/l	
108-88-3	Toluene	21900 [a]	500	150	ug/l	
100-41-4	Ethylbenzene	1380	100	36	ug/l	
1330-20-7	Xylene (total)	15300	300	72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	23	ug/l	
91-20-3	Naphthalene	517	500	100	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	100	24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	5000	1000	ug/l	
64-17-5	Ethyl Alcohol	ND	20000	8200	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	200	24	ug/l	
75-85-4	Tert-Amyl Alcohol	4350	2000	530	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	200	24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	2000	530	ug/l	
762-75-4	Tert-Butyl Formate [b]	ND	2000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	102%	79-125%
2037-26-5	Toluene-D8	102%	101%	85-112%
460-00-4	4-Bromofluorobenzene	97%	98%	83-118%

(a) Result is from Run# 2
(b) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-4A		
Lab Sample ID:	FA41991-29	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD91827.D	1	03/16/17	AN	03/15/17	OP64177	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.063	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 TW-1		
Lab Sample ID:	FA41991-30	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46267.D	1	03/15/17	WV	n/a	n/a	VI1295
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	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	106%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 TW-1		
Lab Sample ID:	FA41991-30	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD91828.D	1	03/16/17	AN	03/15/17	OP64177	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	36.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 TW-2		
Lab Sample ID:	FA41991-31	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46268.D	1	03/15/17	WV	n/a	n/a	VI1295
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4.7	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.34	1.0	0.23	ug/l	J
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	19.1	20	5.3	ug/l	J
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

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

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 TW-2		
Lab Sample ID:	FA41991-31	**Date Sampled:**	03/08/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD91829.D	1	03/16/17	AN	03/15/17	OP64177	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 DUP-A		
Lab Sample ID:	FA41991-34	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46269.D	500	03/15/17	WV	n/a	n/a	VI1295
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	9930	500	160	ug/l	
108-88-3	Toluene	49400	500	150	ug/l	
100-41-4	Ethylbenzene	3200	500	180	ug/l	
1330-20-7	Xylene (total)	16600	1500	360	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	500	110	ug/l	
91-20-3	Naphthalene	ND	2500	500	ug/l	
107-06-2	1,2-Dichloroethane	ND	500	160	ug/l	
108-20-3	Di-Isopropyl Ether	ND	500	120	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	25000	5000	ug/l	
64-17-5	Ethyl Alcohol	ND	100000	41000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	1000	120	ug/l	
75-85-4	Tert-Amyl Alcohol	15700	10000	2600	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	1000	120	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10000	2700	ug/l	
762-75-4	Tert-Butyl Formate	ND	10000	2500	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	104%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 DUP-A		
Lab Sample ID:	FA41991-34	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD91830.D	1	03/16/17	AN	03/15/17	OP64177	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.093	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 DUP-B		
Lab Sample ID:	FA41991-35	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I46270.D	200	03/15/17	WV	n/a	n/a	VI1295
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5730	200	62	ug/l	
108-88-3	Toluene	12700	200	60	ug/l	
100-41-4	Ethylbenzene	767	200	71	ug/l	
1330-20-7	Xylene (total)	6450	600	140	ug/l	
1634-04-4	Methyl Tert Butyl Ether	138	200	46	ug/l	J
91-20-3	Naphthalene	ND	1000	200	ug/l	
107-06-2	1,2-Dichloroethane	ND	200	62	ug/l	
108-20-3	Di-Isopropyl Ether	ND	200	48	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	10000	2000	ug/l	
64-17-5	Ethyl Alcohol	ND	40000	16000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	400	47	ug/l	
75-85-4	Tert-Amyl Alcohol	13300	4000	1100	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	400	49	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	4000	1100	ug/l	
762-75-4	Tert-Butyl Formate	ND	4000	1000	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 DUP-B		
Lab Sample ID:	FA41991-35	**Date Sampled:**	03/09/17
Matrix:	AQ - Ground Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD91831.D	1	03/16/17	AN	03/15/17	OP64177	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	36.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	79%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-FB		
Lab Sample ID:	FA41991-37	**Date Sampled:**	03/09/17
Matrix:	AQ - Field Blank Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P48867.D	1	03/16/17	SP	n/a	n/a	VP1841
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	94%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 MW-FB		
Lab Sample ID:	FA41991-37	**Date Sampled:**	03/09/17
Matrix:	AQ - Field Blank Water	**Date Received:**	03/10/17
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD91832.D	1	03/16/17	AN	03/15/17	OP64177	GDD2703
Run #2							

	Initial Volume	Final Volume
Run #1	36.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	18686 TRIP BLANK		
Lab Sample ID:	FA41991-39	**Date Sampled:**	03/08/17
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/10/17
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P48868.D	1	03/16/17	SP	n/a	n/a	VP1841
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	93%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Subcontract Lab Data

Report of Analysis

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Accutest
4405 Vineland Rd
Suite C-15
Orlando, FL 32811
Attention: Muna Mohammed

Project Name: **FA41991X**

Lot Number: **SC16003**
Date Completed: **03/22/2017**

Lucas Odom
Project Manager

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The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
Accutest
Lot Number: SC16003

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

VOCs by GC/MS

Only one vial was provided for the Trip Blank Sample -005. Both the 524.2 and the 8260 analyses were performed out of this vial.

EDB by Microextraction

The analysis of EDB by method 504.1 was performed out of an HCl vial for all reported samples. A sodium thiosulfate vial was not provided for this analysis.

Sample Summary
Accutest
Lot Number: SC16003

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	18686 WSW-1	Aqueous	03/09/2017 0934	03/16/2017
002	18686 WSW-3	Aqueous	03/08/2017 1541	03/16/2017
003	18686 DUP-C	Aqueous	03/08/2017	03/16/2017
004	18686 WSW-FB	Aqueous	03/08/2017 1549	03/16/2017
005	18686 TRIP BLANK	Aqueous	03/08/2017	03/16/2017

(5 samples)

Executive Summary

Accutest

Lot Number: SC16003

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page

(0 detections)

Client: **Accutest**	Laboratory ID: **SC16003-001**
Description: **18686 WSW-1**	Matrix: **Aqueous**
Date Sampled: **03/09/2017 0934**	
Date Received: **03/16/2017**	

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/18/2017 0116	JJG		37465

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		111	70-130
Toluene-d8		110	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	03/21/2017 1223	TML		37635

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.080	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.12	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.060	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.10	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.050	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.070	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		76	70-130
1,2-Dichlorobenzene-d4		90	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	03/17/2017 1217	MEM	03/17/2017 0828	37356

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.020	0.0085	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Accutest**	Laboratory ID: **SC16003-001**
Description: **18686 WSW-1**	Matrix: **Aqueous**
Date Sampled: **03/09/2017 0934**	
Date Received: **03/16/2017**	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		102	57-137

4

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Accutest**	Laboratory ID: **SC16003-002**
Description: **18686 WSW-3**	Matrix: **Aqueous**
Date Sampled: **03/08/2017 1541**	
Date Received: **03/16/2017**	

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/18/2017 0138	JJG		37465

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		110	70-130
Toluene-d8		110	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	03/21/2017 1249	TML		37635

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.080	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.12	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.060	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.10	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.050	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.070	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		80	70-130
1,2-Dichlorobenzene-d4		93	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	03/17/2017 1229	MEM	03/17/2017 0828	37356

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.020	0.0084	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Accutest**	Laboratory ID: **SC16003-002**
Description: **18686 WSW-3**	Matrix: **Aqueous**
Date Sampled: **03/08/2017 1541**	
Date Received: **03/16/2017**	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		99	57-137

4

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Accutest**	Laboratory ID: **SC16003-003**
Description: **18686 DUP-C**	Matrix: **Aqueous**
Date Sampled: **03/08/2017**	
Date Received: **03/16/2017**	

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/18/2017 0200	JJG		37465

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		119	70-130
Toluene-d8		111	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	03/21/2017 1314	TML		37635

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.080	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.12	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.060	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.10	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.050	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.070	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		75	70-130
1,2-Dichlorobenzene-d4		96	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	03/17/2017 1241	MEM	03/17/2017 0828	37356

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.020	0.0086	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Accutest**
Description: **18686 DUP-C**
Date Sampled: **03/08/2017**
Date Received: **03/16/2017**

Laboratory ID: **SC16003-003**
Matrix: **Aqueous**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		95	57-137

4

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Client: **Accutest**
Description: **18686 WSW-FB**
Date Sampled: **03/08/2017 1549**
Date Received: **03/16/2017**

Laboratory ID: **SC16003-004**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2017 2158	JJG		37465

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		111	70-130
Toluene-d8		109	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	03/21/2017 1339	TML		37635

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.080	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.12	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.060	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.10	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.050	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.070	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		76	70-130
1,2-Dichlorobenzene-d4		95	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	03/17/2017 1253	MEM	03/17/2017 0828	37356

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.021	0.0087	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Accutest**
Description: **18686 WSW-FB**
Date Sampled: **03/08/2017 1549**
Date Received: **03/16/2017**

Laboratory ID: **SC16003-004**
Matrix: **Aqueous**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		94	57-137

4

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Client: **Accutest**
Description: **18686 TRIP BLANK**
Date Sampled: **03/08/2017**
Date Received: **03/16/2017**

Laboratory ID: **SC16003-005**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/17/2017 2220	JJG		37465

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		114	70-130
Toluene-d8		112	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	03/21/2017 1405	TML		37635

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.080	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.12	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.060	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.10	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.050	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.070	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		78	70-130
1,2-Dichlorobenzene-d4		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ37465-001
Batch: 37465
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	03/17/2017 2035
tert-Amyl methyl ether (TAME)	ND		1	10	0.40	ug/L	03/17/2017 2035
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	03/17/2017 2035
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	03/17/2017 2035
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	03/17/2017 2035
Ethanol	ND		1	100	40	ug/L	03/17/2017 2035
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	03/17/2017 2035
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	03/17/2017 2035

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		115	70-130
1,2-Dichloroethane-d4		106	70-130
Toluene-d8		112	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ37465-002
Batch: 37465
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000		1	102	70-130	03/17/2017 1935
tert-Amyl methyl ether (TAME)	50	51		1	103	70-130	03/17/2017 1935
tert-Butyl formate (TBF)	250	240		1	97	70-130	03/17/2017 1935
Diisopropyl ether (IPE)	50	53		1	106	70-130	03/17/2017 1935
3,3-Dimethyl-1-butanol	1000	980		1	98	70-130	03/17/2017 1935
Ethanol	5000	4800		1	97	60-140	03/17/2017 1935
Ethyl-tert-butyl ether (ETBE)	50	53		1	107	70-130	03/17/2017 1935
tert-butyl alcohol (TBA)	1000	1000		1	103	70-130	03/17/2017 1935

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		120	70-130
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		109	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ37635-001
Batch: 37635
Analytical Method: 524.2

Matrix: Aqueous
Prep Method: 524.2

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Benzene	ND		1	0.50	0.080	ug/L	03/21/2017 1008
1,2-Dichloroethane	ND		1	0.50	0.12	ug/L	03/21/2017 1008
Ethylbenzene	ND		1	0.50	0.060	ug/L	03/21/2017 1008
Methyl tertiary butyl ether (MTBE)	ND		1	0.50	0.10	ug/L	03/21/2017 1008
Naphthalene	ND		1	0.50	0.050	ug/L	03/21/2017 1008
Toluene	ND		1	0.50	0.070	ug/L	03/21/2017 1008
Xylenes (total)	ND		1	0.50	0.32	ug/L	03/21/2017 1008

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		79	70-130
1,2-Dichlorobenzene-d4		92	70-130

4

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ37635-002
Batch: 37635
Analytical Method: 524.2

Matrix: Aqueous
Prep Method: 524.2

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	5.0	5.1		1	103	70-130	03/21/2017 0858
1,2-Dichloroethane	5.0	4.2		1	85	70-130	03/21/2017 0858
Ethylbenzene	5.0	4.9		1	98	70-130	03/21/2017 0858
Methyl tertiary butyl ether (MTBE)	5.0	4.4		1	87	70-130	03/21/2017 0858
Naphthalene	5.0	4.2		1	85	70-130	03/21/2017 0858
Toluene	5.0	4.9		1	99	70-130	03/21/2017 0858
Xylenes (total)	10	9.7		1	97	70-130	03/21/2017 0858

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		98	70-130
1,2-Dichlorobenzene-d4		103	70-130

4

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - MB

Sample ID: SQ37356-001
Batch: 37356
Analytical Method: 504.1
Matrix: Aqueous
Prep Method: 504.1
Prep Date: 03/17/2017 828

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.0085	ug/L	03/17/2017 1153

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		92	57-137

4

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - LCS

Sample ID: SQ37356-002
Batch: 37356
Analytical Method: 504.1

Matrix: Aqueous
Prep Method: 504.1
Prep Date: 03/17/2017 828

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.21		1	85	70-130	03/17/2017 1205

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		93	57-137

4

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody
and
Miscellaneous Documents

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

SGS ACCUTEST — CHAIN OF CUSTODY

4405 Vineland Rd, Suite C-15, Orlando, FL 32811
TEL: 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS Accutest Tracking #: | Bottle Order Control #:
SGS Accutest Quote #: | SGS Accutest Job #: FA41991X

Client / Reporting Information

Company Name: SGS Accutest
Street Address: 4405 Vineland Rd, Suite C-15
City: Orlando State: FL Zip: 32811
Project Contact: | E-mail:
Phone #: 407-425-6700 | Fax #:
Sampler(s) Name(s): ZC | Phone #:

Project Information

Project Name: FA41991X
Street:
City: State: SC
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

VB5EDD_VB5ESTD_VB5SOXY, VB5STD_VB5SOXY

SC16003

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank

SGS Accutest Sample #	Field ID / Point of Collection	MEOH Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number Preserved Bottles: HCl	H2SO4	HNO3	NaOH	Zn Acetate	MEOH	ENCORE	VB5EDD_VB5ESTD_VB5SOXY	VB5STD_VB5SOXY	LAB USE ONLY
32X	18686 WSW-1		3/9/17	9:34:00 AM	ZC	AQ	9	3							X		
33X	18686 WSW-3		3/9/17	3:41:00 PM	ZC	AQ	9	3							X		
39X	18686 DUP-C		3/9/17	12:00:00 AM	ZC	AQ	9	3							X		
38X	18686 WSW-FB		3/9/17	3:49:00 PM	ZC	AQ	9	3							X		
40X	18686 TRIP BLANK		3/9/17	12:00:00 AM	ZC	AQ	1	1								X	

Turnaround Time (Business days)

Approved By (SGS Accutest PM) / Date:

- [ ] 10 Day (business)
- [ ] 5-7 Day
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day RUSH
- [x] other Due 3/17/2017

Rush TAT data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1, Results Only)
- [x] Commercial "B" (Level 2, Results + QC summary)
- [ ] RSEDD (Level 3)
- [ ] FULTS (Level 3)
- [ ] EDD FULTS (Level 4)
- [ ] Other
- [ ] EDD Format

Comments / Special Instructions

Shealy

2 EDD's

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

1 Relinquished by Sampler: J. Cobb (NSE)	Date Time: 03-15-17 17:50	1 Received By: FX	2 Relinquished By: FX	Date Time:	2 Received By:
3 Relinquished by Sampler:	Date Time:	3 Received By:	4 Relinquished By:	Date Time:	4 Received By:
5 Relinquished by: FedEx	Date Time: 3/16/17 1035	5 Received By:	Custody Seal #	Intact / Not Intact	Preserved where applicable	On Ice	Cooler Temp: 3.0°C

Shealy Environmental Services, Inc.
Document Number: ME2001 SC-08

Page 1 of 1
Effective Date: 03/07/2017
Expiry Date: 03/07/2022

Sample Receipt Checklist (SRC)

Client: Accutest Cooler Inspected by/date: COC 3-16-17 Lot #: SC16003

4

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☑ FedEx ☐ Other			
Yes ☐	No ☐		1. Were custody seals present on the cooler?
Yes ☑	No ☐	NA ☐	2. If custody seals were present, were they intact and unbroken?

pH strip ID: Cl strip ID:
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:
13.2/3.2 °C / / °C / / °C / / °C
Method: ☐ Temperature Blank ☑ Against Bottles IR Gun ID: 16 IR Gun Correction Factor: 0 °C
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
Yes ☑	No ☐	NA ☐	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☐	No ☑		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
Yes ☑	No ☐	NA ☐	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (< 0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		22. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.
Sample(s) COC (1) were received with bubbles >6 mm in diameter.
Samples(s) _____ were received with TRC > 0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.
SC Drinking Water Project Sample(s) pH verified to be < 2 by _____ Date: _____
Sample(s) _____ were Not received at a pH of < 2 and were adjusted accordingly using SR#
Sample labels applied by: SDE Verified by: _____ Date: 3-16-17

Comments: _____

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Parameter Certification Exceptions

Job Number: FA41991
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
3,3-Dimethyl-1-Butanol	624-95-3	SW846 8260B	AQ	Certified by SOP MS005
Di-Isopropyl Ether	108-20-3	SW846 8260B	AQ	Certified by SOP MS005
Tert-Amyl Alcohol	75-85-4	SW846 8260B	AQ	Certified by SOP MS005
Tert-Butyl Formate	762-75-4	SW846 8260B	AQ	Certified by SOP MS005

SGS ACCUTEST

SGS Accutest Chain of Custody

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

SCDHEC FA41991

SGS ACCUTEST JOB #: PAGE 1 OF 4

SGS Accutest Quote # | SKIFF #

Client / Reporting Information

Company Name: GRI
Address: 3502 Hayes Rd.
City: Monroe State: NC Zip: 28110
Project Contact: Scott Ball Email:
Phone #: 704 845 4610
Sampler(s) Name(s) (Printed): Sampler 1: [illegible] Sampler 2:

Project Information

Project Name: Tisdale's Quick Stop
Street: 1989 Thurgood Marshall Blvd
City: Kingstree State: SC
Project #: 1543
Fax #: UST Permit # 18686
Client Purchase Order #

Analytical Information

SGS Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	H2O	HNO3	H2SO4	NaOH/ZnAc	Methanol	BTEX, MTBE, Naph, 1,2-DCA & EDB by 8260B	BTEX, MTBE, Naph, 1,2-DCA & EDB by 8260B	EDB by SOP L	LAB USE ONLY
1	18686 mw-1 HOT	03/09	1516	JC	GW	5			X					X	X		
2	18686 mw-2 HOT	03/09	1544	JC	GW	5			X					X	X		
3	18686 mw-3 HOT	03/09	0957	JC	GW	5			X					X	X		
4	18686 mw-4	03/09	0921	JC	GW	5			X					X	X		
5	18686 mw-6	03/09	1051	JC	GW	5			X					X	X		
6	18686 mw-7	03/09	1025	JC	GW	5			X					X	X		
7	18686 mw-8	03/09	1356	JC	GW	5			X					X	X		
8	18686 mw-9	03/09	1203	JC	GW	5			X					X	X		
9	18686 mw-10	03/09	1145	JC	GW	5			X					X	X		
10	18686 mw-13	03/09	1124	JC	GW	5			X					X	X		
11	18686 mw-14	03/09	1430	JC	GW	5			X					X	X		
12	18686 mw-15	03/09	1455	JC	GW	5			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

Turnaround Time (Business days)

Approved By: / Date:

- 10 Day (Business)
- 7 Day
- 5 Day
- 3 Day RUSH
- 2 Day RUSH
- 1 Day RUSH
- Other

Rush T/A Date Available VIA Email or Lablink

Data Deliverable Information

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

ACCUTEST
2320 C QUEEN CITY DR
CHARLOTTE, NC 28203

811062256462
811062256484

Comments / Remarks

SCDHEC MANAGEMENT PROGRAM
UST PERMIT # 18686

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		03/09	2 FEDEX	3 FX	03-10-17	4 J. Cooper (ALS) 10:45
5			6	7		8

Lab Use Only: Cooler Temperature (s) Celsius: 3.8 3.6

5.2 5

FA41991: Chain of Custody
Page 1 of 6

SCDHEC FA41991

SGS ACCUTEST

SGS Accutest Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-6707
www.accutest.com

SGS ACCUTEST JOB #: PAGE 2 OF 4

SGS Accutest Quote # | SKIFF #

Client / Reporting Information

Company Name: GRI
Address: 3502 HAYES Rd.
City: MONROE State: NC Zip: 28110
Project Contact: SCOTT BELL Email:
Phone #: 704 845 4010
Sampler(s) Name(s) (Printed) Sampler 1: RAE CAMPBELL Sampler 2:

Project Information

Project Name: TISDALES QUICK STOP
Street: 1989 THINGOOD MARSHALL BLVD
City: KINGSTREE State: SC
Project #: 1543
Fax #: UST PERMIT # 18686
Client Purchase Order #

Analytical Information

SGS Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	HCl	BTEX, MTBE, NAPH, 1,2-DCA	8-OXY By 8260B, EDB by GRM	BTEX, MTBE, NAPH, 1,2-DCA By 5242	8-OXY By 8260B	EDB By 504.1
13	18686 MW-18	03/08	1454	TC	GW	5	X	X	X			
14	18686 MW-20	03/08	1519	TC	GW	5	X	X	X			
15	18686 MW-21	03/08	1335	TC	GW	5	X	X	X			
16	18686 MW-22	03/08	1144	TC	GW	5	X	X	X			
17	18686 MW-23	03/08	0943	TC	GW	5	X	X	X			
18	18686 MW-24	03/08	0914	TC	GW	5	X	X	X			
19	18686 MW-25	03/08	1306	TC	GW	5	X	X	X			
20	18686 MW-26	03/08	1228	TC	GW	5	X	X	X			
21	18686 MW-27	03/08	1114	TC	GW	5	X	X	X			
22	18686 MW-28	03/08	1042	TC	GW	5	X	X	X			
23	18686 MW-29	03/08	1014	TC	GW	5	X	X	X			
24	18686 MW-30	03/08	0946	TC	GW	5	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

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 + QC)
- REDT1 (EPA LEVEL 3)
- FULLT1 (EPA LEVEL 4)
- EDD'S

ACCUTEST QUEEN CT DR
2828 CLT NC 28203

Comments / Remarks

SCDHEC MANAGEMENT PROGRAM
UST PERMIT # 18686

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	03/09	2 FEDEX	3 FX	03-10-17	4 J-CORP (ALL) 10:45
5		6	7		8

Lab Use Only: Cooler Temperature (s) Celsius:

5.2 5

SGS ACCUTEST

SGS Accutest Chain of Custody

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

SCDHEC FA41991

SGS ACCUTEST JOB #: PAGE 3 OF 4

SGS Accutest Quote # | SKIFF #

Client / Reporting Information

Company Name: GRI
Address: 3502 HAMES Rd.
City: MONROE State: NC Zip: 28110
Project Contact: SCOTT BALL Email:
Phone #: 704 845 4810
Sampler(s) Name(s) (Printed): Sampler 1: Joe Connell Sampler 2:

Project Information

Project Name: TYDALES QUICK STOP
Street: 1989 THREEGOOD MARSHALL BLVD
City: KINGSTREE State: SC
Project #: 1543
Fax #: UST PERMIT #18686
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

SGS Accutest Sample #	Field ID / Point of Collection		Collection Date	Collection Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	MeOH	HNO3	H2SO4	NaOH/ZnAc	Ascorbic Acid	NaOH	BTEX, MTBE, NNPH, 1,2-DCA by 8260B	8-OXY by 8260B, EDB by SW	BTEX, MTBE, NNPH, 1,2-DCA by 524.2	8-OXY by 8260B	EDB by 504.1	LAB USE ONLY
25	18686	MW-3I	03/08	0915	JC	GW	5			X						X	X	X				
26	18686	MW-1A HOT	03/09	1243	JC	GW	5			X						X	X	X				
27	18686	MW-2A HOT	03/09	1224	JC	GW	5			X						X	X	X				
28	18686	MW-3A HOT	03/09	1307	JC	GW	5			X						X	X	X				
29	18686	MW-4A HOT	03/09	1334	JC	GW	5			X						X	X	X				
30	18686	TW-1	03/09	0904	JC	GW	5			X						X	X	X				
31	18686	TW-2	03/08	1420	JC	GW	5			X						X	X	X				
32	18686	WSW-1	03/09	0934	JC	GW	9			X									X	X	X	
33	18686	WSW-3	03/08	1541	JC	GW	9			X									X	X	X	
34	18686	Dup-A HOT	03/09		JC	GW	5			X						X	X	X				
35	18686	Dup-B HOT	03/09		JC	GW	5			X						X	X	X				
36	18686	Dup-C	03/08		JC	GW	9			X									X	X	X	

Turnaround Time (Business days)

Approved By: / Date:

- 10 Day (Business)
- 7 Day
- 6 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 + QC)
- REDT1 (EPA LEVEL 3)
- FULLT1 (EPA LEVEL 4)
- EDD'S

ACCUTEST
2828 QUEEN CITY DR
CLT NC 28203

Comments / Remarks

SCDHEC MANAGEMENT PROGRAM
UST PERMIT #18686

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		03/09	2 FEDEX	3 FX	03-10-17	4 J. Connell (AIR) 10:45
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:

5.2 5

FA41991: Chain of Custody
Page 3 of 6

SGS ACCUTEST

SGS Accutest Chain of Custody

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

SCDHEC FA 41991

SGS ACCUTEST JOB #: PAGE 4 OF 4

SGS Accutest Quote # | SKIFF #

Client / Reporting Information

Company Name: GRT
Address: 3502 HAYES Rd
City: MONROE State: NC Zip: 28110
Project Contact: SCOTT BALL Email:
Phone #: 704 845 4010
Sampler(s) Name(s) (Printed)
Sampler 1: ZAC COMPHER Sampler 2:

Project Information

Project Name: TISDALES QUICK STOP
Street: 1989 THURGOOD MARSHALL BLVD
City: KINGSTREE State: SC
Project #: 1543
Fax #: UST PERMIT #18686
Client Purchase Order #

Analytical Information

SGS Accutest Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION	BTEX, DIPE, NAPH, 1,2-DCA	8-OXY by 8260B EDB by 8260B	BTEX, DIPE, NAPH, 1,2-DCA by SW1 2	8-OXY by 8260B	EDB by SW1	Matrix Codes / LAB USE ONLY
37	18686 MW3 - FB	03/09	1551	ZC	LIQ	5	HCl	X	X				
38	18686 W3W - FB	03/08	1549	ZC	LIQ	9	HCl			X	X	X	
39	18686 TRIP BLANK				LIQ	1	HCl		X				
40	18686 TRIP BLANK				LIQ	1	HCl			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

Turnaround Time (Business days)

5 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 Leblink

Data Deliverable Information

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

ACCUTEST
2828-C QUEEN CITY DR
CLT NC 28203

Comments / Remarks

SCDHEC MANAGEMENT PROGRAM
UST PERMIT #18686

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	03/09	2 FEDEX	3 FX	03-10-17	4 J. Cooper (Alte) 10:45
Relinquished By/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only: Cooler Temperature (s) Celsius:

5.2 5

SGS ACCUTEST - ORLANDO SAMPLE RECEIPT CONFIRMATION

SGS ACCUTEST'S JOB NUMBER: FA41991 CLIENT: GRI PROJECT: 1543

DATE/TIME RECEIVED: 03-10-17 10:45 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 2

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8110 6225 6462

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.8
- [ ] OBSERVED TEMPS: 3.0 2.8
- [ ] CORRECTED TEMPS: 3.8 3.6 (USED FOR LIMS)

SAMPLE INFORMATION

- [X] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

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)

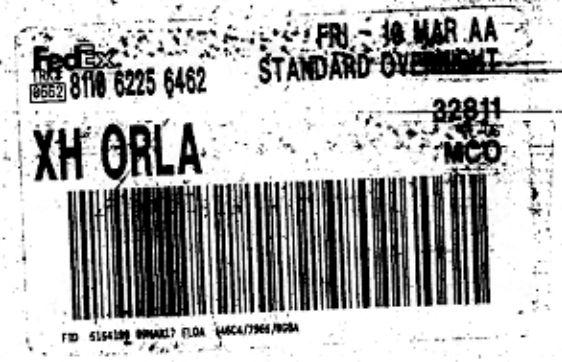
SUMMARY OF COMMENTS: 1 VIAL FOR SAMPLES 39, 40 TB; RECEIVED 2 VIALS EACH FOR SAMPLES 1-31, 34, 35, 37

TECHNICIAN SIGNATURE/DATE 03-13-17 REVIEWER SIGNATURE/DATE 03-13-17

NF 02/16 receipt confirmation 020116.xls

5.2 5





FA41991: Chain of Custody
Page 6 of 6

GC/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: FA41991
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI1294-MB	I46220.D	1	03/14/17	WV	n/a	n/a	VI1294

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

FA41991-1, FA41991-2, FA41991-3, FA41991-4, FA41991-5, FA41991-6, FA41991-7, FA41991-8, FA41991-9, FA41991-10, FA41991-11, FA41991-12, FA41991-13, FA41991-14, FA41991-15, FA41991-16

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	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	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile [a]		0	ug/l	

(a) No TICs detected.

Method Blank Summary

Job Number: FA41991
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI1295-MB	I46249.D	1	03/15/17	WV	n/a	n/a	VI1295

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

FA41991-2, FA41991-16, FA41991-17, FA41991-18, FA41991-19, FA41991-20, FA41991-21, FA41991-22, FA41991-23, FA41991-24, FA41991-25, FA41991-26, FA41991-27, FA41991-29, FA41991-30, FA41991-31, FA41991-34, FA41991-35

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	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	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	103%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

Method Blank Summary

Job Number: FA41991
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP1841-MB	P48866.D	1	03/16/17	SP	n/a	n/a	VP1841

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

FA41991-37, FA41991-39

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	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	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	79-125%
2037-26-5	Toluene-D8	103%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

Method Blank Summary

Job Number: FA41991
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI1298-MB	I46333.D	1	03/17/17	WV	n/a	n/a	VI1298

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

FA41991-26, FA41991-27, FA41991-28, FA41991-29

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	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	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

Blank Spike Summary

Job Number: FA41991
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI1294-BS	I46219.D	1	03/14/17	WV	n/a	n/a	VI1294

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

FA41991-1, FA41991-2, FA41991-3, FA41991-4, FA41991-5, FA41991-6, FA41991-7, FA41991-8, FA41991-9, FA41991-10, FA41991-11, FA41991-12, FA41991-13, FA41991-14, FA41991-15, FA41991-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	27.2	109	81-122
107-06-2	1,2-Dichloroethane	25	23.3	93	75-125
108-20-3	Di-Isopropyl Ether	25	23.5	94	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1220	98	55-126
64-17-5	Ethyl Alcohol	500	479	96	46-145
100-41-4	Ethylbenzene	25	26.4	106	81-121
637-92-3	Ethyl Tert Butyl Ether	25	23.2	93	71-120
1634-04-4	Methyl Tert Butyl Ether	25	22.9	92	72-117
91-20-3	Naphthalene	25	23.5	94	63-132
75-85-4	Tert-Amyl Alcohol	250	230	92	65-124
994-05-8	Tert-Amyl Methyl Ether	25	23.6	94	73-122
75-65-0	Tert-Butyl Alcohol	250	206	82	63-129
762-75-4	Tert-Butyl Formate	250	349	140*	46-130
108-88-3	Toluene	25	26.1	104	80-120
1330-20-7	Xylene (total)	75	76.4	102	80-126

CAS No.	Surrogate Recoveries	BSP	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	98%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA41991
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI1295-BS	I46248.D	1	03/15/17	WV	n/a	n/a	VI1295

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

FA41991-2, FA41991-16, FA41991-17, FA41991-18, FA41991-19, FA41991-20, FA41991-21, FA41991-22, FA41991-23, FA41991-24, FA41991-25, FA41991-26, FA41991-27, FA41991-29, FA41991-30, FA41991-31, FA41991-34, FA41991-35

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	27.6	110	81-122
107-06-2	1,2-Dichloroethane	25	24.1	96	75-125
108-20-3	Di-Isopropyl Ether	25	24.3	97	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	961	77	55-126
64-17-5	Ethyl Alcohol	500	543	109	46-145
100-41-4	Ethylbenzene	25	28.0	112	81-121
637-92-3	Ethyl Tert Butyl Ether	25	24.0	96	71-120
1634-04-4	Methyl Tert Butyl Ether	25	23.7	95	72-117
91-20-3	Naphthalene	25	25.6	102	63-132
75-85-4	Tert-Amyl Alcohol	250	226	90	65-124
994-05-8	Tert-Amyl Methyl Ether	25	23.9	96	73-122
75-65-0	Tert-Butyl Alcohol	250	204	82	63-129
762-75-4	Tert-Butyl Formate	250	305	122	46-130
108-88-3	Toluene	25	27.2	109	80-120
1330-20-7	Xylene (total)	75	80.9	108	80-126

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

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA41991
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP1841-BS	P48865.D	1	03/16/17	SP	n/a	n/a	VP1841

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

FA41991-37, FA41991-39

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	27.1	108	81-122
107-06-2	1,2-Dichloroethane	25	23.1	92	75-125
108-20-3	Di-Isopropyl Ether	25	22.9	92	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1230	98	55-126
64-17-5	Ethyl Alcohol	500	455	91	46-145
100-41-4	Ethylbenzene	25	28.8	115	81-121
637-92-3	Ethyl Tert Butyl Ether	25	22.6	90	71-120
1634-04-4	Methyl Tert Butyl Ether	25	22.6	90	72-117
91-20-3	Naphthalene	25	32.7	131	63-132
75-85-4	Tert-Amyl Alcohol	250	223	89	65-124
994-05-8	Tert-Amyl Methyl Ether	25	23.1	92	73-122
75-65-0	Tert-Butyl Alcohol	250	195	78	63-129
762-75-4	Tert-Butyl Formate	250	346	138*	46-130
108-88-3	Toluene	25	28.0	112	80-120
1330-20-7	Xylene (total)	75	82.9	111	80-126

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

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA41991
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI1298-BS	I46332.D	1	03/17/17	WV	n/a	n/a	VI1298

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

FA41991-26, FA41991-27, FA41991-28, FA41991-29

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	28.7	115	81-122
107-06-2	1,2-Dichloroethane	25	27.1	108	75-125
108-20-3	Di-Isopropyl Ether	25	28.9	116	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1260	101	55-126
64-17-5	Ethyl Alcohol	500	444	89	46-145
100-41-4	Ethylbenzene	25	28.5	114	81-121
637-92-3	Ethyl Tert Butyl Ether	25	28.4	114	71-120
1634-04-4	Methyl Tert Butyl Ether	25	27.4	110	72-117
91-20-3	Naphthalene	25	23.0	92	63-132
75-85-4	Tert-Amyl Alcohol	250	256	102	65-124
994-05-8	Tert-Amyl Methyl Ether	25	27.7	111	73-122
75-65-0	Tert-Butyl Alcohol	250	230	92	63-129
762-75-4	Tert-Butyl Formate	250	360	144*	46-130
108-88-3	Toluene	25	27.7	111	80-120
1330-20-7	Xylene (total)	75	86.9	116	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA41991
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA41991-3MS	I46235.D	100	03/14/17	WV	n/a	n/a	VI1294
FA41991-3MSD	I46236.D	100	03/14/17	WV	n/a	n/a	VI1294
FA41991-3	I46227.D	100	03/14/17	WV	n/a	n/a	VI1294

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

FA41991-1, FA41991-2, FA41991-3, FA41991-4, FA41991-5, FA41991-6, FA41991-7, FA41991-8, FA41991-9, FA41991-10, FA41991-11, FA41991-12, FA41991-13, FA41991-14, FA41991-15, FA41991-16

CAS No.	Compound	FA41991-3 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	3370		2500	5950	103	2500	5780	96	3	81-122/14
107-06-2	1,2-Dichloroethane	ND		2500	2430	97	2500	2330	93	4	75-125/14
108-20-3	Di-Isopropyl Ether	ND		2500	2400	96	2500	2330	93	3	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		125000	112000	90	125000	107000	86	5	55-126/17
64-17-5	Ethyl Alcohol	ND		50000	52500	105	50000	51600	103	2	46-145/30
100-41-4	Ethylbenzene	1120		2500	3770	106	2500	3700	103	2	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND		2500	2360	94	2500	2300	92	3	71-120/14
1634-04-4	Methyl Tert Butyl Ether	65.5	J	2500	2330	91	2500	2290	89	2	72-117/14
91-20-3	Naphthalene	243	J	2500	2860	105	2500	2650	96	8	63-132/25
75-85-4	Tert-Amyl Alcohol	6700		25000	31200	98	25000	30700	96	2	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		2500	2330	93	2500	2310	92	1	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		25000	20700	83	25000	20600	82	0	63-129/27
762-75-4	Tert-Butyl Formate	ND		25000	30500	122	25000	30000	120	2	46-130/33
108-88-3	Toluene	8350		2500	10100	70* [a]	2500	10200	74* [a]	1	80-120/14
1330-20-7	Xylene (total)	5550		7500	13100	101	7500	13100	101	0	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA41991-3	Limits
1868-53-7	Dibromofluoromethane	103%	101%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	101%	101%	79-125%
2037-26-5	Toluene-D8	97%	99%	103%	85-112%
460-00-4	4-Bromofluorobenzene	103%	99%	101%	83-118%

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA41991
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA41991-2MS	I46264.D	500	03/15/17	WV	n/a	n/a	VI1295
FA41991-2MSD	I46265.D	500	03/15/17	WV	n/a	n/a	VI1295
FA41991-2	I46250.D	500	03/15/17	WV	n/a	n/a	VI1295

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

FA41991-2, FA41991-16, FA41991-17, FA41991-18, FA41991-19, FA41991-20, FA41991-21, FA41991-22, FA41991-23, FA41991-24, FA41991-25, FA41991-26, FA41991-27, FA41991-29, FA41991-30, FA41991-31, FA41991-34, FA41991-35

CAS No.	Compound	FA41991-2 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	13600		12500	27400	110	12500	29300	126*	7	81-122/14
107-06-2	1,2-Dichloroethane	ND		12500	12600	101	12500	13900	111	10	75-125/14
108-20-3	Di-Isopropyl Ether	ND		12500	12300	98	12500	14000	112	13	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		625000	596000	95	625000	611000	98	2	55-126/17
64-17-5	Ethyl Alcohol	ND		250000	259000	104	250000	255000	102	2	46-145/30
100-41-4	Ethylbenzene	2330		12500	16800	116	12500	18100	126*	7	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND		12500	12100	97	12500	13800	110	13	71-120/14
1634-04-4	Methyl Tert Butyl Ether	ND		12500	11500	92	12500	13100	105	13	72-117/14
91-20-3	Naphthalene	515	J	12500	13400	103	12500	16200	125	19	63-132/25
75-85-4	Tert-Amyl Alcohol	16700		125000	138000	97	125000	151000	107	9	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		12500	11800	94	12500	13400	107	13	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		125000	104000	83	125000	116000	93	11	63-129/27
762-75-4	Tert-Butyl Formate	ND		125000	165000	132*	125000	177000	142*	7	46-130/33
108-88-3	Toluene	23700		12500	35500	94	12500	36200	100	2	80-120/14
1330-20-7	Xylene (total)	12300		37500	53700	110	37500	58000	122	8	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA41991-2	Limits
1868-53-7	Dibromofluoromethane	101%	102%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	106%	104%	102%	79-125%
2037-26-5	Toluene-D8	100%	99%	104%	85-112%
460-00-4	4-Bromofluorobenzene	97%	103%	98%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA41991
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA42050-1MS	P48879.D	1	03/16/17	SP	n/a	n/a	VP1841
FA42050-1MSD	P48880.D	1	03/16/17	SP	n/a	n/a	VP1841
FA42050-1 [a]	P48875.D	1	03/16/17	SP	n/a	n/a	VP1841

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

FA41991-37, FA41991-39

CAS No.	Compound	FA42050-1 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	ND		25	29.3	117	25	29.2	117	0	81-122/14
107-06-2	1,2-Dichloroethane	ND		25	23.7	95	25	23.8	95	0	75-125/14
108-20-3	Di-Isopropyl Ether	ND		25	22.8	91	25	22.9	92	0	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		1250	1300	104	1250	1280	102	2	55-126/17
64-17-5	Ethyl Alcohol	ND		500	489	98	500	473	95	3	46-145/30
100-41-4	Ethylbenzene	ND		25	29.7	119	25	29.1	116	2	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND		25	22.1	88	25	22.3	89	1	71-120/14
1634-04-4	Methyl Tert Butyl Ether	ND		25	22.5	90	25	23.2	93	3	72-117/14
91-20-3	Naphthalene	ND		25	32.3	129	25	33.7	135*	4	63-132/25
75-85-4	Tert-Amyl Alcohol	ND		250	211	84	250	218	87	3	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		25	22.5	90	25	22.6	90	0	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		250	202	81	250	213	85	5	63-129/27
762-75-4	Tert-Butyl Formate	ND		250	322	129	250	328	131*	2	46-130/33
108-88-3	Toluene	ND		25	29.2	117	25	28.8	115	1	80-120/14
1330-20-7	Xylene (total)	ND		75	86.3	115	75	83.9	112	3	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA42050-1	Limits
1868-53-7	Dibromofluoromethane	96%	97%	94%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	97%	93%	79-125%
2037-26-5	Toluene-D8	101%	100%	104%	85-112%
460-00-4	4-Bromofluorobenzene	95%	97%	97%	83-118%

(a) Sample was not preserved to a pH < 2.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA41991
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA41991-28MS	I46351.D	1000	03/17/17	WV	n/a	n/a	VI1298
FA41991-28MSD	I46352.D	1000	03/17/17	WV	n/a	n/a	VI1298
FA41991-28	I46340.D	100	03/17/17	WV	n/a	n/a	VI1298
FA41991-28	I46350.D	1000	03/17/17	WV	n/a	n/a	VI1298

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

FA41991-26, FA41991-27, FA41991-28, FA41991-29

CAS No.	Compound	FA41991-28 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	9760		25000	40400	123*	25000	36900	109	9	81-122/14
107-06-2	1,2-Dichloroethane	ND		25000	28900	116	25000	25900	104	11	75-125/14
108-20-3	Di-Isopropyl Ether	ND		25000	30400	122	25000	27200	109	11	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		1250000	1120000	90	1250000	1090000	87	3	55-126/17
64-17-5	Ethyl Alcohol	ND		500000	490000	98	500000	470000	94	4	46-145/30
100-41-4	Ethylbenzene	3290		25000	33700	122*	25000	30700	110	9	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND		25000	29400	118	25000	26500	106	10	71-120/14
1634-04-4	Methyl Tert Butyl Ether	ND		25000	27900	112	25000	25400	102	9	72-117/14
91-20-3	Naphthalene	615		25000	24800	97	25000	22300	87	11	63-132/25
75-85-4	Tert-Amyl Alcohol	17700		250000	288000	108	250000	264000	99	9	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		25000	28500	114	25000	25800	103	10	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		250000	242000	97	250000	218000	87	10	63-129/27
762-75-4	Tert-Butyl Formate	ND		250000	328000	131*	250000	320000	128	2	46-130/33
108-88-3	Toluene	45200 [a]		25000	73000	111	25000	69400	97	5	80-120/14
1330-20-7	Xylene (total)	17200		75000	109000	122	75000	99100	109	10	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA41991-28	FA41991-28	Limits
1868-53-7	Dibromofluoromethane	102%	101%	99%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	105%	103%	104%	104%	79-125%
2037-26-5	Toluene-D8	100%	101%	102%	103%	85-112%
460-00-4	4-Bromofluorobenzene	103%	102%	103%	97%	83-118%

(a) Result is from Run #2.

* = 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: FA41991
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP64176-MB	DD91784.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703

The QC reported here applies to the following samples: **Method:** SW846 8011

FA41991-1, FA41991-2, FA41991-3, FA41991-4, FA41991-5, FA41991-6, FA41991-7, FA41991-8, FA41991-9, FA41991-10, FA41991-11, FA41991-12, FA41991-13, FA41991-14, FA41991-15, FA41991-16, FA41991-17, FA41991-18, FA41991-19, FA41991-20

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	109%	63-137%

Method Blank Summary

Job Number: FA41991
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP64177-MB	DD91814.D	1	03/16/17	AN	03/15/17	OP64177	GDD2703

The QC reported here applies to the following samples: **Method:** SW846 8011

FA41991-21, FA41991-22, FA41991-23, FA41991-24, FA41991-25, FA41991-26, FA41991-27, FA41991-28, FA41991-29, FA41991-30, FA41991-31, FA41991-34, FA41991-35, FA41991-37

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	103%	63-137%

Blank Spike Summary

Job Number: FA41991
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP64176-BS	DD91782.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703

The QC reported here applies to the following samples: **Method:** SW846 8011

FA41991-1, FA41991-2, FA41991-3, FA41991-4, FA41991-5, FA41991-6, FA41991-7, FA41991-8, FA41991-9, FA41991-10, FA41991-11, FA41991-12, FA41991-13, FA41991-14, FA41991-15, FA41991-16, FA41991-17, FA41991-18, FA41991-19, FA41991-20

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.26	104	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	105%	63-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA41991
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP64176-BS2	DD91783.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703

The QC reported here applies to the following samples: **Method:** SW846 8011

FA41991-1, FA41991-2, FA41991-3, FA41991-4, FA41991-5, FA41991-6, FA41991-7, FA41991-8, FA41991-9, FA41991-10, FA41991-11, FA41991-12, FA41991-13, FA41991-14, FA41991-15, FA41991-16, FA41991-17, FA41991-18, FA41991-19, FA41991-20

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.27	108	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	105%	63-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA41991
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP64177-BS	DD91813.D	1	03/16/17	AN	03/15/17	OP64177	GDD2703

The QC reported here applies to the following samples: **Method:** SW846 8011

FA41991-21, FA41991-22, FA41991-23, FA41991-24, FA41991-25, FA41991-26, FA41991-27, FA41991-28, FA41991-29, FA41991-30, FA41991-31, FA41991-34, FA41991-35, FA41991-37

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.26	104	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	100%	63-137%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FA41991
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP64176-MS	DD91786.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703
FA41991-1 [a]	DD91785.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703

The QC reported here applies to the following samples: **Method:** SW846 8011

FA41991-1, FA41991-2, FA41991-3, FA41991-4, FA41991-5, FA41991-6, FA41991-7, FA41991-8, FA41991-9, FA41991-10, FA41991-11, FA41991-12, FA41991-13, FA41991-14, FA41991-15, FA41991-16, FA41991-17, FA41991-18, FA41991-19, FA41991-20

CAS No.	Compound	FA41991-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
106-93-4	1,2-Dibromoethane	0.010	J	0.236	0.22	89	72-134

CAS No.	Surrogate Recoveries	MS	FA41991-1	Limits
460-00-4	4-Bromofluorobenzene	88%	95%	63-137%

(a) All hits confirmed by dual column analysis.

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FA41991
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP64177-MS	DD91816.D	1	03/16/17	AN	03/15/17	OP64177	GDD2703
FA41991-21 [a]	DD91815.D	1	03/16/17	AN	03/15/17	OP64177	GDD2703

The QC reported here applies to the following samples: **Method:** SW846 8011

FA41991-21, FA41991-22, FA41991-23, FA41991-24, FA41991-25, FA41991-26, FA41991-27, FA41991-28, FA41991-29, FA41991-30, FA41991-31, FA41991-34, FA41991-35, FA41991-37

CAS No.	Compound	FA41991-21 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
106-93-4	1,2-Dibromoethane	0.044		0.243	0.23	77	72-134

CAS No.	Surrogate Recoveries	MS	FA41991-21	Limits
460-00-4	4-Bromofluorobenzene	95%	96%	63-137%

(a) All hits confirmed by dual column analysis.

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA41991
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP64176-DUP	DD91790.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703
FA41991-2 [a]	DD91789.D	1	03/15/17	AN	03/15/17	OP64176	GDD2703

The QC reported here applies to the following samples: **Method:** SW846 8011

FA41991-1, FA41991-2, FA41991-3, FA41991-4, FA41991-5, FA41991-6, FA41991-7, FA41991-8, FA41991-9, FA41991-10, FA41991-11, FA41991-12, FA41991-13, FA41991-14, FA41991-15, FA41991-16, FA41991-17, FA41991-18, FA41991-19, FA41991-20

CAS No.	Compound	FA41991-2 ug/l	Q	DUP ug/l	Q	RPD	Limits
106-93-4	1,2-Dibromoethane	0.45		0.39		14	28

CAS No.	Surrogate Recoveries	DUP	FA41991-2	Limits
460-00-4	4-Bromofluorobenzene	81%	91%	63-137%

(a) All hits confirmed by dual column analysis.

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA41991
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP64177-DUP	DD91818.D	1	03/16/17	AN	03/15/17	OP64177	GDD2703
FA41991-22	DD91817.D	1	03/16/17	AN	03/15/17	OP64177	GDD2703

The QC reported here applies to the following samples: **Method:** SW846 8011

FA41991-21, FA41991-22, FA41991-23, FA41991-24, FA41991-25, FA41991-26, FA41991-27, FA41991-28, FA41991-29, FA41991-30, FA41991-31, FA41991-34, FA41991-35, FA41991-37

CAS No.	Compound	FA41991-22 ug/l	Q	DUP ug/l	Q	RPD	Limits
106-93-4	1,2-Dibromoethane	ND		ND		nc	28

CAS No.	Surrogate Recoveries	DUP	FA41991-22	Limits
460-00-4	4-Bromofluorobenzene	99%	97%	63-137%

* = Outside of Control Limits.

PROJECT SUMMARY

Site Name	Banner Gulf	**Incident No**	32852
Name of Project Manager	W. Scot Ball	**Consultant**	Geological Resources, Inc.
Signature of Project Manager	W. Scott Ball	**Phone No.**	(704) 845-4010

IMPORTANT DIRECTIONS PLEASE READ!
Please list and itemize all work performed during the work period listed on the Certification Of Costs.
Please list items such as date of release, source of the release including lines and identification of all USTs .
Please indicate if a second release or multiple releases have occurred.
Indicate the volume and use of the UST including all USTs removed or closed.
Indicate the quantity and methods for sampling (i.e. Soil, Water, etc.)
Indicate the quantity and depth of borings and wells installed.
Indicate the phase of work involved and what reports were generated.
Indicate the amount of free product recovered during this period.
Provide a brief update on the performance of the remedial system, please also include maintenance activities.

Three 2,000-gallon gasoline USTs and one 1,000-gallon kerosene UST were removed from the site on March 26, 2013. CSA activities were completed at the site in January 2015. A ground water sampling event was conducted at the site on February 14, 2017.

TA 32852-08

2/14/17
2.281 Install 3 Bio-Socks
2.290 Cost for 3 Bio Socks, canisters and caps
4.031 Sample 5 monitoring
wells
4.051 Collect 1 surface water sample
4.090 Code #272; 6 ground water samples analyzed for VOCs by Method 6200B
4.091 Shipping costs
12.010 Cost for 1 mobilization

3/1/17
6.091 Pre-CAP Monitorig Report (subsequent)

APPENDIX B

Field Data Information Sheets

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/09/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP	Field Personnel: ZAC CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY	Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID:	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection:
MW-1	2"		X Bailer ___ Pump

X MW ___ IW ___ RW ___ Other ___
___ Private WSW ___ Public WSW

Screened Interval (ft.):	Total Well Depth (TWD) (ft.):
10 to 20	20.16

Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):	Free Product Thickness (ft.):
–	13.13	–

Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):	3 casing volumes (3 x CV) (gals.):
7.03	1.25	3.75

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.25	2.50	3.75				
Time (military)	1511	1513	1516					
PH (s.u.)	6.28	6.31						1516
Specific Conductivity (µS/cm)	87	89						
Water Temperature (°C)	22.28	22.73						
Turbidity (NTU)	25.8	1600+						
Dissolved Oxygen (mg/L)	0.97	1.51						

Sampling Data

Sampled By:	Sampling Time:	Duplicate: (Y) or N	If yes, Duplicate Time:
ZAC CAMPBELL	1516		1516

Notes: PURGE, HOT, LIMITED VOLUME - DRY AFTER 2.00 GAL

Signature: [signature]

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/09/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP		Field Personnel: ZAC CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY		Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-2	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 25.14
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.20		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 11.94	1 casing volume (CV = LWC x C) (gals.): 2.00		3 casing volumes (3 x CV) (gals.): 6.00

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	2.00	4.00	6.00				
Time (military)	1535	1538	1541	1544				1544
PH (s.u.)	6.63	6.59	6.49	6.44				
Specific Conductivity (µS/cm)	335	293	226	212				
Water Temperature (°C)	22.04	21.55	21.40	21.43				
Turbidity (NTU)	285	336	377	703				
Dissolved Oxygen (mg/L)	0.47	0.25	0.93	0.61				

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 1544	Duplicate: Y or N	If yes, Duplicate Time:

Notes: PURGE, HOT

Signature: [signature]

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 3/9/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP	Field Personnel: ZAC CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY	Ambient Air Temp (°F): 70°

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity)	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-3	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 25.42
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.12		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 12.30	1 casing volume (CV = LWC x C) (gals.): 2.00		3 casing volumes (3 x CV) (gals.): 6.00

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	2.00	4.00	6.00				
Time (military)	0947	0950	0954	0957				
PH (s.u.)	5.97	6.03	5.99	5.95				0957
Specific Conductivity (µS/cm)	70	80	94	99				
Water Temperature (°C)	22.95	22.39	22.51	22.42				
Turbidity (NTU)	15.0	61.5	45.3	125				
Dissolved Oxygen (mg/L)	1.44	0.92	0.86	0.68				

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 0957	Duplicate: Y or ~~N~~	If yes, Duplicate Time:

Notes: PURGE, HOT

Signature: [signature]

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/09/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP	Field Personnel: ZAC CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY	Ambient Air Temp (°F): 70°

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID:	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection:
MW-4	2"		
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 10 to 25	X Bailer ___ Pump
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.05		Total Well Depth (TWD) (ft.): 13.59
Length of water column (LWC = TWD – DGW) (ft.): 0.54	1 casing volume (CV = LWC x C) (gals.): 0.25		Free Product Thickness (ft.): —
			3 casing volumes (3 x CV) (gals.): 0.75

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	0.25	0.50	0.75				
Time (military)	0921							
PH (s.u.)								0921
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 0921	Duplicate: Y or N	If yes, Duplicate Time:

Notes: PURGE, LIMITED VOLUME - DRY AFTER 0.25 GAL

Signature: [signature]

DHEC

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/09/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP	Field Personnel: ZAC CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY	Ambient Air Temp (°F): 70°

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-6	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 11.5 to 21.5	Total Well Depth (TWD) (ft.): 20.51
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.06		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 7.45	1 casing volume (CV = LWC x C) (gals.): 1.25		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.25	2.50	3.75				
Time (military)	1039	1044	1048	1051				
PH (s.u.)	4.99	5.00	4.95	5.03				1051
Specific Conductivity (µS/cm)	204	206	208	209				
Water Temperature (°C)	19.65	19.41	19.38	19.24				
Turbidity (NTU)	25.3	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	2.27	2.77	2.86	2.45				

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 1051	Duplicate: Y or N	If yes, Duplicate Time:

Notes: PURGE

Signature: [signature]

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/09/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP		Field Personnel: Zac CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY		Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 66~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-7	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 12 to 22	Total Well Depth (TWD) (ft.): 21.22
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 12.58		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 8.64	1 casing volume (CV = LWC x C) (gals.): 1.50		3 casing volumes (3 x CV) (gals.): 4.50

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.50	3.00	4.50				
Time (military)	1015	1019	1021	1025				
PH (s.u.)	6.10	5.50	5.36	5.30				1025
Specific Conductivity (µS/cm)	31	30	31	31				
Water Temperature (°C)	19.09	18.81	18.69	18.60				
Turbidity (NTU)	19.6	820	1000+	1000+				
Dissolved Oxygen (mg/L)	3.02	3.37	2.62	2.62				

Sampling Data

Sampled By: Zac CAMPBELL	Sampling Time: 1025	Duplicate: Y or N	If yes, Duplicate Time:

Notes: PURGE

Signature: [signature]

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/09/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP	Field Personnel: ZAC CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY	Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0074998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity)	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-8	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 12 to 22	Total Well Depth (TWD) (ft.): 21.39
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 12.89		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 8.50	1 casing volume (CV = LWC x C) (gals.): 1.50		3 casing volumes (3 x CV) (gals.): 4.50

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.50	3.00	4.50				
Time (military)	1349	1351	1354	1356				1356
PH (s.u.)	5.39	5.36	5.37	5.38				
Specific Conductivity (µS/cm)	~~23.4~~58	55	53	52				
Water Temperature (°C)	21.11	20.32	20.20	20.29				
Turbidity (NTU)	43.1	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	2.13	1.95	2.69	1.89				

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 1356	Duplicate: Y or ~~N~~	If yes, Duplicate Time:

Notes: _____

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/09/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP	Field Personnel: ZAC CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY	Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 65~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID:	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection:
MW-9	2"		
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 12 to 22	X Bailer ___ Pump

Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):	Total Well Depth (TWD) (ft.):
—	14.02	21.42
Length of water column (LWC = TWD – DGW) (ft.): 7.40	1 casing volume (CV = LWC x C) (gals.): 1.25	Free Product Thickness (ft.): —
		3 casing volumes (3 x CV) (gals.): 3.75

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.25	2.50	3.75				
Time (military)	1156	1158	1200	1203				
PH (s.u.)	5.18	5.13	5.12	5.15				1203
Specific Conductivity (µS/cm)	55	54	59	61				
Water Temperature (°C)	21.50	21.27	21.05	21.20				
Turbidity (NTU)	17.2	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	4.52	4.14	4.24	4.10				

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 1203	Duplicate: Y or ~~N~~	If yes, Duplicate Time:

Notes: PURGE

Signature: [signature]

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/09/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP	Field Personnel: ZAC CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY	Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity)	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID:	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection:
MW-10	2"		
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 10 to 25	X Bailer ___ Pump
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 14.84		Total Well Depth (TWD) (ft.): 24.79
Length of water column (LWC = TWD – DGW) (ft.): 9.95	1 casing volume (CV = LWC x C) (gals.): 1.75		Free Product Thickness (ft.): —
			3 casing volumes (3 x CV) (gals.): 5.25

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.75	3.50	5.25				
Time (military)	1138	1140	1142	1145				
PH (s.u.)	5.17	5.11	5.10	5.05				1145
Specific Conductivity (µS/cm)	34	32	32	40				
Water Temperature (°C)	19.18	19.33	19.07	19.43				
Turbidity (NTU)	52.7	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	4.73	4.45	4.67	4.28				

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 1145	Duplicate: Y or N	If yes, Duplicate Time:

Notes: PURGE

Signature: _____

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/09/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP		Field Personnel: ZAC CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY		Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity)	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID:	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection:
MW-13	2"		X Bailer ___ Pump

X MW ___ IW ___ RW ___ Other_____
___ Private WSW ___ Public WSW

Screened Interval (ft.):	Total Well Depth (TWD) (ft.):
10 to 25	23.90

Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):	Free Product Thickness (ft.):
–	13.67	–

Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):	3 casing volumes (3 x CV) (gals.):
10.23	1.75	5.25

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.75	3.50	5.25				
Time (military)	1114	1118	1121	1124				
PH (s.u.)	5.53	5.52	5.49	5.43				1124
Specific Conductivity (µS/cm)	125	124	110	99				
Water Temperature (°C)	19.17	18.98	18.95	18.94				
Turbidity (NTU)	26.7	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	3.02	2.77	3.31	3.38				

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:
ZAC CAMPBELL	1124		

Notes: PURGE

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/09/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP	Field Personnel: ZAC CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY	Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 65~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-14	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 10 to 25	
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 12.31		Total Well Depth (TWD) (ft.): 23.86
Length of water column (LWC = TWD – DGW) (ft.): 11.55	1 casing volume (CV = LWC x C) (gals.): 2.00		Free Product Thickness (ft.): —
			3 casing volumes (3 x CV) (gals.): 6.00

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	2.00	4.00	6.00				
Time (military)	1421	1424	1427	1430				1430
PH (s.u.)	6.39	6.38	6.34	6.33				
Specific Conductivity (µS/cm)	167	167	166	168				
Water Temperature (°C)	20.47	20.23	20.10	20.11				
Turbidity (NTU)	34.9	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	3.20	3.13	3.19	2.90				

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 1430	Duplicate: Y or N	If yes, Duplicate Time:

Notes: PURGE

Signature: [signature]

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/09/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP		Field Personnel: Zac CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY		Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G007998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-15	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 10 to 25	Total Well Depth (TWD) (ft.): 24.25
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 14.76		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 9.49	1 casing volume (CV = LWC x C) (gals.): 1.50		3 casing volumes (3 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.50	3.00	4.50				
Time (military)	1446	1449	1452	1455				1455
PH (s.u.)	5.61	5.36	5.34	5.32				
Specific Conductivity (µS/cm)	87	88	88	89				
Water Temperature (°C)	21.55	20.58	21.25	20.58				
Turbidity (NTU)	16.4	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	4.11	4.15	3.72	3.63				

Sampling Data

Sampled By: Zac CAMPBELL	Sampling Time: 1455	Duplicate: Y or ~~N~~	If yes, Duplicate Time:

Notes: PURGE

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/08/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP	Field Personnel: ZAC CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY	Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID:	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection:
MW-19	2"		X Bailer ___ Pump

X MW ___ IW ___ RW ___ Other_____
___ Private WSW ___ Public WSW

Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):	Total Well Depth (TWD) (ft.):
—	16.78	24.49
Length of water column (LWC = TWD – DGW) (ft.): 7.71	**1 casing volume (CV = LWC x C) (gals.):** 1.25	**3 casing volumes (3 x CV) (gals.):** 3.75
		Free Product Thickness (ft.): —

Screened Interval (ft.): 10 to 25

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.25	2.50	3.75				
Time (military)	1446	1449	1451	1454				1454
PH (s.u.)	4.79	4.22	4.10	4.07				
Specific Conductivity (µS/cm)	69	67	70	75				
Water Temperature (°C)	20.98	21.03	20.96	20.82				
Turbidity (NTU)	101	1000+	1000+	999				
Dissolved Oxygen (mg/L)	4.90	5.24	4.73	4.10				

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or ~~N~~	If yes, Duplicate Time:
ZAC CAMPBELL	1454		

Notes: PURGE

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/08/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP	Field Personnel: ZAC CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY	Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity)	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-20	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 10 to 25	Total Well Depth (TWD) (ft.): 23.37
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.88		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 9.49	1 casing volume (CV = LWC x C) (gals.): 1.50		3 casing volumes (3 x CV) (gals.): 4.50

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.50	3.00	4.50				
Time (military)	1510	1512	1515	1519				1519
PH (s.u.)	4.44	4.31	4.34	4.40				
Specific Conductivity (µS/cm)	57	55	56	58				
Water Temperature (°C)	19.86	19.56	19.52	19.57				
Turbidity (NTU)	143	953	1000+	1000+				
Dissolved Oxygen (mg/L)	8.51	3.44	3.23	2.76				

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 1519	Duplicate: Y or N	If yes, Duplicate Time:

Notes: PURGE

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/08/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP		Field Personnel: ZAC CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY		Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 65~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID:	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection:
MW-21	2"		
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 8 to 23	X Bailer ___ Pump
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 12.99		Total Well Depth (TWD) (ft.): 20.34
Length of water column (LWC = TWD – DGW) (ft.): 7.35	1 casing volume (CV = LWC x C) (gals.): 1.25		Free Product Thickness (ft.): —
			3 casing volumes (3 x CV) (gals.): 3.75

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.25	2.50	3.75				
Time (military)	1326	1328	1330	1333				
PH (s.u.)	4.65	4.41	4.33	4.31				1333
Specific Conductivity (µS/cm)	31	33	32	31				
Water Temperature (°C)	20.10	19.99	19.96	20.05				
Turbidity (NTU)	242	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	5.47	5.70	5.59	5.34				

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 1333	Duplicate: Y or ~~N~~	If yes, Duplicate Time:

Notes: PURGE

Signature: [signature]

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/08/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP		Field Personnel: ZAC CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY		Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G007998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-22	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 23.81
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 13.76		Free Product Thickness (ft.): –
Length of water column (LWC = TWD – DGW) (ft.): 10.05	1 casing volume (CV = LWC x C) (gals.): 1.75		3 casing volumes (3 x CV) (gals.): 5.25

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.75	3.50	5.25				
Time (military)	1136	1138	1141	1144				
PH (s.u.)	4.23	4.20	4.31	4.33				1144
Specific Conductivity (µS/cm)	30	32	47	53				
Water Temperature (°C)	19.93	19.84	19.92	19.80				
Turbidity (NTU)	230	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	4.46	4.36	3.20	2.67				

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 1144	Duplicate: Y or ~~N~~	If yes, Duplicate Time:

Notes: PURGE

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 05/08/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP	Field Personnel: ZAC CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY	Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0074998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 65~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-23	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 9 to 24	Total Well Depth (TWD) (ft.): 22.23
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.43		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 8.80	1 casing volume (CV = LWC x C) (gals.): 1.50		3 casing volumes (3 x CV) (gals.): 4.50

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.50	3.00	4.50				
Time (military)	0934	0936	0939	0943				0943
PH (s.u.)	4.38	4.38	4.33	4.36				
Specific Conductivity (µS/cm)	57	55	52	52				
Water Temperature (°C)	19.70	19.64	19.48	19.45				
Turbidity (NTU)	127	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	1.64	1.84	2.28	2.11				

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 0943	Duplicate: Y or ~~N~~	If yes, Duplicate Time:

Notes: PURGE

Signature: [signature]

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/08/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP	Field Personnel: ZAC CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY	Ambient Air Temp (°F): 70°

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity)	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-24	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other_____ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 8 to 23		Total Well Depth (TWD) (ft.): 21.11
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 11.37		Free Product Thickness (ft.): –
Length of water column (LWC = TWD – DGW) (ft.): 9.74	1 casing volume (CV = LWC x C) (gals.): 1.50		3 casing volumes (3 x CV) (gals.): 4.50

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.50	3.00	4.50				
Time (military)	0907	0909	0911	0914				0914
PH (s.u.)	4.31	4.33	4.30	4.33				
Specific Conductivity (µS/cm)	32	32	33	32				
Water Temperature (°C)	18.46	18.49	18.51	18.48				
Turbidity (NTU)	214	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	5.25	5.65	5.59	5.52				

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 0914	Duplicate: Y or N	If yes, Duplicate Time:

Notes: PURGE

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/08/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP	Field Personnel: ZAC CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY	Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity)	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID:	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection:
MW-25	2"		X Bailer ___ Pump

X MW ___ IW ___ RW ___ Other_____
___ Private WSW ___ Public WSW

Screened Interval (ft.):	Total Well Depth (TWD) (ft.):
8 to 23	20.83

Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):	Free Product Thickness (ft.):
–	11.49	–

Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x C) (gals.):	3 casing volumes (3 x CV) (gals.):
9.34	1.50	

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.50	3.00	4.50				
Time (military)	1259	1301	1304	1306				1306
PH (s.u.)	5.26	5.38	5.47	5.51				
Specific Conductivity (µS/cm)	48	53	55	58				
Water Temperature (°C)	20.39	20.01	19.55	20.15				
Turbidity (NTU)	377	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	1.44	1.92	2.03	1.92				

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:
ZAC CAMPBELL	1306		

Notes: PURGE

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/08/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP		Field Personnel: ZAC CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY		Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID:	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection:
MW-26	2"		X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 6 to 21		Total Well Depth (TWD) (ft.): 19.69
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 10.76		Free Product Thickness (ft.): –
Length of water column (LWC = TWD – DGW) (ft.): 8.93	1 casing volume (CV = LWC x C) (gals.): 1.50		3 casing volumes (3 x CV) (gals.): 4.50

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.50	3.00	4.50				
Time (military)	1219	1222	1225	1228				1228
PH (s.u.)	4.44	4.38	4.36	4.41				
Specific Conductivity (µS/cm)	21	21	21	21				
Water Temperature (°C)	17.31	17.08	17.05	17.23				
Turbidity (NTU)	78.4	1000+	1000+	1000+				
Dissolved Oxygen (mg/L)	2.52	3.10	3.22	2.76				

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 1228	Duplicate: Y or N	If yes, Duplicate Time:

Notes: PURGE

Signature: [signature]

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/08/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP		Field Personnel: ZAC CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY		Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G007998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-27	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 25		Total Well Depth (TWD) (ft.): 24.72
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 15.37		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 9.35	1 casing volume (CV = LWC x C) (gals.): 1.50		3 casing volumes (3 x CV) (gals.): 4.50

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.50	3.00	4.50				
Time (military)	1104	1107	1111	1114				
PH (s.u.)	4.13	4.10	4.10	4.09				1114
Specific Conductivity (µS/cm)	58	52	54	56				
Water Temperature (°C)	20.12	19.99	19.99	19.98				
Turbidity (NTU)	144	1000+	1000+	988				
Dissolved Oxygen (mg/L)	4.29	3.99	3.86	4.03				

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 1114	Duplicate: Y or ~~N~~	If yes, Duplicate Time:

Notes: PURGE

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/08/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP		Field Personnel: ZAC CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY		Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-28	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 10 to 25	Total Well Depth (TWD) (ft.): 21.44
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 15.72		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 5.72	1 casing volume (CV = LWC x C) (gals.): 1.00		3 casing volumes (3 x CV) (gals.): 3.00

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.00	2.00	3.00				
Time (military)	1034	1036	1039	1042				1042
PH (s.u.)	3.62	3.63	3.64	3.64				
Specific Conductivity (µS/cm)	382	372	355	365				
Water Temperature (°C)	19.80	19.77	19.89	19.76				
Turbidity (NTU)	20.7	415	535	588				
Dissolved Oxygen (mg/L)	5.19	5.29	5.30	5.16				

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 1042	Duplicate: Y or ~~N~~	If yes, Duplicate Time:

Notes: PURGE

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date:	Site ID #:	Site Name:	Field Personnel:
03/08/17	18686	TISDALE'S QUICK STOP	ZAC CAMPBELL

County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):
WILLIAMSBURG	SCOTT BALL	PARTLY CLOUDY	70°

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID:	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection:
MW-29	2"		X Bailer ___ Pump

X MW ___ IW ___ RW ___ Other_____ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 10 to 25	Total Well Depth (TWD) (ft.): 24.03
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 14.53	Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 9.50	1 casing volume (CV = LWC x C) (gals.): 1.50	3 casing volumes (3 x CV) (gals.): 4.50

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.50	3.00	4.50				
Time (military)	1004	1007	1011	1014				1014
PH (s.u.)	4.11	4.02	3.99	4.01				
Specific Conductivity (µS/cm)	52	48	54	54				
Water Temperature (°C)	19.58	19.55	19.48	19.36				
Turbidity (NTU)	185	1000+	744	409				
Dissolved Oxygen (mg/L)	5.58	5.38	5.57	5.11				

Sampling Data

Sampled By:	Sampling Time:	Duplicate: Y or ~~N~~	If yes, Duplicate Time:
ZAC CAMPBELL	1014		

Notes: PURGE

Signature: [signature]

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/08/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP	Field Personnel: ZAC CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY	Ambient Air Temp (°F): 70°

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-30	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 7 to 22		Total Well Depth (TWD) (ft.): 18.79
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.71		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 5.08	1 casing volume (CV = LWC x C) (gals.): 1.00		3 casing volumes (3 x CV) (gals.): 3.00

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.00	2.00	3.00				
Time (military)	0840	0842	0844	0846				0846
PH (s.u.)	4.19	4.21	4.18	4.17				
Specific Conductivity (µS/cm)	29	29	29	29				
Water Temperature (°C)	19.31	19.26	19.27	19.27				
Turbidity (NTU)	44.1	563	1000+	1000+				
Dissolved Oxygen (mg/L)	5.21	5.29	5.42	5.07				

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 0846	Duplicate: Y or N	If yes, Duplicate Time:

Notes: PURGE

Signature: [signature]

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/8/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP	Field Personnel: ZAC CAMPBELL
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY	Ambient Air Temp (°F): 70°

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-31	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other ___Private WSW ___Public WSW	Screened Interval (ft.): 10 to 20		Total Well Depth (TWD) (ft.): 20.27
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 14.53		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 5.74	1 casing volume (CV = LWC x C) (gals.): 1.00		3 casing volumes (3 x CV) (gals.): 3.00

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.00	2.00	3.00				
Time (military)	0809	0811	0815					0815
PH (s.u.)	4.63	4.24	4.18					
Specific Conductivity (µS/cm)	46	44	43					
Water Temperature (°C)	20.77	20.74	20.58					
Turbidity (NTU)	1000+	1000+	1000+					
Dissolved Oxygen (mg/L)	5.48	5.74	5.63					

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 0815	Duplicate: Y or ~~N~~	If yes, Duplicate Time:

Notes: PURGE, LIMITED VOLUME - DRY AFTER 2.00 GAL

Signature: [signature]

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/09/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP		Field Personnel: ZAC CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY		Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity)	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-1A	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): to unknown	Total Well Depth (TWD) (ft.): 21.24
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 12.81		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 8.43	1 casing volume (CV = LWC x C) (gals.): 1.50		3 casing volumes (3 x CV) (gals.): 4.50

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.50	3.00	4.50				
Time (military)	1236	1238	1240	1243				1243
PH (s.u.)	6.53	6.52	6.47	6.38				
Specific Conductivity (µS/cm)	185	173	160	154				
Water Temperature (°C)	20.86	20.54	20.61	20.81				
Turbidity (NTU)	30.5	353	259	313				
Dissolved Oxygen (mg/L)	1.03	0.77	1.07	0.72				

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 1243	Duplicate: Y or N	If yes, Duplicate Time:

Notes: PURGE

Signature: [signature]

DHEC

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/09/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP		Field Personnel: ZAC CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY		Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0074998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-2A	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): to unknown	Total Well Depth (TWD) (ft.): 20.68
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.42		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): ~~4.26~~ 7.26	1 casing volume (CV = LWC x C) (gals.): 1.25		3 casing volumes (3 x CV) (gals.): 3.75

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.25	2.50	3.75				
Time (military)	1217	1219	1221	1224				
PH (s.u.)	5.76	5.79	5.75	5.58				1224
Specific Conductivity (µS/cm)	76	84	82	55				
Water Temperature (°C)	20.41	20.12	20.18	18.90				
Turbidity (NTU)	13.7	37.8	40.2	62.6				
Dissolved Oxygen (mg/L)	0.76	1.31	1.53	7.76				

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 1224	Duplicate: Y or N	If yes, Duplicate Time:

Notes: PURGE

Signature: [signature]

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/09/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP		Field Personnel: ZAC CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY		Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID:	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection:
MW-3A	2"		X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): to unknown	
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 12.81		Total Well Depth (TWD) (ft.): 20.76
Length of water column (LWC = TWD – DGW) (ft.): 7.95	1 casing volume (CV = LWC x C) (gals.): 1.25		Free Product Thickness (ft.): –
			3 casing volumes (3 x CV) (gals.): 3.75

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.25	2.50	3.75				
Time (military)	1300	1303	1305	1307				1307
PH (s.u.)	5.52	5.38	5.32	5.26				
Specific Conductivity (µS/cm)	57	57	56	56				
Water Temperature (°C)	20.69	19.69	19.65	20.00				
Turbidity (NTU)	75.6	229	200	232				
Dissolved Oxygen (mg/L)	0.72	1.15	1.28	1.50				

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 1307	Duplicate: (Y) or N	If yes, Duplicate Time: 1307

Notes: PURGE

Signature:

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/09/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP	Field Personnel: ZAC CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY	Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID:	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection:
MW-4A	2"		X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): to unknown	Total Well Depth (TWD) (ft.): 20.74
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.18		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 7.56	1 casing volume (CV = LWC x C) (gals.): 1.25		3 casing volumes (3 x CV) (gals.): 3.75

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	1.25	2.50	3.75				
Time (military)	1326	1328	1331	1334				1334
PH (s.u.)	5.41	5.42	5.41	5.51				
Specific Conductivity (µS/cm)	119	119	119	122				
Water Temperature (°C)	20.66	20.23	20.86	20.98				
Turbidity (NTU)	43.5	116	110	232				
Dissolved Oxygen (mg/L)	0.90	1.50	1.11	~~8.37~~ 1.23				

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 1334	Duplicate: Y or N	If yes, Duplicate Time:

Notes: PURGE, HOT

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/09/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP		Field Personnel: ZAC CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY		Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G0079998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: TW-1 MW	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 41 to 46		Total Well Depth (TWD) (ft.): 45.76
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 14.08		Free Product Thickness (ft.): —
Length of water column (LWC = TWD – DGW) (ft.): 31.68	1 casing volume (CV = LWC x C) (gals.): 5.00		3 casing volumes (3 x CV) (gals.): 15.00

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	5.00	10.00	15.00				
Time (military)	0846	0852	0858	0904				0904
PH (s.u.)	6.58	6.00	5.88	5.89				
Specific Conductivity (µS/cm)	86	84	86	86				
Water Temperature (°C)	23.35	21.84	21.66	21.49				
Turbidity (NTU)	7.0	7.2	6.3	7.6				
Dissolved Oxygen (mg/L)	3.64	1.56	1.39	1.91				

Sampling Data

Sampled By: ZAC CAMPBELL	Sampling Time: 0904	Duplicate: Y or ~~N~~	If yes, Duplicate Time:

Notes: PURGE

Signature: _____

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 03/08/17	Site ID #: 18686	Site Name: TISDALE'S QUICK STOP		Field Personnel: ZAC CAMPBELL	
County: WILLIAMSBURG	Project Manager: SCOTT BALL	General Weather Conditions: PARTLY CLOUDY		Ambient Air Temp (°F): 70°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) HANNA	G007998	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 66~~ (Dissolved Oxygen) HANNA	G007998	(Y) or N			
~~LaMotte~~ (Turbidity) HANNA	G007998	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: ~~PW~~ TW-2	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 46 to 51		Total Well Depth (TWD) (ft.): 47.39
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 12.67		Free Product Thickness (ft.): –
Length of water column (LWC = TWD – DGW) (ft.): 34.72	1 casing volume (CV = LWC x C) (gals.): 5.50		3 casing volumes (3 x CV) (gals.): 16.50

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	5.50	11.00	16.50				
Time (military)	1356	1404	1411	1420				1420
PH (s.u.)	5.44	5.58	5.54	5.58				
Specific Conductivity (µS/cm)	55	84	163	165				
Water Temperature (°C)	19.80	20.18	19.95	20.32				
Turbidity (NTU)	183	435	116	148				
Dissolved Oxygen (mg/L)	3.88	2.63	2.82	2.54				

Sampling Data

Sampled By: ZAC CAMPBELL | Sampling Time: 1420 | Duplicate: Y or N | If yes, Duplicate Time:

Notes: PURGE

Signature: [signature]

APPENDIX C

Disposal Manifest

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 1

3. Generator's Name and Mailing Address: TISDALE'S QUICK STOP, 1989 THURGOOD MARSHALL HWY, KINGSTREE, SC

4. Generator's Phone ( )

5. Transporter 1 Company Name: GEOLOGICAL RESOURCES, INC.

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone: (704) 845-4010

7. Transporter 2 Company Name: HERR Inc

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone: 910-640-2607

9. Designated Facility Name and Site Address: CWS, 303 S. MAULTSBY ST., WHITEVILLE, NC

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone: 910-640-2605

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non-Reg. Petroleum Contact Purge Water		DM	60	GAL
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

GENERATOR

Printed/Typed Name	Signature	Date (Month / Day / Year)
TISDALE QUICK STOP	[signature] for TISDALES	3 / 8 / 17

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)
W. Stubbs - GRI	[signature]	3 / 27 / 17

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)
Scott Strickland	[signature]	3 / 27 / 17

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date (Month / Day / Year)
TYLAN COX	[signature]	3 / 27 / 17

NON-HAZARDOUS WASTE

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Rev. 3/95

APPENDIX D

Contractor Checklist

Contractor Checklist

For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, the No box should be checked and a thorough description of the reason must be provided.

Item #	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?	X		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?			X
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided?	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	X		
24	If free-product is present, has the thickness been provided?			X
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?	X		
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	X		
34	Has the current and historical laboratory data been provided in tabular format?	X		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)	X		
40	Has the site potentiometric map been provided? (Figure 5)	X		
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

Explanation for missing or incomplete information.

dhec
Healthy People. Healthy Communities

APR 1 3 2017



MR MARTY EASLER
196 RICHBURG ROAD
GREELEYVILLE SC 29056

Re: Aggressive Fluid and Vapor Recovery (AFVR) Directive
Tisdale's Quick Stop, 1989 Thurgood Marshall Blvd, Kingstree SC 29056
UST Permit # 18686; CA # 54506
Release reported March 30, 2001
Monitoring Report received March 31, 2017
Williamsburg County

Dear Mr. Easler:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) recognizes your commitment to continue work at this site using Geological Resources, Inc as your contractor.

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations, an Aggressive Fluid and Vapor Recovery (AFVR) event may proceed immediately upon receipt of this letter as outlined in this directive and the UST Quality Assurance Program Plan (QAPP) Revision 3.1. Please be aware that the AFVR Procedures have been updated. One 96-hour event utilizing monitoring wells MW-2A, RW-3A and RW-4A should be performed. The stingers shall be lowered at six inch intervals starting at the water table interface to a target depth of 20 feet in the wells. Please advance to the target depth within the first eight (8) hours of the event. Thereafter, the stinger should be adjusted to achieve the highest vapor recovery while maintaining dewatering of the smear zone. Off-gas treatment will be necessary. A copy of DHEC QAPP Revision 3.1 for the Underground Storage Tank Division is available at http://www.scdhec.gov/Environment/docs/DHEC%20UST%20QAPP_Rev-3.1(2).pdf

As soon as the beginning date of the event has been scheduled, please contact Nicholas Gathings at gathinnr@dhec.sc.gov.

The AFVR Report should be submitted within 90 days from the date of this correspondence. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval is obtained from the UST Management Division. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved by DHEC for the cost to be paid. DHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, DHEC reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

DHEC grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The transport and disposal must be conducted in accordance with the QAPP. If the CoC concentrations based on laboratory analysis are below RBSLs, please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence concerning this site, please reference UST Permit #18686. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-0605, by fax at (803) 898-0673, or by e-mail at gathinnr@dhec.sc.gov.

Sincerely,

Nicholas Gathings, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Geological Resources, Inc. 3502 Hayes Rd., Monroe, North Carolina 28110 (w/enc.)
Technical file (w/enc.)

Approved Cost Agreement 54506

Facility: 18686 TISDALES QUICK STOP
GATHINNR
PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	Amount
19 RPT/PROJECT MNGT & COORDINATIO				
	PRT REPORT PREPARATION	0.1200	$22,742.250	2,729.07
23 EFR				
	A4 96 HOUR EVENT	1.0000	$12,567.500	12,567.50
	C4 OFF GAS TREATMENT 96 HOUR	1.0000	$780.000	780.00
	D SITE RECONNAISSANCE	1.0000	$203.250	203.25
	F1 EFFLUENT DISPOSAL	20,000.0000	$0.440	8,800.00
	G AFVR EQUIPMENT MOB	1.0000	$391.500	391.50
			Total Amount	25,471.32

Geological Resources, Inc.





June 7, 2017

Mr. Nicholas Gathings
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201-1708

Re: AFVR Report
Tisdales Quick Stop
1989 Thurgood Marshall Blvd.
Kingstree, Williamsburg County
UST Permit #: 18686
CA #: 54506
GRI Project No. 1543

Dear Mr. Gathings:

This report presents the results of the aggressive fluid-vapor recovery (AFVR) event conducted in May 2017 at the above referenced site. The activities were conducted in accordance with the requirements outlined in correspondence from the SCDHEC dated April 13, 2017 and addressed to Mr. Marty Easler. The purpose of the activities was to remove residual free-phase product and/or reduce dissolved phase contaminant concentrations in monitoring wells MW-2A, MW-3A and MW-4A. The following Figures, Tables and Appendix have been included:

Figure 1:	Site Location Map
Figure 2:	Site Map
Table 1:	AFVR Event Chronology – May 8 – May 12, 2017
Table 2:	Summary of Monitoring Well Gauging Data
Appendix A:	AFVR Report, Calculations, Disposal Manifests

The AFVR contractor, Hazmat Emergency Response and Remediation, Inc. (HERR), arrived on-site on May 8, 2017 for the AFVR event. The event was conducted on monitoring wells MW-2A, MW-3A and MW-4A. General weather conditions were sunny/fair with an ambient air temperature of approximately 72°F at the time of system start-up. No free product was measured in any of the extraction wells prior to the event. AFVR activities were conducted for ninety-six (96) hours on MW-2A, MW-3A and MW-4A using a vacuum truck with a maximum vacuum rating of 25 in. Hg and a capacity of 325 cubic feet per minute.

3502 Hayes Road • Monroe, North Carolina 28110
113 West Firetower Road, Suite G • Winterville, North Carolina 28590
Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012

During the course of the event, the vacuum at the wells remained steady at 20 in. Hg. Please note that the vacuum truck was equipped with an activated charcoal filter for off-gas treatment of vapor phase hydrocarbons. A total of 23,602 gallons of liquid were removed during the event. However, there was no measureable amount of liquid phase free product noted in the tanker. No measurable free product was present in any of the vacuum wells (MW-2A, MW-3A and MW-4A) at the conclusion of the event. Based on data collected during the AFVR event, an estimated total of 15.459 pounds (approximately 2.47 gallons) of vapor phase hydrocarbons were calculated to have been removed during the event.

If you have any comments or questions concerning this project, please do not hesitate to contact the undersigned at (704) 845-4010.

Sincerely,
Geological Resources, Inc.

W. Scott Ball
Project Manager



Randy A. Smith, P.G.
License No. 2323

Enclosures

cc: Mr. Marty Easler
file

FIGURES

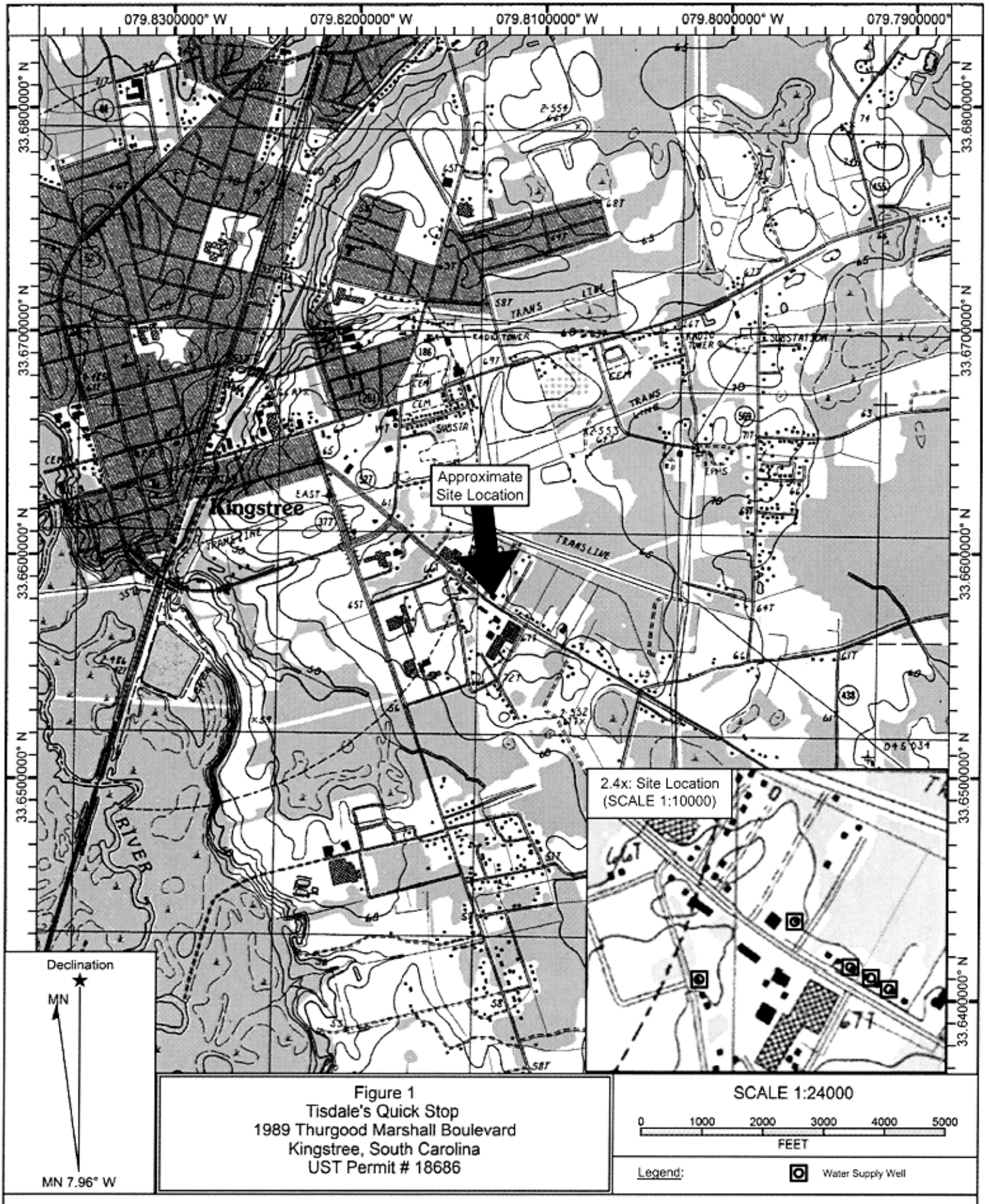


Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit # 18686

SCALE 1:24000

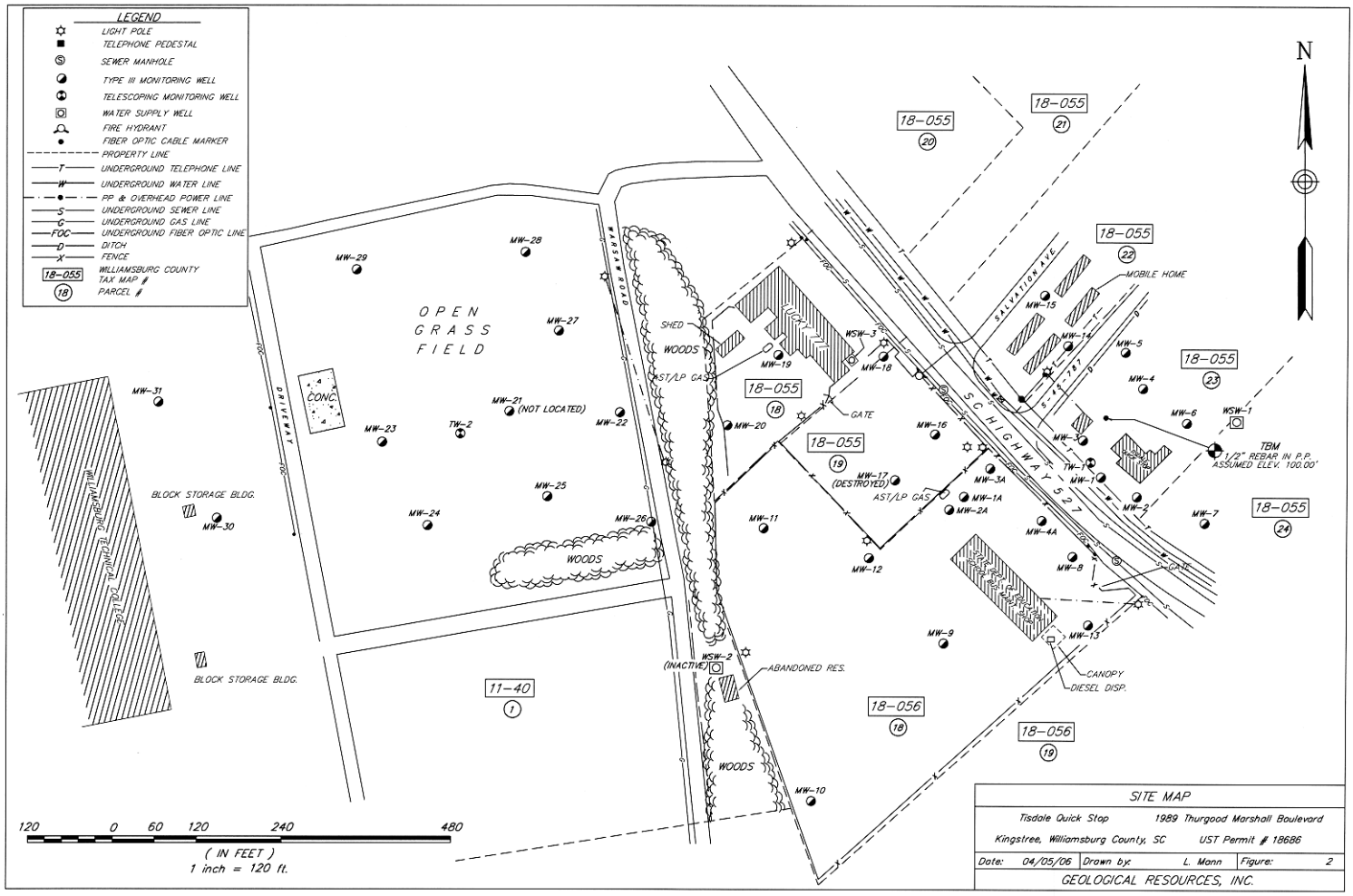
0 1000 2000 3000 4000 5000
FEET

Legend: Water Supply Well

Name: Topographic Map
Date: 09/16/14
Scale: 1 inch = 2,000 ft.

Location: 033.6579897° N 079.8127613° W

Generated by ECH at Geological Resources, Inc.



SITE MAP

Tisdale Quick Stop 1989 Thurgood Marshall Boulevard

Kingstree, Williamsburg County, SC UST Permit # 18686

Date: 04/05/06	Drawn by: L. Mann	Figure: 2

GEOLOGICAL RESOURCES, INC.

TABLES

TABLE 1
AFVR EVENT CHRONOLOGY
MAY 8 - 12, 2017
TISDALE'S QUICK STOP
UST PERMIT #18686

Task	Hours	Personnel	Equipment	Company
Gauge Liquid Levels in MW-2A, MW-3A and MW-4A	8:00 5/8/17	Vacuum Truck Operator	Interface Probe	HERR
Vacuum Truck Setup for Fluid Removal in MW-2A, MW-3A and MW-4A	8:00 - 8:30 5/8/17	Vacuum Truck Operator	Vacuum Truck	HERR
Fluid Recovery in MW-2A, MW-3A and MW-4A	8:30 5/8/17 - 8:30 5/12/17	Vacuum Truck Operator	Vacuum Truck	HERR
Gauge Liquid Levels in MW-2A, MW-3A and MW-4A	8:45 5/12/17	Vacuum Truck Operator	Interface Probe	HERR

TABLE 2
SUMMARY OF MONITORING WELL GAUGING DATA
TISDALE'S QUICK STOP
UST PERMIT #18686

Well No.	Date	Time	Depth to Free Product	Depth to Ground Water	Free Product
MW-2A	5/8/2017	8:05	---	12.86	---
MW-3A		8:05	---	12.74	---
MW-4A		8:10	---	13.00	---
MW-2A	05/12/17	8:45	---	15.14	---
MW-3A		8:45	---	16.03	---
MW-4A		8:45	---	14.85	---

Note:
• Data reported in feet.

APPENDIX

APPENDIX A

AFVR Report, Calculations, Disposal Manifests

HAZMAT EMERGENCY RESPONSE AND REMEDIATION, INC.
PO Box 2345 · 303 South Maultsby Street · Whiteville, NC 28472 · Phone: 910-640-2607
Fax: 910-640-2609 · e-mail: herrteam@hotmail.com · www.herrteam.com

Monday, June 5, 2017

Scott Ball
Geological Resources, Inc.
3502 Hayes Rd
Monroe, NC 28110

Re: Site Name: Tisdale's Quick Stop
Kingstree, SC
UST Permit #: 18686

Scott,

Hazmat Emergency Response and Remediation, Inc. (HERR) completed one 96 hour Aggressive Fluid Vapor Recovery (AFVR) event at the above site on May 8 – May 12, 2017. Included is the documentation for the event. The 96 hour event was conducted on monitoring wells MW-2A, MW-3A, and MW-4A.

If you have any questions, please do not hesitate to contact our office.

Sincerely,

Marc Cox
HERR Project Manager

Tisdale's Quick Stop
Kingstree, SC
May 8 - May12, 2017

AFVR

HERR mobilized personnel and equipment to Tisdale's Quick Stop on 05/08/17. The ambient temperature was 72 degrees F and weather conditions were sunny/fair. The depths to product and water were measured prior to and subsequent to the AFVR event (See attached data). Personnel from Geological Resources, Inc. (GRI) were on site to supervise the event.
The 96 Hour AFVR event was conducted using a Global Vacuum Liquid Ring Pump with off gas treatment through a vapor phase granular activated carbon scrubber. The vacuum unit is capable of providing 325 CFM at 25 inches of mercury.

Pollutant Mass Removal

Total weight of 15.459 pounds of petroleum in the vapor phase (total non-methane organic emissions) was removed during the 96 hour AFVR event. This amount is based on data collected during the AFVR event (see attached data sheets).

Liquid Disposal

Approximately 23,602 gallons of petroleum contact water was collected during the AFVR event (See attached disposal manifest)

APPENDICES

A. AFVR FIELD NOTES
B. POLLUTANT MASS REMOVAL DATA SHEET
C. LIQUID DISPOSAL MANIFEST

APPENDIX A

AFVR FIELD NOTES

HERR, Inc.

AFVR – Field Notes

Site Name: TISDALE'S QUICK STOP Location: KINGSTREE, SC

AFVR Contractor: HERR, Inc Personnel: Steve \ Dale

Date: 5/8-12/17 Ambient Air Temperature and General Weather Condition: 72° Sunny-Fair

Start Time 1: 8:30 Stop Time 1: 8:30 Start Time 2: _____ Stop Time 2: _____

Total volume of water removed during the 8-hour AFVR Event: 23,602 gal

Total volume of product removed during the 8-hour AFVR Event: No Free Product

Product Recovery Rate: _____

Monitoring Well	Depth to product prior to stinger placement (ft. below TOC)	Depth to water prior to stinger placement (ft. below TOC)	Depth to product at cessation of vacuuming (ft. below TOC)	Depth to water at cessation of vacuuming (ft. below TOC)	Estimated volume of water removed during this event	Relevant Observations
MW 2 R	---	12.82	---	15.14		
MW 3 R	---	12.74	---	16.03	23,602 gallons	
MW 4 R	---	13.0	---	14.85		

Aggressive Fluid/Vapor Recovery Notes

vacuum conversion: (inches of water X 0.07355 = inches of mercury)

		MW-2A	MW-3A	MW-4A	MW-	Stinger Placement			
	Time	Vacuum at Targeted Well (in. Hg)	Vacuum at Targeted Well (in. Hg)	Vacuum at Targeted Well (in. Hg)	Vacuum at Targeted Well (in. Hg)	Stinger Depth	Product Depth	Water Level	Notes
	MW2A					13.5	---	12.84	
	MW3A					13.5	---	12.74	
	MW4A					13.5	---	13.00	
Mon									
	10:00	20	20	20		15.5'			
	12:00	20	20	20		17.5'			
	4:00	20	20	20		20'			
	8:00	20	20	20		20'			
Tue	8:00	20	20	20					
	10:00	20	20	20		20'			
	12:00	20	20	20					
	4:00	20	20	20					
	8:00	20	20	20					
	[redacted]								
Wed	8:00	20	20	20					
	10:00	20	20	20					
	12:00	20	20	20					
	4:00	20	20	20					
	8:00	20	20	20					
Th	8:00	20	20	20					
	12:00	20	20	20					
	4:00	20	20	20					
	8:00	20	20	20					

Vacuum at Pump: 24

Fri
8:00 20 20 20

1

Aggressive Fluid/Vapor Recovery Notes

Start Time 8:30	PID at stack (ppm)	PID after off-gas treatment (carbon) (ppm)	Velocity (ft. / min.)	Temperature (Farenheit)	Relative Humidity (%)	PID Calibration
Mon. 5-8 9:00	577	113	824	98	56	SER
9:30	558	107	828	104	56	
10:00	542	104	834	110	56	
10:30	524	101	839	123	56	
11:00	517	98	845	124	56	
11:30	508	97	849	124	56	
12:00	596	94	854	124	56	
12:30	582	91	856	124	56	
1:00	581	90	860	124	56	
1:30	579	89	861	124	56	
2:00	576	86	866	125	56	
2:30	573	84	870	125	56	
3:00	570	85	872	125	56	
3:30	570	83	878	125	56	
4:00	564	81	881	125	56	
4:30	562	79	884	123	56	
5:00	558	78	890	123	56	
6:00	553	76	897	123	56	
7:00	548	71	904	121	56	
8:00	541	70	912	121	56	
9:00	530	67	917	120	56	
10:00	524	66	922	118	56	
11:00	526	63	928	118	56	
12:00	517	62	933	118	56	

2

Aggressive Fluid/Vapor Recovery Notes

	Time	PID at stack (ppm)	PID after off-gas treatment (carbon) (ppm)	Velocity (ft. / min.)	Temperature (Farenheit)	Relative Humidity (%)	PID Calibration
Tue 5-9	8:00	407	49	1076	120	55	
	10:00	402	48	1089	124	55	
	12:00	403	45	1098	125	55	
	2:00	396	40	1104	126	55	
	4:00	388	32	1116	125	54	
	6:00	381	23	1129	122	54	
	8:00	375	19	1141	121	54	
	10:00	374	19	1154	120	54	
	12:00	371	18	1172	118	54	
Wed 5-10	8:00	332	0	1286	119	55	
	10:00	329	0	1298	121	55	
	12:00	327		1314	122	55	
	2:00	322		1326	121	55	
	4:00	318		1331	118	55	
	6:00	315		1344	118	55	
	8:00	312		1359	117	55	
	10:00	308		1370	116	55	
	12:00	305		1382	116	55	
Thu 5-11	8:00	254		1471	118	54	
	10:00	252		1486	120	54	
	12:00	253		1494	121	54	

3

Aggressive Fluid/Vapor Recovery Notes

	Time	PID at stack (ppm)	PID after off-gas treatment (carbon) (ppm)	Velocity (ft. / min.)	Temperature (Farenheit)	Relative Humidity (%)	PID Calibration
5-11	2:00	249	0	1520	122	54	
	4:00	247		1528	121	54	
	6:00	244		1536	120	54	
	8:00	240		1542	118	54	
	10:00	236		1558	117	54	
	12:00	231		1666	117	54	
5-12	8:00	207	↓	1824	119	56	
	9:30	Shut	Down				

APPENDIX B

POLLUTANT MASS REMOVAL DATA SHEETS

Site: Tisdale's Quick Stop
UST Permit #: 18686

Calculations - Flow at DSCFM							
Date	Time	Velocity (ft/min)	Cross Sec. Stack Area (ft^2)	Temperature (F)	Rel. Humidity	Water Vapor (%)	Qstd (flow)
5/8/17	8:30						
5/8/17	9:00	824	0.022	98	56	0.022022588	16.78
5/8/17	9:30	828	0.022	104	56	0.026548572	16.60
5/8/17	10:00	834	0.022	110	56	0.031905988	16.45
5/8/17	10:30	839	0.022	123	56	0.047090744	15.93
5/8/17	11:00	845	0.022	124	56	0.048501285	15.99
5/8/17	11:30	849	0.022	124	56	0.048501285	16.07
5/8/17	12:00	854	0.022	124	56	0.048501285	16.16
5/8/17	12:30	856	0.022	124	56	0.048501285	16.20
5/8/17	1:00	860	0.022	124	56	0.048501285	16.28
5/8/17	1:30	861	0.022	124	56	0.048501285	16.30
5/8/17	2:00	866	0.022	125	56	0.049951451	16.34
5/8/17	2:30	870	0.022	125	56	0.049951451	16.41
5/8/17	3:00	872	0.022	125	56	0.049951451	16.45
5/8/17	3:30	878	0.022	125	56	0.049951451	16.56
5/8/17	4:00	881	0.022	125	56	0.049951451	16.62
5/8/17	4:30	884	0.022	123	56	0.047090744	16.78
5/8/17	5:00	890	0.022	123	56	0.047090744	16.90
5/8/17	6:00	897	0.022	123	56	0.047090744	17.03
5/8/17	7:00	904	0.022	121	56	0.044384202	17.27
5/8/17	8:00	912	0.022	121	56	0.044384202	17.42
5/8/17	9:00	917	0.022	120	56	0.043086119	17.57
5/8/17	10:00	922	0.022	118	56	0.040595367	17.78
5/8/17	11:00	928	0.022	118	56	0.040595367	17.89
5/9/17	12:00	933	0.022	118	56	0.040595367	17.99

5/9/17	8:00	1076	0.022	120	55	0.042264444	20.64
5/9/17	10:00	1089	0.022	124	55	0.047568954	20.63
5/9/17	12:00	1098	0.022	125	55	0.048989207	20.73
5/9/17	2:00	1104	0.022	126	55	0.050449248	20.78
5/9/17	4:00	1116	0.022	125	54	0.048029715	21.10
5/9/17	6:00	1129	0.022	122	54	0.043970496	21.54
5/9/17	8:00	1141	0.022	121	54	0.042690257	21.84
5/9/17	10:00	1154	0.022	120	54	0.041444797	22.15
5/10/17	12:00	1172	0.022	118	54	0.039054499	22.63
5/10/17	8:00	1286	0.022	119	55	0.041027384	24.74
5/10/17	10:00	1298	0.022	121	55	0.043536151	24.82
5/10/17	12:00	1314	0.022	122	55	0.044843470	25.05
5/10/17	2:00	1326	0.022	121	55	0.043536151	25.36
5/10/17	4:00	1331	0.022	118	55	0.039824036	25.68
5/10/17	6:00	1344	0.022	118	55	0.039824036	25.93
5/10/17	8:00	1358	0.022	117	55	0.038653494	26.28
5/10/17	10:00	1370	0.022	116	55	0.037514878	26.59
5/11/17	12:00	1382	0.022	116	55	0.037514878	26.82
5/11/17	8:00	1471	0.022	118	54	0.039054499	28.41
5/11/17	10:00	1486	0.022	120	54	0.041444797	28.53
5/11/17	12:00	1494	0.022	121	54	0.042690257	28.59
5/11/17	2:00	1520	0.022	122	54	0.043970496	29.00
5/11/17	4:00	1528	0.022	121	54	0.042690257	29.25
5/11/17	6:00	1536	0.022	120	54	0.041444797	29.49
5/11/17	8:00	1542	0.022	118	54	0.039054499	29.78
5/11/17	10:00	1558	0.022	117	54	0.037907872	30.18
5/12/17	12:00	1666	0.022	117	54	0.037907872	32.27
5/12/17	8:00	1824	0.022	119	56	0.041823495	35.06
5/12/17	8:30	shut down					
Averages		1129.17	0.022	120.21	55.21	0.043114820	21.647

Site: Tisdale's Quick Stop
UST Permit #: 18686

Calculations - Pollutant Mass Removal in pounds									
Marg. Elap. Time	Elapsed Time (min)	Flow (DSCFM) (Qstd)	PPM measured (ppm)	K (#C-gas)	PPMg	Cg:m (mg/dsm^3)	Cg (lb/dscf)	PMRg (lb/hr)	PMR (lb)
0	0								
30	30	16.78	677	1	677	3600.17	0.000224758	0.2262	0.1131
30	60	16.60	658	1	658	3499.13	0.000218451	0.2176	0.1088
30	90	16.45	642	1	642	3414.04	0.000213139	0.2104	0.1052
30	120	15.93	624	1	624	3318.32	0.000207163	0.1980	0.0990
30	150	15.99	617	1	617	3281.10	0.000204839	0.1965	0.0983
30	180	16.07	608	1	608	3233.24	0.000201851	0.1946	0.0973
30	210	16.16	596	1	596	3169.42	0.000197867	0.1919	0.0959
30	240	16.20	582	1	582	3094.97	0.000193219	0.1878	0.0939
30	270	16.28	581	1	581	3089.66	0.000192887	0.1884	0.0942
30	300	16.30	579	1	579	3079.02	0.000192223	0.1879	0.0940
30	330	16.34	576	1	576	3063.07	0.000191227	0.1874	0.0937
30	360	16.41	573	1	573	3047.11	0.000190231	0.1873	0.0937
30	390	16.45	570	1	570	3031.16	0.000189235	0.1868	0.0934
30	420	16.56	570	1	570	3031.16	0.000189235	0.1881	0.0940
30	450	16.62	564	1	564	2999.25	0.000187243	0.1867	0.0934
30	480	16.78	562	1	562	2988.62	0.000186579	0.1879	0.0939
30	510	16.90	558	1	558	2967.35	0.000185251	0.1878	0.0939
60	570	17.03	553	1	553	2940.76	0.000183591	0.1876	0.1876
60	630	17.27	548	1	548	2914.17	0.000181931	0.1885	0.1885
60	690	17.42	541	1	541	2876.94	0.000179608	0.1878	0.1878
60	750	17.57	530	1	530	2818.45	0.000175956	0.1855	0.1855
60	810	17.78	524	1	524	2786.54	0.000173964	0.1856	0.1856
60	870	17.89	520	1	520	2765.27	0.000172636	0.1853	0.1853
60	930	17.99	517	1	517	2749.31	0.000171640	0.1853	0.1853

480	1410	20.64	407	1	407	2164.35	0.000135121	0.1673	1.3386
120	1530	20.63	402	1	402	2137.76	0.000133461	0.1652	0.3304
120	1650	20.73	403	1	403	2143.08	0.000133793	0.1664	0.3329
120	1770	20.78	396	1	396	2105.86	0.000131469	0.1639	0.3278
120	1890	21.10	388	1	388	2063.32	0.000128813	0.1630	0.3261
120	2010	21.54	381	1	381	2026.09	0.000126489	0.1635	0.3270
120	2130	21.84	375	1	375	1994.18	0.000124497	0.1631	0.3263
120	2250	22.15	374	1	374	1988.87	0.000124165	0.1650	0.3301
120	2370	22.63	371	1	371	1972.91	0.000123169	0.1673	0.3345
480	2850	24.74	332	1	332	1765.52	0.000110221	0.1636	1.3090
120	2970	24.82	329	1	329	1749.56	0.000109225	0.1627	0.3253
120	3090	25.05	327	1	327	1738.93	0.000108561	0.1632	0.3263
120	3210	25.36	322	1	322	1712.34	0.000106901	0.1626	0.3258
120	3330	25.68	318	1	318	1691.07	0.000105573	0.1627	0.3254
120	3450	25.93	315	1	315	1675.11	0.000104577	0.1627	0.3255
120	3570	26.28	312	1	312	1659.16	0.000103581	0.1633	0.3267
120	3690	26.59	308	1	308	1637.89	0.000102253	0.1631	0.3263
120	3810	26.82	305	1	305	1621.94	0.000101257	0.1630	0.3259
480	4290	28.41	254	1	254	1350.73	0.000084326	0.1437	1.1499
120	4410	28.53	252	1	252	1340.09	0.000083662	0.1432	0.2864
120	4530	28.59	253	1	253	1345.41	0.000083994	0.1441	0.2882
120	4650	29.00	249	1	249	1324.14	0.000082666	0.1439	0.2877
120	4770	29.25	247	1	247	1313.50	0.000082002	0.1439	0.2878
120	4890	29.49	244	1	244	1297.55	0.000081006	0.1433	0.2866
120	5010	29.78	240	1	240	1276.28	0.000079678	0.1424	0.2847
120	5130	30.18	236	1	236	1255.01	0.000078350	0.1419	0.2837
120	5250	32.27	231	1	231	1228.42	0.000076690	0.1485	0.2970
480	5730	35.06	207	1	207	1100.79	0.000068722	0.1446	1.1566
30	5760	shut down							
Averages		21.65	435.54	1.00	435.54	2316.12	0.000144595	0.1732	0.2973
								Total Emission in pounds:	15.4593

Pollutant Mass Removal Calculations

Qstd = (1-water vapor) * velocity * (PI * (diameter/24)^2) * (528degrees R/(Temp + 460)
PPMg = PPM measured * K
Cg:m = PPMg * (Mg/K3)
Cg = Cg:m * 62.43E-09 lb-m^3/mg-ft^3
PMRg = Cg * Qstd * 60 min/hr
PMR = PMRg * ((T2 –T1)/60)

Qstd = Flow at DSCFM
Vacuum = The level of vacuum being applied should be recorded from the vacuum truck tank (inches of Hg)
Velocity = rate at which air flow is measured at the blower discharging pipe (anemometer)
Cross Sectional Area = area in ft^2 of discharge stack
Relative Humidity = The % relative humidity of the air stream exiting from the blower discharge piping
Water Vapor in % = Pounds of water/ pound of dry air, derived from the psychrometric chart (temp vs relative humidity)
PPM = PPM measurements taken with an OVA/ PID at the blower discharge piping
K = Number of carbons in calibration gas: K=1
PPMg = PPMv, Volumetric concentration as gasoline emission, dry basis at STP
Cg:m =mg/dsm3, mass concentration of gasoline emission
Mg = 128 mg/mg-mole, molecular weight of gasoline
K3 = 24.07 dsm^3/1E6 mg-mole, mass to volume conversion factor at STP
Cg = lb/dcsf, mass concentration of gasoline emission, dry basis at STP
PMRg = lb/hr, pollutant mass removal rate of gasoline emission
PMR = pollutant mass removal of gasoline emission over time

APPENDIX C

LIQUID DISPOSAL MANIFEST

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

GENERATOR

3. Generator's Name and Mailing Address: Tisdale Quick Stop, Kingstree SC

4. Generator's Phone ( )

5. Transporter 1 Company Name: HERR ENK

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone: 910-640-2607

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: **CWS, 303 S. Maultsby St., Whiteville, NC 28472**

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone: **910-640-2608**

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. **Non-Reg. Petroleum Contact water**	[redacted]	TT	[redacted] 2284	**Gal.**
b.		50 11 Chent Custom (946)		
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Steve Rivenbark — Signature — Date: Month 5 Day 12 Year 17

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DALE FOWLER — Signature — Date: Month 5 Day 12 Year 17

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: TIMAN COX — Signature — Date: Month 5 Day 12 Year 17

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Rev. 3/95

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address: Tisdale's Quick Mart, Kingstree SC

4. Generator's Phone ( )

5. Transporter 1 Company Name: HERR

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone: 910-640.7607

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: CWS 903 Maultsby St, Whiteville NC.

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone: 910-640.7608

GENERATOR

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non-Reg Petroleum Contact Water	SS	TT	5796	Gal
b. Stainless Tanker Full (60")				
c.			(948)	
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Steve Riverbank

Signature

Date: Month 5 Day 11 Year 17

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DALE FOWLER

Signature

Date: Month 5 Day 11 Year 17

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: RYAN Cox

Signature

Date: Month 5 Day 11 Year 17

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NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address: Tisdale, Kingstree SC

4. Generator's Phone ( )

5. Transporter 1 Company Name: HERR INC

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone: 710-640-7607

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: CWS 303 Macalsby St, Whiteville NC.

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone: 910-640-7608

	11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a.	Non Haz Petroleum Contact Water	55	TT	5761	gal
b.			(948)	Hail 58"	
c.					
d.					

GENERATOR

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

NON-HAZARDOUS WASTE

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Steve R. Woodard Jr. | Signature | Date: Month 5 Day 10 Year 17

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DALE FOWLER | Signature | Date: Month 5 Day 10 Year 17

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Juan Cox | Signature | Date: Month 5 Day 10 Year 17

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Rev. 3/95

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address [redacted] Tri Polly Quick Stop Kingstree SC.

4. Generator's Phone ( )

5. Transporter 1 Company Name: HERR INC

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone 910 640-2607

9. Designated Facility Name and Site Address: HERR Whiteville NC.

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone 910-642-2108

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON-Reg Petroleum Water Mix Stain 498	498	TT	5761	Gal
b.	5	8 11 Stainless Tanker Hot		
c.			948	
d.				

GENERATOR

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

NON-HAZARDOUS WASTE

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Steve Riverbark — Signature: [signature] — Date: Month 5 Day 9 Year 17

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DALE FOWLER — Signature: [signature] — Date: Month 5 Day 9 Year 17

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: RYAN COX — Signature: [signature] — Date: Month 5 Day 9 Year 17

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Rev. 3/95

Custom Tanker Trailer
Tanker # 946
VIN: S110083

Horizontal Tank Chart **Diameter: 75 in.** **Length: 464 in.**

Inches	Gallons	Inches	Gallons	Inches	Gallons	Inches	Gallons
1in.	23.1	2in.	65.08	3in.	119.06	4in.	182.55
5in.	254.07	6in.	332.58	7in.	417.32	8in.	507.69
9in.	603.19	10in.	703.38	11in.	807.92	12in.	916.46
13in.	1028.74	14in.	1144.49	15in.	1263.46	16in.	1385.46
17in.	1510.26	18in.	1637.69	19in.	1767.56	20in.	1899.71
21in.	2033.99	22in.	2170.23	23in.	2308.3	24in.	2448.05
25in.	2589.35	26in.	2732.07	27in.	2876.09	28in.	3021.28
29in.	3167.52	30in.	3314.7	31in.	3462.69	32in.	3611.4
33in.	3760.7	34in.	3910.48	35in.	4060.65	36in.	4211.08
37in.	4361.67	38in.	4512.31	39in.	4662.9	40in.	4813.33
41in.	4963.5	42in.	5113.28	43in.	5262.58	44in.	5411.28
45in.	5559.28	46in.	5706.46	47in.	5852.7	48in.	5997.89
49in.	6141.91	50in.	6284.63	51in.	6425.93	52in.	6565.68
53in.	6703.75	54in.	6839.99	55in.	6974.26	56in.	7106.42
57in.	7236.29	58in.	7363.72	59in.	7488.52	60in.	7610.52
61in.	7729.49	62in.	7845.24	63in.	7957.51	64in.	8066.06
65in.	8170.6	66in.	8270.79	67in.	8366.29	68in.	8456.66
69in.	8541.4	70in.	8619.91	71in.	8691.43	72in.	8754.92
73in.	8808.9	74in.	8850.88	75in.	8873.98		

Heil Tanker Trailer
Tanker # 948
VIN: H37851
Nominal Capacity: 5800 gallons

Inches	Gallons	Inches	Gallons	Inches	Gallons	Inches	Gallons
1 in	21	2 in	59	3 in	108	4 in	165
5 in	230	6 in	301	7 in	378	8 in	459
9 in	545	10 in	635	11 in	729	12 in	826
13 in	927	14 in	1030	15 in	1136	16 in	1244
17 in	1355	18 in	1468	19 in	1582	20 in	1699
21 in	1816	22 in	1936	23 in	2056	24 in	2178
25 in	2300	26 in	2423	27 in	2547	28 in	2672
29 in	2796	30 in	2921	31 in	3046	32 in	3171
33 in	3295	34 in	3419	35 in	3542	36 in	3664
37 in	3785	38 in	3906	39 in	4024	40 in	4142
41 in	4258	42 in	4372	43 in	4484	44 in	4594
45 in	4702	46 in	4807	47 in	4910	48 in	5009
49 in	5106	50 in	5199	51 in	5288	52 in	5372
53 in	5453	54 in	5528	55 in	5597	56 in	5660
57 in	5715	58 in	5761	59 in	5796		

Randy Smith

From: Ryan Cox <ryan@herrteam.com>
Sent: Monday, June 5, 2017 5:00 PM
To: Scott Ball
Subject: AFVR Report - Tisdale's Quick Stop Kingstree, SC 5/8-12/17 (1st set of pictures)
Attachments: Tisdale's Quick Stop 05-(08-12)-2017.pdf; SUNP0110.JPG; SUNP0111.JPG; SUNP0112.JPG; SUNP0113.JPG

Hi Scott,

Please see attached report/invoice/pictures for 96 hour AFVR at Tisdale's Quick Stop in Kingstree, SC on May 8-12, 2017.

The battery on my camera died, and after recharging I didn't realize for a few days that it had reset the date/time on the camera's time stamp. Some of the pictures have an incorrect date and time stamped*

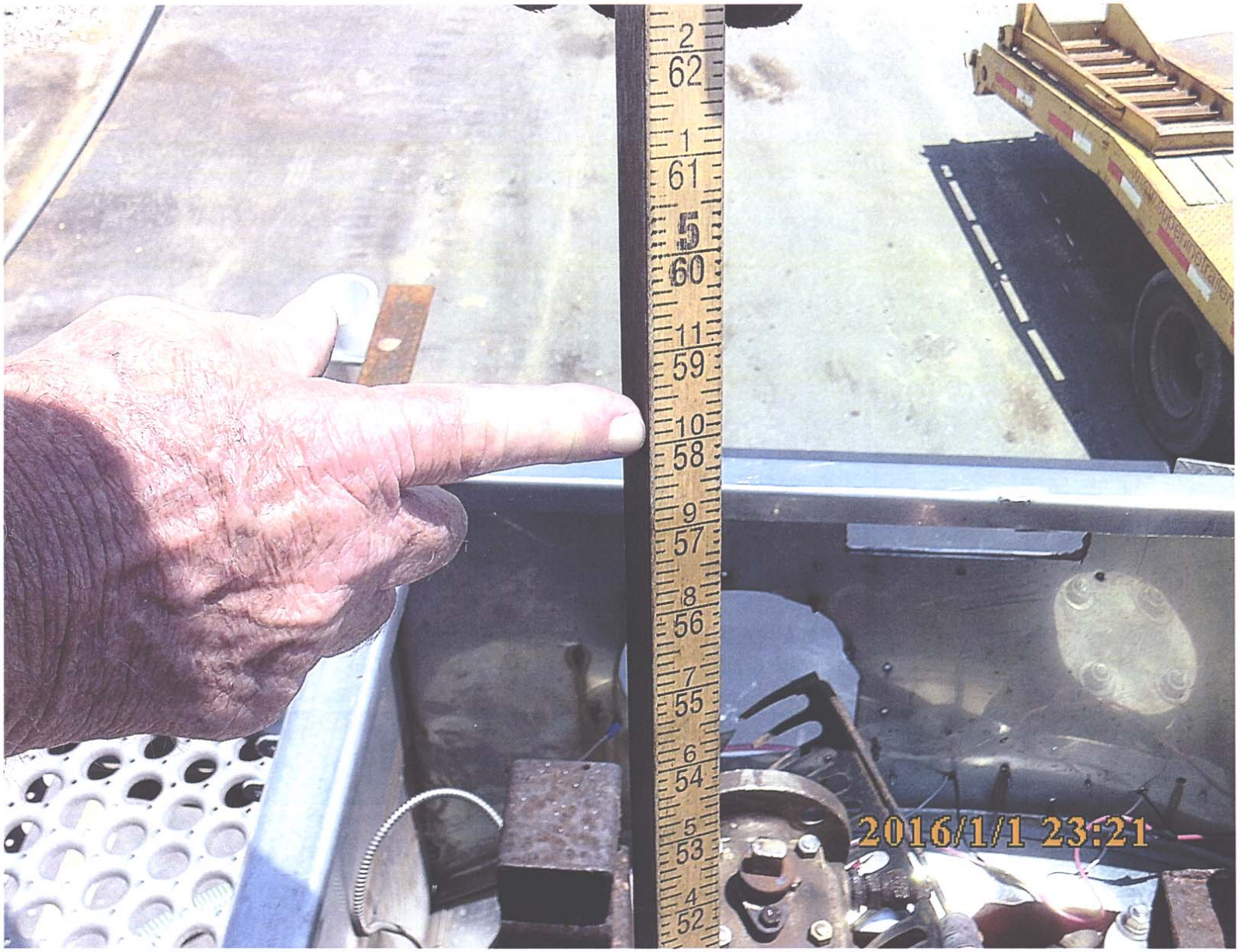
Thanks,

Ryan Cox
HERR, Inc.
Hazmat Emergency Response and Remediation, Inc.
PO Box 2345
303 S. Maultsby St.
Whiteville, NC 28472
Phone: (910) 640-2607
Fax: (910) 640-2609


2016/1/1 00:46

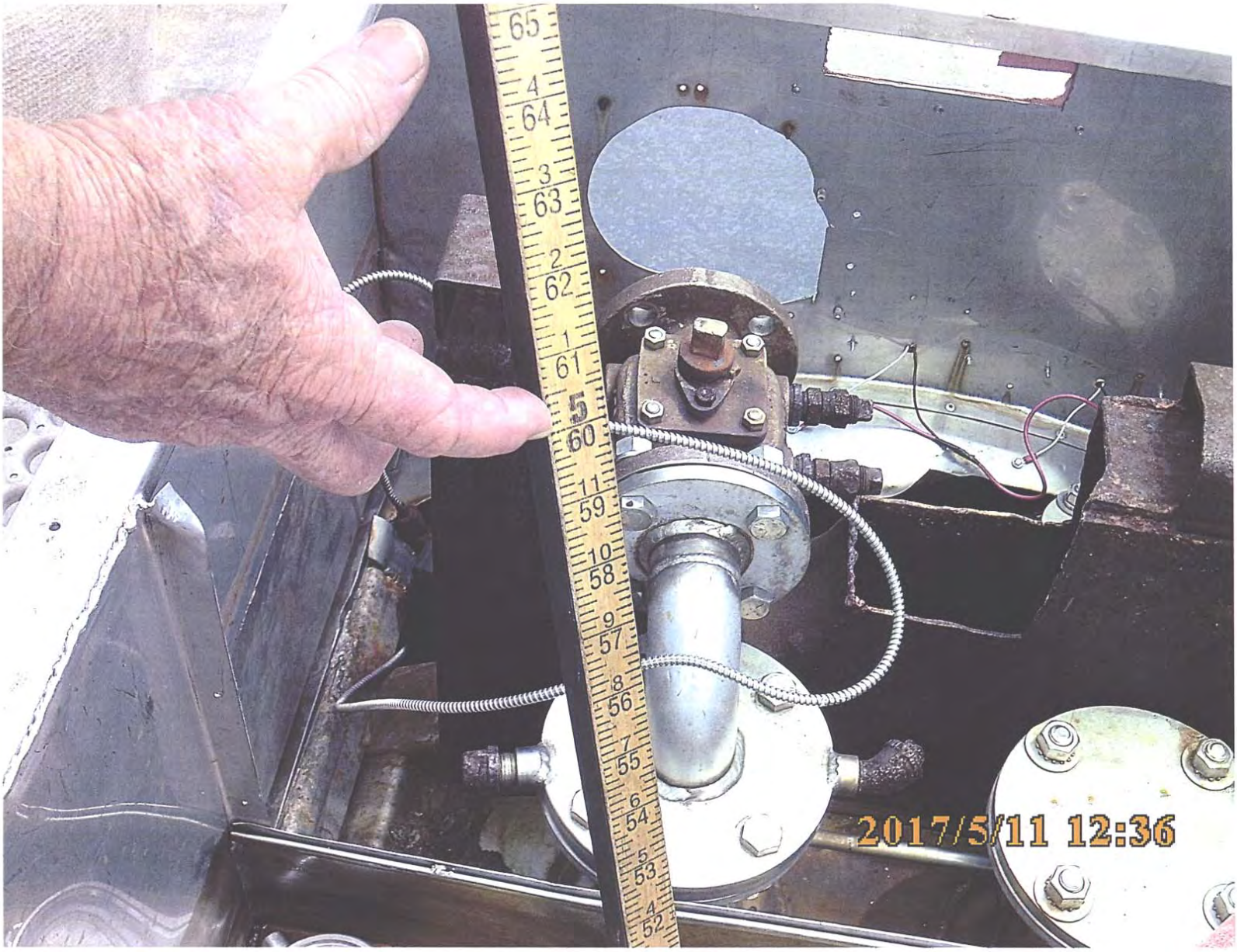

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2016/1/1 23:21


2016/1/1 23:21


2016/1/2 22:40


REMEDIATION
653-6399
2017/5/11 12:35


2017/5/11 12:36


50
49
2017/5/12 11:10

dhec
Healthy People. Healthy Communities.

JAN 3 0 2018

UST 63 Cody DOCKETING

MR MARTY EASLER
196 RICHBURG ROAD
GREELEYVILLE SC 29056

Re: **Site-Specific Work Plan Directive for MW Installation and Groundwater Sampling**
Tisdales Quick Stop, 1989 Thurgood Marshall Blvd, Kingstree SC
UST Permit #18686
Release reported June 30, 1993
AFVR Report received June 9, 2017
Williamsburg County

Dear Mr. Easley:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report submitted by Geological Resources, Inc. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels (RBSLs). The next appropriate scope of work at the site is to locate or replace monitoring wells MW-5, MW-11, MW-12, MW-16, MW-17, MW-18, comprehensive survey, and a comprehensive groundwater sampling event.

To determine what risk the referenced release may pose to human health and the environment and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of monitoring well installation and groundwater sampling is necessary. The assessment must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP) and in compliance with all applicable regulations. A copy of the UST QAPP is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/.

Your contractor must complete the Site-Specific Work Plan (SSWP) and Cost Proposal and submit it within 30 days from the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that approval from DHEC must be issued before work begins.**

On all correspondence regarding this site, please reference UST Permit #18686. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 898-0610, fax me at (803) 898-0673, or e-mail me at heinzecw@dhec.sc.gov.

Sincerely,

Cody Heinze, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Geological Resources, Inc., 3502 Hayes Rd., Monroe, North Carolina 28110
Technical file (w/enc)

Geological Resources, Inc.



February 5, 2018

Mr. Cody Heinze
South Carolina Department of Health
And Environmental Control
Underground Storage Tank Management Division
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201



Re: GRI Proposal No. 18-096
Site Specific Work Plan
Tisdale's Quick Stop
1989 Thurgood Marshall Blvd
Kingstree, Williamsburg County
UST Permit No. 18686
GRI Project No. 1543

Dear Mr. Heinze:

Attached is a Site Specific Work Plan for approved ACQAP and the associated Assessment Component Cost Agreement for the above referenced site in Kingstree, Williamsburg County, South Carolina.

Please contact me at (704) 845-4010 or by e-mail at wsb@geologicalresourcesinc.com if you have questions or comments concerning this matter.

Sincerely,

W. Scott Ball
Senior Project Manager

Enclosures

cc: file

3502 Hayes Road • Monroe, North Carolina 28110
Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012

Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division

To: Cody Heinze (SCDHEC Project Manager)
From: Scott Ball (Contractor Project Manager)
Contractor: Geological Resources, Inc. UST Contractor Certification Number: 74

Facility Name: Tisdale's Quick Stop UST Permit #: 18686
Facility Address: 1989 thurgood Marshal Blvd., Kingstree, SC
Responsible Party: Marty Easler Phone: (843) 506-1509
RP Address: 196 Richburg Road, Greeleyville, SC 29056
Property Owner (if different): Andy McKnight
Property Owner Address: 316 McCullough Loop, Kingstree,SC 29056
Current Use of Property: Restaurant

Scope of Work (Please check all that apply)

- ☐ IGWA
- ☐ Tier I
- ☐ Tier II
- ☐ Monitoring Well Installation
- ☑ Groundwater Sampling
- ☐ Other
- ☐ GAC

Analyses (Please check all that apply)

Groundwater/Surface Water:

- ☑ BTEXNMDCA (8260B)
- ☑ Oxygenates (8260B)
- ☑ EDB (8011)
- ☐ PAH (8270D)
- ☐ Lead
- ☐ 8 RCRA Metals
- ☐ TPH
- ☐ pH
- ☐ BOD
- ☐ Nitrate
- ☐ Sulfate
- ☐ Other
- ☐ Methane
- ☐ Ethanol
- ☐ Dissolved Iron

Drinking Water Supply Wells:

- ☑ BTEXNMDCA (524.2)
- ☑ Oxygenates & Ethanol (8260B)
- ☐ Mecury (200.8 245.1 or 245.2)
- ☐ RCRA Metals (200.8)
- ☑ EDB (504.1)

Soil:

- ☐ BTEXNM
- ☐ Lead
- ☐ RCRA Metals
- ☐ PAH
- ☐ Oil & Grease (9071)
- ☐ TPH-DRO (3550B/8015B)
- ☐ TPH-GRO (5030B/8015B)
- ☐ Grain Size
- ☐ TOC

Air:

- ☐ BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

____ Soil	2 Water Supply Wells	____ Air	2 Field Blank
37 Monitoring Wells	3 Surface Water	3 Duplicate	2 Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

# of shallow points proposed: NA Estimated Footage: ____ feet per point
# of deep points proposed: NA Estimated Footage: ____ feet per point
Field Screening Methodology: ____

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells: 6 Estimated Footage: 25' (4), 20' (2) feet per point
# of deep wells: NA Estimated Footage: ____ feet per point
# of recovery wells: NA Estimated Footage: ____ feet per point

Comments, if warranted:
Install replacement monitoring wells MW-5R, MW-11R, MW-12R, MW-16R, MW-17R and MW-18R.

UST Permit #: 18686 Facility Name: Tisdales Quick Stop

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 30 days from approval Field Work Completion: 25 days from approval
Report Submittal: 60 Days from approval # of Copies Provided to Property Owners: _____

Aquifer Characterization
Pump Test: ☐ Slug Test: ☐ (Check one and provide explanation below for choice)
NA

Investigation Derived Waste Disposal
Soil: 3 Tons Purge Water: 220 Gallons
Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons

Additional Details For This Scope of Work
For example, list wells to be sampled, wells to be abandoned/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.
Sample monitoring wells MW-1 through MW-31 (including the 6 replacement wells), MW-1A through MW-4A, TW-1 & TW-2.
Sample water supply wells WSW-1 and WSW-3 (if in service). All monitoring wells will be purged
prior to sample collection. pH, temperature, specific conductivity, dissolved oxygen and turbidity readings will be collected.
MW samples to be analyzed for BTEX, MTBE, naphthalene, 1,2-DCA, 8 oxygenates by 8260 and EDB by 8011.
WSW samples to be analyzed for BTEX, MTBE, naphthalene, 1,2-DCA by 524.2, 8 oxygenates by 8260 and EDB by 504.1
Two monitoring well samples will be duplicated and one field blank will be collected.
One WSW sample will be duplicated and a field blank will be collected. A comprehensive survey will be conducted.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)
Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.
Name of Laboratory: _____
SCDHEC Certification Number: _____
Name of Laboratory Director: _____

YES Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.
Name of Well Driller: _____
SCLLR Certification Number: _____

____ Other variations from ACQAP. Please describe below.

Attachments
1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:
   - North Arrow
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664

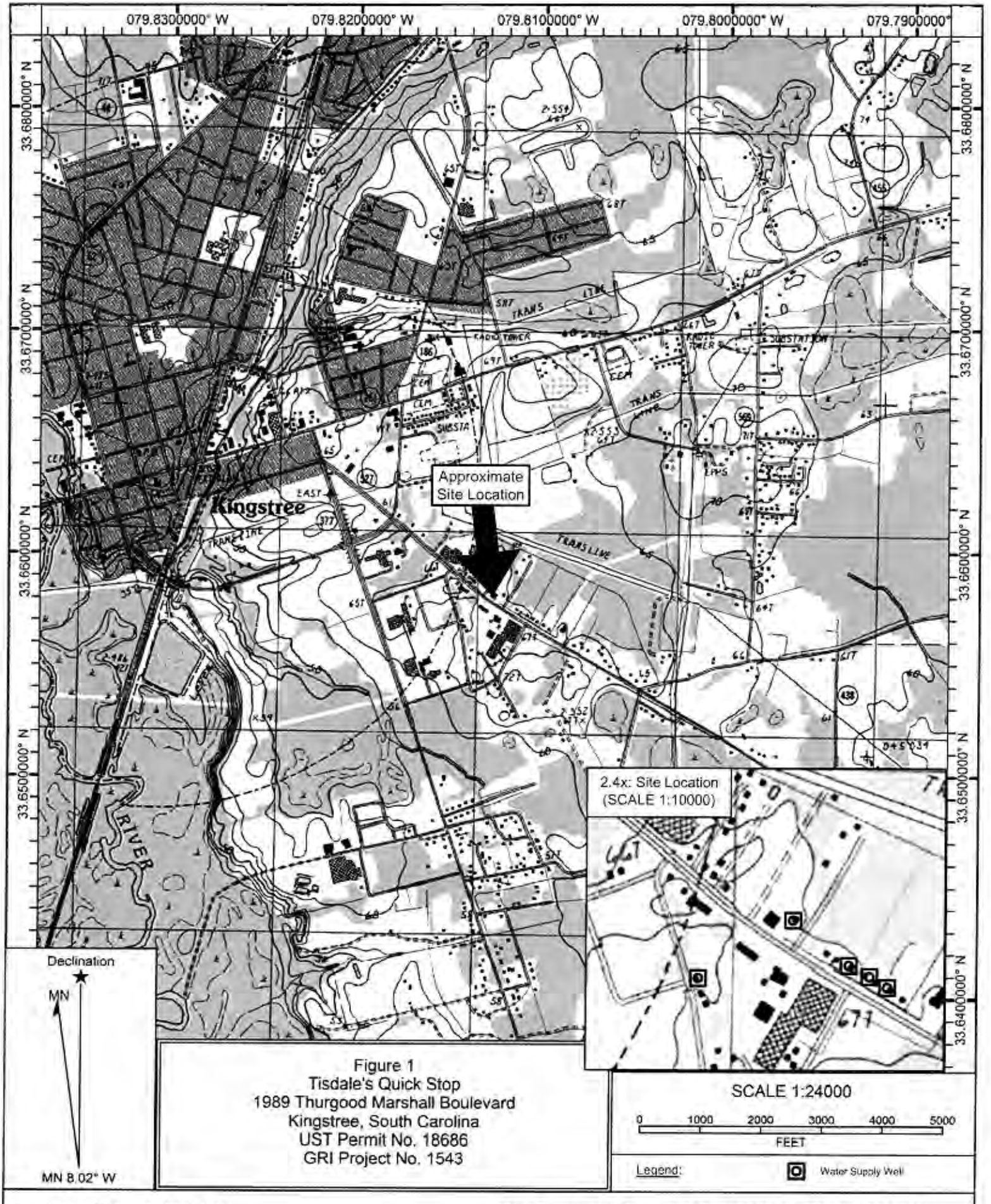


Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit No. 18686
GRI Project No. 1543

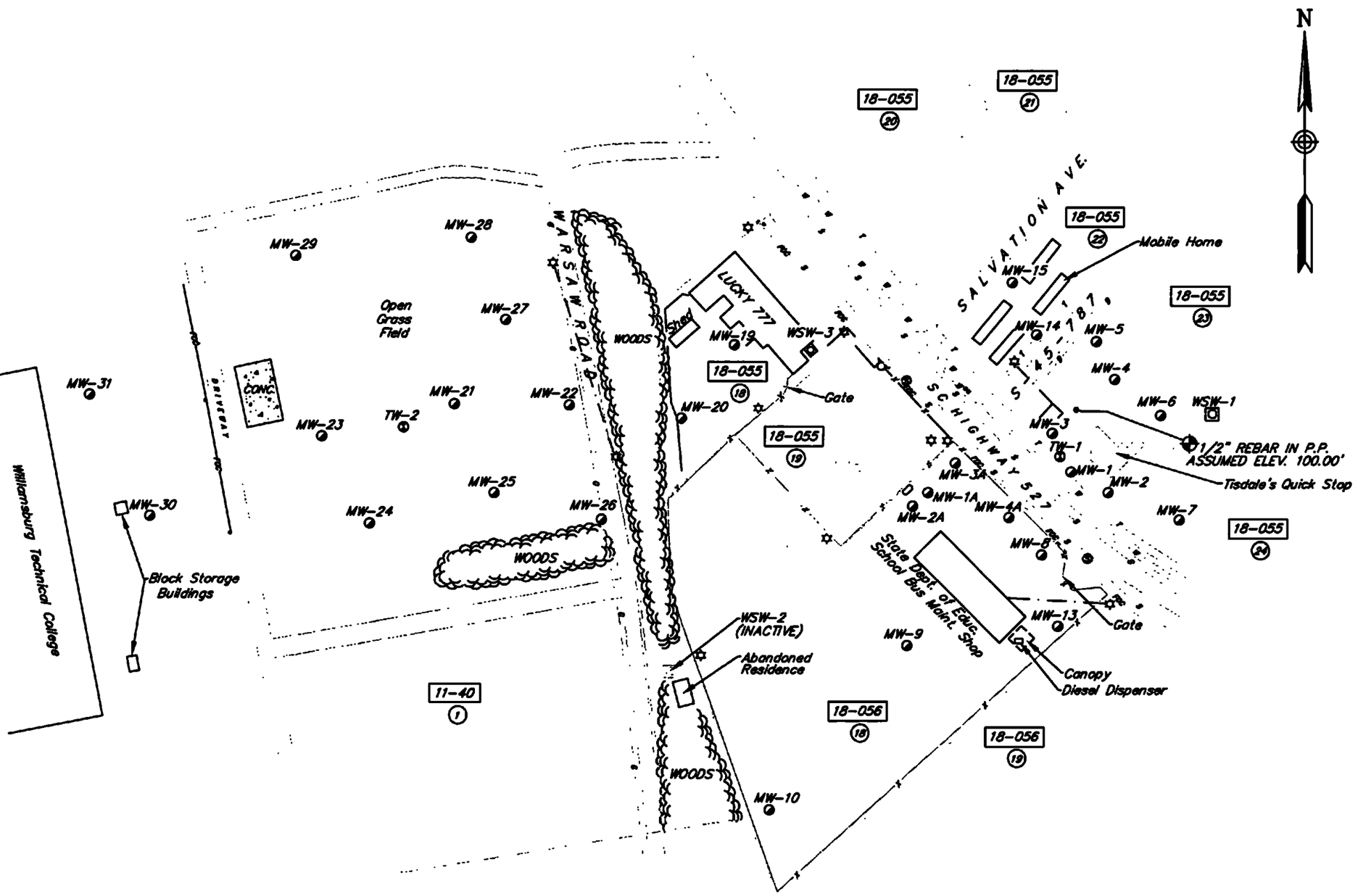
Name: Topographic Map
Date: 08/08/16
Scale: 1 inch = 2,000 ft.

Map Center Location: 033.6579897° N 079.8127613° W

Generated by Geological Resources, Inc

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- WATER SUPPLY WELL
- DESTROYED MONITORING WELL
- LIGHT POLE
- TELEPHONE PEDESTAL
- SEWER MANHOLE
- FIRE HYDRANT
- FIBER OPTIC CABLE MARKER
- PROPERTY LINE
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND WATER LINE
- PP & OVERHEAD POWER LINE
- UNDERGROUND SEWER LINE
- UNDERGROUND GAS LINE
- UNDERGROUND FIBER OPTIC LINE
- DITCH
- FENCE
- BENCHMARK
- 18-055 WILLIAMSBURG COUNTY TAX MAP NUMBER
- (18) PARCEL NUMBER



Geological Resources, Inc.

0 50 100 200

(IN FEET)
1 inch = 100 ft

SITE MAP

Tisdale's Quick Stop
UST Permit No. 18686
GRI Project No. 1543

1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County, SC

Date:	03/27/17	Drawn by:	ECH	Figure:	2

dhec
Healthy People Healthy Communities

ASSESSMENT COMPONENT INVOICE
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
August 16, 2016

Facility Name: Tisdales Quick Stop

GRI Proposal No. 18-096

UST Permit #: 18686 **Cost Agreement #:**

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. Plan Preparation				
A1. Site-specific Work Plan	1	each	$150.00	$150.00
B1. Tax Map		each	$70.00	$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00	$0.00
2. A1. Receptor Survey *		each	$551.00	$0.00
3. Survey (500 ft x 500 ft)				
A1. Comprehensive Survey	1	each	$1,040.00	$1,040.00
B. Subsurface Geophysical Survey				
1B. < 10 meters below grade		each	$1,300.00	$0.00
2B. > 10 meters below grade		each	$2,310.00	$0.00
C1. Geophysical UST or Drum Survey		each	$910.00	$0.00
4. Mob/Demob				
A1. Equipment	1	each	$1,020.00	$1,020.00
B1. Personnel	2	each	$423.00	$846.00
C1. Adverse Terrain Vehicle		each	$500.00	$0.00
5. A1. Soil Borings (hand auger)*		foot	$5.00	$0.00
6. Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)*				
AA. Standard		per foot	$15.00	$0.00
C1. Fractured Rock		per foot	$20.20	$0.00
7. A1. Soil Leachability Model		each	$60.00	$0.00
8. Abandonment (per foot)*				
A1. 2" diameter or less		per foot	$3.10	$0.00
B1. Greater than 2" to 6" diameter		per foot	$4.50	$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	$15.00	$0.00
9. Well Installation (per foot)*				
A1. Water Table (hand augered)		per foot	$10.60	$0.00
B1. Water Table (drill rig)	140	per foot	$38.00	$5,320.00
CC. Telescoping		per foot	$50.00	$0.00
DD. Rock Drilling		per foot	$58.00	$0.00
E1. 2" Rock Coring		per foot	$30.90	$0.00
G1. Rock Multi-sampling ports/screens		per foot	$33.40	$0.00
HH. Recovery Well (4" diameter)		per foot	$45.00	$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	$15.00	$0.00
J1. Rotosonic (2" diameter)		per foot	$44.00	$0.00
K. Re-develop Existing Well		per foot	$11.00	$0.00
10. Groundwater Sample Collection / Gauge Depth to Water or Product *				
A1. Groundwater Purge	37	per well/receptor	$60.00	$2,220.00
B1. Air or Vapors		per receptor	$12.00	$0.00
C1. Water Supply	2	per well/receptor	$22.00	$44.00
D1. Groundwater (No Purge or Duplicate	3	per well/receptor	$28.00	$84.00
E1. Gauge Well only		per well	$7.00	$0.00
F1. Sample Below Product		per well	$12.00	$0.00
G1. Passive Diffusion Bag		each	$26.00	$0.00
H1. Field Blank	2	each	$24.60	$49.20

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11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(82	41	per sample	$122.00		$5,002.00
AA1. Lead, Filtered		per sample	$13.80		$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	$153.60		$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	$36.40		$0.00
D1. PAH's		per sample	$60.60		$0.00
E1. Lead		per sample	$16.00		$0.00
F1. EDB by EPA 8011	40	per sample	$45.20		$1,808.00
FF1. EDB by EPA Method 8011 Rush		per sample	$68.20		$0.00
G1. 8 RCRA Metals		per sample	$63.40		$0.00
H1. TPH (9070)		per sample	$41.00		$0.00
II. pH		per sample	$5.20		$0.00
J1. BOD		per sample	$20.00		$0.00
PP. Ethanol		per sample	$14.80		$0.00
11. Analyses-Drinking Water					
L. BTEXNM+1,2 DCA (524.2)	5	per sample	$124.05		$620.25
M. 7-OXYGENATES & ETHANOL (8260B)	5	per sample	$91.75		$458.75
N. EDB (504.1)	4	per sample	$79.50		$318.00
O. RCRA METALS (200.8)		per sample	$100.00		$0.00
11. Analyses-Soil					
Q1. BTEX + Naphth.		per sample	$64.00		$0.00
R1. PAH's		per sample	$64.04		$0.00
S1. 8 RCRA Metals		per sample	$56.40		$0.00
U1. TPH-DRO (3550C/8015C)		per sample	$40.00		$0.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96		$0.00
W1. Grain size/hydrometer		per sample	$104.00		$0.00
X1. Total Organic Carbon		per sample	$30.60		$0.00
11. Analyses-Air					
Y1. BTEX + Naphthalene		per sample	$216.00		$0.00
11. Analyses-Free Phase Product					
Z1. Hydrocarbon Fuel Identification		per sample	$357.00		$0.00
12. Aquifer Characterization					
A1. Pumping Test*		per hour	$23.00		$0.00
B1. Slug Test*		per test	$191.00		$0.00
C1. Fractured Rock		per test	$100.00		$0.00
13. A1. Free Product Recovery Rate Test*		each	$38.00		$0.00
14. Fate/Transport Modeling					
A1. Mathematical Model		each	$100.00		$0.00
B1. Computer Model		each	$100.00		$0.00
15. Risk Evaluation					
A. Tier I Risk Evaluation		each	$300.00		$0.00
B1. Tier II Risk Evaluation		each	$100.00		$0.00
16. A1. Subsequent Survey*		each	$260.00		$0.00
17. Disposal (gallons or tons)*					
AA. Wastewater	220	gallon	$0.56		$123.20
BB. Free Product		gallon	$0.50		$0.00
C1. Soil Treatment/Disposal	3	ton	$60.00		$180.00
D1. Drilling fluids		gallon	$0.42		$0.00
18. Miscellaneous (attach receipts)					
		each	$0.00		$0.00
		each	$0.00		$0.00
		each	$0.00		$0.00
20. Tier I Assessment (Use DHEC 3665 form)		standard			$0.00
21. IGWA (Use DHEC 3666 form)		standard			$0.00
22. Corrective Action (Use DHEC 3667 form)		PFP Bid			$0.00

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23. Aggressive Fluid & Vapor Recovery (AFVR)					
A1. 8-hour Event*		each	$1,375.00		$0.00
AA. 24-hour Event*		each	$3,825.00		$0.00
A3. 48-hour Event*		each	$6,265.00		$0.00
A4. 96-hour Event*		each	$12,567.50		$0.00
C1. Off-gas Treatment 8 hour		per event	$122.50		$0.00
C2. Off-gas Treatment 24 hour		per event	$241.50		$0.00
C3. Off-gas Treatment 48 hour		per event	$327.00		$0.00
C4. Off-gas Treatment 96 hour		per event	$780.00		$0.00
D. Site Reconnaissance		each	$203.25		$0.00
E1. Additional Hook-ups		each	$25.75		$0.00
F1. Effluent Disposal		gallon	$0.44		$0.00
G. AFVR Mobilization/Demobilization		each	$391.50		$0.00
24. Granulated Activated Carbon (GAC) filter system installation & service:					
A1. New GAC System Installation*		each	$1,900.00		$0.00
BB. Refurbished GAC Sys. Install*		each	$900.00		$0.00
C1. Filter replacement/removal*		each	$350.00		$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	$275.00		$0.00
E1. GAC System housing*		each	$250.00		$0.00
F. In-line particulate filter		each	$150.00		$0.00
G1. Additional piping & fittings		foot	$1.50		$0.00
25. Well Repair					
A1. Additional Copies of the Report Delivered		each	$50.00		$0.00
B1. Repair 2x2 MW pad*		each	$50.00		$0.00
C1. Repair 4x4 MW pad*		each	$88.00		$0.00
D1. Repair well vault*		each	$118.00		$0.00
F1. Replace well cover bolts		each	$2.60		$0.00
G. Replace locking well cap & lock		each	$15.00		$0.00
H1. Replace/Repair stick-up*		each	$134.00		$0.00
I1. Convert Flush-mount to Stick-up*		each	$150.00		$0.00
J1. Convert Stick-up to Flush-mount*		each	$130.00		$0.00
K1. Replace missing/illegible well ID plate		each	$12.00		$0.00
Report Prep & Project Coordination	12%	percent	$19,283.40		$2,314.01
TOTAL					$21,597.41

UST FEB 07 2018 DIVISION

*The appropriate mobilization cost can be added to complete these tasks, as necessary. DHEC

dhec
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MR MARTY EASLER
196 RICHBURG ROAD
GREELEYVILLE SC 29056

FEB 13 2018

Re: **Monitoring Well Installation and Directive**
Tisdales Quick Stop, 1989 Thurgood Marshall Blvd, Kingstree, SC
UST Permit #18686; CA # 56313; MWA #UMW-26874
Release Reported March 30, 2001
Site-Specific Work Plan and cost proposal received February 7, 2018
Williamsburg County

Dear Mr. Easler:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced Site-Specific Work Plan (SSWP)submitted by your contractor. All work should be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), the approved SSWP and Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. A copy of the current revision of the UST QAPP is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/

The assessment should begin immediately upon receipt of this letter. A monitoring well approval has been enclosed for the monitoring well installation. Cost agreement #56313 has been approved for the amount shown on the enclosed cost agreement form. **The Contractor must provide the UST Project Manager with a Project Status Report on a weekly basis via e-mail or notify the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes or conflicts with the date(s) of site activities, the UST Project Manager must be contacted within 24 hours of those changes.**

The Assessment report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the Division within ninety(90) days of the date of this correspondence. The report submitted at the completion of these activities should include the required information outlined in the UST QAPP.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Division for the cost to be paid. The Division reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Division reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by an DHEC-certified site rehabilitation contractor as required by R.61-98.

The Division grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the Chemical of Concern (CoC) concentrations based on laboratory analysis is below Risk-Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on-site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence regarding this site, please reference UST Permit #18686. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 898-0610, fax me at (803) 898-0673, or e-mail me at heinzecw@dhec.sc.gov.

Sincerely,

Cody Heinze, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement (ACA)
Monitoring Well Approval (MWA)

cc: Geological Resources, Inc., 3502 Hayes Rd., Monroe, NC 28110 (w/enc.)
Technical file (with enc.)

Healthy People. Healthy Communities

Monitoring Well Approval

Approval is hereby granted to: Geological Resources, Inc.
(on behalf of): Marty Easler
Facility: **Tisdale Quick Stop, 1989 Thurgood Marshall Blvd, Kingstree, SC**
UST Permit Number: 18686
County: Williamsbrug

This approval is for the installation of six shallow groundwater monitoring wells. The monitoring wells are to be installed in the approved locations. Monitoring wells are to be installed following the South Carolina Well Standards, R.61-71, and the applicable guidance documents.

Please note that R.61-71 requires the following:

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
3. A Water Well Record Form or other form provided or approved by the Division shall be completed and submitted to the Division within 30 days after well completion or abandonment unless another schedule has been approved by the Division. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f
4. All analytical data and water levels obtained from each monitoring well shall be submitted to the Division within 30 days of receipt of laboratory results unless another schedule has been approved by the Division as required by R.61-71.H.1.d.
5. If any of the information provided to the Division changes, notification to Cody Heinze the project manager (tel: (803) 898-0610 or e-mail: heinzecw@scdhec.sc.gov) shall be provided a minimum of twenty-four (24) hours prior to well construction as required by R.61-71.H.1.a.
6. All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c. All other wells shall be properly developed per R.61-71.H.2.d.
7. Division approval is required prior to abandonment of all monitoring wells as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated May 27, 2016. A copy of this approval should be on the site during well installation.

Date of Issuance: February 8, 2018 **Approval #: UMW-26874**

Cody Heinze, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Approved Cost Agreement 56313

Facility: 18886 TISDALES QUICK STOP
HEINZECW
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
01 PLAN					
		A1 SITE SPECIFIC WORK PLAN	1.0000	$150.000	150.00
03 COMPREHENSIVE SURVEY					
		A1 COMPREHENSIVE SURVEY	1.0000	$1,040.000	1,040.00
04 MOB/DEMOB					
		A1 EQUIPMENT	1.0000	$1,020.000	1,020.00
		B1 PERSONNEL	4.0000	$423.000	1,692.00
09 WELL INSTALLATION					
		B1 WATER TABLE (DRILL RIG)	140.0000	$38.000	5,320.00
10 SAMPLE COLLECTION					
		A1 GROUNDWATER (PURGE)	37.0000	$60.000	2,220.00
		C1 WATER SUPPLY	2.0000	$22.000	44.00
		D1 GROUNDWATER NO PURGE/DUPLICATE	3.0000	$28.000	84.00
		H1 FIELD BLANK	2.0000	$24.600	49.20
11 ANALYSES					
	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	41.0000	$122.000	5,002.00
		F1 EDB BY 8011	40.0000	$45.200	1,808.00
	WATER DRINKING WATER	L BTEXNM+1,2 DCA (524.2)	5.0000	$124.050	620.25
		M 7-OXYGENATES & ETHANOL (8260B)	5.0000	$91.750	458.75
		N EDB (504.1)	4.0000	$79.500	318.00
17 DISPOSAL					
		AA WASTEWATER	220.0000	$0.560	123.20
		C1 SOIL TREATMENT DISPOSAL	3.0000	$60.000	180.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PRT REPORT PREPARATION	0.1200	$20,129.400	2,415.53
				Total Amount	22,544.93

Geological Resources, Inc.

UST
JUL 0 2 2018
PROGRAM

June 28, 2018

Cody Hainze
~~Mr. Jim Martin~~
SCDHEC
UST Management Division
Bureau of Land & Waste Management
2600 Bull Street
Columbia, SC 29201

UST
DOCKETING

Re: Ground Water Assessment Report
April 2018
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County, South Carolina
UST Permit Number: 18686
GRI Project No: 1543

Dear Mr. Martin,

Please find enclosed the referenced report for the above mentioned site.

If you have any questions, please do not hesitate to contact Scott Ball at (704) 845-4010.

Sincerely,
Geological Resources, Inc.

Leslie Maxtone-Graham
Administrative Assistant

Enclosure

Cc: Mr. Marty Easler, file

3502 Hayes Road • Monroe, North Carolina 28110
113 West Firetower Road, Suite G • Winterville, North Carolina 28590
Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012

GROUND WATER ASSESSMENT REPORT
APRIL 2018
TISDALE'S QUICK STOP
1989 THURGOOD MARSHALL BOULEVARD
KINGSTREE, WILLIAMSBURG COUNTY
SOUTH CAROLINA
UST PERMIT NO. 18686
GRI PROJECT NO. 1543

Prepared for:

Mr. Marty Easler
196 Richburg Road
Greeleyville, SC 29056

Prepared by:

Geological Resources, Inc.
3502 Hayes Road
Monroe, North Carolina 28110
Class I UST Site Rehabilitation Contractor # 74

June 28, 2018

W. Scott Ball
Project Manager

J. M. Brown, P.G.

JOHN M. BROWN
REGISTERED
NO. 1116
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

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2.0 FACILITY INFORMATION 1

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7.0 LIMITATIONS 4

FIGURES

Figure 1: Site Location Map
Figure 2: Site Map
Figure 3: Water Table Surface Map
Figure 4: Ground Water Quality Map

TABLES

Table 1: Summary of Ground Water Elevation Data
Table 2: Summary of Laboratory Analytical Results – Ground Water Samples – Chemicals of Concern
Table 3: Summary of Laboratory Analytical Results – Ground Water Samples – Oxygenates

APPENDICES

Appendix A: Subsurface Logs, Well Construction Forms, Well Development Data Verification Forms
Appendix B: Professional Survey
Appendix C: Laboratory Analytical Report - Ground Water Samples
Appendix D: Field Data Information Sheets
Appendix E: Disposal Manifest
Appendix F: Contractor Checklist

1.0 INTRODUCTION

This report presents the results of ground water assessment activities conducted from March to May 2018 at the Tisdales Quick Stop site located at 1989 Thurgood Marshall Highway, in Kingstree, Williamsburg County, South Carolina (**Figures 1** and **2**). The activities were conducted in accordance with the "Monitoring Well Installation and Directive" dated February 13, 2018 from the SCDHEC. The purpose of the activities was to install replacement monitoring wells and obtain current ground water quality data for the site.

The site is a former petroleum retail location. There are two buildings on site, the first is used as a convenience store and grill and the second building is used for a liquor store. Surrounding properties are a mix of commercial and residential. According to the South Carolina Underground Storage Tank (UST) registry database, a release at the site occurred on March 30, 2001, and the confirmation date of the release is listed as April 6, 2001. Two 550 gallon gasoline tanks and one 1,000 gallon diesel tank were removed March 1, 2001. A total of 37 monitoring wells (MW-1 through MW-31, MW-1A through MW-4A, TW-1 and TW-2) have been installed previously at the site. Please refer to earlier submittals for additional information regarding previous assessment activities.

2.0 FACILITY INFORMATION

- **Facility Name:** Tisdales Quick Stop
- **Location:** 1989 Thurgood Marshall Blvd (Highway 527)
  Kingstree, Williamsburg County
- **UST Permit No.** 18686
- **Property Owner:** Andy McKnight (Life) & Regina Mae Scott McKnight (Life)
  316 McCullough Loop
  Kingstree, South Carolina 29566
  (843) 382-2474
- **UST Owner/Operator:** Marty Easler
  196 Richburg Road
  Greeleyville, South Carolina 29056
  (843) 372-2502
- **Site Rehabilitation Contractor:** Geological Resources, Inc.
  3502 Hayes Road
  Monroe, North Carolina 28110
  (704) 845-4010
  Class 1, Certification Number 74

- **Drilling Contractor:** REDI
  Bryan Vest
  1 Piney Point
  Whispering Pines, North Carolina 28327
  (910) 690-6688
  Certification Number 2188-B

- **Laboratory:** SGS North America, Inc.
  4405 Vineland Road, Suite C-15
  Orlando, FL 32811
  (407) 425-6700
  State Certification Number: 96038001

Release Information:

- **Date Discovered:** March 30, 2001
- **Estimated Amount of Release:** Unknown
- **Source of Release:** Leaking UST System
- **UST Size/Contents:** Two 550 gallon gasoline tanks and one 1,000 gallon diesel tank (Removed March 1, 2001)
- **Latitude:** 33.6579897° North **Longitude:** 79.8127613° West

3.0 MONITORING WELL INSTALLATION

Replacement monitoring wells MW-5R, MW-11R, MW-12R, MW-16R, MW-17R and MW-18R were installed at the site on March 29, 2018. Monitoring wells MW-11R and MW-12R were installed to total depths of 20 feet. Monitoring wells MW-5R, MW-16R, MW-17R and MW-18R were each installed to a total depth of 25 feet. All wells were completed with a 15 foot screen interval. Subsequent to installation activities, each well was developed with a submersible pump. In addition, the top-of-casing elevations for all monitoring wells at the site were surveyed by a South Carolina Professional Land Surveyor in May 2018. Copies of the subsurface boring logs, monitoring well construction records and Well Development Verification Data Forms have been included as **Appendix A**. A copy of the professional survey has been included as **Appendix B**.

4.0 GROUND WATER QUALITY

Twenty nine Type III monitoring wells (MW-1 through MW-4, MW-5R, MW-6 though MW-9, MW-11R, MW-12R, MW-13, MW-14, MW-16R through MW-18R, MW-20 through MW-28, MW-31 and MW-1A, MW-2A and MW-4A) and two telescoping monitoring wells (TW-1 and TW-2) were gauged, purged and/or sampled on April 18, 2018. Two water supply wells (WSW-1 and WSW-3) were also sampled on April 19, 2018. Monitoring wells MW-10, MW-19, MW-29, MW-30 and MW-3A could not be located. Monitoring well MW-15 was covered by an abandoned truck and could not be accessed. Monitoring wells MW-4 and MW-21 were dry and could not be sampled. All Type III and telescoping wells were purged prior to sampling.

The depths to ground water in the Type III monitoring wells during the April 2018 sampling event ranged from 9.60 to 15.99 feet below the top of casings. Ground water elevations in the Type III monitoring wells relative to a temporary benchmark with an assumed datum of 100.00 feet ranged from 81.16 to 85.21 feet. Based on this data, ground water flow was generally toward the west. The horizontal hydraulic gradient across the site was less than 0.01 feet per foot. The vertical hydraulic gradient calculated for MW-3/TW-1 was 0.018 feet per foot downward. A Site Map showing the locations of the monitoring wells and the structures on-site has been included as **Figure 2**. A Water Table Surface Map for the April 2018 sampling event has been included as **Figure 3**. A summary of well construction and gauging information is presented in **Table 1**.

Laboratory analyses were performed on the ground water samples collected from the monitoring wells during the April 2018 sampling event for BTEX, MTBE, naphthalene, 1,2-DCA and eight oxygenates using EPA Method 8260 as well as EDB by EPA Method 8011. Laboratory analyses were performed on the ground water samples collected from the water supply wells for BTEX, MTBE, naphthalene and 1,2-DCA by EPA Method 524.2, eight oxygenates using EPA Method 8260B and EDB by EPA Method 504.1. Concentrations of benzene, toluene, ethylbenzene, xylenes, MTBE, naphthalene and/or EDB that exceeded the RBSLs were reported in the ground water samples collected from MW-1, MW-2, MW-3, MW-16R, MW-17R, MW-1A, MW-2A, MW-4A and TW-2. Concentrations of oxygenates that exceeded the action levels were reported in the samples collected from MW-1, MW-2, MW-3, MW-16R, MW-17R, MW-22, MW-1A, MW-2A and MW-4A. No detectable concentrations of requested method constituents were reported in the water supply well samples. A Ground Water Quality Map based on data from the April 2018 sampling event has been included as **Figure 4**. Summaries of ground water sample analytical results are presented in **Tables 2** and **3**. A complete laboratory analytical report has been included as **Appendix C**. Field data information sheets have been included as **Appendix D**. A disposal manifest for purge water generated during sampling activities has been included as **Appendix E**.

5.0 QA/QC

All monitoring well installation, development, gauging, purging and sampling activities were conducted in general accordance with the SCDHEC Programmatic QAPP and the approved Site Specific Work Plan and the approved site specific Contractor Addendum. All wells were purged and/or sampled with dedicated disposable bailers. All field measurement equipment was properly decontaminated between sampling locations. Duplicate samples from monitoring wells MW-1, MW-3 and WSW-1 as well as a field blank for both the monitoring wells and the water supply wells were collected during the sampling activities. Trip blanks were

included in the sample cooler. Laboratory results for MW-1 and MW-1 DUP A, MW-3 and MW-3 DUP B as well as WSW-1 and WSW-1 DUP C showed similar concentrations. No detectable concentrations of requested method constituents were reported for the trip blanks or field blanks. All applicable items on the Contractor Checklist were reviewed and verified. A copy of the Contractor Checklist is included as **Appendix F**.

6.0 CONCLUSIONS AND RECOMMENDATIONS

- Replacement monitoring wells MW-5R, MW-11R, MW-12R, MW-16R, MW-17R and MW-18R were installed at the site in March 2018.
- A professional survey was completed at the site in May 2018.
- A total of twenty nine Type III monitoring wells, two telescoping monitoring wells and two water supply wells were gauged, purged and/or sampled in April 2018. Ground water flow at the site based on the April 2018 event was generally toward the west. The horizontal hydraulic gradient across the site was less than 0.01 feet per foot. The vertical hydraulic gradient was 0.018 feet per foot downward.
- Concentrations of benzene, toluene, ethylbenzene, xylenes, MTBE, naphthalene and/or EDB that exceeded the RBSLs were reported in the ground water samples collected from MW-1, MW-2, MW-3, MW-16R, MW-17R, MW-1A, MW-2A, MW-4A and TW-2. Concentrations of oxygenates that exceeded the action levels were reported in the samples collected from MW-1, MW-2, MW-3, MW-16R, MW-17R, MW-22, MW-1A, MW-2A and MW-4A. No detectable concentrations of requested method constituents were reported in the water supply well samples.
- Free product was historically encountered in several monitoring wells. Based on the historical presence of free product and high levels of dissolved phase concentrations, an AFVR event is recommended for the affected wells.
- Ground water sampling should continue as directed by the SCDHEC.

7.0 LIMITATIONS

This report has been prepared for the exclusive use of Mr. Marty Easler and the SCDHEC for specific application to the referenced site in Williamsburg County, South Carolina. The assessment was conducted based on the scope of work and level of effort specified by the SCDHEC and with resources adequate only for that scope of work. Our findings have been developed in accordance with generally accepted standards of geology and hydrogeology practices in the State of South Carolina, available information, and our professional judgment. No other warranty is expressed or implied.

The data that are presented in this report are indicative of conditions that existed at the precise locations sampled and at the time the samples were collected. In addition, the data obtained from samples would be interpreted as being meaningful with respect to parameters indicated in the laboratory report. No additional information can logically be inferred from these data.

FIGURES

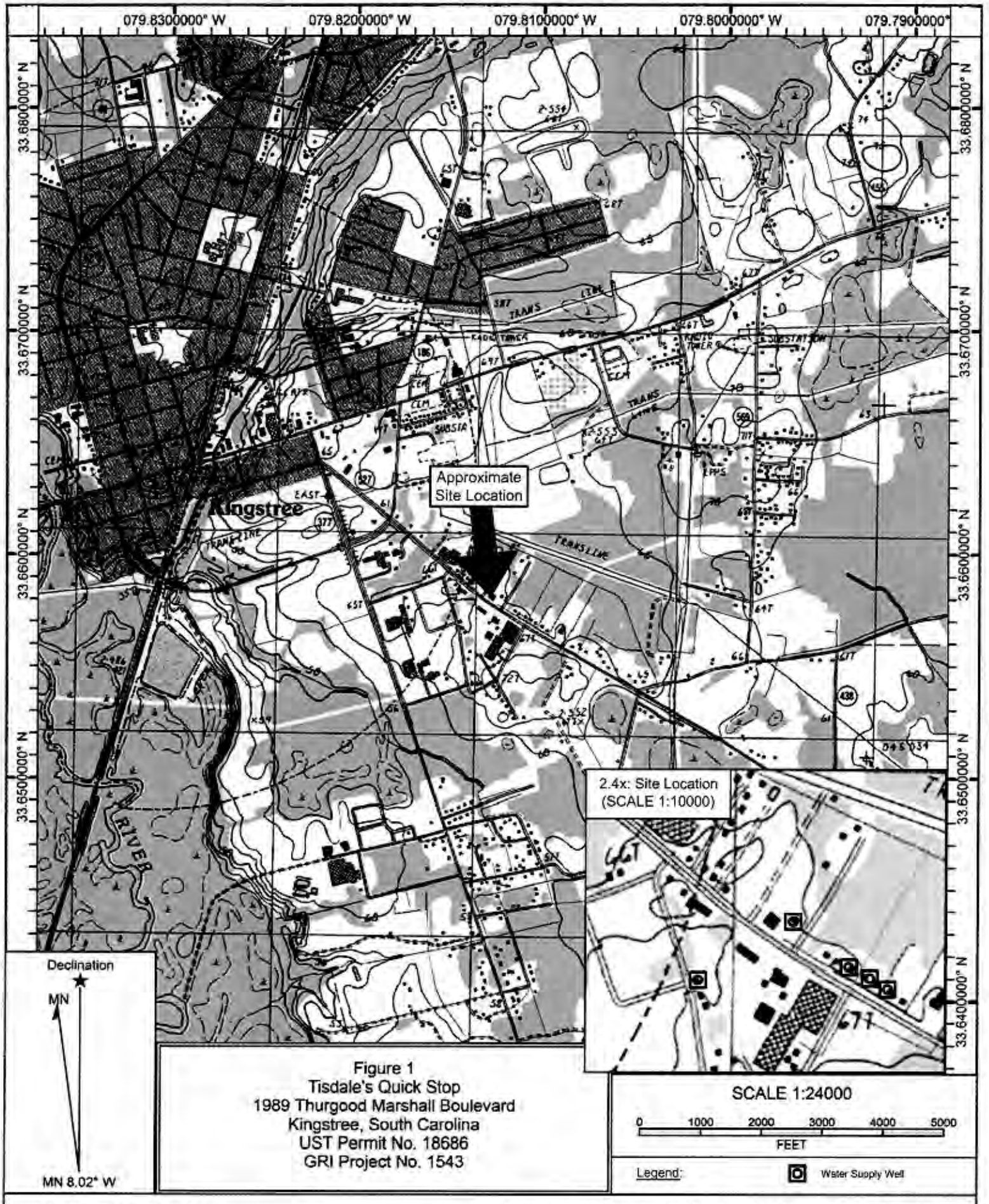


Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit No. 18686
GRI Project No. 1543

Name: Topographic Map
Date: 08/08/16
Scale: 1 inch = 2,000 ft.

Map Center Location: 033.6579897° N 079.8127613° W

Generated by Geological Resources, Inc.

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- TYPE III MONITORING WELL NOT FOUND
- WATER SUPPLY WELL
- LIGHT POLE
- TELEPHONE PEDESTAL
- SEWER MANHOLE
- FIRE HYDRANT
- FIBER OPTIC CABLE MARKER
- PROPERTY LINE
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND WATER LINE
- PP & OVERHEAD POWER LINE
- UNDERGROUND SEWER LINE
- UNDERGROUND GAS LINE
- UNDERGROUND FIBER OPTIC LINE
- DITCH
- FENCE
- BENCHMARK
- 18-055 WILLIAMSBURG COUNTY TAX MAP NUMBER
- (18) PARCEL NUMBER

N

18-055 (20)
18-055 (21)
18-055 (22)
18-055 (23)
18-055 (24)
18-055 (18)
18-055 (19)
18-056 (18)
18-056 (19)
11-40 (1)

SALVATION AVE
WARSAW ROAD
SC HIGHWAY 527
DRIVEWAY
CONC.
Open Grass Field
WOODS
Shed
LUCKY 777
Mobile Home
Gate
Tisdale's Quick Stop
1/2" REBAR IN P.P.
ASSUMED ELEV. 100.00'
Block Storage Buildings
Williamsburg Technical College
State Dept. of Educ. School Bus Maint. Shop
WSW-2 (INACTIVE)
Abandoned Residence
Canopy
Diesel Dispenser

MW-1, MW-1A, MW-2, MW-2A, MW-3, MW-4, MW-4A, MW-5, MW-5R, MW-6, MW-7, MW-8, MW-9, MW-11R, MW-12RC, MW-13, MW-14, MW-15, MW-16R, MW-17R, MW-18R, MW-20, MW-21, MW-22, MW-23, MW-24, MW-25, MW-26, MW-27, MW-28, MW-31, TW-1, TW-2, WSW-1, WSW-3

Geological Resources, Inc.

0 50 100 200
(IN FEET)
1 inch = 100 ft

SITE MAP

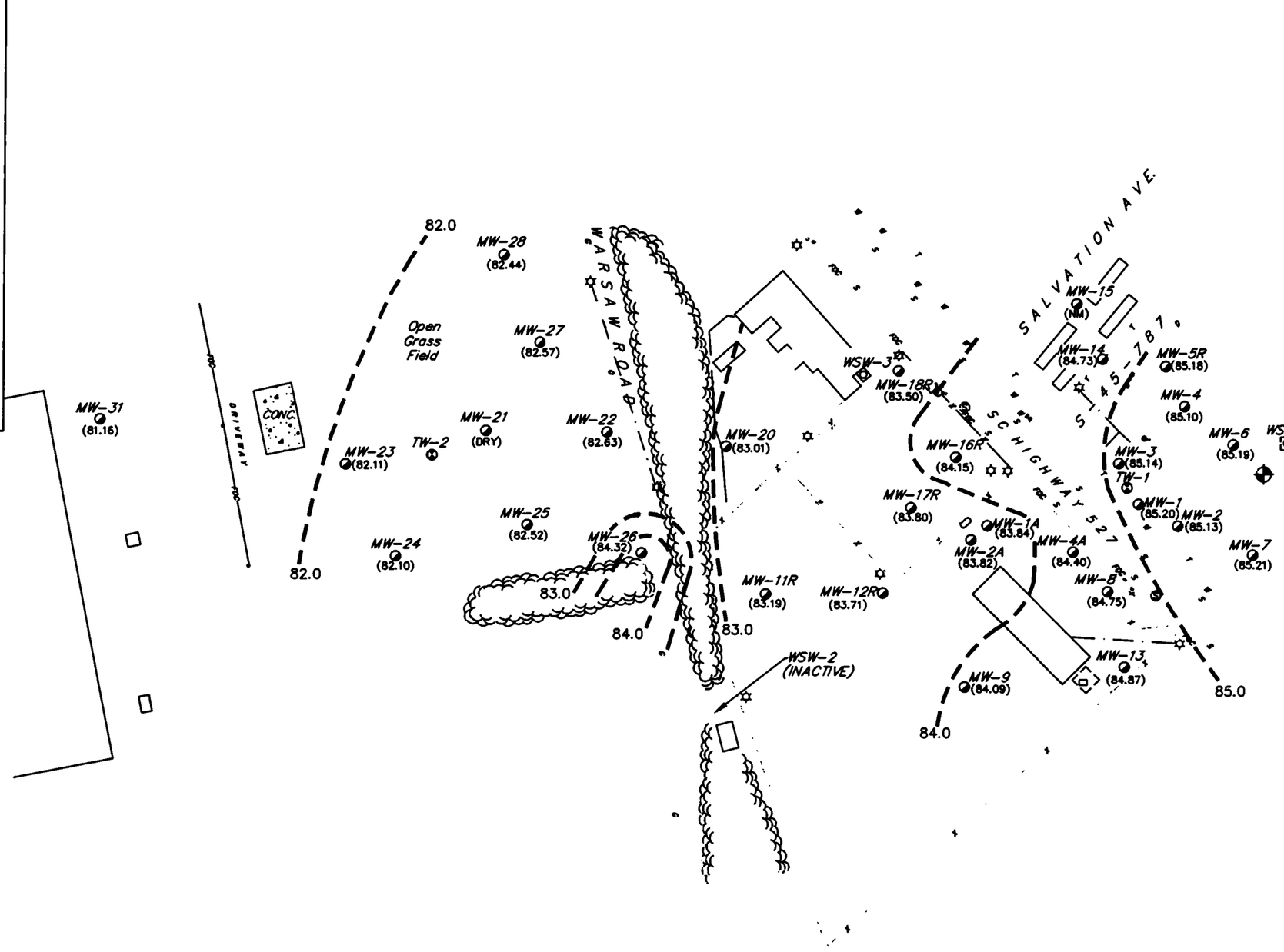
Tisdale's Quick Stop
UST Permit No. 18686
GRI Project No. 1543

1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County, SC

Date: 06/08/18 | Drawn by: DTH | Figure: 2

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- WATER SUPPLY WELL
- TYPE III MONITORING WELL NOT FOUND
- LIGHT POLE
- TELEPHONE PEDESTAL
- SEWER MANHOLE
- FIRE HYDRANT
- FIBER OPTIC CABLE MARKER
- PROPERTY LINE
- T — UNDERGROUND TELEPHONE LINE
- W — UNDERGROUND WATER LINE
- PP & OVERHEAD POWER LINE
- S — UNDERGROUND SEWER LINE
- G — UNDERGROUND GAS LINE
- FOC — UNDERGROUND FIBER OPTIC LINE
- D — DITCH
- X — FENCE
- BENCHMARK
- 85.0 — WATER TABLE SURFACE CONTOUR
- (85.68) GROUND WATER ELEVATION (FT.)
- (NM) NOT MEASURED



Geological Resources, Inc.

0 50 100 200

(IN FEET)
1 inch = 100 ft

WATER TABLE SURFACE MAP (04/18/18)

Tisdale's Quick Stop
UST Permit No. 18686
GRI Project No. 1543

1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County, SC

Date:	05/30/18	Drawn by:	DTH	Figure:	3

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- WATER SUPPLY WELL
- TYPE III MONITORING WELL NOT FOUND
- LIGHT POLE
- TELEPHONE PEDESTAL
- SEWER MANHOLE
- FIRE HYDRANT
- FIBER OPTIC CABLE MARKER
- PROPERTY LINE
- T — UNDERGROUND TELEPHONE LINE
- W — UNDERGROUND WATER LINE
- PP & OVERHEAD POWER LINE
- S — UNDERGROUND SEWER LINE
- G — UNDERGROUND GAS LINE
- FOC — UNDERGROUND FIBER OPTIC LINE
- D — DITCH
- X — FENCE
- BENCHMARK

3,140	BENZENE
9,130	TOLUENE
363	ETHYLBENZENE
4,590	XYLENES
82 4 J	MTBE
208 J	NAPHTHALENE
<0 0095	EDB

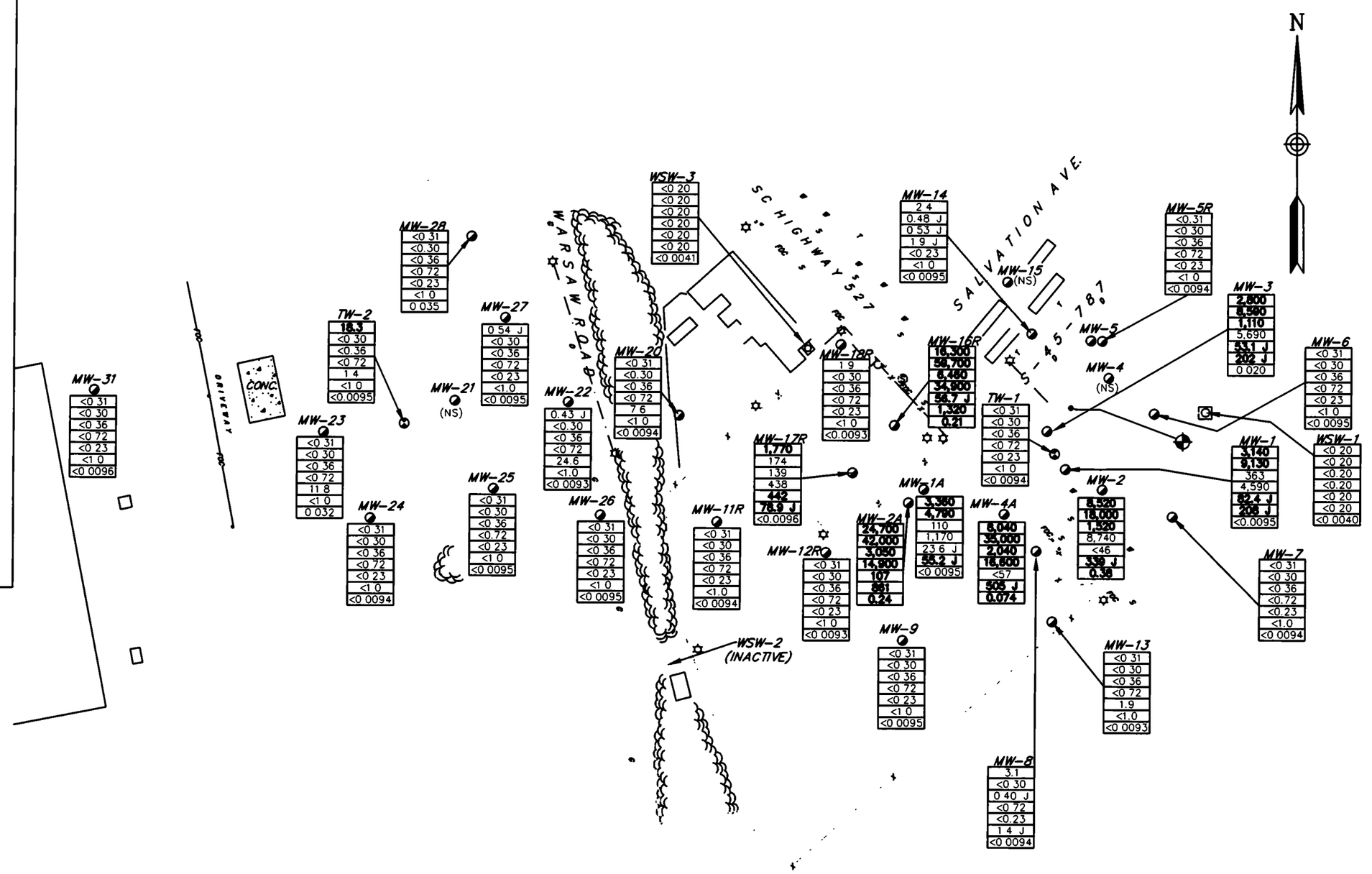
CONCENTRATIONS IN µg/L

<0.31 LESS THAN THE METHOD DETECTION LIMIT SPECIFIED IN THE LABORATORY REPORT

"J" ESTIMATED VALUE

CONCENTRATIONS IN BOLD FACE TYPE EXCEEDED THE RBSL

(NS) NOT SAMPLED



Geological Resources, Inc.

50 100 200

(IN FEET)
1 inch = 100 ft

GROUND WATER QUALITY MAP (04/18 & 04/19/18)

Tisdale's Quick Stop
UST Permit No. 18686
GRI Project No. 1543

1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County, SC

Date:	06/08/18	Drawn by:	DTH	Figure:	4

TABLES

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-1	01/16/03	98.81	15.72		83.09	20	10-20
	02/09/04		14.25		84.56		
	09/23/04		11.94		86.87		
	01/21/05		13.09		85.72		
	03/23/06		12.43		86.38		
	01/07/09		15.12		83.69		
	11/04/09		15.58		83.23		
	11/22/11		17.46		81.35		
	11/06/13		14.83		83.98		
	08/27/14		14.52		84.29		
	01/15/15		13.53		85.28		
	06/23/15		13.64		85.17		
	07/18/16		13.87		84.94		
	03/08/17		13.13		85.68		
	04/18/18	98.80	13.60		85.20		
MW-2	01/16/03	98.82	17.35	1.90	83.10	25	10-25
	02/09/04		15.17	1.07	84.57		
	09/23/04		12.95	1.18	86.88		
	01/21/05		13.61	0.61	85.73		
	03/23/06		12.43		86.39		
	01/07/09		15.03	0.02	83.81		
	11/03/09		15.97	0.11	82.94		
	11/22/11		17.87		80.95		
	11/06/13		15.02	0.21	83.98		
	08/27/14		14.62	0.02	84.22		
	01/15/15		13.52		85.30		
	06/23/15		13.81		85.01		
	07/18/16		14.03		84.79		
	03/08/17		13.20		85.62		
	04/18/18	98.81	13.68		85.13		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-3	01/16/03	98.74	15.36	0.33	83.66	25	10-25
	02/09/04		14.34	0.19	84.56		
	09/23/04		12.12	0.06	86.67		
	01/21/05		13.38	0.02	85.38		
	03/23/06		12.37		86.37		
	01/07/09		15.27	0.12	83.57		
	11/03/09		15.82	0.12	83.02		
	11/22/11		17.47	0.04	81.30		
	11/06/13		14.69	0.01	84.06		
	08/27/14		14.48		84.26		
	01/15/15		13.52		85.22		
	06/23/15		13.68		85.06		
	07/18/16		13.93		84.81		
	03/08/17		13.12		85.62		
	04/18/18	98.75	13.61		85.14		
MW-4	01/16/03	98.58	15.06		83.52	25	10-25
	02/09/04		14.01		84.57		
	09/23/04		11.96		86.62		
	01/21/05		13.13		85.45		
	03/23/06		12.24		86.34		
	01/07/09		14.84		83.74		
	11/04/09		15.68		82.90		
	11/22/11		OBS		OBS		
	11/06/13		OBS		OBS		
	08/27/14		OBS		OBS		
	01/15/15		13.37		85.21		
	06/23/15		OBS		OBS		
	07/18/16		OBS		OBS		
	03/08/17		13.05		85.53		
	04/18/18		13.48		85.10		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-5	01/16/03	98.13	14.77		83.36	22	12-22
	02/09/04		13.77		84.36		
	09/23/04		11.71		86.42		
	01/21/05		13.14		84.99		
	03/23/06		12.80		85.33		
	01/07/09		14.96		83.17		
	11/04/09		15.26		82.87		
	11/22/11		OBS		OBS		
	11/06/13		OBS		OBS		
	08/27/14		OBS		OBS		
	01/15/15		OBS		OBS		
	06/23/15		OBS		OBS		
	07/18/16		OBS		OBS		
	03/08/17		OBS		OBS		
MW-5R	04/18/18	98.23	13.05		85.18	25	10-25
MW-6	01/16/03	98.50	14.64		83.86	21.5	11.5-21.5
	02/09/04		13.86		84.64		
	09/23/04		11.86		86.64		
	01/21/05		13.38		85.12		
	03/23/06		12.81		85.69		
	01/07/09		15.00		83.50		
	11/03/09		15.23		83.27		
	11/22/11		17.47		81.03		
	11/06/13		14.39		84.11		
	08/27/14		14.27		84.23		
	01/15/15		13.07		85.43		
	06/23/15		13.46		85.04		
	07/18/16		13.74		84.76		
	03/08/17		13.06		85.44		
	04/18/18	98.42	13.23		85.19		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-7	01/16/03	98.19	14.69		83.50	22	12-22
	02/09/04		13.56		84.63		
	09/23/04		11.56		86.63		
	01/21/05		12.78		85.41		
	03/23/06		11.73		86.46		
	01/07/09		14.60		83.59		
	11/03/09		15.27		82.92		
	11/22/11		17.32		80.87		
	11/06/13		14.26		83.93		
	08/27/14		14.05		84.14		
	01/15/15		12.81		85.38		
	06/23/15		13.19		85.00		
	07/18/16		13.45		84.74		
	03/08/17		12.58		85.61		
	04/18/18	98.20	12.99		85.21		
MW-8	01/16/03	98.17	14.85		83.32	22	12-22
	02/09/04		13.98		84.19		
	09/23/04		12.07		86.10		
	01/21/05		13.33		84.84		
	03/23/06		12.14		86.03		
	01/08/09		15.00		83.17		
	11/03/09		15.45		82.72		
	11/22/11		17.55		80.62		
	11/06/13		14.45		83.72		
	08/27/14		14.31		83.86		
	01/15/15		13.27		84.90		
	06/23/15		13.38		84.79		
	07/18/16		13.61		84.56		
	03/08/17		12.89		85.28		
	04/18/18	98.14	13.39		84.75		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-9	01/16/03	98.52	15.79		82.73	22	12-22
	02/09/04		15.00		83.52		
	09/23/04		13.12		85.40		
	01/21/05		14.64		83.88		
	03/23/06		13.29		85.23		
	01/08/09		16.01		82.51		
	11/03/09		16.56		81.96		
	11/22/11		18.73		79.79		
	11/06/13		15.51		83.01		
	08/27/14		15.35		83.17		
	01/15/15		14.59		83.93		
	06/23/15		14.29		84.23		
	07/18/16		14.42		84.10		
	03/08/17		14.02		84.50		
	04/18/18	98.50	14.41		84.09		
MW-10	01/16/03	98.68	16.52		82.16	25	10-25
	02/09/04		15.79		82.89		
	09/23/04		13.97		84.71		
	01/21/05		15.35		83.33		
	03/23/06		14.18		84.50		
	01/08/09		15.75		82.93		
	11/03/09		17.41		81.27		
	11/22/11		19.43		79.25		
	11/06/13		13.37		85.31		
	08/27/14		16.16		82.52		
	01/15/15		15.26		83.42		
	06/23/15		15.16		83.52		
	07/18/16		15.28		83.40		
	03/08/17		14.84		83.84		
	04/18/18	NM	NM	NM	NM		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-11	01/16/03	94.65	12.89		81.76	22	7-22
	02/09/04		12.10		82.55		
	09/23/04		10.51		84.14		
	01/21/05		11.68		82.97		
	03/23/06		10.55		84.10		
	01/08/09		NM		NM		
MW-11R	04/18/18	95.13	11.94		83.19	20	5-20
MW-12	01/16/03	95.70	13.13		82.57	22	7-22
	02/09/04		12.35		83.35		
	09/23/04		12.67		83.03		
	01/21/05		12.06		83.64		
	03/23/06		10.80		84.90		
	01/08/09		NM		NM		
MW-12R	04/18/18	96.04	12.33		83.71	20	5-20
MW-13	01/16/03	99.01	15.65		83.36	25	10-25
	02/09/04		14.70		84.31		
	09/23/04		12.90		86.11		
	01/21/05		14.05		84.96		
	03/23/06		12.82		86.19		
	01/08/09		15.68		83.33		
	11/03/09		16.30		82.71		
	11/22/11		18.57		80.44		
	11/06/13		15.25		83.76		
	08/27/14		15.08		83.93		
	01/15/15		13.94		85.07		
	06/23/15		14.15		84.86		
	07/18/16		14.37		84.64		
	03/08/17		13.67		85.34		
	04/18/18	98.97	14.10		84.87		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-14	01/16/03	98.36	15.12		83.24	25	10-25
	02/09/04		14.24		84.12		
	09/23/04		12.03		86.33		
	01/21/05		13.78		84.58		
	03/23/06		12.75		85.61		
	01/08/09		15.32		83.04		
	11/04/09		15.77		82.59		
	11/22/11		17.72		80.64		
	11/06/13		15.86		82.50		
	08/27/14		14.58		83.78		
	01/15/15		14.61		83.75		
	06/23/15		13.00		85.36		
	07/18/16		13.98		84.38		
	03/08/17		12.31		86.05		
	04/18/18	98.37	13.64		84.73		
MW-15	01/16/03	99.59	16.40		83.19	25	10-25
	02/09/04		15.55		84.04		
	09/23/04		13.50		86.09		
	01/21/05		14.89		84.70		
	03/23/06		13.92		85.67		
	01/08/09		16.63		82.96		
	11/04/09		17.16		82.43		
	11/22/11		19.15		80.44		
	11/06/13		16.26		83.33		
	08/27/14		15.96		83.63		
	01/15/15		14.94		84.65		
	06/23/15		15.08		84.51		
	07/18/16		15.25		84.34		
	03/08/17		14.76		84.83		
	04/18/18	99.53	NM	NM	NM		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-16	01/16/03	98.93	16.21	0.04	82.75	23	8-23
	02/09/04		15.24	0.04	83.72		
	09/23/04		13.55		85.38		
	01/21/05		14.81	0.02	84.14		
	03/23/06		13.60		85.33		
	01/08/09		16.21		82.72		
	11/04/09		16.57		82.36		
	11/22/11		NM		NM		
MW-16R	04/18/18	97.98	13.83		84.15	25	10-25
MW-17	01/16/03	98.25	16.00	0.07	82.31	23	8-23
	02/09/04		14.55		83.70		
	09/23/04		12.82		85.43		
	01/21/05		13.78		84.47		
	03/23/06		NM		NM		
MW-17R	04/18/18	96.90	13.10		83.80	25	10-25
MW-18	01/16/03	99.83	17.70		82.13	25	10-25
	02/09/04		16.91		82.92		
	09/23/04		15.06		84.77		
	01/21/05		16.45		83.38		
	03/23/06		15.31		84.52		
	01/08/09		17.89		81.94		
	11/04/09		18.40		81.43		
	11/22/11		20.20		79.63		
	11/06/13		NM		NM		
MW-18R	04/18/18	99.36	15.86		83.50	25	10-25

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-19	01/16/03	100.27	18.54		81.73	25	10-25
	02/09/04		17.63		82.64		
	09/23/04		16.00		84.27		
	01/21/05		17.21		83.06		
	03/23/06		16.15		84.12		
	01/08/09		NM		NM		
	11/04/09		19.22		81.05		
	11/22/11		20.93		79.34		
	11/06/13		18.50		81.77		
	08/27/14		18.08		82.19		
	01/15/15		17.26		83.01		
	06/23/15		17.14		83.13		
	07/18/16		17.23		83.04		
	03/08/17		16.78		83.49		
	04/18/18	NM	NM	NM	NM		
MW-20	01/16/03	97.21	15.59		81.62	25	10-25
	02/09/04		14.74		82.47		
	09/23/04		13.15		84.06		
	01/21/05		14.33		82.88		
	03/23/06		13.21		84.00		
	01/08/09		NM		NM		
	11/04/09		16.30		80.91		
	11/22/11		18.02		79.19		
	11/06/13		15.36		81.85		
	08/27/14		15.18		82.03		
	01/15/15		14.41		82.80		
	06/23/15		14.21		83.00		
	07/18/16		14.30		82.91		
	03/08/17		13.88		83.33		
	04/18/18	97.19	14.18		83.01		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-21	01/16/03	95.72	14.70		81.02	23	8-23
	02/09/04		13.85		81.87		
	09/23/04		12.27		83.45		
	01/21/05		13.42		82.30		
	03/23/06		NM		NM		
	01/08/09		NM		NM		
	11/04/09		15.35		80.37		
	11/22/11		17.01		78.71		
	11/06/13		NM		NM		
	08/27/14		14.22		81.50		
	01/15/15		13.48		82.24		
	06/23/15		13.41		82.31		
	07/18/16		13.36		82.36		
	03/08/17		12.99		82.73		
	04/18/18	95.68	DRY	DRY	DRY		
MW-22	01/16/03	96.68	15.40		80.32	25	10-25
	02/09/04		14.61		82.07		
	09/23/04		12.92		83.76		
	01/21/05		14.15		82.53		
	03/23/06		13.21		83.47		
	01/08/09		15.54		81.14		
	11/04/09		16.08		80.60		
	11/22/11		17.75		78.93		
	11/06/13		15.17		81.51		
	08/27/14		15.00		81.68		
	01/15/15		14.17		82.51		
	06/23/15		14.14		82.54		
	07/18/16		14.15		82.53		
	03/08/17		13.76		82.92		
	04/18/18	96.62	13.99		82.63		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-23	01/16/03	95.78	15.08		80.70	24	9-24
	02/09/04		14.30		81.48		
	09/23/04		12.72		83.06		
	01/20/05		13.82		81.96		
	03/23/06		13.09		82.69		
	01/08/09		15.21		80.57		
	11/04/09		15.64		80.14		
	11/22/11		17.28		78.50		
	11/06/13		14.82		80.96		
	08/27/14		14.71		81.07		
	01/15/15		13.89		81.89		
	06/23/15		13.75		82.03		
	07/18/16		13.90		81.88		
	03/08/17		13.43		82.35		
	04/18/18		13.67		82.11		
MW-24	01/16/03	93.86	13.00		80.86	23	8-23
	02/09/04		12.19		81.67		
	09/23/04		10.58		83.28		
	01/20/05		11.71		82.15		
	03/23/06		10.87		82.99		
	01/08/09		13.17		80.69		
	11/04/09		13.79		80.07		
	11/22/11		15.28		78.58		
	11/06/13		12.86		81.00		
	08/27/14		12.62		81.24		
	01/15/15		11.73		82.13		
	06/23/15		11.79		82.07		
	07/18/16		11.81		82.05		
	03/08/17		11.37		82.49		
	04/18/18	93.85	11.75		82.10		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-25	01/16/03	94.30	13.20		81.10	23	8-23
	02/09/04		12.37		81.93		
	09/23/04		10.74		83.56		
	01/20/05		11.99		82.31		
	03/23/06		11.00		83.30		
	01/08/09		13.34		80.96		
	11/04/09		13.83		80.47		
	11/22/11		15.56		78.74		
	11/06/13		13.00		81.30		
	08/27/14		12.79		81.51		
	01/15/15		11.91		82.39		
	06/23/15		11.92		82.38		
	07/18/16		11.98		82.32		
	03/08/17		11.49		82.81		
	04/18/18	94.28	11.76		82.52		
MW-26	01/16/03	93.88	12.38		81.50	21	6-21
	02/09/04		11.62		82.26		
	09/23/04		10.03		83.85		
	01/20/05		11.18		82.70		
	03/23/06		10.58		83.30		
	01/08/09		12.44		81.44		
	11/04/09		13.26		80.62		
	11/22/11		14.92		78.96		
	11/06/13		12.31		81.57		
	08/27/14		12.09		81.79		
	01/15/15		10.10		83.78		
	06/23/15		11.21		82.67		
	07/18/16		11.26		82.62		
	03/08/17		10.76		83.12		
	04/18/18	93.92	9.60		84.32		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-27	01/16/03	98.15	16.99		81.16	25	10-25
	02/09/04		16.20		81.95		
	09/23/04		14.61		83.54		
	01/21/05		15.81		82.34		
	03/23/06		14.84		83.31		
	01/08/09		17.20		80.95		
	11/04/09		17.64		80.51		
	11/22/11		19.30		78.85		
	11/06/13		16.74		81.41		
	08/27/14		16.61		81.54		
	01/15/15		15.79		82.36		
	06/23/15		15.74		82.41		
	07/18/16		15.77		82.38		
	03/08/17		15.37		82.78		
	04/18/18	98.18	15.61		82.57		
MW-28	01/16/03	98.45	17.46		80.99	25	10-25
	02/09/04		16.55		81.90		
	09/23/04		15.00		83.45		
	01/21/05		16.17		82.28		
	03/23/06		15.21		83.24		
	01/08/09		NM		NM		
	11/04/09		18.00		80.45		
	11/22/11		19.60		78.85		
	11/06/13		17.11		81.34		
	08/27/14		16.96		81.49		
	01/15/15		16.19		82.26		
	06/23/15		16.10		82.35		
	07/18/16		16.16		82.29		
	03/08/17		15.72		82.73		
	04/18/18	98.43	15.99		82.44		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-29	01/16/03	96.78	16.17		80.61	25	10-25
	02/09/04		15.30		81.48		
	09/23/04		13.74		83.04		
	01/20/05		14.69		82.09		
	03/23/06		14.12		82.66		
	01/08/09		16.31		80.47		
	11/04/09		16.71		80.07		
	11/22/11		18.26		78.52		
	11/06/13		15.89		80.89		
	08/27/14		15.74		81.04		
	01/15/15		14.98		81.80		
	06/23/15		14.95		81.83		
	07/18/16		14.94		81.84		
	03/08/17		14.53		82.25		
	04/18/18	NM	NM	NM	NM		
MW-30	01/16/03	95.38	15.18		80.20	22	7-22
	02/09/04		14.36		81.02		
	09/23/04		12.85		82.53		
	01/20/05		13.72		81.66		
	03/23/06		13.04		82.34		
	01/08/09		15.41		79.97		
	11/04/09		15.74		79.64		
	11/22/11		17.36		78.02		
	11/06/13		14.95		80.43		
	08/27/14		14.75		80.63		
	01/15/15		14.04		81.34		
	06/23/15		14.01		81.37		
	07/18/16		13.97		81.41		
	03/08/17		13.71		81.67		
	04/18/18	NM	NM	NM	NM		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-31	09/23/04	96.05	13.88		82.17	20	10-20
	01/20/05		14.73		81.32		
	03/23/06		14.22		81.83		
	01/08/09		16.49		79.56		
	11/04/09		16.37		79.68		
	11/22/11		18.20		77.85		
	11/06/13		15.81		80.24		
	08/27/14		15.71		80.34		
	01/15/15		15.06		80.99		
	06/23/15		14.98		81.07		
	07/18/16		14.91		81.14		
	03/08/17		14.53		81.52		
	04/18/18	95.95	14.79		81.16		
MW-1A	01/21/05	97.20	13.46	0.09	83.82	Unknown	Unknown
	03/23/06		12.11		85.09		
	01/08/09		14.99		82.21		
	11/03/09		15.25	0.06	82.00		
	11/22/11		17.76	0.85	80.17		
	11/06/13		14.11	0.01	83.10		
	08/27/14		14.08		83.12		
	01/15/15		13.40		83.80		
	06/23/15		13.10		84.10		
	07/18/16		13.23		83.97		
	03/08/17		12.81		84.39		
	04/18/18	97.17	13.33		83.84		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-2A	01/21/05	97.30	13.63	0.28	83.91	Unknown	Unknown
	03/23/06		12.54	0.31	85.03		
	01/08/09		15.86	0.54	81.90		
	11/03/09		15.61	0.02	81.71		
	11/22/11		17.26		80.04		
	11/06/13		14.25	0.03	83.08		
	08/27/14		14.21		83.09		
	01/15/15		13.74		83.56		
	06/23/15		13.14		84.16		
	07/18/16		13.31		83.99		
	03/08/17		13.42		83.88		
	04/18/18	97.28	13.46		83.82		
MW-3A	01/21/05	97.27	13.46	0.22	84.00	Unknown	Unknown
	03/23/06		12.22	0.03	85.08		
	01/08/09		15.68	1.00	82.45		
	11/03/09		15.63	0.47	82.04		
	11/22/11		18.02	0.82	79.95		
	11/06/13		14.12	0.06	83.20		
	08/27/14		14.08		83.19		
	01/15/15		13.46		83.81		
	06/23/15		12.98		84.29		
	07/18/16		13.11		84.16		
	03/08/17		12.81		84.46		
	04/18/18	NM	NM	NM	NM		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-4A	01/21/05	98.09	13.06	0.02	85.05	Unknown	Unknown
	03/23/06		12.43		85.66		
	01/08/09		16.02	0.85	82.80		
	11/03/09		15.62	0.02	82.49		
	11/22/11		17.84	0.02	80.27		
	11/06/13		14.61		83.48		
	08/27/14		14.52		83.57		
	01/15/15		13.81		84.28		
	06/23/15		13.60		84.49		
	07/18/16		13.78		84.31		
	03/08/17		13.18		84.91		
	04/18/18	98.07	13.67		84.40		
TW-1	01/16/03	99.01	15.14		83.87	46	41-46
	02/09/04		14.81		84.20		
	09/23/04		13.16		85.85		
	01/21/05		14.39		84.62		
	03/23/06		13.35		85.66		
	01/08/09		15.97		83.04		
	11/04/09		16.84		82.17		
	11/22/11		18.76		80.25		
	11/06/13		15.76		83.25		
	08/27/14		15.54		83.47		
	01/15/15		14.31		84.70		
	06/23/15		14.68		84.33		
	07/18/16		14.84		84.17		
	03/08/17		14.08		84.93		
	04/18/18	99.00	14.40		84.60		

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
TW-2	01/16/03	95.26	14.33		80.93	51	46-51
	02/09/04		13.58		81.68		
	09/23/04		11.98		83.28		
	01/21/05		13.07		82.19		
	03/23/06		12.10		83.16		
	01/08/09		14.52		80.74		
	11/04/09		15.01		80.25		
	11/22/11		16.63		78.63		
	11/06/13		14.19		81.07		
	08/27/14		13.97		81.29		
	01/15/15		13.14		82.12		
	06/23/15		13.12		82.14		
	07/18/16		13.17		82.09		
	03/08/17		12.67		82.59		
	04/18/18	95.29	12.96		82.33		

Notes:

- Elevations relative to a temporary benchmark with an assumed datum of 100.00 feet; data reported in feet.
- ** : If free product is present in a well, groundwater elevation calculated by: [Top of Casing Elevation - Depth to Water] + [free product thickness x 0.8581].
- NM: Not measured; monitoring well is destroyed, covered or could not be located.
- OBS: Monitoring well obstructed.
- Monitoring wells MW-1A through MW-4A were installed by S&ME Consultants in January 2000.
- Monitoring wells MW-16 and MW-17 were completed above grade with stand up covers; depths to ground water were measured from the tops of casing; well depths and screened intervals were measured from the ground surface.

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
MW-1	01/17/03	17,300	31,000	2,220	12,800	495	515	-	0.13
	02/09/04	11,400	19,600	1,010	12,000	395	525	-	NR
	10/07/04	4,160	7,500	504	4,400	348	290	-	0.03
	01/21/05	8,150	13,500	790	7,170	560	<500	-	NR
	03/24/06	7,800	11,800	552	6,640	833	<100	-	NR
	01/07/09	15,700	15,100	1,600	12,310	1,120	878	<500	0.092
	11/04/09	7,120	12,600	988	6,940	<500	<500	<500	0.056
	11/23/11	6,630	9,340	664	4,300	399	210 J	<20	NR
	11/06/13	4,870	8,550	659	4,900	125	165 J	<22	NR
	08/27/14	5,210	11,900	824	6,010	134 J	239 J	<48	<0.0095
	01/16/15	3,820	8,360	641	4,760	105	217 J	<24	<0.0097
	06/24/15	4,370	10,900	841	6,320	94.5 J	258 J	<20	<0.0096
	07/19/16	4,500	13,000	860	6,720	108 J	338 J	<57	<0.0096
	03/09/17	5,460	10,800	713	6,220	131 J	381 J	<57	0.010 J
	04/18/18	3,140	9,130	363	4,590	82.4 J	208 J	<62	<0.0095
MW-1 DUP	11/06/13	5,090	10,600	687	4,830	105 J	<200	<44	NR
	08/27/14	5,210	12,300	845	6,140	130 J	210 J	<48	<0.0095
	01/16/15	3,690	8,250	623	4,860	105	196 J	<20	<0.0097
	03/09/17	5,730	12,700	767	6,450	138 J	<200	<62	<0.0095
	04/18/18	3,150	9,420	339	4,810	79.6 J	221 J	<31	<0.0096
MW-2	01/17/03	FP	FP	FP	FP	FP	FP	FP	FP
	02/09/04	FP	FP	FP	FP	FP	FP	FP	FP
	10/07/04	FP	FP	FP	FP	FP	FP	FP	FP
	01/21/05	FP	FP	FP	FP	FP	FP	FP	FP
	03/24/06	14,600	17,900	2,240	12,000	164	495	FP	NR
	01/07/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/03/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/23/11	20,100	23,800	1,810	9,030	89.8 J	413 J	<50	NR
	11/06/13	FP	FP	FP	FP	FP	FP	FP	FP
	01/16/15	3,920	3,910	181	1,000	26.1 J	69.9	<12	0.17
	06/24/15	5,560	11,400	1,040	6,020	17.4 J	239 J	<10	0.26
	07/19/16	12,700	33,900	4,280	27,300	57.1 J	1,560	<71	0.80
	03/09/17	12,800	23,700	2,240	12,100	<46	520 J	<62	0.45
	04/18/18	8,520	18,000	1,520	8,740	<46	339 J	<62	0.38
MW-2 DUP (DUP A)	11/23/11	20,600	24,500	2,030	10,000	92.5 J	620 J	<50	NR
	07/19/16	11,500	24,400	2,870	17,000	<100	1,060 J	<140	0.72

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
MW-3	01/17/03	FP	FP	FP	FP	FP	FP	FP	FP
	02/09/04	FP	FP	FP	FP	FP	FP	FP	FP
	10/07/04	FP	FP	FP	FP	FP	FP	FP	FP
	01/21/05	FP	FP	FP	FP	FP	FP	FP	FP
	03/24/06	**54.6**	44.4	17.1	660	2.04	8	FP	NR
	01/07/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/03/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/22/11	FP	FP	FP	FP	FP	FP	FP	FP
	11/06/13	FP	FP	FP	FP	FP	FP	FP	FP
	08/27/14	3.7	6.9	6.0	44.2	<0.20	5.0	<0.24	<0.0096
	01/16/15	**27.4**	19.1	7.5	65.8	0.48 J	1.1 J	<0.24	<0.0094
	06/24/15	0.73 J	12.6	9.1	77.6	<0.30	5.7	<0.20	<0.0096
	07/19/16	**2,120**	**7,020**	**763**	4,140	**68.3 J**	**210 J**	<28	0.025
	03/09/17	**3,370**	**8,350**	**1,120**	5,550	**65.5 J**	**243 J**	<31	0.044
	04/18/18	**2,800**	**8,590**	**1,110**	5,690	**53.1 J**	**202 J**	<31	0.020
MW-3 DUP B	06/24/15	0.24 J	14.2	16.1	112	<0.30	8.1	<0.20	<0.0095
	04/18/18	**2,810**	**7,940**	**970**	5,020	**57.0 J**	**170 J**	<31	0.019
MW-4	01/17/03	3.7	<1.0	1.8	7.2	<1.0	7.4	FP	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	FP	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	FP	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	FP	NR
	03/24/06	0.200J	<1.00	<1.00	1.44	0.340J	<1.00	FP	NR
	01/07/09	**5.9**	<5.0	<5.0	6.0	<5.0	8.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
	07/19/16	NS	NS	NS	NS	NS	NS	NS	NS
	03/09/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0094
	04/18/18	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	01/17/03	<1.0	<1.0	1.7	3.4	<1.0	7.1	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	0.350J	<1.00	<1.00	-	NR
	01/07/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	**0.066**
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	01/15/15	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
	07/19/16	NS	NS	NS	NS	NS	NS	NS	NS
	03/08/17	NS	NS	NS	NS	NS	NS	NS	NS
MW-5R	04/18/18	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0094

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
MW-6	01/17/03	<1.0	<1.0	1.9	3.8	<1.0	7	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/07/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0099
	03/09/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	**0.057**
	04/18/18	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0095
MW-7	01/17/03	**70.3**	145	24.3	308	1.8	**25.7**	-	<0.02
	02/09/04	<1.0	11.4	60.2	441	<1.0	**40.7**	-	NR
	10/07/04	<1.0	1.1	2.4	25	<1.0	5.8	-	<0.02
	01/21/05	<1.0	<1.0	4.5	26.9	<1.0	17.5	-	NR
	03/24/06	<1.00	<1.00	<1.00	23.3	0.260J	9.62	-	NR
	01/07/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	12.2	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	0.62 J	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	0.41 J	<1.0	<0.24	<0.0096
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0098
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/19/16	<0.20	<0.20	<0.25	<0.56	0.31 J	<1.0	<0.28	<0.0099
	03/09/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	0.024
	04/18/18	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0094
MW-8	01/17/03	**1,480**	**11,800**	**1,930**	9,930	6.3	<500	-	<0.02
	02/09/04	**59**	**1,700**	424	2,380	<5.0	**96**	-	NR
	10/07/04	<1.0	3.2	7.4	71.1	<1.0	9	-	<0.02
	01/21/05	**12**	161	55.6	1,100	<1.0	**52.2**	-	NR
	03/24/06	4.19	24.1	118	1,070	<1.00	**102**	-	NR
	01/08/09	**16.8**	<5.0	<5.0	200.6	<5.0	18.5	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	12.8	<5.0	**34.7**	<5.0	<0.020
	11/22/11	**11.6**	1.3	8.1	7.0	<0.34	19.3	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	0.69 J	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0097
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0095
	07/19/16	4.5	<0.20	2.5	0.58 J	<0.20	2.4 J	<0.28	<0.0093
	03/09/17	4.6	<0.30	1.7	<0.72	<0.23	1.1 J	<0.31	<0.0094
	04/18/18	3.1	<0.30	0.40 J	<0.72	<0.23	1.4 J	<0.31	<0.0094
MW-8 DUP	11/06/13	0.33 J	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	01/15/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0097

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
MW-9	01/17/03	<1.0	<1.0	<1.0	<1.0	34	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	11.1	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	1.2	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	12.5	<5.00	-	NR
	03/24/06	<1.00	<1.00	0.270J	2.49	1.5	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/30/11	<0.20	<0.20	<0.20	<0.52	1.9	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	0.28 J	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0095
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0094
	03/09/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	0.016 J
	04/18/18	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0095
MW-10	01/17/03	<1.0	<1.0	<1.0	<1.0	1.5	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	0.490J	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/30/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0097
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0093
	03/09/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0095
	04/18/18	NS	NS	NS	NS	NS	NS	NS	NS
MW-11	01/17/03	<1.0	<1.0	<1.0	<1.0	1.6	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	23.7	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	5.1	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	0.250J	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
MW-11R	04/18/18	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0094

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
MW-12	01/17/03	<1.0	<1.0	<1.0	<1.0	2	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	01/15/15	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
MW-12R	04/18/18	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0093
MW-13	01/17/03	<1.0	<1.0	<1.0	<1.0	**42.5**	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	**145**	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	6.3	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	**40.8**	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	11	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/30/11	<0.20	<0.20	<0.20	<0.52	2.4	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	0.22 J	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	3.5	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	9.8	<1.0	<0.24	<0.0094
	06/24/15	<0.20	<0.40	<0.20	<0.51	3.2	<1.0	<0.20	<0.0096
	07/19/16	<0.20	<0.20	<0.25	<0.56	2.8	<1.0	<0.28	<0.0092
	03/09/17	<0.31	<0.30	<0.36	<0.72	11.6	<1.0	<0.31	<0.0096
	04/18/18	<0.31	<0.30	<0.36	<0.72	1.9	<1.0	<0.31	<0.0093
MW-14	01/17/03	3.4	<1.0	<1.0	4.5	<1.0	10.9	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	**79.5**	16.7	4.8	26.8	5.8	8.7 J	<0.40	NR
	11/06/13	0.24 J	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/16/15	0.73 J	0.27 J	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/18/16	**23.2**	4.4	1.6	7.5	0.71 J	<1.0	<0.28	<0.0095
	03/09/17	**7.3**	1.6	0.82 J	2.4 J	<0.23	<1.0	<0.31	0.027
	04/18/18	2.4	0.48 J	0.53 J	1.9 J	<0.23	<1.0	<0.31	<0.0095

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
MW-15	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0098
	03/09/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0095
	04/18/18	NS	NS	NS	NS	NS	NS	NS	NS
MW-16	01/17/03	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	02/09/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	10/07/04	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	01/21/05	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	03/24/06	**14,600**	**20,300**	**2,080**	**11,800**	**536**	**1,080**	-	NR
	01/08/09	**2,660**	**6,520**	**930**	5,100	<25.0	**633**	<25.0	<0.020
	11/04/09	**18,500**	**33,300**	**2,880**	**16,300**	**454**	**928**	<250	**0.30**
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
	07/18/16	NS	NS	NS	NS	NS	NS	NS	NS
MW-16R	04/18/18	**16,300**	**59,700**	**6,460**	**34,900**	**56.7 J**	**1,320**	<62	**0.21**
MW-17	01/17/03	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	-	**FP**
	02/09/04	<1.0	13.2	12.5	74.2	19	10.1	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	NS	NS	NS	NS	NS	NS	NS	NS
MW-17R	04/18/18	**1,770**	174	139	438	**442**	**78.9 J**	<6.2	<0.0096
MW-18	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	**15.4**	5.5	<1.0	5.6	<1.0	<5.00	-	NR
	10/07/04	1.5	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	**19.2**	1.1	<1.0	7.1	<1.0	<5.00	-	NR
	03/24/06	**36.2**	1.27	<1.00	6.16	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
	07/18/16	NS	NS	NS	NS	NS	NS	NS	NS
MW-18R	04/18/18	1.9	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0093

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-19	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	3.1	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0099
	03/08/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0094
	04/18/18	NS	NS	NS	NS	NS	NS	NS	NS
MW-19 DUP (DUP 1)	11/22/11	1.3	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
MW-20	01/17/03	**1,520**	314	108	298	**80.4**	**26.3**	-	<0.02
	02/09/04	**3,220**	530	15.2	830	**78**	**61.2**	-	NR
	10/07/04	**90.2**	6.6	<1.0	19.8	**94.4**	<5.00	-	<0.02
	01/21/05	**1,120**	43.1	5.8	95.1	**73**	**36.9**	-	NR
	03/24/06	**44.9**	0.300J	0.310J	3.54	9.14	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	**9.5**	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	2.4	<0.20	<0.20	<0.52	6.2	<1.0	<0.20	NR
	11/06/13	**235**	<1.0	<1.5	<2.5	5.2	10.7 J	<1.1	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/15/15	4.5	0.35 J	<0.28	<0.66	**93.7**	<1.0	<0.24	<0.0095
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0095
	07/19/16	0.80 J	<0.20	0.34 J	<0.56	4.5	<1.0	<0.28	<0.010
	03/08/17	<0.31	<0.30	<0.36	<0.72	3.1	<1.0	<0.31	<0.0094
	04/18/18	<0.31	<0.30	<0.36	<0.72	7.6	<1.0	<0.31	<0.0094
MW-21	01/17/03	**269**	27.5	12	118	**42.6**	12.6	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	NS	NS	NS	NS	NS	NS	-	NS
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	**108**	4.5	<0.40	<1.0	8.7	<2.0	<0.40	NR
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	0.93 J	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0098
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0095
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0098
	03/08/17	0.55 J	<0.30	<0.36	<0.72	0.38 J	<1.0	<0.31	<0.0096
	04/18/18	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
MW-22	01/17/03	**2,080**	281	279	576	**257**	**67.9**	-	<0.02
	02/09/04	**782**	49.2	41.4	77.5	**93.4**	15.8	-	NR
	10/07/04	**109**	11.3	3.2	19.5	**71.4**	<5.00	-	<0.02
	01/21/05	**3,980**	300	197	454	**67**	**112**	-	NR
	03/23/06	0.340J	<1.00	<1.00	<1.00	8.11	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	**60.0**	8.3	3.4	3.1	13.8	<1.0	<0.20	NR
	11/06/13	**574**	41.6	45.7	10.9 J	37.3	<10	<2.2	NR
	08/27/14	1.0	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/15/15	**312**	15.6	18.8	6.2	**134**	4.9 J	0.99 J	<0.0095
	06/23/15	1.3	<0.40	<0.20	<0.51	0.51 J	<1.0	<0.20	<0.0096
	07/18/16	**49.5**	12.7	3.6	1.6 J	**75.2**	3.2 J	0.48 J	<0.0094
	03/08/17	**10.1**	0.87 J	0.66 J	<0.72	**60.6**	<1.0	<0.31	<0.0096
	04/18/18	0.43 J	<0.30	<0.36	<0.72	24.6	<1.0	<0.31	<0.0093
MW-23	01/17/03	**27.6**	<1.0	<1.0	3.7	27.2	10.5	-	<0.02
	02/09/04	**1,760**	72	<1.0	592	**372**	17.2	-	NR
	10/07/04	**1,620**	103	<1.0	598	**286**	**46**	-	<0.02
	01/20/05	**1,670**	111	<1.0	578	**172**	19.9	-	NR
	03/23/06	**1,290**	44.1	<1.00	266	**168**	**38.4**	-	NR
	01/08/09	**574**	<5.0	<5.0	30.8	**65.2**	<5.0	<5.0	<0.019
	11/04/09	**1,250**	<25.0	<25.0	98.9	**152**	**31.0**	<25.0	<0.019
	11/22/11	**435**	<1.0	<1.0	<2.6	**140**	15.9 J	<1.0	NR
	11/06/13	**49.6**	2.8	<0.58	1.2 J	**98.6**	2.3 J	<0.44	NR
	08/27/14	**239**	16.4	<1.4	7.3 J	**239**	<5.0	<1.2	<0.0096
	01/15/15	**18.6**	<2.0	<2.8	<6.6	**161**	<10	<2.4	<0.0094
	06/23/15	1.9	<0.40	<0.20	<0.51	**102**	<1.0	<0.20	<0.0095
	07/18/16	0.87 J	<0.20	<0.25	<0.56	**45.6**	<1.0	<0.28	<0.0098
	03/08/17	0.45 J	<0.30	<0.36	<0.72	28.4	<1.0	<0.31	<0.0095
	04/18/18	<0.31	<0.30	<0.36	<0.72	11.8	<1.0	<0.31	0.032
MW-24	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0095
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0099
	03/08/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0097
	04/18/18	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0094

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
MW-25	01/17/03	<1.0	<1.0	<1.0	<1.0	4.9	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	0.330J	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	1.8	<0.20	<0.29	<0.50	2.7	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0097
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0093
	03/08/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0094
	04/18/18	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0095
MW-26	01/17/03	1.3	<1.0	<1.0	<1.0	4.7	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	0.86 J	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0098
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0093
	03/08/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0095
	04/18/18	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0095
MW-27	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	1.7	<5.00	-	NR
	03/23/06	0.320J	<1.00	<1.00	<1.00	3.95	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	**6.2**	<0.20	<0.20	0.61 J	2.4	<1.0	<0.20	NR
	11/06/13	0.27 J	<0.20	<0.29	<0.50	0.22 J	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	01/15/15	0.87 J	<0.20	<0.28	<0.66	1.3	<1.0	<0.24	<0.0097
	06/23/15	0.54 J	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/18/16	**5.1**	<0.20	<0.25	<0.56	0.68 J	<1.0	<0.28	<0.0097
	03/08/17	3.7	<0.30	<0.36	<0.72	0.48 J	<1.0	<0.31	0.044
	04/18/18	0.54 J	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0095

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
MW-28	01/17/03	<1.0	<1.0	<1.0	<1.0	1.4	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	0.340 J	<1.00	-	NR
	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	0.38 J	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	**0.26**
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0098
	03/08/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0096
	04/18/18	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	0.035
MW-29	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0097
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0098
	03/08/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0095
	04/18/18	NS	NS	NS	NS	NS	NS	NS	NS
MW-30	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	11.0	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0094
	03/08/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0095
	04/18/18	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
MW-31	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/20/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/23/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/18/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0095
	03/08/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0095
	04/18/18	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0096
MW-1A	01/21/05	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	03/24/06	**20,700**	**30,600**	**3,310**	**17,600**	**1,880**	**891**	-	NR
	01/08/09	**14,300**	**29,300**	**8,930**	**48,800**	**1,250**	**6,060**	<500	**0.066**
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	**140**	417	42.7	590	4.4 J	**155**	<1.2	<0.0097
	01/15/15	**1,040**	**4,950**	583	5,130	**78.8**	**474**	<1.2	<0.0096
	06/24/15	**6,460**	**16,400**	**2,060**	**13,600**	**123**	**1,180**	<10	**0.12**
	07/19/16	**2,210**	**3,390**	170	2,570	**117**	**227 J**	<14	0.011 J
	03/09/17	**3,230**	**1,460**	45.1	1,100	**154**	**45.0 J**	<6.2	<0.0098
	04/18/18	**3,360**	**4,790**	110	1,170	23.6 J	**55.2 J**	<16	<0.0095
MW-2A	01/21/05	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	03/23/06	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	01/08/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/30/11	**260**	517	37.3	491	<3.4	**70.4**	<2.0	NR
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	**17,000**	**30,600**	**2,420**	**15,700**	**232 J**	**1,270 J**	<60	<0.0093
	01/15/15	**17,900**	**20,900**	**1,680**	8,520	**281**	**571 J**	<60	**0.12**
	06/24/15	**9,680**	**19,000**	**1,600**	9,370	<75	**962 J**	<50	**0.083**
	07/19/16	**17,500**	**35,200**	**1,780**	**10,200**	<100	**574 J**	<140	**0.20**
	03/09/17	**25,400**	**43,200**	**2,460**	**13,600**	**100 J**	**470 J**	<78	**0.17**
	04/18/18	**24,700**	**42,000**	**3,050**	**14,900**	**107**	**861**	<31	**0.24**
MW-2A DUP (DUP B)	08/27/14	**17,500**	**31,000**	**2,310**	**14,500**	**250 J**	**695 J**	<120	**0.19**
	07/19/16	**17,200**	**35,400**	**1,910**	**10,900**	**104 J**	**758 J**	<140	**0.20**

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
MW-3A	01/21/05	FP	FP	FP	FP	FP	FP	FP	FP
	03/23/06	FP	FP	FP	FP	FP	FP	FP	FP
	01/08/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/03/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/22/11	FP	FP	FP	FP	FP	FP	FP	FP
	11/06/13	FP	FP	FP	FP	FP	FP	FP	FP
	08/27/14	15,700	38,900	2,430	15,300	<100	873 J	<120	0.17
	01/15/15	2,930	8,310	875	8,780	<20	556	<24	0.029
	06/24/15	11,400	35,000	3,220	18,400	37.8 J	1,540	<20	0.18
	07/19/16	11,400	48,200	3,940	22,500	<200	2,080 J	<280	0.22
	03/09/17	9,760	45,200	3,290	17,200	<23	615	<31	0.099
	04/18/18	NS	NS	NS	NS	NS	NS	NS	NS
MW-3A DUP	03/09/17	9,930	49,400	3,200	16,600	<110	<500	<160	0.093
MW-4A	01/21/05	FP	FP	FP	FP	FP	FP	FP	FP
	03/24/06	19,600	34,800	3,900	21,500	247	952	NR	NR
	01/08/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/03/09	FP	FP	FP	FP	FP	FP	FP	FP
	11/22/11	FP	FP	FP	FP	FP	FP	FP	FP
	11/06/13	7,250	30,200	2,050	12,700	<110	627 J	<110	NR
	08/27/14	6,890	27,700	1,680	16,300	<50	561 J	<60	0.13
	01/15/15	2,300	11,500	1,010	12,300	50.9 J	511 J	<48	0.052
	06/24/15	7,680	33,800	2,000	17,400	<60	840 J	<40	0.10
	07/19/16	7,280	28,500	1,650	13,000	<100	613 J	<140	0.10
	03/09/17	8,010	21,900	1,380	15,300	<23	517	<31	0.063
	04/18/18	8,040	35,000	2,040	16,600	<57	505 J	<78	0.074
MW-4A DUP A	06/24/15	8,140	37,100	2,460	19,900	7.4	867 J	1.6	0.16
TW-1	01/17/03	25.5	46.6	6.9	19.8	<1.0	9.3	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/23/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/28/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0094
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0097
	03/09/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0096
	04/18/18	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0094

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
TW-2	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	02/09/04	<1.0	<1.0	<1.0	<1.0	11.7	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	**7.22**	<1.00	<1.00	<1.00	1.7	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020
	11/22/11	**7.0**	<0.20	<0.20	<0.52	1.0	<1.0	<0.20	NR
	11/06/13	4.7	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0095
	01/15/15	0.26 J	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	06/23/15	0.96 J	<0.40	<0.20	<0.51	0.40 J	<1.0	<0.20	<0.0095
	07/18/16	**8.7**	<0.20	<0.25	<0.56	0.47 J	<1.0	<0.28	<0.0092
	03/08/17	4.7	<0.30	<0.36	<0.72	0.34 J	<1.0	<0.31	<0.0096
	04/18/18	**18.3**	<0.30	<0.36	<0.72	1.4	<1.0	<0.31	<0.0095
WSW-1	01/17/03	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	02/09/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	01/08/09	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/28/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0093
	03/09/17	<0.080	<0.070	<0.060	<0.32	<0.10	<0.050	<0.12	<0.0085
	04/19/18	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.0040
WSW-DUP	04/19/18	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.0040
WSW-2	01/08/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	06/23/15	NS	NS	NS	NS	NS	NS	NS	NS
	07/19/16	NS	NS	NS	NS	NS	NS	NS	NS
WSW-3	10/07/04	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	<0.02
	01/21/05	<1.0	<1.0	<1.0	<1.0	<1.0	<5.00	-	NR
	03/24/06	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	-	NR
	11/04/09	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019
	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/28/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0097
	06/23/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0096
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0097
	03/08/17	<0.080	<0.070	<0.060	<0.32	<0.10	<0.050	<0.12	<0.0084
	04/19/18	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.0041
WSW-3 DUP	03/08/17	<0.080	<0.070	<0.060	<0.32	<0.10	<0.050	<0.12	<0.0086

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - CHEMICALS OF CONCERN
TISDALES QUICK STOP
UST PERMIT # 18686

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW FIELD BLANK	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	0.21 J	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0094
	01/16/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	<0.0097
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	<0.0096
	03/09/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0096
	04/18/18	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0096
MW TRIP BLANK	11/22/11	<0.20	<0.20	<0.20	<0.52	<0.34	<1.0	<0.20	NR
	11/06/13	<0.21	<0.20	<0.29	<0.50	<0.21	<1.0	<0.22	NR
	08/27/14	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	NR
	01/15/15	<0.24	<0.20	<0.28	<0.66	<0.20	<1.0	<0.24	<0.0096
	06/24/15	<0.20	<0.40	<0.20	<0.51	<0.30	<1.0	<0.20	NR
	07/19/16	<0.20	<0.20	<0.25	<0.56	<0.20	<1.0	<0.28	NR
	03/08/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	NR
	04/18/18	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	NR
WSW FIELD BLANK	03/08/17	<0.080	<0.070	<0.060	<0.32	<0.10	<0.050	<0.12	<0.0087
	04/19/18	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.0040
WSW TRIP BLANK	03/08/17	<0.080	<0.070	<0.060	<0.32	<0.10	<0.050	<0.12	NR
	04/19/18	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NR

Notes:
- Analyses for selected volatile organic compounds (VOCs) by EPA Method 8260B; lead by EPA Method 6010B or 200.7; and EDB by EPA Method 8011; results reported in µg/l.
- Water supply well (WSW) samples collected after 2016 analyzed for VOCs by EPA Method 524.2 and EDB by 504.1.
- RBSL: Risk Based Screening Level.
- Concentrations in bold face type exceeded the RBSL.
- <: Less than the report limit specified in the laboratory report.
- Dry: Well was dry.
- NS: Not sampled. Well was obstructed or could not be located.
- NR: Analysis not requested.
- I or J: Estimated value.
- FP: Free product.

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-1	03/24/06	<50.0	5,030	<5,000	<50.0	**35,000**	<50.0	1,280	<1,000
	11/04/09	<500	<10,000	<20,000	<1,000	**10,200**	<1,000	<10,000	<5,000
	11/23/11	<35	<2,500	<2,500	<31	**24,100**	<39	<300	<500
	11/06/13	<25	<2,000	<2,100	<55	**7,700**	<49	<470	<500
	08/27/14	<45	<760	<4,600	<40	**10,600**	<44	<1,800	<810
	01/16/15	<23	<380	<2300	<20	**12,200**	<22	<880	<400
	06/24/15	<20	<1000	<3500	<20	**9,000**	<22	<540	<400
	07/19/16	<45	<2,000	<10,000	<44	**10,200**	<40	<1,800	<1,000
	03/09/17	<48	<2,000	<16,000	<47	**13,400**	<49	<1,100	<1,000
	04/18/18	<48	<2,000	<16,000	<47	**17,800**	<49	<1,100	<1,000
MW-1 DUP	11/06/13	<51	<4,000	<4,200	<110	**7,020**	<97	<950	<1,000
	08/27/14	<45	<760	<4,600	<40	**8,960**	<44	<1,800	<810
	01/16/15	<20	<1,000	<3,500	<20	**12,300**	<22	<540	<400
	03/09/17	<48	<2,000	<16,000	<47	**13,300**	<49	<1,100	<1,000
	04/18/18	<24	<1,000	<8,200	<24	**11,500**	<24	<530	<500
MW-2	03/24/06	<50.0	4,620	<5,000	<50.0	**25,700**	54	1,020	<1,000
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/23/11	<88	<6,300	<6,300	<78	**37,800**	<98	<750	<1,300
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	01/16/15	<11	<190	<1,200	<10	**5,830**	<11	<440	<200
	06/24/15	<10	<500	<1800	<10	**7,070**	<11	<270	<200
	07/19/16	<57	<2,500	<13,000	<55	**20,700**	<50	<2,300	<1,300
	03/09/17	<48	<2,000	<16,000	<47	**18,400**	<49	<1,100	<1,000
	04/18/18	<48	<2,000	<16,000	<47	**15,000**	<49	<1,100	<1,000
MW-2 DUP (DUP A)	11/23/11	<88	<6,300	<6,300	<78	**37,000**	<98	<750	<1,300
	07/19/16	<110	<5,000	<25,000	<110	**18,300**	<100	<4,500	<2,500

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-3	03/24/06	<1.00	99.1	<100	<1.00	223	<1.00	26.7	<20.0
	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	23.9	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<23	<1,000	<5,000	<22	**6,420**	<20	<910	<500
	03/09/17	<24	<1,000	<8,200	<24	**6,700**	<24	<530	<500
	04/18/18	<24	<1,000	<8,200	<24	**6,360**	<24	<530	<500
MW-3 DUP B	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	04/18/18	<24	<1,000	<8,200	<24	**3,770**	<24	<530	<500
MW-4	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	01/15/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	06/24/15	NS	NS	NS	NS	NS	NS	NS	NS
	07/19/16	NS	NS	NS	NS	NS	NS	NS	NS
	03/09/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	04/18/18	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		150	NE	10,000	47	240	128	1,400	NE
MW-5	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	01/15/15	NS	NS	NS	NS	NS	NS	NS	NS
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	NS	NS	NS	NS	NS	NS	NS	NS
	03/08/17	NS	NS	NS	NS	NS	NS	NS	NS
MW-5R	04/18/18	<0.24	<10	<82	<0.24	14.1 J	<0.24	<5.3	<5.0
MW-6	11/03/09	<5.0	115	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/09/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	04/18/18	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-7	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/09/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	04/18/18	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		150	NE	10,000	47	240	128	1,400	NE
MW-8	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	11.2 J	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/09/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	04/18/18	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-8 DUP	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	01/15/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
MW-9	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/30/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/09/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	04/18/18	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		150	NE	10,000	47	240	128	1,400	NE
MW-10	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/30/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/09/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	04/18/18	NS	NS	NS	NS	NS	NS	NS	NS
MW-11	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
MW-11R	04/18/18	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-12	11/03/09	NS	NS	NS	NS	NS	NS	NS	NS
MW-12R	04/18/18	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-13	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/30/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	0.96 J	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	5.1	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	1.9 J	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	0.39 J	<9.1	<5.0
	03/09/17	<0.24	<10	<82	<0.24	<5.3	1.4 J	<5.3	<5.0
	04/18/18	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		150	NE	10,000	47	240	128	1,400	NE
MW-14	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.70	<50	<50	<0.62	**450**	<0.78	<6.0	<10
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	36.5	<0.20	<9.1	<5.0
	03/09/17	<0.24	<10	<82	<0.24	10.0 J	<0.24	<5.3	<5.0
	04/18/18	<0.24	<10	<82	<0.24	6.0 J	<0.24	<5.3	<5.0
MW-15	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/09/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	04/18/18	NS	NS	NS	NS	NS	NS	NS	NS
MW-16	03/24/06	<50.0	5,140	<5,000	<50.0	**34,600**	72.5	**1,560**	<1,000
	11/04/09	<250	<5,000	<10,000	<500	**45,400**	<500	<5,000	<2,500
	11/22/11	NS	NS	NS	NS	NS	NS	NS	NS
MW-16R	04/18/18	<48	<2,000	<16,000	<47	**20,100**	<49	<1,100	<1,000
MW-17R	04/18/18	<4.8	<200	<1,600	11.6 J	**4,690**	11.0 J	<110	<100
MW-18	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	19.2 J	<0.39	<3.0	<5.0
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
MW-18R	04/18/18	<0.24	<10	<82	<0.24	41.3	<0.24	<5.3	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-19	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	5.6 J	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	04/18/18	NS	NS	NS	NS	NS	NS	NS	NS
MW-19 DUP (DUP 1)	11/22/11	<0.35	<25	<25	<0.31	12.5 J	<0.39	<3.0	<5.0
MW-20	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	151	<0.39	9.3 J	<5.0
	11/06/13	<1.3	<100	<110	<2.8	**567**	<2.4	<24	<25
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	1.6	<3.8	<23	1.9 J	**1,880**	3.6	105	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	77.7	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	52.9	<0.24	<5.3	<5.0
	04/18/18	<0.24	<10	<82	<0.24	90.9	<0.24	<5.3	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
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TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		150	NE	10,000	47	240	128	1,400	NE
MW-21	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.70	<50	<50	<0.62	**343**	1.1 J	25.0 J	<10
	11/06/13	NS	NS	NS	NS	NS	NS	NS	NS
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	10.3 J	<0.24	<5.3	<5.0
	04/18/18	NS	NS	NS	NS	NS	NS	NS	NS
MW-22	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	0.60 J	**1,370**	3.6	45.3	<5.0
	11/06/13	<2.5	<200	<210	<5.5	**2,000**	8.9 J	50.3 J	<50
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	3.7	<3.8	<23	6.6	**8,180**	22.6	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	8.5 J	<0.22	<5.4	<4.0
	07/18/16	1.6	<10	<50	2.2	**2,730**	10.3	143	<5.0
	03/08/17	1.1	<10	<82	1.6 J	**1,850**	7.0	<5.3	<5.0
	04/18/18	0.51 J	<10	<82	0.67 J	**1,150**	2.8	48.1	<5.0
MW-23	11/04/09	<25.0	<500	<1,000	<50.0	**1,490**	<50.0	<500	<250
	11/22/11	<1.8	<130	<130	<1.6	**3,200**	9.7 J	<15	<25
	11/06/13	1.5 J	<40	<42	2.0 J	**2,700**	8.8	214	<10
	08/27/14	3.4 J	<19	<120	6.2 J	**8,040**	28.7	<44	<20
	01/15/15	2.9 J	<38	<230	4.5 J	**4,730**	19.3 J	339	<40
	06/23/15	2.1	<10	<35	3.2	**3,030**	14.7	<5.4	<4.0
	07/18/16	0.97 J	<10	<50	1.2 J	**1,330**	5.5	<9.1	<5.0
	03/08/17	0.53 J	<10	<82	0.57 J	**732**	2.4	<5.3	<5.0
	04/18/18	<0.24	<10	<82	<0.24	182	0.95 J	<5.3	<5.0

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SUMMARY OF LABORATORY ANALYTICAL RESULTS
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TISDALE'S QUICK SHOP
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Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		150	NE	10,000	47	240	128	1,400	NE
MW-24	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	04/18/18	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-25	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	04/18/18	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-26	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	04/18/18	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0

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Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		150	NE	10,000	47	240	128	1,400	NE
MW-27	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	43.2	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	11.5 J	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	17.6 J	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	10.9 J	<0.24	<5.3	<5.0
	04/18/18	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-28	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	04/18/18	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-29	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	04/18/18	NS	NS	NS	NS	NS	NS	NS	NS

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SUMMARY OF LABORATORY ANALYTICAL RESULTS
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Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		150	NE	10,000	47	240	128	1,400	NE
MW-30	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	04/18/18	NS	NS	NS	NS	NS	NS	NS	NS
MW-31	11/03/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	04/18/18	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-1A	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	<1.1	<19	<120	<1.0	**2,150**	5.3 J	<44	<20
	01/15/15	2.1 J	<19	<120	3.3 J	**11,900**	12.2	386	<20
	06/24/15	18.7 J	<500	<1,800	<10	**44,000**	**130**	1,080	<200
	07/19/16	<11	<500	<2,500	<11	**24,000**	36.9 J	<450	<250
	03/09/17	14.0 J	<200	<1,600	13.5 J	**23,700**	61.8	482	<100
	04/18/18	<12	<1,000	<8,200	<12	**13,900**	<12	<530	<250

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
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Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-2A	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/30/11	<3.5	<250	<250	<3.1	83.3 J	<3.9	<30	<50
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	<57	<950	<5,800	<50	**65,500**	110 J	<2,200	<1,000
	01/15/15	<57	<950	<5,800	<50	**60,900**	103 J	<2,200	<1,000
	06/24/15	<50	<2,500	<8,800	<50	**43,500**	64.2 J	<1,400	<1,000
	07/19/16	<110	<5,000	<25,000	<110	**44,800**	<100	<4,500	<2,500
	03/09/17	<60	<2,500	<20,000	<59	**42,400**	76.3 J	<1,300	<1,300
	04/18/18	39.1 J	<1,000	<8,200	<24	**43,700**	87.0 J	<530	<500
MW-2A DUP (DUP B)	08/27/14	<110	<1,900	<12,000	<100	**63,000**	<110	<4,400	<2,000
	07/19/16	<110	<5,000	<25,000	<110	**44,900**	<100	<4,500	<2,500
MW-3A	11/03/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	08/27/14	<110	<1,900	<12,000	<100	**24,900**	<110	<4,400	<2,000
	01/15/15	<23	<380	<2,300	<20	**1,690 J**	<22	<880	<400
	06/24/15	<20	<1,000	<3,500	<20	**38,100**	28.4 J	1,060 J	<400
	07/19/16	<230	<10,000	<50,000	<220	<6,000	<200	<9,100	<5,000
	03/09/17	<24	<1,000	<8,200	<24	**17,700**	<24	<530	<500
	04/18/18	NS	NS	NS	NS	NS	NS	NS	NS
MW-3A DUP	03/09/17	<120	<5,000	<41,000	<120	**15,700**	<120	<2,700	<2,500

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SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-4A	11/04/09	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/11	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/06/13	<130	<10,000	<11,000	<280	**6,280**	<240	<2,400	<2,500
	08/27/14	<57	<950	<5,800	<50	**5,990**	<55	<2,200	<1,000
	01/15/15	<45	<760	<4,600	<40	**2,110 J**	<44	<1,800	<810
	06/24/15	<40	<2,000	<7,000	<40	**3,950 J**	<44	<1,100	<800
	07/19/16	<110	<5,000	<25,000	<110	**3,160 J**	<100	<4,500	<2,500
	03/09/17	<24	<1,000	<8,200	<24	**4,350**	<24	<530	<500
	04/18/18	<60	<2,500	<20,000	<59	**4,470 J**	<61	<1,300	<1,300
MW-4A DUP A	06/24/15	<0.20	<10	<35	6.1	**4,840**	22.6	<5.4	<4.0
TW-1	03/24/06	<1.00	<10.0	<100	<1.00	<20.0	<1.00	<20.0	<20.0
	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/23/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/28/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/09/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	04/18/18	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		150	NE	10,000	47	240	128	1,400	NE
TW-2	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	15.9 J	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	10.6 J	<0.22	<5.4	<4.0
	07/18/16	<0.23	<10	<50	<0.22	20.1	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	19.1 J	<0.24	<5.3	<5.0
	04/18/18	<0.24	<10	<82	<0.24	71.1	<0.24	<5.3	<5.0
WSW-1	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/28/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/09/17	<0.40	<8.0	<40	<0.40	<8.0	<0.40	<8.0	<2.0
	04/19/18	<0.40	<8.0	<40	<0.40	<8.0	<0.42	<8.0	<2.0
WSW-1 DUP	04/19/18	<0.40	<8.0	<40	<0.40	<8.0	<0.42	<8.0	<2.0
WSW-3	11/04/09	<5.0	<100	<200	<10.0	<100	<10.0	<100	<50.0
	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/28/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/23/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/08/17	<0.40	<8.0	<40	<0.40	<8.0	<0.40	<8.0	<2.0
	04/19/18	<0.40	<8.0	<40	<0.40	<8.0	<0.42	<8.0	<2.0
WSW-3 DUP	03/08/17	<0.40	<8.0	<40	<0.40	<8.0	<0.40	<8.0	<2.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
TISDALE'S QUICK SHOP
UST PERMIT # 18686

Well No.	Date	DIPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW FIELD BLANK	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/16/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/09/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	04/18/18	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW TRIP BLANK	11/22/11	<0.35	<25	<25	<0.31	<5.0	<0.39	<3.0	<5.0
	11/06/13	<0.25	<20	<21	<0.55	<5.0	<0.49	<4.7	<5.0
	08/27/14	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	01/15/15	<0.23	<3.8	<23	<0.20	<7.4	<0.22	<8.8	<4.0
	06/24/15	<0.20	<10	<35	<0.20	<8.1	<0.22	<5.4	<4.0
	07/19/16	<0.23	<10	<50	<0.22	<6.0	<0.20	<9.1	<5.0
	03/08/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	04/18/18	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
WSW FIELD BLANK	03/08/17	<0.40	<8.0	<40	<0.40	<8.0	<0.40	<8.0	<2.0
	04/19/18	<0.40	<8.0	<40	<0.40	<8.0	<0.42	<8.0	<2.0
WSW TRIP BLANK	03/08/17	<0.40	<8.0	<40	<0.40	<8.0	<0.40	<8.0	<2.0
	04/19/18	<0.40	<8.0	<40	<0.40	<8.0	<0.42	<8.0	<2.0

Notes:
- Analyses for oxygenates by Method 8260B; results reported in µg/l.
- <: Less than the report limit specified in the laboratory report.
- Bold indicates analyte reported above the method detection limit.
- Dry: Well was dry.
- NS: Not sampled. Well was obstructed or could not be located.
- FP: Free Product.
- Concentrations in bold face type exceeded the Action Level.

APPENDICES

APPENDIX A

Subsurface Logs, Well Construction Forms, Well Development Data Verification Forms

Geological Resources, Inc.
3502 Hayes Road
Monroe, NC 28110

Phone: (704) 845-4010
Fax: (704) 845-4012

SUBSURFACE LOG

Project	Tisdale's Quick Stop		
Address	1989 Thurgood Marshall Blvd, Kingstree, SC		
Boring Number	MW-5R	Date Drilled	3/29/18
Sample Method	NA	Drilling Method	4.5" SS Augers
Completion Details	2" Well completed to 25' w/ screened interval from 10' to 25'		
Driller	Bryan Vest, REDI, SCL #2188B	Log By	Kael Schmidt, GRI

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0' - 2' Dark brown fine sandy silt
2						2' - 14' Brown silty clay
4						
6						
8						
10						
12						
14						14' - 22' Red silty clay
16						
18						
20						
22						22' - 25' Brown Silty clay
24						
26						Well completed at 25'
28						
30						
32						
34						
36						

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3502 Hayes Road
Monroe, NC 28110

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SUBSURFACE LOG

Project	Tisdale's Quick Stop		
Address	1989 Thurgood Marshall Blvd, Kingstree, SC		
Boring Number	MW-11R	Date Drilled	3/29/18
Sample Method	NA	Drilling Method	4.5" SS Augers
Completion Details	2" Well completed to 20' w/ screened interval from 5' to 20'		
Driller	Bryan Vest, REDI, SCL #2188B	Log By	Kael Schmidt, GRI

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0' - 2' Dark brown fine sandy silt
2						2' - 4' Brown fine silty sand
4						4' - 12' Brown silty clay
6						
8						
10						
12						12' - 16' Red fine sandy clay
14						
16						16' - 20' Brown fine sandy clay
18						
20						Well completed at 20'
22						
24						
26						
28						
30						
32						
34						
36						

Geological Resources, Inc.
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Monroe, NC 28110

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SUBSURFACE LOG

Project	Tisdale's Quick Stop		
Address	1989 Thurgood Marshall Blvd, Kingstree, SC		
Boring Number	MW-12R	Date Drilled	3/29/18
Sample Method	NA	Drilling Method	4.5" SS Augers
Completion Details	2" Well completed to 20' w/ screened interval from 5' to 20'		
Driller	Bryan Vest, REDI, SCL #2188B	Log By	Kael Schmidt, GRI

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0' - 2' Dark brown fine sandy silt
2						2' - 4' Brown fine silty sand
4						4' - 12' Brown silty clay
6						
8						
10						
12						12' - 16' Red fine sandy clay
14						
16						16' - 20' Brown fine sandy clay
18						
20						Well completed at 20'
22						
24						
26						
28						
30						
32						
34						
36						

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SUBSURFACE LOG

Project	Tisdale's Quick Stop		
Address	1989 Thurgood Marshall Blvd, Kingstree, SC		
Boring Number	MW-16R	Date Drilled	3/29/18
Sample Method	NA	Drilling Method	4.5" SS Augers
Completion Details	2" Well completed to 25' w/ screened interval from 10' to 25'		
Driller	Bryan Vest, REDI, SCL #2188B	Log By	Kael Schmidt, GRI

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0' - 2' Dark brown fine sandy silt
2						2' - 4' Brown fine silty sand
4						4' - 11' Brown silty clay
6						
8						
10						
12						11' - 17' Red fine sandy clay
14						
16						
18						17' - 25' Brown fine sandy clay
20						
22						
24						
26						Well completed at 25'
28						
30						
32						
34						
36						

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SUBSURFACE LOG

Project	Tisdale's Quick Stop		
Address	1989 Thurgood Marshall Blvd, Kingstree, SC		
Boring Number	MW-17R	Date Drilled	3/29/18
Sample Method	NA	Drilling Method	4.5" SS Augers
Completion Details	2" Well completed to 25' w/ screened interval from 10' to 25'		
Driller	Bryan Vest, REDI, SCL #2188B	Log By	Kael Schmidt, GRI

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0' - 2' Dark brown fine sandy silt
2						2' - 3' Brown fine silty sand 3' - 12' Brown silty clay
4						
6						
8						
10						
12						12' - 17' Red fine sandy clay
14						
16						
18						17' - 25' Brown fine sandy clay
20						
22						
24						
26						Well completed at 25'
28						
30						
32						
34						
36						

Geological Resources, Inc.
3502 Hayes Road
Monroe, NC 28110

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Fax: (704) 845-4012

SUBSURFACE LOG

Project	Tisdale's Quick Stop		
Address	1989 Thurgood Marshall Blvd, Kingstree, SC		
Boring Number	MW-18R	Date Drilled	3/29/18
Sample Method	NA	Drilling Method	4.5" SS Augers
Completion Details	2" Well completed to 25' w/ screened interval from 10' to 25'		
Driller	Bryan Vest, REDI, SCL #2188B	Log By	Kael Schmidt, GRI

Depth			Lab Sample	Sample Interval(ft)	OVA ppm	LITHOLOGY
0						0' - 2' Dark brown fine sandy silt
2						2' - 3' Brown fine silty sand 3' - 11' Brown silty clay
4						
6						
8						
10						
12						11' - 16' Red fine sandy clay
14						
16						16' - 25' Brown fine sandy clay
18						
20						
22						
24						
26						Well completed at 25'
28						
30						
32						
34						
36						

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Easler (last) Marty (first)
Address: 196 Richburg Road
City: Greeleyville State: SC Zip: 29056
Telephone Work: Home:

2. LOCATION OF WELL: MW-5R **COUNTY:** Williamsburg
Name: Tisdale's Quick Stop
Street Address: 1989 Thurgood Marshall Blvd
City: Kingstree Zip: 29556
Latitude: 33.6579897N Longitude: 79.8127613W

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Dark Brown Fine Sandy Silt	2'	2'
Brown Fine Silty Sand	2'	4'
Brown Silty Clay	10'	14'
Red Fine Sandy Clay	8'	22'
Brown Fine Sandy Clay	3'	25'
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Finished with Flush Mount Cover

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-26874

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 25' ft. Date Started: 3/29/2018 Date Completed 3/29/2018

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2inch
Type ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 10 ft. depth
_____ in. to _____ ft. depth
Height Above /Below ✔ Surface 0.25 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2inch
Slot/Gauge: 0.010 Length 15'
Set Between: 10 ft. and 25 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL _____ ft below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G P M
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8 ft. to 25 ft.
Effective size #3 Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth From 0.5 ft. to 8 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☑
Mfr. Name _____ Model No.. _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Bryan L Vest **CERT. NO.:** 2188
Address (Print) Level: A (B) C D (circle one)
111 Vest Lane,West End,NC 27376
Telephone No.. (910)639-0350 Fax No..

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Bryan L Vest (Well Driller) Date: 4/23/2018

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Easler (last) Marty (first)
Address: 196 Richburg Road
City: Greeleyville State: SC Zip: 29056
Telephone: Work Home.

2. LOCATION OF WELL: MW-11R **COUNTY:** Williamsburg
Name: Tisdale's Quick Stop
Street Address: 1989 Thurgood Marshall Blvd
City: Kingstree Zip: 29556
Latitude: 33.6579897N Longitude: 79.8127613W

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Dark Brown Fine Sandy Silt	2'	2'
Brown Fine Silty Sand	2'	4'
Brown Silty Clay	8'	12'
Red Fine Sandy Clay	4'	16'
Brown Fine Sandy Clay	4'	20'
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: Finished with Flush Mount Cover		

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-26874

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 20 ft. Date Started 3/29/2018 Date Completed 3/29/2018

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2inch
Type ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 5 ft. depth
_____ in. to _____ ft. depth
Height: Above /Below ✓ Surface 0.25 ft
Weight _____ lb /ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2inch
Slot/Gauge: 0.010 Length: 15'
Set Between 5 ft and 20 ft
_____ ft. and _____ ft
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL _____ ft below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G P M
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 3 ft. to 20 ft.
Effective size #3 Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth From 0.5 ft. to 3 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type _____ Amount: _____

18. PUMP: Date installed. _____ Not installed ☑
Mfr. Name _____ Model No. _____
H.P. _____ Volts _____ Length of drop pipe ___ ft Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Bryan L Vest **CERT. NO.:** 2188
Address: (Print) Level: A (B) C D (circle one)
111 Vest Lane,West End,NC 27376
Telephone No.: (910)639-0350 Fax No.:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed Bryan L Vest Well Driller Date. 4/23/2018

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE. PROTECT. PROSPER

1. WELL OWNER INFORMATION:
Name. Easler (last) Marty (first)
Address: 196 Richburg Road
City: Greeleyville State SC Zip: 29056
Telephone: Work Home.

2. LOCATION OF WELL: MW-12R **COUNTY:** Williamsburg
Name: Tisdale's Quick Stop
Street Address. 1989 Thurgood Marshall Blvd
City: Kingstree Zip: 29556
Latitude: 33.6579897N Longitude: 79.8127613W

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Dark Brown Fine Sandy Silt	2'	2'
Brown Fine Silty Sand	2'	4'
Brown Silty Clay	8'	12'
Red Fine Sandy Clay	4'	16'
Brown Fine Sandy Clay	4'	20'
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Finished with Flush Mount Cover

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-26874

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 20 ft. Date Started: 3/29/2018 Date Completed 3/29/2018

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2inch
Type. ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 5 ft. depth
_____ in. to _____ ft. depth
Height Above /Below ✓ Surface 0.25 ft.
Weight _____ lb./ft
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2inch
Slot/Gauge 0.010 Length 15
Set Between: 5 ft. and 20 ft. **NOTE: MULTIPLE SCREENS**
_____ ft and _____ ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 3 ft. to 20 ft
Effective size #3 Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth From 0.5 ft. to 3 ft

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type _____ Amount _____

18. PUMP: Date installed _____ Not installed ☑
Mfr. Name _____ Model No. _____
H P._____ Volts_____ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Bryan L Vest **CERT. NO.:** 2188
Address: (Print) 111 Vest Lane,West End,NC 27376
Level: A (B) C D (circle one)
Telephone No.. (910)639-0350 Fax No

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Bryan L Vest (Well Driller) Date: 4/23/2018

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name. Easler (last) Marty (first)
Address: 196 Richburg Road
City: Greeleyville State: SC Zip: 29056
Telephone: Work. Home.

2. LOCATION OF WELL: MW-16R **COUNTY:** Williamsburg
Name: Tisdale's Quick Stop
Street Address: 1989 Thurgood Marshall Blvd
City: Kingstree Zip: 29556
Latitude: 33.6579897N Longitude: 79.8127613W

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth. from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Dark Brown Fine Sandy Silt	2'	2'
Brown Fine Silty Sand	2'	4'
Brown Silty Clay	7'	11'
Red Fine Sandy Clay	6'	17'
Brown Fine Sandy Clay	8'	25'
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Finished with Flush Mount Cover

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-26874

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 25 ft. Date Started: 3/29/2018 Date Completed 3/29/2018

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2inch
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 10 ft. depth
_____ in. to _____ ft depth
Height Above /Below ✓ Surface 0.25 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type PVC Diam 2inch
Slot/Gauge 0.010 Length 15'
Set Between: 10 ft. and 25 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL _____ ft below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft after _____ hrs Pumping _____ G P M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8 ft. to 25 ft.
Effective size #3 Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 0.5 ft. to 8 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☑
Mfr Name _____ Model No _____
H.P. _____ Volts _____ Length of drop pipe ___ ft Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Bryan L Vest **CERT. NO.:** 2188
Address (Print) Level A (B) C D (circle one)
111 Vest Lane, West End, NC 27376
Telephone No.: (910)639-0350 Fax No :

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief

Signed: Bryan L Vest Well Driller Date: 4/23/2018

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Easler (last) Marty (first)
Address: 196 Richburg Road
City: Greeleyville State: SC Zip: 29056
Telephone: Work: Home:

2. LOCATION OF WELL: MW-17R **COUNTY:** Williamsburg
Name: Tisdale's Quick Stop
Street Address: 1989 Thurgood Marshall Blvd
City: Kingstree Zip: 29556
Latitude: 33.6579897N Longitude: 79.8127613W

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Dark Brown Fine Sandy Silt	2'	2'
Brown Fine Silty Sand	1'	3'
Brown Silty Clay	9'	12'
Red Fine Sandy Clay	5'	17'
Brown Fine Sandy Clay	8'	25'
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Finished with Flush Mount Cover

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-26874

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 25 ft. Date Started: 3/29/2018 Date Completed: 3/29/2018

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2inch
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 10 ft. depth
_____ in. to _____ ft. depth
Height Above /Below ✓ Surface 0.25 ft
Weight _____ lb./ft
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type PVC Diam. 2inch
Slot/Gauge 0.010 Length. 15'
Set Between: 10 ft. and 25 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL _____ ft below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8 ft to 25 ft
Effective size #3 Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 0.5 ft. to 8 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☑
Mfr Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Bryan L Vest **CERT. NO.:** 2188
Address (Print) Level A (B) C D (circle one)
111 Vest Lane,West End,NC 27376
Telephone No.: (910)639-0350 Fax No.:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief

Signed: Bryan L Vest (Well Driller) Date: 4/23/2018

If D Level Driller, provide supervising driller's name:

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Easler (last) Marty (first)
Address: 196 Richburg Road
City: Greeleyville State: SC Zip: 29056
Telephone: Work: Home

2. LOCATION OF WELL: MW-18R COUNTY: Williamsburg
Name: Tisdale's Quick Stop
Street Address: 1989 Thurgood Marshall Blvd
City: Kingstree Zip: 29556
Latitude: 33.6579897N Longitude: 79.8127613W

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Dark Brown Fine Sandy Silt	2'	2'
Brown Fine Silty Sand	1'	3'
Brown Silty Clay	8'	11'
Red Fine Sandy Clay	5'	16'
Brown Fine Sandy Clay	9'	25'
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Finished with Flush Mount Cover

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-26874

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 25' ft. Date Started. 3/29/2018 Date Completed 3/29/2018

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2inch
Type ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2 in. to 10 ft. depth
_____ in. to _____ ft. depth
Height Above /Below ✔ Surface 0.25 ft.
Weight _____ lb./ft
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam 2inch
Slot/Gauge: 0.010 Length: 15'
Set Between: 10 ft and 25 ft
_____ ft. and _____ ft
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8 ft. to 25 ft
Effective size #3 Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth From 0.5 ft. to 8 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☑
Mfr. Name _____ Model No.. _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Bryan L Vest CERT. NO.: 2188
Address (Print) Level A (B) C D (circle one)
111 Vest Lane,West End,NC 27376
Telephone No. (910)639-0350 Fax No.:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Bryan L Vest Well Driller Date: 4/23/2018

If D Level Driller, provide supervising driller's name.

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

Well Development Data Verification Form
Underground Storage Tank Management Division

Facility Name: Tisdale's Quick Stop Site ID#: 18686

Date: 3/29/18 Field Personnel: Kaelen Schmidt

Drilling Company: REDI Driller's Name: Bryan L. Vest

Driller's Certification Number: 2188B Weather Conditions: Sunny

Well Development Method

Surge Block ○ Submersible Pump ⊘ Air Lifting ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter		Conductivity meter		Temperature meter	Turbidity meter	
serial no.	11B100638	serial no.	11B100638	serial no. 11B100638	serial no.	16030C04886
pH=4.0	✓	standard	✓		NTU=0.0	✓
pH=7.0	✓				NTU=1.0	✓
pH=10.0	✓				NTU=10.0	✓

Drilling Method

Hollow Stem Augers ○ Solid Flight Augers ⊘ Direct Push ○

Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# MW 5R Well Casing Diameter 2 inches Borehole Diameter 4 inches

Depth to Ground Water (DGW) 13.21 ft. Screen Length/Slot Size 15 ft./ in.

Total Well Depth (TWD) 25.37 ft. Screen Interval 10 ft. to 25 ft.

Length of water column (LWC=TWD-DGW) 12.16 ft. Type of Drilling Fluids used: None

Total Gallons of Water Removed: 2.0 gals. Drilling Fluids recovered N/A gals.

Time (military)	1017	1018					
pH (s.u.)*	5.19	4.84					
Specific Conductivity (mmhos/cm)*	255	293					
Water Temperature (C)*	19.09	19.36					
Turbidity (NTU) *	1000+	1000+					
Physical Characteristics (color/odor)	brown/-	brown/-					
Water Level Measurement (ft) from TOC	19.30	Dry					
Total Well Depth (ft) from TOC	25.37	Same					
Cumulative Gallons Removed	0.25 gals	2 gals	gals	gals	gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: used submersible pump to develop well to 3 volumes or until dry

Driller Signature: Bryan L Vest Date: 3/29/18

Well Development Data Verification Form
Underground Storage Tank Management Division

Facility Name: Tisdale's Quick Stop | Site ID#: 18686

Date: 3/29/18 | Field Personnel: Karlan Schmidt

Drilling Company: REDI | Driller's Name: Bryan L. Vest

Driller's Certification Number: 21883 | Weather Conditions: Sunny

Well Development Method

Surge Block ○ | Submersible Pump Ø | Air Lifting ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter		Conductivity meter		Temperature meter	Turbidity meter	
serial no.		serial no.		serial no.	serial no.	
pH=4.0	✓	standard	✓		NTU=0.0	✓
pH=7.0	✓				NTU=1.0	✓
pH=10.0	✓				NTU=10.0	✓

Drilling Method

Hollow Stem Augers ○ | Solid Flight Augers Ø | Direct Push ○

Air Rotary ○ | Mud Rotary ○ | Sonic ○

Monitoring Well ID# MW-11R | Well Casing Diameter 2 inches | Borehole Diameter 4 inches

Depth to Ground Water (DGW) 12.01 ft. | Screen Length/Slot Size 15 ft/ in.

Total Well Depth (TWD) 20.34 ft. | Screen Interval 5 ft. to 20 ft.

Length of water column (LWC=TWD-DGW) 8.33 ft. | Type of Drilling Fluids used: None

Total Gallons of Water Removed: 4.50 gals. | Drilling Fluids recovered N/A gals.

Time (military)	1107	1109	1111	1114			
pH (s.u.)*	4.77	4.62	4.36	4.42			
Specific Conductivity (mmhos/cm)*	47	39	39	36			
Water Temperature (C)*	21.37	20.82	20.59	20.27			
Turbidity (NTU) *	1000+	1000+	1000+	1000+			
Physical Characteristics (color/odor)	orange/-	orange/-	Orange/-	orange/-			
Water Level Measurement (ft) from TOC	15.21	17.84	Dry	Dry			
Total Well Depth (ft) from TOC	20.34	Same	Same	Same			
Cumulative Gallons Removed	0.25 gals	1.5 gals	3.0 gals	4.5 gals	gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: used submersible pump to develop well to 3 volumes or until dry.

Driller Signature: Bryan L Vest | Date: 3/29/18

Well Development Data Verfication Form
Underground Storage Tank Management Division

Facility Name: Tisdales Quick Stop Site ID#: 18686

Date: 3/29/18 Field Personnel: Kaelan Schmidt

Drilling Company: REDI Driller's Name: Bryan L Vest

Driller's Certification Number: 2188B Weather Conditions: Sunny

Well Development Method

Surge Block ○ Submersible Pump ∅ Air Lifting ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter		Conductivity meter		Temperature meter	Turbidity meter	
serial no.	11B100638	serial no.	11B100638	serial no. 11B100638	serial no.	16030604880
pH=4.0	✓	standard	✓		NTU=0.0	✓
pH=7.0	✓				NTU=1.0	✓
pH=10.0	✓				NTU=10.0	✓

Drilling Method

Hollow Stem Augers ○ Solid Flight Augers ∅ Direct Push ○

Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# MW-12R Well Casing Diameter 2 inches Borehole Diameter 4 inches

Depth to Ground Water (DGW) 10.86 ft. Screen Length/Slot Size 15 ft./ in.

Total Well Depth (TWD) 20.21 ft. Screen Interval 5 ft. to 20 ft.

Length of water column (LWC=TWD-DGW) 9.33 ft. Type of Drilling Fluids used: None

Total Gallons of Water Removed: 4.50 gals. Drilling Fluids recovered N/A gals.

Time (military)	1035	1037	1039	1042			
pH (s.u.)*	5.01	4.63	4.42	4.42			
Specific Conductivity (mmhos/cm)*	67	60	59	58			
Water Temperature (C)*	20.86	20.75	20.99	20.66			
Turbidity (NTU) *	1000+	1000+	1000+	1000+			
Physical Characteristics (color/odor)	Orange/clear	orange/-	orange/-	orange/-			
Water Level Measurement (ft) from TOC	15.74	15.88	15.86	15.86			
Total Well Depth (ft) from TOC	20.21	Same	Same	Same			
Cumulative Gallons Removed	0.25 gals	1.50 gals	3.00 gals	4.50 gals	gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: used submersible pump to develop wells to 3 volumes or until Dry

Driller Signature: Bryan L Vest Date: 3/29/18

Well Development Data Verification Form
Underground Storage Tank Management Division

Facility Name: Tisdale's Quick Stop Site ID#: 18686

Date: 3/29/18 Field Personnel: Kaelon Schmidt

Drilling Company: REDI Driller's Name: Bryan L Vest

Driller's Certification Number: 2188 B Weather Conditions: Sunny

Well Development Method

Surge Block ○ Submersible Pump ⊘ Air Lifting ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter	Conductivity meter	Temperature meter	Turbidity meter
serial no. 11B100638	serial no. 11B100638	serial no. 11B100638	serial no. 16030C048660
pH=4.0 ✓	standard ✓		NTU=0.0 ✓
pH=7.0 ✓			NTU=1.0 ✓
pH=10.0 ✓			NTU=10.0 ✓

Drilling Method

Hollow Stem Augers ○ Solid Flight Augers ⊘ Direct Push ○

Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# MW16R Well Casing Diameter 2 inches Borehole Diameter 4 inches

Depth to Ground Water (DGW) 14.53 ft. Screen Length/Slot Size 15 ft./ in.

Total Well Depth (TWD) 25.20 ft. Screen Interval 10 ft. to 25 ft.

Length of water column (LWC=TWD-DGW) 10.67 ft. Type of Drilling Fluids used: None

Total Gallons of Water Removed: 1.75 gals. Drilling Fluids recovered N/A gals.

Time (military)	1340	1342					
pH (s.u.)*	4.59	4.96					
Specific Conductivity (mmhos/cm)*	63	90					
Water Temperature (C)*	21.68	21.21					
Turbidity (NTU) *	1000+	1000+					
Physical Characteristics (color/odor)	Brown/Odor	brown/Odor					
Water Level Measurement (ft) from TOC	21.41	Dry					
Total Well Depth (ft) from TOC	25.20	Same					
Cumulative Gallons Removed	0.25 gals	1.75 gals	gals	gals	gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: used submersible pump to develop well to 3 volumes or until dry

Driller Signature: Bryan L Vest Date: 3/29/18

Well Development Data Verification Form
Underground Storage Tank Management Division

Facility Name: Tisdale's Quick Stop Site ID#: 18686

Date: 3/29/18 Field Personnel: Kaelon Schmidt

Drilling Company: REDI Driller's Name: Bryan L Vest

Driller's Certification Number: 21888 Weather Conditions: Sunny

Well Development Method

Surge Block ○ Submersible Pump ∅ Air Lifting ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter		Conductivity meter		Temperature meter	Turbidity meter	
serial no.	11B100638	serial no.	11B100638	serial no. 11B100638	serial no.	16030C048860
pH=4.0	✓	standard	✓		NTU=0.0	✓
pH=7.0	✓				NTU=1.0	✓
pH=10.0	✓				NTU=10.0	✓

Drilling Method

Hollow Stem Augers ○ Solid Flight Augers ∅ Direct Push ○

Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# MW-17R Well Casing Diameter 2 inches Borehole Diameter 4 inches

Depth to Ground Water (DGW) 13.21 ft. Screen Length/Slot Size 15 ft./ in.

Total Well Depth (TWD) 25.22 ft. Screen Interval 10 ft. to 25 ft.

Length of water column (LWC=TWD-DGW) 12.01 ft. Type of Drilling Fluids used: None

Total Gallons of Water Removed: 6.00 gals. Drilling Fluids recovered N/A gals.

Time (military)	1205	1207	1206	1210			
pH (s.u.)*	4.80	4.64	4.60	4.43			
Specific Conductivity (mmhos/cm)*	60	60	58	59			
Water Temperature (C)*	21.41	20.86	20.41	20.14			
Turbidity (NTU) *	1000+	1000+	1000+	1000+			
Physical Characteristics (color/odor)	Brown/-	Brown/-	Brown/No	Brown			
Water Level Measurement (ft) from TOC	15.03	15.28	15.22	15.24			
Total Well Depth (ft) from TOC	25.22	Same	Same	Same			
Cumulative Gallons Removed	0.25 gals	2 gals	4 gals	6 gals	gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: used submersible pump to develop well to 3 volumes or until dry

Driller Signature: Bryan L Vest Date: 3/29/18

Well Development Data Verfication Form
Underground Storage Tank Management Division

Facility Name: Tisdale's Quick Stop | Site ID#: 18686

Date: 3/29/18 | Field Personnel: Kaelan Schmidt

Drilling Company: REDI | Driller's Name: Bryan L Vest

Driller's Certification Number: 2188B | Weather Conditions: Sunny

Well Development Method

Surge Block ○ | Submersible Pump ⊘ | Air Lifting ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter		Conductivity meter		Temperature meter	Turbidity meter	
serial no.	11B100638	serial no.	11B100638	serial no. 11B100638	serial no.	160300048860
pH=4.0	✓	standard	✓		NTU=0.0	✓
pH=7.0	✓				NTU=1.0	✓
pH=10.0	✓				NTU=10.0	✓

Drilling Method

Hollow Stem Augers ○ | Solid Flight Augers ⊘ | Direct Push ○

Air Rotary ○ | Mud Rotary ○ | Sonic ○

Monitoring Well ID# MW-18R | Well Casing Diameter 2" inches | Borehole Diameter 4" inches

Depth to Ground Water (DGW) 16.90 ft. | Screen Length/Slot Size 15 ft/ in.

Total Well Depth (TWD) 25.38 ft. | Screen Interval 10 ft. to 25 ft.

Length of water column (LWC=TWD-DGW) 8.48 ft. | Type of Drilling Fluids used: None

Total Gallons of Water Removed: 9.00 gals. | Drilling Fluids recovered N/A gals.

Time (military)	1451	1453	1454	1456	1457	1459	1501
pH (s.u.)*	4.76	4.21	4.50	4.43	4.36	4.26	4.21
Specific Conductivity (mmhos/cm)*	55	51	49	49	48	48	49
Water Temperature (C)*	22.75	22.22	21.69	21.51	21.34	21.30	21.56
Turbidity (NTU) *	1000+	1000+	1000+	1000+	1000+	578	429
Physical Characteristics (color/odor)	brown/-	brown/-	brown/-	brown/-	brown/-	brown/-	brown/-
Water Level Measurement (ft) from TOC	17.26	17.29	17.27	17.30	17.30	17.31	17.29
Total Well Depth (ft) from TOC	25.38	Same	Same	Same	Same	Same	Same
Cumulative Gallons Removed	0.25 gals	1.5 gals	3 gals	4.5 gals	6 gals	7.5 gals	9 gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Used submersible pump to develop wells to 3 volumes or until dry

Driller Signature: Bryan L Vest | Date: 3/29/18

APPENDIX B

Professional Survey

MONITOR WELLS		
WELL	TOL ELEV.	TOC ELEV.
MW-1	99.18	98.80
MW-1A	97.53	97.17
MW-2	99.11	98.81
MW-2A	97.49	97.28
MW-3	99.11	98.75
MW-4	98.78	98.58
MW-4A	98.26	98.07
MW-5R	98.46	98.23
MW-6	98.69	98.42
MW-7	98.43	98.20
MW-8	98.62	98.14
MW-9	98.81	98.50
MW-11R	95.46	95.13
MW-12R	96.34	96.04
MW-13	99.49	98.97
MW-14	98.65	98.37

MONITOR WELLS		
WELL	TOL ELEV.	TOC ELEV.
MW-15	99.79	99.53
MW-16R	97.96	97.98
MW-17R	97.13	96.90
MW-18R	99.64	99.36
MW-20	97.52	97.19
MW-21	95.95	95.68
MW-22	96.95	96.62
MW-23	96.08	95.78
MW-24	94.16	93.85
MW-25	94.59	94.28
MW-26	94.17	93.92
MW-27	98.31	98.18
MW-28	98.65	98.43
MW-31	96.18	95.95
TW-1	99.19	99.00
TW-2	95.47	95.29

LEGEND AND ABBREVIATIONS:

- MW = MONITORING WELL
- BM = BENCHMARK
- TPED = TELEPHONE PEDESTAL
- SSMH = SANITARY SEWER MAN HOLE
- SSCO = SANITARY SEWER CLEAN OUT
- WM = WATER METER
- FH = FIRE HYDRANT
- TP = TELEPHONE POLE
- PP = POWER POLE
- LP = LIGHT POLE
- MP = METER POLE
- GV = GAS VALVE
- USTA = UNDERGROUND STORAGE TANK ACCESS
- USTF = UNDERGROUND STORAGE TANK FILL
- USTV = UNDERGROUND STORAGE TANK VENT
- FD = FUEL DISPENSER
- E = OVERHEAD POWER LINE
- = WOOD LINE
- X = FENCE LINE

SC STATE PLANE
COORDINATE SYSTEM
NAD 83
GRID NORTH

COMPREHENSIVE SITE SKETCH OF

TISDALE QUICK STOP

1989 THURGOOD MARSHALL BLVD.
KINGSTREE, WILLIAMSBURG COUNTY, SC
SCDHEC SITE ID #18666
PREPARED FOR

GEOLOGICAL RESOURCES

GRAPHIC SCALE 1"=50'
0 50 100 150

THIS PARCEL MAY BE SUBJECT TO EASEMENT AND/OR RIGHT-OF-WAYS NOT SHOWN. FINAL RESULTS, CONCLUSIVE OF TITLE SEARCH

NOTE:
NOT FOR THE PURPOSE OF RECORDATION AT COUNTY, COURTHOUSE OR THE CONVEYANCE OF PROPERTY.

NOTE:
I HEREBY CERTIFY THAT THE FIELD WORK, CALCULATIONS, AND DRAFTING WERE DONE UNDER MY DIRECT SUPERVISION.

SOUTH CAROLINA REGISTERED LAND SURVEYOR No. 14811 JAY S. JOSHI

SOUTH CAROLINA CONSTRUCTION SUPPORT SERVICES No. C02425 CERTIFICATE OF AUTHORIZATION

JAY S. JOSHI PLS # 14811
P.O. BOX 90408, COLUMBIA, SC, 29290 803-776-9909

DATE: MAY 11, 2018 JOB #050718P

APPENDIX C

Laboratory Analytical Report – Ground Water Samples

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

e-Hardcopy 2.0
Automated Report



Technical Report for

GRI (Geological Resources Inc.)

Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC 18686/1543

SGS Job Number: FA53632

Sampling Dates: 04/18/18 - 04/19/18

Report to:

GRI (Geological Resources Inc.)

wsb@geologicalresourcesinc.com

ATTN: Scott Ball

Total number of pages in report: 143

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

This report shall not be reproduced, except in its entirety, without the written approval of SGS.

Test results relate only to samples analyzed.

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Sample Summary

GRI (Geological Resources Inc.)

Job No: FA53632

Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Project No: 18686/1543

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
FA53632-1	04/18/18	14:30 PM	04/21/18	AQ	Ground Water	18686 MW1
FA53632-2	04/18/18	14:08 PM	04/21/18	AQ	Ground Water	18686 MW2
FA53632-3	04/18/18	12:41 PM	04/21/18	AQ	Ground Water	18686 MW3
FA53632-4	04/18/18	15:23 PM	04/21/18	AQ	Ground Water	18686 MW5R
FA53632-5	04/18/18	15:09 PM	04/21/18	AQ	Ground Water	18686 MW6
FA53632-6	04/18/18	14:48 PM	04/21/18	AQ	Ground Water	18686 MW7
FA53632-7	04/18/18	08:57 PM	04/21/18	AQ	Ground Water	18686 MW8
FA53632-8	04/18/18	10:56 PM	04/21/18	AQ	Ground Water	18686 MW9
FA53632-9	04/18/18	10:35 PM	04/21/18	AQ	Ground Water	18686 MW11R
FA53632-10	04/18/18	10:14 PM	04/21/18	AQ	Ground Water	18686 MW12R
FA53632-11	04/18/18	11:25 PM	04/21/18	AQ	Ground Water	18686 MW13
FA53632-12	04/18/18	15:43 PM	04/21/18	AQ	Ground Water	18686 MW14
FA53632-13	04/18/18	08:49 PM	04/21/18	AQ	Ground Water	18686 MW16R

Sample Summary
(continued)

GRI (Geological Resources Inc.)

Job No: FA53632

Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Project No: 18686/1543

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
FA53632-14	04/18/18	09:10 PM	04/21/18	AQ	Ground Water	18686 MW17R
FA53632-15	04/18/18	08:27 PM	04/21/18	AQ	Ground Water	18686 MW18R
FA53632-16	04/18/18	09:32 PM	04/21/18	AQ	Ground Water	18686 MW20
FA53632-17	04/18/18	19:19 PM	04/21/18	AQ	Ground Water	18686 MW22
FA53632-18	04/18/18	18:14 PM	04/21/18	AQ	Ground Water	18686 MW23
FA53632-19	04/18/18	18:28 PM	04/21/18	AQ	Ground Water	18686 MW24
FA53632-20	04/18/18	18:42 PM	04/21/18	AQ	Ground Water	18686 MW25
FA53632-21	04/18/18	18:57 PM	04/21/18	AQ	Ground Water	18686 MW26
FA53632-22	04/18/18	19:36 PM	04/21/18	AQ	Ground Water	18686 MW27
FA53632-23	04/18/18	19:50 PM	04/21/18	AQ	Ground Water	18686 MW28
FA53632-24	04/18/18	17:52 PM	04/21/18	AQ	Ground Water	18686 MW31
FA53632-25	04/18/18	09:37 PM	04/21/18	AQ	Ground Water	18686 MW1A
FA53632-26	04/18/18	09:53 PM	04/21/18	AQ	Ground Water	18686 MW2A

Sample Summary
(continued)

GRI (Geological Resources Inc.)

Job No: FA53632

Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Project No: 18686/1543

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
FA53632-27	04/18/18	09:15 PM	04/21/18	AQ	Ground Water	18686 MW4A
FA53632-28	04/18/18	13:25 PM	04/21/18	AQ	Ground Water	18686 TW1
FA53632-29	04/18/18	08:01 PM	04/21/18	AQ	Ground Water	18686 TW2
FA53632-30	04/18/18	12:37 PM	04/21/18	AQ	Ground Water	18686 DUPA
FA53632-31	04/18/18	14:25 PM	04/21/18	AQ	Ground Water	18686 DUPB
FA53632-32	04/18/18	09:49 PM	04/21/18	AQ	Field Blank Water	18686 FIELD BLANK
FA53632-33	04/18/18	07:01 PM	04/21/18	AQ	Trip Blank Water	18686 TRIP BLANK
FA53632-34	04/19/18	09:34 PM	04/21/18	DW	Drinking Water	18686 WSW-1
FA53632-35	04/19/18	08:19 PM	04/21/18	DW	Drinking Water	18686 WSW-3
FA53632-36	04/19/18	08:53 PM	04/21/18	DW	Drinking Water	18686 WSW DUP
FA53632-37	04/19/18	09:52 PM	04/21/18	DW	Drinking Water FB	18686 WSW FIELD BLANK
FA53632-38	04/19/18	07:01 PM	04/21/18	DW	Drinking Water TB	18686 WSW TRIP BLANK

Summary of Hits

Job Number: FA53632
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 04/18/18 thru 04/19/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA53632-1	**18686 MW1**					
Benzene		3140	200	62	ug/l	SW846 8260B
Toluene		9130	200	60	ug/l	SW846 8260B
Ethylbenzene		363	200	71	ug/l	SW846 8260B
Xylene (total)		4590	600	140	ug/l	SW846 8260B
Methyl Tert Butyl Ether		82.4 J	200	46	ug/l	SW846 8260B
Naphthalene		208 J	1000	200	ug/l	SW846 8260B
Tert-Amyl Alcohol [a]		17800	4000	1100	ug/l	SW846 8260B
FA53632-2	**18686 MW2**					
Benzene		8520	200	62	ug/l	SW846 8260B
Toluene		18000	200	60	ug/l	SW846 8260B
Ethylbenzene		1520	200	71	ug/l	SW846 8260B
Xylene (total)		8740	600	140	ug/l	SW846 8260B
Naphthalene		339 J	1000	200	ug/l	SW846 8260B
Tert-Amyl Alcohol [a]		15000	4000	1100	ug/l	SW846 8260B
1,2-Dibromoethane [b]		0.38	0.019	0.0095	ug/l	SW846 8011
FA53632-3	**18686 MW3**					
Benzene		2800	100	31	ug/l	SW846 8260B
Toluene		8590	100	30	ug/l	SW846 8260B
Ethylbenzene		1110	100	36	ug/l	SW846 8260B
Xylene (total)		5690	300	72	ug/l	SW846 8260B
Methyl Tert Butyl Ether		53.1 J	100	23	ug/l	SW846 8260B
Naphthalene		202 J	500	100	ug/l	SW846 8260B
Tert-Amyl Alcohol [a]		6360	2000	530	ug/l	SW846 8260B
1,2-Dibromoethane [b]		0.020	0.019	0.0096	ug/l	SW846 8011
FA53632-4	**18686 MW5R**					
Tert-Amyl Alcohol [a]		14.1 J	20	5.3	ug/l	SW846 8260B
FA53632-5	**18686 MW6**					
No hits reported in this sample.						
FA53632-6	**18686 MW7**					
No hits reported in this sample.						

2

Summary of Hits

Job Number: FA53632
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 04/18/18 thru 04/19/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA53632-7	**18686 MW8**					
Benzene		3.1	1.0	0.31	ug/l	SW846 8260B
Ethylbenzene		0.40 J	1.0	0.36	ug/l	SW846 8260B
Naphthalene		1.4 J	5.0	1.0	ug/l	SW846 8260B
FA53632-8	**18686 MW9**					
No hits reported in this sample.						
FA53632-9	**18686 MW11R**					
No hits reported in this sample.						
FA53632-10	**18686 MW12R**					
No hits reported in this sample.						
FA53632-11	**18686 MW13**					
Methyl Tert Butyl Ether		1.9	1.0	0.23	ug/l	SW846 8260B
FA53632-12	**18686 MW14**					
Benzene		2.4	1.0	0.31	ug/l	SW846 8260B
Toluene		0.48 J	1.0	0.30	ug/l	SW846 8260B
Ethylbenzene		0.53 J	1.0	0.36	ug/l	SW846 8260B
Xylene (total)		1.9 J	3.0	0.72	ug/l	SW846 8260B
Tert-Amyl Alcohol		6.0 J	20	5.3	ug/l	SW846 8260B
FA53632-13	**18686 MW16R**					
Benzene		16300	200	62	ug/l	SW846 8260B
Toluene		59700	1000	300	ug/l	SW846 8260B
Ethylbenzene		6460	200	71	ug/l	SW846 8260B
Xylene (total)		34900	600	140	ug/l	SW846 8260B
Methyl Tert Butyl Ether		56.7 J	200	46	ug/l	SW846 8260B
Naphthalene		1320	1000	200	ug/l	SW846 8260B
Tert-Amyl Alcohol [a]		20100	4000	1100	ug/l	SW846 8260B
1,2-Dibromoethane [b]		0.21	0.019	0.0095	ug/l	SW846 8011
FA53632-14	**18686 MW17R**					
Benzene		1770	20	6.2	ug/l	SW846 8260B
Toluene		174	20	6.0	ug/l	SW846 8260B

Summary of Hits

Job Number: FA53632
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 04/18/18 thru 04/19/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Ethylbenzene		139	20	7.1	ug/l	SW846 8260B
Xylene (total)		438	60	14	ug/l	SW846 8260B
Methyl Tert Butyl Ether		442	20	4.6	ug/l	SW846 8260B
Naphthalene		78.9 J	100	20	ug/l	SW846 8260B
Ethyl Tert Butyl Ether		11.6 J	40	4.7	ug/l	SW846 8260B
Tert-Amyl Alcohol [a]		4690	400	110	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		11.0 J	40	4.9	ug/l	SW846 8260B
FA53632-15	**18686 MW18R**					
Benzene		1.9	1.0	0.31	ug/l	SW846 8260B
Tert-Amyl Alcohol		41.3	20	5.3	ug/l	SW846 8260B
FA53632-16	**18686 MW20**					
Methyl Tert Butyl Ether		7.6	1.0	0.23	ug/l	SW846 8260B
Tert-Amyl Alcohol		90.9	20	5.3	ug/l	SW846 8260B
FA53632-17	**18686 MW22**					
Benzene		0.43 J	1.0	0.31	ug/l	SW846 8260B
Methyl Tert Butyl Ether		24.6	1.0	0.23	ug/l	SW846 8260B
Di-Isopropyl Ether		0.51 J	1.0	0.24	ug/l	SW846 8260B
Ethyl Tert Butyl Ether		0.67 J	2.0	0.24	ug/l	SW846 8260B
Tert-Amyl Alcohol [a]		1150	100	26	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		2.8	2.0	0.24	ug/l	SW846 8260B
Tert-Butyl Alcohol		48.1	20	5.3	ug/l	SW846 8260B
FA53632-18	**18686 MW23**					
Methyl Tert Butyl Ether		11.8	1.0	0.23	ug/l	SW846 8260B
Tert-Amyl Alcohol		182	20	5.3	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		0.95 J	2.0	0.24	ug/l	SW846 8260B
1,2-Dibromoethane [b]		0.032	0.019	0.0093	ug/l	SW846 8011
FA53632-19	**18686 MW24**					
No hits reported in this sample.						
FA53632-20	**18686 MW25**					
No hits reported in this sample.						

2

Summary of Hits

Job Number: FA53632
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 04/18/18 thru 04/19/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA53632-21	**18686 MW26**					
No hits reported in this sample.						
FA53632-22	**18686 MW27**					
Benzene		0.54 J	1.0	0.31	ug/l	SW846 8260B
FA53632-23	**18686 MW28**					
1,2-Dibromoethane [b]		0.035	0.020	0.0099	ug/l	SW846 8011
FA53632-24	**18686 MW31**					
No hits reported in this sample.						
FA53632-25	**18686 MW1A**					
Benzene		3630	50	16	ug/l	SW846 8260B
Toluene		4790	100	30	ug/l	SW846 8260B
Ethylbenzene		110	50	18	ug/l	SW846 8260B
Xylene (total)		1170	150	36	ug/l	SW846 8260B
Methyl Tert Butyl Ether		23.6 J	50	11	ug/l	SW846 8260B
Naphthalene		55.2 J	250	50	ug/l	SW846 8260B
Tert-Amyl Alcohol [a]		13900	2000	530	ug/l	SW846 8260B
FA53632-26	**18686 MW2A**					
Benzene		24700	250	78	ug/l	SW846 8260B
Toluene [c]		42000	1000	300	ug/l	SW846 8260B
Ethylbenzene		3050	100	36	ug/l	SW846 8260B
Xylene (total)		14900	300	72	ug/l	SW846 8260B
Methyl Tert Butyl Ether		107	100	23	ug/l	SW846 8260B
Naphthalene		861	500	100	ug/l	SW846 8260B
Di-Isopropyl Ether		39.1 J	100	24	ug/l	SW846 8260B
Tert-Amyl Alcohol [a]		43700	2000	530	ug/l	SW846 8260B
Tert-Amyl Methyl Ether		87.0 J	200	24	ug/l	SW846 8260B
1,2-Dibromoethane [b]		0.24	0.019	0.0096	ug/l	SW846 8011
FA53632-27	**18686 MW4A**					
Benzene		8040	250	78	ug/l	SW846 8260B
Toluene		35000	1000	300	ug/l	SW846 8260B
Ethylbenzene		2040	250	89	ug/l	SW846 8260B
Xylene (total)		16600	750	180	ug/l	SW846 8260B

Summary of Hits

Job Number: FA53632
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 04/18/18 thru 04/19/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Naphthalene		505 J	1300	250	ug/l	SW846 8260B
Tert-Amyl Alcohol [a]		4470 J	5000	1300	ug/l	SW846 8260B
1,2-Dibromoethane [b]		0.074	0.019	0.0096	ug/l	SW846 8011
FA53632-28	**18686 TW1**					
No hits reported in this sample.						
FA53632-29	**18686 TW2**					
Benzene		18.3	1.0	0.31	ug/l	SW846 8260B
Methyl Tert Butyl Ether		1.4	1.0	0.23	ug/l	SW846 8260B
Tert-Amyl Alcohol [a]		71.1	20	5.3	ug/l	SW846 8260B
FA53632-30	**18686 DUPA**					
Benzene		3150	100	31	ug/l	SW846 8260B
Toluene		9420	100	30	ug/l	SW846 8260B
Ethylbenzene		339	100	36	ug/l	SW846 8260B
Xylene (total)		4810	300	72	ug/l	SW846 8260B
Methyl Tert Butyl Ether		79.6 J	100	23	ug/l	SW846 8260B
Naphthalene		221 J	500	100	ug/l	SW846 8260B
Tert-Amyl Alcohol		11500	2000	530	ug/l	SW846 8260B
FA53632-31	**18686 DUPB**					
Benzene		2810	100	31	ug/l	SW846 8260B
Toluene		7940	100	30	ug/l	SW846 8260B
Ethylbenzene		970	100	36	ug/l	SW846 8260B
Xylene (total)		5020	300	72	ug/l	SW846 8260B
Methyl Tert Butyl Ether		57.0 J	100	23	ug/l	SW846 8260B
Naphthalene		170 J	500	100	ug/l	SW846 8260B
Tert-Amyl Alcohol		3770	2000	530	ug/l	SW846 8260B
1,2-Dibromoethane [b]		0.019	0.019	0.0096	ug/l	SW846 8011
FA53632-32	**18686 FIELD BLANK**					
No hits reported in this sample.						
FA53632-33	**18686 TRIP BLANK**					
No hits reported in this sample.						

(a) Associated BS recovery outside control limits.
(b) All hits confirmed by dual column analysis.

2

Summary of Hits

Job Number: FA53632
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 04/18/18 thru 04/19/18

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

(c) Sample vial(s) contained bubbles greater than 6mm.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	18686 MW1		
Lab Sample ID:	FA53632-1	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52851.D	200	04/25/18 14:23	SP	n/a	n/a	VO1988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3140	200	62	ug/l	
108-88-3	Toluene	9130	200	60	ug/l	
100-41-4	Ethylbenzene	363	200	71	ug/l	
1330-20-7	Xylene (total)	4590	600	140	ug/l	
1634-04-4	Methyl Tert Butyl Ether	82.4	200	46	ug/l	J
91-20-3	Naphthalene	208	1000	200	ug/l	J
107-06-2	1,2-Dichloroethane	ND	200	62	ug/l	
108-20-3	Di-Isopropyl Ether	ND	200	48	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	10000	2000	ug/l	
64-17-5	Ethyl Alcohol [a]	ND	40000	16000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	400	47	ug/l	
75-85-4	Tert-Amyl Alcohol [b]	17800	4000	1100	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	400	49	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	4000	1100	ug/l	
762-75-4	Tert-Butyl Formate	ND	4000	1000	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	109%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

(a) Associated ICV outside control limits high, however sample ND.
(b) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW1		
Lab Sample ID:	FA53632-1	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD98989.D	1	04/25/18 00:34	NM	04/24/18 09:45	OP69758	GDD2880
Run #2							

	Initial Volume	Final Volume
Run #1	36.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW2		
Lab Sample ID:	FA53632-2	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52852.D	200	04/25/18 14:44	SP	n/a	n/a	VO1988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	8520	200	62	ug/l	
108-88-3	Toluene	18000	200	60	ug/l	
100-41-4	Ethylbenzene	1520	200	71	ug/l	
1330-20-7	Xylene (total)	8740	600	140	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	200	46	ug/l	
91-20-3	Naphthalene	339	1000	200	ug/l	J
107-06-2	1,2-Dichloroethane	ND	200	62	ug/l	
108-20-3	Di-Isopropyl Ether	ND	200	48	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	10000	2000	ug/l	
64-17-5	Ethyl Alcohol [a]	ND	40000	16000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	400	47	ug/l	
75-85-4	Tert-Amyl Alcohol [b]	15000	4000	1100	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	400	49	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	4000	1100	ug/l	
762-75-4	Tert-Butyl Formate	ND	4000	1000	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	111%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Associated ICV outside control limits high, however sample ND.
(b) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 MW2		
Lab Sample ID:	FA53632-2	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD99080.D	1	04/26/18 11:16	EM	04/24/18 09:45	OP69758	GDD2882
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.38	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW3		
Lab Sample ID:	FA53632-3	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52853.D	100	04/25/18 15:04	SP	n/a	n/a	VO1988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2800	100	31	ug/l	
108-88-3	Toluene	8590	100	30	ug/l	
100-41-4	Ethylbenzene	1110	100	36	ug/l	
1330-20-7	Xylene (total)	5690	300	72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	53.1	100	23	ug/l	J
91-20-3	Naphthalene	202	500	100	ug/l	J
107-06-2	1,2-Dichloroethane	ND	100	31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	100	24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	5000	1000	ug/l	
64-17-5	Ethyl Alcohol [a]	ND	20000	8200	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	200	24	ug/l	
75-85-4	Tert-Amyl Alcohol [b]	6360	2000	530	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	200	24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	2000	530	ug/l	
762-75-4	Tert-Butyl Formate	ND	2000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(a) Associated ICV outside control limits high, however sample ND.
(b) Associated BS recovery outside control limits

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 MW3		
Lab Sample ID:	FA53632-3	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD99082.D	1	04/26/18 11:46	EM	04/24/18 09:45	OP69758	GDD2882
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.020	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 MW5R		
Lab Sample ID:	FA53632-4	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52840.D	1	04/25/18 10:35	SP	n/a	n/a	VO1988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol [a]	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol [b]	14.1	20	5.3	ug/l	J
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	109%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

(a) Associated ICV outside control limits high, however sample ND.
(b) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 MW5R		
Lab Sample ID:	FA53632-4	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD98994.D	1	04/25/18 01:49	NM	04/24/18 09:45	OP69758	GDD2880
Run #2							

	Initial Volume	Final Volume
Run #1	37.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	70%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis



Client Sample ID:	18686 MW6		
Lab Sample ID:	FA53632-5	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52841.D	1	04/25/18 10:55	SP	n/a	n/a	VO1988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol [a]	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol [b]	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	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	96%		79-125%
2037-26-5	Toluene-D8	110%		85-112%
460-00-4	4-Bromofluorobenzene	108%		83-118%

(a) Associated ICV outside control limits high, however sample ND.
(b) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

3.5

Client Sample ID:	18686 MW6		
Lab Sample ID:	FA53632-5	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD98995.D	1	04/25/18 02:04	NM	04/24/18 09:45	OP69758	GDD2880
Run #2							

	Initial Volume	Final Volume
Run #1	37.0 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	70%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

3.6

Client Sample ID:	18686 MW7		
Lab Sample ID:	FA53632-6	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52842.D	1	04/25/18 11:16	SP	n/a	n/a	VO1988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol [a]	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol [b]	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	109%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

(a) Associated ICV outside control limits high, however sample ND.
(b) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 MW7		
Lab Sample ID:	FA53632-6	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD98998.D	1	04/25/18 02:48	NM	04/24/18 09:45	OP69758	GDD2880
Run #2							

	Initial Volume	Final Volume
Run #1	37.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	75%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 MW8		
Lab Sample ID:	FA53632-7	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0990902.D	1	04/25/18 16:17	MM	n/a	n/a	VJ5889
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.1	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	0.40	1.0	0.36	ug/l	J
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	1.4	5.0	1.0	ug/l	J
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 MW8		
Lab Sample ID:	FA53632-7	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD98999.D	1	04/25/18 03:03	NM	04/24/18 09:45	OP69758	GDD2880
Run #2							

	Initial Volume	Final Volume
Run #1	37.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	80%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 MW9		
Lab Sample ID:	FA53632-8	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0990903.D	1	04/25/18 16:43	MM	n/a	n/a	VJ5889
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

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

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 MW9		
Lab Sample ID:	FA53632-8	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD99000.D	1	04/25/18 03:18	NM	04/24/18 09:45	OP69758	GDD2880
Run #2							

	Initial Volume	Final Volume
Run #1	37.0 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	80%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 MW11R		
Lab Sample ID:	FA53632-9	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0990904.D	1	04/25/18 17:09	MM	n/a	n/a	VJ5889
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW11R		
Lab Sample ID:	FA53632-9	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD99001.D	1	04/25/18 03:33	NM	04/24/18 09:45	OP69758	GDD2880
Run #2							

	Initial Volume	Final Volume
Run #1	37.4 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	69%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 MW12R		
Lab Sample ID:	FA53632-10	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0990905.D	1	04/25/18 17:35	MM	n/a	n/a	VJ5889
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	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	109%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW12R		
Lab Sample ID:	FA53632-10	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD99002.D	1	04/25/18 03:48	NM	04/24/18 09:45	OP69758	GDD2880
Run #2							

	Initial Volume	Final Volume
Run #1	37.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0093	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	66%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 MW13		
Lab Sample ID:	FA53632-11	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0990906.D	1	04/25/18 18:01	MM	n/a	n/a	VJ5889
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.9	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	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	107%		79-125%
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW13		
Lab Sample ID:	FA53632-11	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD99003.D	1	04/25/18 04:03	NM	04/24/18 09:45	OP69758	GDD2880
Run #2							

	Initial Volume	Final Volume
Run #1	37.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0093	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	76%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW14		
Lab Sample ID:	FA53632-12	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0990907.D	1	04/25/18 18:27	MM	n/a	n/a	VJ5889
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2.4	1.0	0.31	ug/l	
108-88-3	Toluene	0.48	1.0	0.30	ug/l	J
100-41-4	Ethylbenzene	0.53	1.0	0.36	ug/l	J
1330-20-7	Xylene (total)	1.9	3.0	0.72	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	6.0	20	5.3	ug/l	J
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW14		
Lab Sample ID:	FA53632-12	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD99004.D	1	04/25/18 04:18	NM	04/24/18 09:45	OP69758	GDD2880
Run #2							

	Initial Volume	Final Volume
Run #1	36.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	68%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW16R		
Lab Sample ID:	FA53632-13	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52854.D	200	04/25/18 15:25	SP	n/a	n/a	VO1988
Run #2	O52916.D	1000	04/26/18 16:12	SP	n/a	n/a	VO1992

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	16300	200	62	ug/l	
108-88-3	Toluene	59700 [a]	1000	300	ug/l	
100-41-4	Ethylbenzene	6460	200	71	ug/l	
1330-20-7	Xylene (total)	34900	600	140	ug/l	
1634-04-4	Methyl Tert Butyl Ether	56.7	200	46	ug/l	J
91-20-3	Naphthalene	1320	1000	200	ug/l	
107-06-2	1,2-Dichloroethane	ND	200	62	ug/l	
108-20-3	Di-Isopropyl Ether	ND	200	48	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	10000	2000	ug/l	
64-17-5	Ethyl Alcohol [b]	ND	40000	16000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	400	47	ug/l	
75-85-4	Tert-Amyl Alcohol [c]	20100	4000	1100	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	400	49	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	4000	1100	ug/l	
762-75-4	Tert-Butyl Formate	ND	4000	1000	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	96%	79-125%
2037-26-5	Toluene-D8	107%	109%	85-112%
460-00-4	4-Bromofluorobenzene	105%	105%	83-118%

(a) Result is from Run# 2
(b) Associated ICV outside control limits high, however sample ND.
(c) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

3.13

Client Sample ID:	18686 MW16R		
Lab Sample ID:	FA53632-13	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD99083.D	1	04/26/18 12:01	EM	04/24/18 09:45	OP69758	GDD2882
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.21	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	83%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 MW17R		
Lab Sample ID:	FA53632-14	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52917.D	20	04/26/18 16:33	SP	n/a	n/a	VO1992
Run #2 [a]	O52855.D	50	04/25/18 15:46	SP	n/a	n/a	VO1988

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1770	20	6.2	ug/l	
108-88-3	Toluene	174	20	6.0	ug/l	
100-41-4	Ethylbenzene	139	20	7.1	ug/l	
1330-20-7	Xylene (total)	438	60	14	ug/l	
1634-04-4	Methyl Tert Butyl Ether	442	20	4.6	ug/l	
91-20-3	Naphthalene	78.9	100	20	ug/l	J
107-06-2	1,2-Dichloroethane	ND	20	6.2	ug/l	
108-20-3	Di-Isopropyl Ether	ND	20	4.8	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	1000	200	ug/l	
64-17-5	Ethyl Alcohol [b]	ND	4000	1600	ug/l	
637-92-3	Ethyl Tert Butyl Ether	11.6	40	4.7	ug/l	J
75-85-4	Tert-Amyl Alcohol [c]	4690	400	110	ug/l	
994-05-8	Tert-Amyl Methyl Ether	11.0	40	4.9	ug/l	J
75-65-0	Tert-Butyl Alcohol	ND	400	110	ug/l	
762-75-4	Tert-Butyl Formate	ND	400	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	96%	79-125%
2037-26-5	Toluene-D8	109%	107%	85-112%
460-00-4	4-Bromofluorobenzene	103%	106%	83-118%

(a) Confirmation run.
(b) Associated ICV outside control limits high, however sample ND.
(c) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 MW17R		
Lab Sample ID:	FA53632-14	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD99006.D	1	04/25/18 04:48	NM	04/24/18 09:45	OP69758	GDD2880
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis



Client Sample ID:	18686 MW18R		
Lab Sample ID:	FA53632-15	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0990908.D	1	04/25/18 18:52	MM	n/a	n/a	VJ5889
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.9	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	41.3	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	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	98%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 MW18R		
Lab Sample ID:	FA53632-15	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD99007.D	1	04/25/18 05:03	NM	04/24/18 09:45	OP69758	GDD2880
Run #2							

	Initial Volume	Final Volume
Run #1	37.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0093	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW20		
Lab Sample ID:	FA53632-16	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52870.D	1	04/25/18 20:57	SP	n/a	n/a	VO1991
Run #2	1A11308.D	1	05/02/18 13:20	SP	n/a	n/a	V1A417

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	7.6	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	90.9 [a]	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	95%	79-125%
2037-26-5	Toluene-D8	109%	104%	85-112%
460-00-4	4-Bromofluorobenzene	109%	106%	83-118%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 MW20		
Lab Sample ID:	FA53632-16	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD99010.D	1	04/25/18 05:47	NM	04/24/18 09:45	OP69758	GDD2880
Run #2							

	Initial Volume	Final Volume
Run #1	37.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	69%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW22		
Lab Sample ID:	FA53632-17	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52871.D	1	04/25/18 21:21	SP	n/a	n/a	VO1991
Run #2	J0990985.D	5	04/30/18 16:14	MM	n/a	n/a	VJ5892

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.43	1.0	0.31	ug/l	J
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	24.6	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	0.51	1.0	0.24	ug/l	J
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	0.67	2.0	0.24	ug/l	J
75-85-4	Tert-Amyl Alcohol [a]	1150 [b]	100	26	ug/l	
994-05-8	Tert-Amyl Methyl Ether	2.8	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	48.1	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	108%	79-125%
2037-26-5	Toluene-D8	110%	100%	85-112%
460-00-4	4-Bromofluorobenzene	107%	99%	83-118%

(a) Associated BS recovery outside control limits.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

3.17

Client Sample ID:	18686 MW22		
Lab Sample ID:	FA53632-17	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD99011.D	1	04/25/18 06:02	NM	04/24/18 09:45	OP69758	GDD2880
Run #2							

	Initial Volume	Final Volume
Run #1	37.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0093	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	110%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 MW23		
Lab Sample ID:	FA53632-18	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52872.D	1	04/25/18 21:42	SP	n/a	n/a	VO1991
Run #2	1A11309.D	1	05/02/18 13:45	SP	n/a	n/a	V1A417

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	11.8	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	182 [a]	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	0.95	2.0	0.24	ug/l	J
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	94%	79-125%
2037-26-5	Toluene-D8	106%	104%	85-112%
460-00-4	4-Bromofluorobenzene	105%	106%	83-118%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 MW23		
Lab Sample ID:	FA53632-18	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD99251.D	1	05/01/18 18:49	NM	04/24/18 09:45	OP69758	GDD2885
Run #2							

	Initial Volume	Final Volume
Run #1	37.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.032	0.019	0.0093	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	83%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW24		
Lab Sample ID:	FA53632-19	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52873.D	1	04/25/18 22:03	SP	n/a	n/a	VO1991
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol [a]	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	111%		85-112%
460-00-4	4-Bromofluorobenzene	108%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

3.19

Client Sample ID:	18686 MW24		
Lab Sample ID:	FA53632-19	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD99013.D	1	04/25/18 06:32	NM	04/24/18 09:45	OP69758	GDD2880
Run #2							

	Initial Volume	Final Volume
Run #1	37.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	79%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW25		
Lab Sample ID:	FA53632-20	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52874.D	1	04/25/18 22:23	SP	n/a	n/a	VO1991
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol [a]	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

3.20

Client Sample ID:	18686 MW25		
Lab Sample ID:	FA53632-20	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD99014.D	1	04/25/18 06:47	NM	04/24/18 09:45	OP69758	GDD2880
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	74%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 MW26		
Lab Sample ID:	FA53632-21	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52875.D	1	04/25/18 22:44	SP	n/a	n/a	VO1991
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol [a]	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	109%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

3.21

Client Sample ID:	18686 MW26		
Lab Sample ID:	FA53632-21	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #I	DD99106.D	1	04/26/18 17:46	EM	04/25/18 14:00	OP69782	GDD2882
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	126%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW27		
Lab Sample ID:	FA53632-22	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52876.D	1	04/25/18 23:05	SP	n/a	n/a	VO1991
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.54	1.0	0.31	ug/l	J
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol [a]	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	110%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 MW27		
Lab Sample ID:	FA53632-22	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD99107.D	1	04/26/18 18:01	EM	04/25/18 14:00	OP69782	GDD2882
Run #2							

	Initial Volume	Final Volume
Run #1	36.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	124%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW28		
Lab Sample ID:	FA53632-23	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0990975.D	1	04/30/18 11:42	MM	n/a	n/a	VJ5892
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol [a]	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol [b]	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

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

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

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

3.23

Client Sample ID:	18686 MW28		
Lab Sample ID:	FA53632-23	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD99108.D	1	04/26/18 18:16	EM	04/25/18 14:00	OP69782	GDD2882
Run #2							

	Initial Volume	Final Volume
Run #1	35.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.035	0.020	0.0099	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	130%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 MW31		
Lab Sample ID:	FA53632-24	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0990976.D	1	04/30/18 12:08	MM	n/a	n/a	VJ5892
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol [a]	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol [b]	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

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

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

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

3.24

Client Sample ID:	18686 MW31		
Lab Sample ID:	FA53632-24	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD99109.D	1	04/26/18 18:31	EM	04/25/18 14:00	OP69782	GDD2882
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	112%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW1A		
Lab Sample ID:	FA53632-25	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52879.D	50	04/26/18 00:07	SP	n/a	n/a	VO1991
Run #2	J0990986.D	100	04/30/18 16:39	MM	n/a	n/a	VJ5892

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3630	50	16	ug/l	
108-88-3	Toluene	4790 [a]	100	30	ug/l	
100-41-4	Ethylbenzene	110	50	18	ug/l	
1330-20-7	Xylene (total)	1170	150	36	ug/l	
1634-04-4	Methyl Tert Butyl Ether	23.6	50	11	ug/l	J
91-20-3	Naphthalene	55.2	250	50	ug/l	J
107-06-2	1,2-Dichloroethane	ND	50	16	ug/l	
108-20-3	Di-Isopropyl Ether	ND	50	12	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND [a]	5000	1000	ug/l	
64-17-5	Ethyl Alcohol [b]	ND [a]	20000	8200	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	100	12	ug/l	
75-85-4	Tert-Amyl Alcohol [c]	13900 [a]	2000	530	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	100	12	ug/l	
75-65-0	Tert-Butyl Alcohol	ND [a]	2000	530	ug/l	
762-75-4	Tert-Butyl Formate	ND	1000	250	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	104%	79-125%
2037-26-5	Toluene-D8	110%	99%	85-112%
460-00-4	4-Bromofluorobenzene	102%	99%	83-118%

(a) Result is from Run# 2
(b) Associated CCV outside of control limits high, sample was ND.
(c) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

3.25

Client Sample ID:	18686 MW1A		
Lab Sample ID:	FA53632-25	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD99110.D	1	04/26/18 18:46	EM	04/25/18 14:00	OP69782	GDD2882
Run #2							

	Initial Volume	Final Volume
Run #1	36.8 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW2A		
Lab Sample ID:	FA53632-26	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0990987.D	100	04/30/18 17:05	MM	n/a	n/a	VJ5892
Run #2	O52880.D	250	04/26/18 00:27	SP	n/a	n/a	VO1991
Run #3 [a]	M0102763.D	1000	05/01/18 17:14	AB	n/a	n/a	VM4427

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	24700 [b]	250	78	ug/l	
108-88-3	Toluene	42000 [c]	1000	300	ug/l	
100-41-4	Ethylbenzene	3050	100	36	ug/l	
1330-20-7	Xylene (total)	14900	300	72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	107	100	23	ug/l	
91-20-3	Naphthalene	861	500	100	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	31	ug/l	
108-20-3	Di-Isopropyl Ether	39.1	100	24	ug/l	J
624-95-3	3,3-Dimethyl-1-Butanol	ND	5000	1000	ug/l	
64-17-5	Ethyl Alcohol [d]	ND	20000	8200	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	200	24	ug/l	
75-85-4	Tert-Amyl Alcohol [e]	43700	2000	530	ug/l	
994-05-8	Tert-Amyl Methyl Ether	87.0	200	24	ug/l	J
75-65-0	Tert-Butyl Alcohol	ND	2000	530	ug/l	
762-75-4	Tert-Butyl Formate	ND	2000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	103%	94%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	96%	102%	79-125%
2037-26-5	Toluene-D8	95%	108%	104%	85-112%
460-00-4	4-Bromofluorobenzene	98%	104%	97%	83-118%

(a) Sample vial(s) contained bubbles greater than 6mm.
(b) Result is from Run# 2
(c) Result is from Run# 3
(d) Associated CCV outside of control limits high, sample was ND.
(e) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis



Client Sample ID:	18686 MW2A		
Lab Sample ID:	FA53632-26	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD99111.D	1	04/26/18 19:01	EM	04/25/18 14:00	OP69782	GDD2882
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.24	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 MW4A		
Lab Sample ID:	FA53632-27	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52881.D	250	04/26/18 00:48	SP	n/a	n/a	VO1991
Run #2	J0990988.D	1000	04/30/18 17:31	MM	n/a	n/a	VJ5892

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	8040	250	78	ug/l	
108-88-3	Toluene	35000 [a]	1000	300	ug/l	
100-41-4	Ethylbenzene	2040	250	89	ug/l	
1330-20-7	Xylene (total)	16600	750	180	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	250	57	ug/l	
91-20-3	Naphthalene	505	1300	250	ug/l	J
107-06-2	1,2-Dichloroethane	ND	250	78	ug/l	
108-20-3	Di-Isopropyl Ether	ND	250	60	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	13000	2500	ug/l	
64-17-5	Ethyl Alcohol	ND	50000	20000	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	500	59	ug/l	
75-85-4	Tert-Amyl Alcohol [b]	4470	5000	1300	ug/l	J
994-05-8	Tert-Amyl Methyl Ether	ND	500	61	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	5000	1300	ug/l	
762-75-4	Tert-Butyl Formate	ND	5000	1300	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	106%	79-125%
2037-26-5	Toluene-D8	107%	98%	85-112%
460-00-4	4-Bromofluorobenzene	101%	100%	83-118%

(a) Result is from Run# 2
(b) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

3.27

Client Sample ID:	18686 MW4A		
Lab Sample ID:	FA53632-27	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD99112.D	1	04/26/18 19:16	EM	04/25/18 14:00	OP69782	GDD2882
Run #2							

	Initial Volume	Final Volume
Run #1	36.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.074	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 TW1		
Lab Sample ID:	FA53632-28	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52882.D	1	04/26/18 01:09	SP	n/a	n/a	VO1991
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol [a]	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

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

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 TW1		
Lab Sample ID:	FA53632-28	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD99113.D	1	04/26/18 19:31	EM	04/25/18 14:00	OP69782	GDD2882
Run #2							

	Initial Volume	Final Volume
Run #1	37.1 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 TW2		
Lab Sample ID:	FA53632-29	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52883.D	1	04/26/18 01:29	SP	n/a	n/a	VO1991
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	18.3	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.4	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol [a]	71.1	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	94%		79-125%
2037-26-5	Toluene-D8	108%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

3.29

Client Sample ID:	18686 TW2		
Lab Sample ID:	FA53632-29	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD99114.D	1	04/26/18 19:46	EM	04/25/18 14:00	OP69782	GDD2882
Run #2							

	Initial Volume	Final Volume
Run #1	36.9 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0095	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 DUPA		
Lab Sample ID:	FA53632-30	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52884.D	100	04/26/18 01:50	SP	n/a	n/a	VO1991
Run #2	1A11312.D	100	05/02/18 15:00	SP	n/a	n/a	V1A417

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3150	100	31	ug/l	
108-88-3	Toluene	9420	100	30	ug/l	
100-41-4	Ethylbenzene	339	100	36	ug/l	
1330-20-7	Xylene (total)	4810	300	72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	79.6	100	23	ug/l	J
91-20-3	Naphthalene	221	500	100	ug/l	J
107-06-2	1,2-Dichloroethane	ND	100	31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	100	24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	5000	1000	ug/l	
64-17-5	Ethyl Alcohol	ND	20000	8200	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	200	24	ug/l	
75-85-4	Tert-Amyl Alcohol	11500 [a]	2000	530	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	200	24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	2000	530	ug/l	
762-75-4	Tert-Butyl Formate	ND	2000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	97%	79-125%
2037-26-5	Toluene-D8	108%	102%	85-112%
460-00-4	4-Bromofluorobenzene	104%	103%	83-118%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

3.30



Client Sample ID:	18686 DUPA		
Lab Sample ID:	FA53632-30	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD99115.D	1	04/26/18 20:01	EM	04/25/18 14:00	OP69782	GDD2882
Run #2							

	Initial Volume	Final Volume
Run #1	36.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 DUPB		
Lab Sample ID:	FA53632-31	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52885.D	100	04/26/18 02:11	SP	n/a	n/a	VO1991
Run #2	1A11313.D	100	05/02/18 15:25	SP	n/a	n/a	V1A417

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

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2810	100	31	ug/l	
108-88-3	Toluene	7940	100	30	ug/l	
100-41-4	Ethylbenzene	970	100	36	ug/l	
1330-20-7	Xylene (total)	5020	300	72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	57.0	100	23	ug/l	J
91-20-3	Naphthalene	170	500	100	ug/l	J
107-06-2	1,2-Dichloroethane	ND	100	31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	100	24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	5000	1000	ug/l	
64-17-5	Ethyl Alcohol	ND	20000	8200	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	200	24	ug/l	
75-85-4	Tert-Amyl Alcohol	3770 [a]	2000	530	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	200	24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	2000	530	ug/l	
762-75-4	Tert-Butyl Formate	ND	2000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	99%	79-125%
2037-26-5	Toluene-D8	108%	103%	85-112%
460-00-4	4-Bromofluorobenzene	101%	104%	83-118%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	18686 DUPB		
Lab Sample ID:	FA53632-31	**Date Sampled:**	04/18/18
Matrix:	AQ - Ground Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD99118.D	1	04/26/18 20:46	EM	04/25/18 14:00	OP69782	GDD2882
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.019	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	116%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 FIELD BLANK		
Lab Sample ID:	FA53632-32	**Date Sampled:**	04/18/18
Matrix:	AQ - Field Blank Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0990973.D	1	04/30/18 10:51	MM	n/a	n/a	VJ5892
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol [a]	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol [b]	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	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	105%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

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

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

3.32

Client Sample ID:	18686 FIELD BLANK		
Lab Sample ID:	FA53632-32	**Date Sampled:**	04/18/18
Matrix:	AQ - Field Blank Water	**Date Received:**	04/21/18
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD99119.D	1	04/26/18 21:01	EM	04/25/18 14:00	OP69782	GDD2882
Run #2							

	Initial Volume	Final Volume
Run #1	36.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.019	0.0096	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		63-137%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	18686 TRIP BLANK		
Lab Sample ID:	FA53632-33	**Date Sampled:**	04/18/18
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/21/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0990974.D	1	04/30/18 11:16	MM	n/a	n/a	VJ5892
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol [a]	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol [b]	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

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

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

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Subcontract Lab Data

Report of Analysis

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Accutest
4405 Vineland Rd
Suite C-15
Orlando, FL 32811
Attention: Muna Mohammed

Project Name: Tisdale's Quick Stop; 1989 Thurgood Marshall BLVD, Kingston, SC

Project Number: FA53632X

Lot Number:**TD25019**

Date Completed:05/03/2018

05/07/2018 2:21 PM
Approved and released by:
Project Manager: Lucas Odom

The electronic signature above is the equivalent of a handwritten signature
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Case Narrative
Accutest
Lot Number: TD25019

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary
Accutest
Lot Number: TD25019

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	18686 WSW-1	Aqueous	04/19/2018 0934	04/25/2018
002	18686 WSW-3	Aqueous	04/19/2018 0819	04/25/2018
003	18686 WSW DUP	Aqueous	04/19/2018 0853	04/25/2018
004	18686 WSW FIELD BLANK	Aqueous	04/19/2018 0952	04/25/2018
005	18686 WSW TRIP BLANK	Aqueous	04/19/2018 0701	04/25/2018

(5 samples)

4

Detection Summary

Accutest

Lot Number: TD25019

Sample Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page

(0 detections)

Client: **Accutest**	Laboratory ID. **TD25019-001**
Description **18686 WSW-1**	Matrix: **Aqueous**
Date Sampled: **04/19/2018 0934**	
Date Received **04/25/2018**	

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	04/30/2018 1108	JJG		70836

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		108	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	524.2	524.2	1	05/02/2018 2130	BWS		71152

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.20	ug/L	2
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.20	ug/L	2
Ethylbenzene	100-41-4	524.2	ND		0.50	0.20	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.20	ug/L	2
Naphthalene	91-20-3	524.2	ND		0.50	0.20	ug/L	2
Toluene	108-88-3	524.2	ND		0.50	0.20	ug/L	2
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.20	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
Bromofluorobenzene		84	70-130
1,2-Dichlorobenzene-d4		83	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	05/02/2018 1553	DAL1	05/02/2018 1202	71076

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.020	0.0040	ug/L	1

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

Client: **Accutest**	Laboratory ID: **TD25019-001**
Description **18686 WSW-1**	Matrix: **Aqueous**
Date Sampled: **04/19/2018 0934**	
Date Received: **04/25/2018**	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		85	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL
H = Out of holding time	W = Reported on wet weight basis		

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Client: **Accutest**	Laboratory ID: **TD25019-002**
Description: **18686 WSW-3**	Matrix: **Aqueous**
Date Sampled: **04/19/2018 0819**	
Date Received: **04/25/2018**	

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	04/30/2018 1133	JJG		70836

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		106	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	524.2	524.2	1	05/02/2018 2155	BWS		71152

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.20	ug/L	2
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.20	ug/L	2
Ethylbenzene	100-41-4	524.2	ND		0.50	0.20	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.20	ug/L	2
Naphthalene	91-20-3	524.2	ND		0.50	0.20	ug/L	2
Toluene	108-88-3	524.2	ND		0.50	0.20	ug/L	2
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.20	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
Bromofluorobenzene		83	70-130
1,2-Dichlorobenzene-d4		85	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	05/02/2018 1606	DAL1	05/02/2018 1202	71076

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.020	0.0041	ug/L	1

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client. **Accutest**	Laboratory ID. **TD25019-002**
Description: **18686 WSW-3**	Matrix: **Aqueous**
Date Sampled **04/19/2018 0819**	
Date Received: **04/25/2018**	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		86	57-137

4

LOQ = Limit of Quantitation | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | DL = Detection Limit
ND = Not detected at or above the DL | N = Recovery is out of criteria | P = The RPD between two GC columns exceeds 40% | J = Estimated result < LOQ and ≥ DL
H = Out of holding time | W = Reported on wet weight basis

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Client: **Accutest**	Laboratory ID: **TD25019-003**
Description: **18686 WSW DUP**	Matrix: **Aqueous**
Date Sampled: **04/19/2018 0853**	
Date Received: **04/25/2018**	

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	04/30/2018 1157	JJG		70836

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1 0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8 0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8 0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0 42	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5 0	2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		108	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	05/01/2018 1849	ECB		70978

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524 2	ND		0.50	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0 50	0 20	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0 20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0 20	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0 20	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.20	ug/L	1
Xylenes (total)	1330-20-7	524 2	ND		0 50	0 20	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		77	70-130
1,2-Dichlorobenzene-d4		71	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504 1	504.1	1	05/02/2018 1618	DAL1	05/02/2018 1202	71076

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504 1	ND		0.020	0.0040	ug/L	1

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

Client: **Accutest**	Laboratory ID: **TD25019-003**
Description: **18686 WSW DUP**	Matrix: **Aqueous**
Date Sampled: **04/19/2018 0853**	
Date Received: **04/25/2018**	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		85	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL
H = Out of holding time	W = Reported on wet weight basis		

Client: Accutest
Description: 18686 WSW FIELD BLANK
Date Sampled: 04/19/2018 0952
Date Received 04/25/2018

Laboratory ID: TD25019-004
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	04/30/2018 1222	JJG		70836

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0 40	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8 0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0 42	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8 0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2 0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		107	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524 2	524.2	1	05/01/2018 1710	ECB		70978

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	524 2	ND		0 50	0.20	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0 50	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.20	ug/L	1
Naphthalene	91-20-3	524 2	ND		0 50	0.20	ug/L	1
Toluene	108-88-3	524 2	ND		0 50	0 20	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.20	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		84	70-130
1,2-Dichlorobenzene-d4		84	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	05/02/2018 1630	DAL1	05/02/2018 1202	71076

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.020	0 0040	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

Client: **Accutest**
Description **18686 WSW FIELD BLANK**
Date Sampled: **04/19/2018 0952**
Date Received: **04/25/2018**

Laboratory ID: **TD25019-004**
Matrix **Aqueous**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		85	57-137

4

LOQ = Limit of Quantitation | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | DL = Detection Limit
ND = Not detected at or above the DL | N = Recovery is out of criteria | P = The RPD between two GC columns exceeds 40% | J = Estimated result < LOQ and ≥ DL
H = Out of holding time | W = Reported on wet weight basis

Client: **Accutest**
Description: **18686 WSW TRIP BLANK**
Date Sampled: **04/19/2018 0701**
Date Received: **04/25/2018**

Laboratory ID: **TD25019-005**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	04/30/2018 1247	JJG		70836

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1 0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		106	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524 2	1	05/01/2018 1735	ECB		70978

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0 50	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	524 2	ND		0 50	0.20	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0 20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0 50	0 20	ug/L	1
Naphthalene	91-20-3	524 2	ND		0.50	0.20	ug/L	1
Toluene	108-88-3	524 2	ND		0.50	0.20	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0 50	0.20	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		84	70-130
1,2-Dichlorobenzene-d4		79	70-130

LOQ = Limit of Quantitation | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | DL = Detection Limit
ND = Not detected at or above the DL | N = Recovery is out of criteria | P = The RPD between two GC columns exceeds 40% | J = Estimated result < LOQ and ≥ DL
H = Out of holding time | W = Reported on wet weight basis

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ70836-001
Batch: 70836
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Diisopropyl ether (IPE)	ND		1	1 0	0.40	ug/L	04/30/2018 1018
Ethanol	ND		1	100	40	ug/L	04/30/2018 1018
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	04/30/2018 1018
Ethyl-tert-butyl ether (ETBE)	ND		1	1 0	0.40	ug/L	04/30/2018 1018
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	04/30/2018 1018
tert-Amyl methyl ether (TAME)	ND		1	10	0 42	ug/L	04/30/2018 1018
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	04/30/2018 1018
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	04/30/2018 1018

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		110	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ70836-002
Batch: 70836
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Diisopropyl ether (IPE)	50	53		1	105	70-130	04/30/2018 0929
Ethanol	5000	5500		1	110	70-130	04/30/2018 0929
3,3-Dimethyl-1-butanol	1000	1100		1	107	70-130	04/30/2018 0929
Ethyl-tert-butyl ether (ETBE)	50	50		1	100	70-130	04/30/2018 0929
tert-Amyl alcohol (TAA)	1000	1000		1	101	70-130	04/30/2018 0929
tert-Amyl methyl ether (TAME)	50	48		1	96	70-130	04/30/2018 0929
tert-butyl alcohol (TBA)	1000	1000		1	101	70-130	04/30/2018 0929
tert-Butyl formate (TBF)	250	190		1	77	70-130	04/30/2018 0929

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		105	70-130

4

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
* = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ70978-001
Batch: 70978
Analytical Method: 524.2

Matrix: Aqueous
Prep Method: 524 2

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Benzene	ND		1	0 50	0 20	ug/L	05/01/2018 1245
1,2-Dichloroethane	ND		1	0.50	0 20	ug/L	05/01/2018 1245
Ethylbenzene	ND		1	0 50	0 20	ug/L	05/01/2018 1245
Methyl tertiary butyl ether (MTBE)	ND		1	0 50	0.20	ug/L	05/01/2018 1245
Naphthalene	ND		1	0 50	0.20	ug/L	05/01/2018 1245
Toluene	ND		1	0.50	0.20	ug/L	05/01/2018 1245
Xylenes (total)	ND		1	0.50	0.20	ug/L	05/01/2018 1245

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		79	70-130
1,2-Dichlorobenzene-d4		81	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ70978-002
Batch: 70978
Analytical Method: 524 2

Matrix: Aqueous
Prep Method: 524.2

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	5.0	4.4		1	87	70-130	05/01/2018 1209
1,2-Dichloroethane	5.0	5.1		1	102	70-130	05/01/2018 1209
Ethylbenzene	5.0	4.0		1	80	70-130	05/01/2018 1209
Methyl tertiary butyl ether (MTBE)	5 0	4.7		1	94	70-130	05/01/2018 1209
Naphthalene	5.0	4 1		1	83	70-130	05/01/2018 1209
Toluene	5.0	4 0		1	79	70-130	05/01/2018 1209
Xylenes (total)	10	7.9		1	79	70-130	05/01/2018 1209

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		97	70-130
1,2-Dichlorobenzene-d4		108	70-130

4

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ71152-001
Batch: 71152
Analytical Method: 524.2

Matrix: Aqueous
Prep Method: 524.2

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Benzene	ND		1	0 50	0.20	ug/L	05/02/2018 2052
1,2-Dichloroethane	ND		1	0 50	0 20	ug/L	05/02/2018 2052
Ethylbenzene	ND		1	0.50	0 20	ug/L	05/02/2018 2052
Methyl tertiary butyl ether (MTBE)	ND		1	0.50	0.20	ug/L	05/02/2018 2052
Naphthalene	ND		1	0.50	0.20	ug/L	05/02/2018 2052
Toluene	ND		1	0.50	0.20	ug/L	05/02/2018 2052
Xylenes (total)	ND		1	0.50	0.20	ug/L	05/02/2018 2052

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		90	70-130
1,2-Dichlorobenzene-d4		83	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ71152-002
Batch: 71152
Analytical Method: 524 2

Matrix: Aqueous
Prep Method: 524 2

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	5.0	5.4		1	109	70-130	05/02/2018 2016
1,2-Dichloroethane	5.0	5.6		1	112	70-130	05/02/2018 2016
Ethylbenzene	5 0	5.7		1	113	70-130	05/02/2018 2016
Methyl tertiary butyl ether (MTBE)	5 0	5.5		1	110	70-130	05/02/2018 2016
Naphthalene	5 0	6.3		1	126	70-130	05/02/2018 2016
Toluene	5.0	5.6		1	112	70-130	05/02/2018 2016
Xylenes (total)	10	12		1	116	70-130	05/02/2018 2016

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		111	70-130
1,2-Dichlorobenzene-d4		98	70-130

4

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - MB

Sample ID: TQ71076-001
Batch: 71076
Analytical Method: 504 1

Matrix: Aqueous
Prep Method: 504.1
Prep Date: 05/02/2018 1202

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0 020	0 0040	ug/L	05/02/2018 1405

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		85	57-137

4

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - LCS

Sample ID: TQ71076-002
Batch: 71076
Analytical Method: 504.1

Matrix: Aqueous
Prep Method: 504 1
Prep Date: 05/02/2018 1202

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0 25	0.22		1	88	70-130	05/02/2018 1417

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		86	57-137

4

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

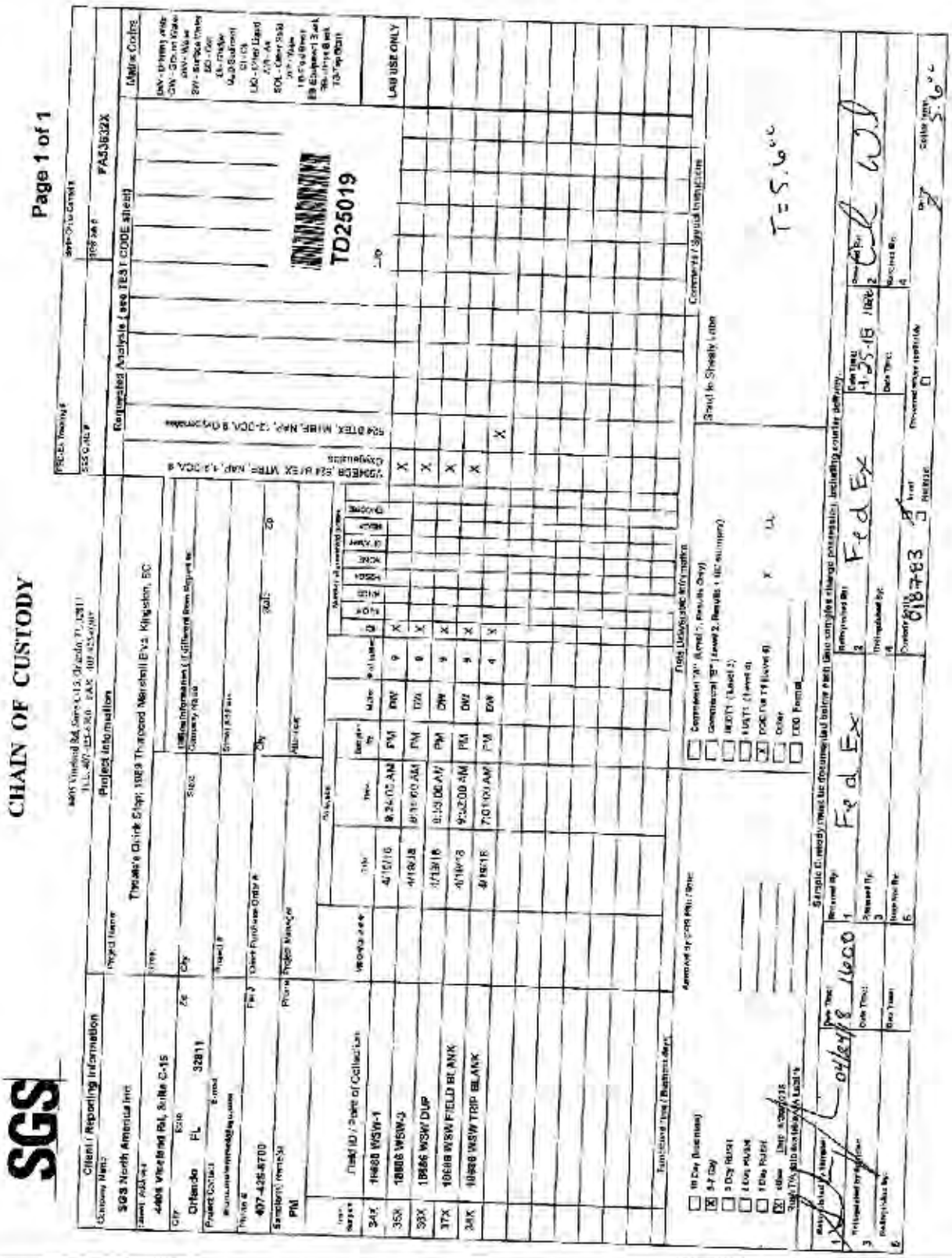
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab com

4

Chain of Custody
and
Miscellaneous Documents


CHAIN OF CUSTODY
Page 1 of 1
SGS
TD25019
FA53622X
SGS North America Inc.
4405 Vineland Rd, Suite C-15
Orlando FL 32811
Thicke's Clinic Shop; 1068 Thurgood Marshall Blvd, Kingston, SC
407-425-6700
Fed Ex
Ship to Shealy Labs
Requested Analysis (see TEST CODE sheet)
Matrix Codes
LAB USE ONLY
Field ID / Point of Collection
18488 WSW-1
18886 WSW-3
18886 WSW DUP
18888 WSW FIELD BLANK
18888 WSW TRIP BLANK
Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com
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SGS
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FA53622

Shealy Environmental Services, Inc.
Document Number: ME0018C-13

Page 1 of 1
Effective Date: 4/5/2018

Sample Receipt Checklist (SRC)

Client: SGS Cooler Inspected by/date: CBN / 4.25.18 Lot #: TD25019

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☑ FedEx ☐ Other:

☑ Yes	☐ No		1. Were custody seals present on the cooler? 018783
☑ Yes	☐ No	☐ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: Chlorine Strip ID:

Cooler ID / Original temperature upon receipt / Derived (Corrected) temperature upon receipt:

/ / °C / / °C 5.6 / 5.6 / °C / / °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☑ Yes	☐ No	☐ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
☑ Yes	☐ No		13. Was adequate sample volume available?
☐ Yes	☑ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☐ Yes	☑ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☑ No	☐ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.
Time of preservation _____.

Sample(s) _____ were received with bubbles >6 mm in diameter.

Sample(s) _____ were received with TRC > 0.5 mg/L (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____

SR barcode labels applied by: CBN Date: 4.25.18

Comments:

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Parameter Certification Exceptions

Job Number: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
3,3-Dimethyl-1-Butanol	624-95-3	SW846 8260B	AQ	Certified by SOP MS005
Di-Isopropyl Ether	108-20-3	SW846 8260B	AQ	Certified by SOP MS005
Tert-Amyl Alcohol	75-85-4	SW846 8260B	AQ	Certified by SOP MS005
Tert-Butyl Formate	762-75-4	SW846 8260B	AQ	Certified by SOP MS005

SCDHEC FA53632

SGS ACCUTEST

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

SGS ACCUTEST JOB #: PAGE 1 OF 4

SGS Accutest Quote # | SKIFF #

Client / Reporting Information

Company Name: Geological Resources, Inc
Address: 3502 Hayes Road
City: Monroe State: NC Zip: 28110
Project Contact: Scott Bell Email: wsbell
Phone #: 704-845-4010
Sampler(s) Name(s) (Printed): Sampler 1: Kerbs Strickland Sampler 2: Pamela Mellon

Project Information

Project Name: Tisdale's Quick Stop
Street: 1989 Thurgood Marshall Blvd
City: Kingstree State: SC
Project #: 1547
PWSID #: Lift station # 18686
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	Containers: VOAs	VOAs	1L	250ml	500ml	Vials	Encores	Methanol	Bisulfate	Analysis: BTEX/MTBE Naphthalene 1,2,DCA Scavenged by SGS	EDB by SGS	Lab Use Only
1	18686 MW 1	4/18/18	1430	PM	GW	5			5							X	X	
2	18686 MW 2	4/18/18	1408	PM	GW	5			5							X	X	
3	18686 MW 3	4/18/18	1241	PM	GW	5			5							X	X	
	~~18686 MW 4~~																	
4	18686 MW 5R	4/18/18	1523	PM	GW	5			5							X	X	
5	18686 MW 6	4/18/18	1509	PM	GW	5			5							X	X	
6	18686 MW 7	4/18/18	1448	PM	GW	5			5							X	X	
7	18686 MW 8	4/18/18	0857	PM	GW	5			5							X	X	
8	18686 MW 9	4/18/18	1056	PM	GW	5			5							X	X	
	~~18686 MW 10~~																	
9	18686 MW 11R	4/18/18	1035	PM	GW	5			5							X	X	
10	18686 MW 12R	4/18/18	1014	PM	GW	5			5							X	X	

Turnaround Time (Business days)

(0 Day (Business)) Approved By / Date:
7 Day
5 Day
3 Day RUSH
2 Day RUSH
1 Day RUSH
Other
Rush TAT Data Available VIA Email or Lablink

Data Deliverable Information

☐ COMMERCIAL "A" (RESULTS ONLY)
☒ COMMERCIAL "B" (RESULTS + QC)
☐ REDT's (REGULATORY LEVEL 3)
☐ FULLT1 (FULL TIER 1)
☒ EDD's

ACCUTEST
2828-G QUEEN CITY DR
CLT NC 28203

Comments / Remarks

SCDHEC UST MGMT DIVISION
UST Permit # 18686

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 SKau/SBell	4/20/18 1100	2 FedEx 801 3011 6771	3 FX	04.21.18	4 J. Powell 10:45
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only: Cooler Temperature (s) Celsius (corrected): 3.6 3.8

www.sgs.com/terms-and-conditions
Effective Date 04/24/2017

SGS CDC Florida (rev.on 5.2.17.Jds rev 042417.SI)

5.2 5

FA53632: Chain of Custody
Page 1 of 5

FA53632

SGS ACCUTEST

SGS Accutest Southeast
Chain of Custody

4405 Vineland Road, Suite C-12, Orlando, FL 32811
TEL: 407-425-6700 FAX: 407-425-0707
www.accutest.com

SGS ACCUTEST JOB #: FA53632 PAGE 2 OF 4

SGS Accutest Quote # | SKIFF #

Client / Reporting Information | **Project Information** | **Analytical Information** | **Matrix Codes**

Company Name: Geological Resources, Inc
Address: 8502 Hayes Road
City: Monroe State: NC Zip: 28110
Project Contact: Josh Bell Email: [illegible]
Phone #: 704-845-4010

Project Name: Tisdale's Quickstop
Street: 1989 Thurgood Marshall Blvd
City: Kingstree State: SC
Project #: 15 93
Fax #: GC-Accident 18686
Client Purchase Order #

Sampler(s) Name(s) (Printed)
Sampler 1: Kaelin Stanley Sampler 2: Pamela Billings

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	Time	Sampled By	Matrix	Total # of Bottles	Container Information	Analytical Information: EDB by 8011 (1,2-Dibromoethane (EDB) by 8011)	LAB USE ONLY
11	18686 MW 13	4/19/18	1125	PM	GW	5	5	X X	
12	18686 MW 14	4/19/18	1543	PM	GW	5	5	X X	
	~~18686 MW 15~~								
13	18686 MW 16R	4/19/18	0849	PM	GW	5	5	X X	
14	18686 MW 17R	4/19/18	0910	PM	GW	5	5	X X	
15	18686 MW 18R	4/19/18	0827	PM	GW	5	5	X X	
	~~18686 MW 19~~								
16	18686 MW 20	4/19/18	0952	PM	GW	5	5	X X	
	~~18686 MW 21~~								
17	18686 MW 22	4/18/18	1918	PM	GW	5	5	X X	
18	18686 MW 23	4/18/18	1814	PM	GW	5	5	X X	
19	18686 MW 24	4/18/18	1828	PM	GW	5	5	X X	

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 TAT Data Available VIA Email or Labfax

Data Deliverable Information
☐ COMMERCIAL "A" (RESULTS ONLY)
☒ COMMERCIAL "B" (RESULTS PLUS QC)
☐ REDT1 (EPA LEVEL 3)
☐ FULLT1 (EPA LEVEL 4)
☒ EDD's

ACCUTEST 2828-C QUEEN CT FAY CLT NC 28303

Comments / Remarks
SCDHEC UST PERMIT DIVISION
UST Permit # 18686

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 [signature]	4/20/18	2 FedEx 8013011677 71	3 FX	04-21-18	4 J. Cooper 10:45
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

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

http://www.sgs.com/en/terms-and-conditions
Effective Date 04/24/2017

SGS COC Fillable new on 5.2.17(date rev 042417 3)

5.2 5

FA53632: Chain of Custody
Page 2 of 5

FA53632

SGS ACCUTEST

SGS Accutest Southeast
Chain of Custody
4405 Vineland Road, Suite C-15, Orlando, FL 32811
PHONE: 407-425-6700 FAX: 407-425-0707
www.accutest.com

SGS ACCUTEST JOB #: FA53632 PAGE 3 OF 4

SGS Accutest Quote # | SKIFF #

Client / Reporting Information

Company Name: Geological Resources, Inc
Address: 3502 Hayes Road
City: Monroe State: NC Zip: 28110
Project Contact: Scott Bell Email: sbell@
Phone #: 704-845-4010
Sampler(s) Name(s) (Printed): Sampler 1: Karla Sikkel Sampler 2: Pamela Milford

Project Information

Project Name: Tisdales Quick Trip
Street: 1489 Thurgood Marshall Blvd
City: Kings Mtn State: SC
Project #: 1543
Fax #: UST Permit # 18686
Client Purchase Order #:

Analytical Information

EDD by 8011

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		DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES											LAB USE ONLY
20	18686	MW 25	4/16/18	1842	PM	GW	5			5							X	X
21	18686	MW 26	4/16/18	1857	PM	GW	5			5							X	X
22	18686	MW 27	4/17/18	1936	PM	GW	5			5							X	X
23	18686	MW 28	4/18/18	1950	PM	GW	5			5							X	X
	18686	MW 29																
	18686	MW 30																
24	18686	MW 31	4/16/18	1751	PM	GW	5		5	5							X	X
25	18686	MW 1A	4/16/18	0937	PM	GW	5		5	5							X	X
26	18686	MW 2A	4/16/18	0953	PM	GW	5		5	5							X	X
	18686	MW 3A																
27	18686	MW 4A	4/16/18	0915	PM	GW	5		5	5							X	X
28	18686	TW 1	4/16/18	1325	PM	GW	5		5	5							X	X

Turnaround Time (Business days)

10 Day (Business)
7 Day
5 Day
3 Day RUSH
2 Day RUSH
1 Day RUSH
Other

Approved By: / Date:

Rush TAT Data Available VIA Email or LabLink

Data Deliverable Information

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

ACCUTEST 2826-C QUEEN CT DR CLT NC 28273

Comments / Remarks

SCDHEC UST MGMT DIVISION

UST Permit # 18686

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	4/20/18	2 FedEx 801301167771	3 FX	04-21-18	4 J. Cooper 10:45
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

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

http://www.sgs.com/terms_and_conditions

SGS COC Florida new art 5.2.17.xls rev 042417 SI

Effective Date 04/24/2017

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FA53632: Chain of Custody
Page 3 of 5

FA53632

SGS ACCUTEST

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

SGS ACCUTEST JOB #: PAGE 4 OF 4

SGS Accutest Quote #: SKIFF #:

Client / Reporting Information

Company Name: Geological Resources Inc
Address: 3502 Hayes Road
City: Monroe State: NC Zip: 28110
Project Contact: Scott Bell Email: [illegible]
Phone #: 704-845-4010
Sampler(s) Name(s) (Printed): Sampler 1: Nathan Sikkink Sampler 2: Pamela Mefford

Project Information

Project Name: Flydell's Quick Stop
Street: 1989 Thurgood Marshall Blvd
City: Kingstree State: SC
Project #: 1542
Bill to: UST Permit # 18686
Client Purchase Order #:

Analytical Information

SGS Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	HCl	MeOH	BTEX + MTBE + Naphthalene (8260)	EDB by 8011	BTEX + MTBE + Naphthalene (8260) by 524.2	Oxygenates by 8260	EDB by 504.1
29	18686 TW2	4/9/18	0901	PM	GW	5	5		X	X			
30	18686 DUP A	4/9/18	1237	PM	GW	5	5		X	X			
31	18686 DUP B	4/9/18	1425	PM	GW	5	5		X	X			
32	18686 Field Blank	4/9/18	0944	KS	GW				X	X			
33	18686 Trip Blank	4/9/18	0701	KS	WW	2	2		X				
34	18686 MW-1	4/9/18	0934	KS	DW						X	X	X
35	18686 MW 3	4/9/18	2019	KS	DW	9	9				X	X	X
36	18686 MW DUP	4/9/18	0853	KS	DW	9	9				X	X	X
37	18686 MW Field Blank	4/9/18	0952	KS	DW	9	9				X	X	X
38	18686 MW Trip Blank	4/9/18	0701	KS	WW	4	4				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 TAT Date Available VIA Email or LabLink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS + QC SUMMARY)
- [ ] REDT (RCRA LEVEL 3)
- [ ] FULLT (EPA LEVEL 4)
- [x] EDDs

ACCUTEST
2822-C QUEEN CITY DR
CLT NC 28203

Comments / Remarks

SCDHEC UST MGMT DIVISION
UST Permit # 18686

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	Nathan Sikkink	4/10/18 1100	2 FedEx Bol 301167771	3 FX	04-11-18	4 J. Cooke 10:45
5	Relinquished by/Affiliation	Date Time	Received By/Affiliation	Relinquished By/Affiliation	Date Time	Received By/Affiliation
			6	7		8

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

www.sgs.com/terms-and-conditions

SGS COC Florida rev #1.5.9.17 sg rev 042417 SI

Effective Date 04/24/2017

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SGS Sample Receipt Summary

Job Number: FA53632 **Client:** GRI **Project:** 1542

Date / Time Received: 4/21/2018 10:45:00 AM **Delivery Method:** FX **Airbill #'s:** 8013 0116 7771

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 2

Cooler Temps (Raw Measured) °C: Cooler 1: (3.2); Cooler 2: (3.4);

Cooler Temps (Corrected) °C: Cooler 1: (3.6); Cooler 2: (3.8);

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: 2 VOA vials received instead of 3 (EDB) for samples 1-32

SM001
Rev. Date 05/24/17

Technician: JORGEC Date: 4/21/2018 10:45:00 A Reviewer: TL Date: 4/23/2018

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FA53632: Chain of Custody
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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: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5889-MB	J0990888.D	1	04/25/18	MM	n/a	n/a	VJ5889

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

FA53632-7, FA53632-8, FA53632-9, FA53632-10, FA53632-11, FA53632-12, FA53632-15

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	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	105%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

Method Blank Summary

Job Number: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop: 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO1988-MB	O52839.D	1	04/25/18	SP	n/a	n/a	VO1988

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

FA53632-1, FA53632-2, FA53632-3, FA53632-4, FA53632-5, FA53632-6, FA53632-13

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	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	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%
2037-26-5	Toluene-D8	108%	85-112%
460-00-4	4-Bromofluorobenzene	109%	83-118%

Method Blank Summary

Job Number: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop: 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO1991-MB	O52869.D	1	04/25/18	SP	n/a	n/a	VO1991

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

FA53632-16, FA53632-17, FA53632-18, FA53632-19, FA53632-20, FA53632-21, FA53632-22, FA53632-25, FA53632-26, FA53632-27, FA53632-28, FA53632-29, FA53632-30, FA53632-31

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	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	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	79-125%
2037-26-5	Toluene-D8	108%	85-112%
460-00-4	4-Bromofluorobenzene	111%	83-118%

Method Blank Summary

Job Number: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO1992-MB	O52897.D	1	04/26/18	SP	n/a	n/a	VO1992

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

FA53632-13, FA53632-14

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	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	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	79-125%
2037-26-5	Toluene-D8	108%	85-112%
460-00-4	4-Bromofluorobenzene	109%	83-118%

Method Blank Summary

Job Number: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5892-MB	J0990972.D	1	04/30/18	MM	n/a	n/a	VJ5892

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

FA53632-17, FA53632-23, FA53632-24, FA53632-25, FA53632-26, FA53632-27, FA53632-32, FA53632-33

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	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	98%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

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Method Blank Summary

Job Number: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM4427-MB	M0102752.D	1	05/01/18	AB	n/a	n/a	VM4427

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

FA53632-26

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	103%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

Method Blank Summary

Job Number: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A417-MB	1A11306.D	1	05/02/18	SP	n/a	n/a	V1A417

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

FA53632-16, FA53632-18, FA53632-30, FA53632-31

CAS No.	Compound	Result	RL	MDL	Units	Q
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	109%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	103%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

Blank Spike Summary

Job Number: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5889-BS	J0990887.D	1	04/25/18	MM	n/a	n/a	VJ5889

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

FA53632-7, FA53632-8, FA53632-9, FA53632-10, FA53632-11, FA53632-12, FA53632-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	26.3	105	81-122
107-06-2	1,2-Dichloroethane	25	24.0	96	75-125
108-20-3	Di-Isopropyl Ether	25	24.8	99	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1140	91	55-126
64-17-5	Ethyl Alcohol	500	566	113	46-145
100-41-4	Ethylbenzene	25	27.1	108	81-121
637-92-3	Ethyl Tert Butyl Ether	25	24.4	98	71-120
1634-04-4	Methyl Tert Butyl Ether	25	23.8	95	72-117
91-20-3	Naphthalene	25	25.6	102	63-132
75-85-4	Tert-Amyl Alcohol	250	300	120	65-124
994-05-8	Tert-Amyl Methyl Ether	25	23.2	93	73-122
75-65-0	Tert-Butyl Alcohol	250	240	96	63-129
762-75-4	Tert-Butyl Formate	250	227	91	46-130
108-88-3	Toluene	25	26.7	107	80-120
1330-20-7	Xylene (total)	75	82.4	110	80-126

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

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO1988-BS	O52838.D	1	04/25/18	SP	n/a	n/a	VO1988

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

FA53632-1, FA53632-2, FA53632-3, FA53632-4, FA53632-5, FA53632-6, FA53632-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	24.2	97	81-122
107-06-2	1,2-Dichloroethane	25	24.4	98	75-125
108-20-3	Di-Isopropyl Ether	25	23.3	93	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1190	95	55-126
64-17-5	Ethyl Alcohol	500	553	111	46-145
100-41-4	Ethylbenzene	25	26.0	104	81-121
637-92-3	Ethyl Tert Butyl Ether	25	22.9	92	71-120
1634-04-4	Methyl Tert Butyl Ether	25	22.7	91	72-117
91-20-3	Naphthalene	25	24.0	96	63-132
75-85-4	Tert-Amyl Alcohol	250	369	148*	65-124
994-05-8	Tert-Amyl Methyl Ether	25	21.6	86	73-122
75-65-0	Tert-Butyl Alcohol	250	279	112	63-129
762-75-4	Tert-Butyl Formate	250	183	73	46-130
108-88-3	Toluene	25	26.3	105	80-120
1330-20-7	Xylene (total)	75	74.6	99	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	79-125%
2037-26-5	Toluene-D8	103%	85-112%
460-00-4	4-Bromofluorobenzene	107%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO1991-BS	O52867.D	1	04/25/18	SP	n/a	n/a	VO1991

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

FA53632-16, FA53632-17, FA53632-18, FA53632-19, FA53632-20, FA53632-21, FA53632-22, FA53632-25, FA53632-26, FA53632-27, FA53632-28, FA53632-29, FA53632-30, FA53632-31

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	23.9	96	81-122
107-06-2	1,2-Dichloroethane	25	24.1	96	75-125
108-20-3	Di-Isopropyl Ether	25	23.0	92	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1170	94	55-126
64-17-5	Ethyl Alcohol	500	566	113	46-145
100-41-4	Ethylbenzene	25	25.7	103	81-121
637-92-3	Ethyl Tert Butyl Ether	25	22.7	91	71-120
1634-04-4	Methyl Tert Butyl Ether	25	22.9	92	72-117
91-20-3	Naphthalene	25	23.4	94	63-132
75-85-4	Tert-Amyl Alcohol	250	375	150*	65-124
994-05-8	Tert-Amyl Methyl Ether	25	21.6	86	73-122
75-65-0	Tert-Butyl Alcohol	250	282	113	63-129
762-75-4	Tert-Butyl Formate	250	168	67	46-130
108-88-3	Toluene	25	25.6	102	80-120
1330-20-7	Xylene (total)	75	74.0	99	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	108%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO1992-BS	O52896.D	1	04/26/18	SP	n/a	n/a	VO1992

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

FA53632-13, FA53632-14

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	24.0	96	81-122
107-06-2	1,2-Dichloroethane	25	24.8	99	75-125
108-20-3	Di-Isopropyl Ether	25	23.0	92	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1050	84	55-126
64-17-5	Ethyl Alcohol	500	583	117	46-145
100-41-4	Ethylbenzene	25	25.7	103	81-121
637-92-3	Ethyl Tert Butyl Ether	25	22.5	90	71-120
1634-04-4	Methyl Tert Butyl Ether	25	22.6	90	72-117
91-20-3	Naphthalene	25	24.1	96	63-132
75-85-4	Tert-Amyl Alcohol	250	423	169*	65-124
994-05-8	Tert-Amyl Methyl Ether	25	21.6	86	73-122
75-65-0	Tert-Butyl Alcohol	250	273	109	63-129
762-75-4	Tert-Butyl Formate	250	164	66	46-130
108-88-3	Toluene	25	26.0	104	80-120
1330-20-7	Xylene (total)	75	73.2	98	80-126

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

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5892-BS	J0990971.D	1	04/30/18	MM	n/a	n/a	VJ5892

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

FA53632-17, FA53632-23, FA53632-24, FA53632-25, FA53632-26, FA53632-27, FA53632-32, FA53632-33

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	24.9	100	81-122
107-06-2	1,2-Dichloroethane	25	22.9	92	75-125
108-20-3	Di-Isopropyl Ether	25	23.7	95	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1090	87	55-126
64-17-5	Ethyl Alcohol	500	659	132	46-145
100-41-4	Ethylbenzene	25	25.8	103	81-121
637-92-3	Ethyl Tert Butyl Ether	25	23.1	92	71-120
1634-04-4	Methyl Tert Butyl Ether	25	22.6	90	72-117
91-20-3	Naphthalene	25	24.3	97	63-132
75-85-4	Tert-Amyl Alcohol	250	319	128*	65-124
994-05-8	Tert-Amyl Methyl Ether	25	22.2	89	73-122
75-65-0	Tert-Butyl Alcohol	250	251	100	63-129
762-75-4	Tert-Butyl Formate	250	207	83	46-130
108-88-3	Toluene	25	25.5	102	80-120
1330-20-7	Xylene (total)	75	78.9	105	80-126

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

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM4427-BS	M0102751.D	1	05/01/18	AB	n/a	n/a	VM4427

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

FA53632-26

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-88-3	Toluene	25	22.6	90	80-120

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

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A417-BS	1A11307.D	1	05/02/18	SP	n/a	n/a	V1A417

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

FA53632-16, FA53632-18, FA53632-30, FA53632-31

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
75-85-4	Tert-Amyl Alcohol	250	189	76	65-124

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	79-125%
2037-26-5	Toluene-D8	96%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA53632-14MS	O52862.D	50	04/25/18	SP	n/a	n/a	VO1988
FA53632-14MSD	O52863.D	50	04/25/18	SP	n/a	n/a	VO1988
FA53632-14 [a]	O52855.D	50	04/25/18	SP	n/a	n/a	VO1988

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

FA53632-1, FA53632-2, FA53632-3, FA53632-4, FA53632-5, FA53632-6, FA53632-13

CAS No.	Compound	FA53632-14 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	1480		1250	2970	119	1250	2960	118	0	81-122/14
107-06-2	1,2-Dichloroethane	ND		1250	1160	93	1250	1170	94	1	75-125/14
108-20-3	Di-Isopropyl Ether	ND		1250	1180	94	1250	1180	94	0	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND			54800			54200		1	55-126/17
64-17-5	Ethyl Alcohol	ND		25000	28400	114	25000	25500	102	11	46-145/30
100-41-4	Ethylbenzene	134		1250	1450	105	1250	1460	106	1	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND		1250	1160	93	1250	1160	93	0	71-120/14
1634-04-4	Methyl Tert Butyl Ether	397		1250	1610	97	1250	1640	99	2	72-117/14
91-20-3	Naphthalene	66.5	J	1250	1280	97	1250	1320	100	3	63-132/25
75-85-4	Tert-Amyl Alcohol	4100		12500	17400	106	12500	17800	110	2	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		1250	1110	89	1250	1130	90	2	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		12500	14100	113	12500	13900	111	1	63-129/27
762-75-4	Tert-Butyl Formate	ND			8920			8880		0	46-130/33
108-88-3	Toluene	175		1250	1480	104	1250	1480	104	0	80-120/14
1330-20-7	Xylene (total)	419		3750	4300	103	3750	4320	104	0	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA53632-14	Limits
1868-53-7	Dibromofluoromethane	99%	98%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	102%	96%	79-125%
2037-26-5	Toluene-D8	102%	102%	107%	85-112%
460-00-4	4-Bromofluorobenzene	105%	106%	106%	83-118%

(a) Confirmation run.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA53566-1MS	J0990909.D	5	04/25/18	MM	n/a	n/a	VJ5889
FA53566-1MSD	J0990910.D	5	04/25/18	MM	n/a	n/a	VJ5889
FA53566-1	J0990889.D	1	04/25/18	MM	n/a	n/a	VJ5889

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

FA53632-7, FA53632-8, FA53632-9, FA53632-10, FA53632-11, FA53632-12, FA53632-15

CAS No.	Compound	FA53566-1 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	ND		125	131	105	125	128	102	2	81-122/14
107-06-2	1,2-Dichloroethane	ND		125	122	98	125	120	96	2	75-125/14
108-20-3	Di-Isopropyl Ether	ND		125	120	96	125	121	97	1	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		6250	5940	95	6250	6040	97	2	55-126/17
64-17-5	Ethyl Alcohol	ND		2500	2030	81	2500	2670	107	27	46-145/30
100-41-4	Ethylbenzene	ND		125	133	106	125	133	106	0	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND		125	118	94	125	118	94	0	71-120/14
1634-04-4	Methyl Tert Butyl Ether	ND		125	110	88	125	113	90	3	72-117/14
91-20-3	Naphthalene	ND		125	118	94	125	121	97	3	63-132/25
75-85-4	Tert-Amyl Alcohol	ND		1250	1170	94	1250	1190	95	2	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		125	112	90	125	112	90	0	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		1250	1440	115	1250	1510	121	5	63-129/27
762-75-4	Tert-Butyl Formate	ND		1250	641	51	1250	614	49	4	46-130/33
108-88-3	Toluene	ND		125	131	105	125	131	105	0	80-120/14
1330-20-7	Xylene (total)	ND		375	407	109	375	405	108	0	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA53566-1	Limits
1868-53-7	Dibromofluoromethane	101%	100%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	100%	105%	79-125%
2037-26-5	Toluene-D8	100%	101%	97%	85-112%
460-00-4	4-Bromofluorobenzene	100%	101%	99%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA53632-31MS	O52890.D	100	04/26/18	SP	n/a	n/a	VO1991
FA53632-31MSD	O52891.D	100	04/26/18	SP	n/a	n/a	VO1991
FA53632-31	O52885.D	100	04/26/18	SP	n/a	n/a	VO1991

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

FA53632-16, FA53632-17, FA53632-18, FA53632-19, FA53632-20, FA53632-21, FA53632-22, FA53632-25, FA53632-26, FA53632-27, FA53632-28, FA53632-29, FA53632-30, FA53632-31

CAS No.	Compound	FA53632-31 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	2810		2500	5290	99	2500	5280	99	0	81-122/14
107-06-2	1,2-Dichloroethane	ND		2500	2360	94	2500	2360	94	0	75-125/14
108-20-3	Di-Isopropyl Ether	ND		2500	2250	90	2500	2320	93	3	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		125000	127000	102	125000	118000	94	7	55-126/17
64-17-5	Ethyl Alcohol	ND		50000	55700	111	50000	49700	99	11	46-145/30
100-41-4	Ethylbenzene	970		2500	3610	106	2500	3620	106	0	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND		2500	2250	90	2500	2310	92	3	71-120/14
1634-04-4	Methyl Tert Butyl Ether	57.0	J	2500	2300	90	2500	2420	95	5	72-117/14
91-20-3	Naphthalene	170	J	2500	2630	98	2500	2620	98	0	63-132/25
75-85-4	Tert-Amyl Alcohol	6830		25000	35700	115	25000	34100	109	5	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		2500	2180	87	2500	2220	89	2	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		25000	29000	116	25000	29300	117	1	63-129/27
762-75-4	Tert-Butyl Formate	ND		25000	16900	68	25000	17200	69	2	46-130/33
108-88-3	Toluene	7940		2500	10000	82	2500	9930	80	1	80-120/14
1330-20-7	Xylene (total)	5020		7500	12600	101	7500	12600	101	0	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA53632-31	Limits
1868-53-7	Dibromofluoromethane	99%	98%	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	99%	96%	79-125%
2037-26-5	Toluene-D8	100%	102%	108%	85-112%
460-00-4	4-Bromofluorobenzene	100%	105%	101%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA53566-11MS	O52914.D	10	04/26/18	SP	n/a	n/a	VO1992
FA53566-11MSD	O52915.D	10	04/26/18	SP	n/a	n/a	VO1992
FA53566-11 [a]	O52908.D	10	04/26/18	SP	n/a	n/a	VO1992

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

FA53632-13, FA53632-14

CAS No.	Compound	FA53566-11 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		250	246	98	250	251	100	2	81-122/14
107-06-2	1,2-Dichloroethane	ND		250	240	96	250	242	97	1	75-125/14
108-20-3	Di-Isopropyl Ether	ND		250	227	91	250	231	92	2	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		12500	14200	114	12500	13400	107	6	55-126/17
64-17-5	Ethyl Alcohol	ND		5000	3700	74	5000	4540	91	20	46-145/30
100-41-4	Ethylbenzene	ND		250	255	102	250	261	104	2	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND		250	223	89	250	229	92	3	71-120/14
1634-04-4	Methyl Tert Butyl Ether	ND		250	225	90	250	228	91	1	72-117/14
91-20-3	Naphthalene	ND		250	237	95	250	242	97	2	63-132/25
75-85-4	Tert-Amyl Alcohol	ND		2500	2740	110	2500	2530	101	8	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		250	218	87	250	222	89	2	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		2500	2910	116	2500	2780	111	5	63-129/27
762-75-4	Tert-Butyl Formate	ND		2500	1740	70	2500	1690	68	3	46-130/33
108-88-3	Toluene	ND		250	252	101	250	257	103	2	80-120/14
1330-20-7	Xylene (total)	ND		750	723	96	750	738	98	2	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA53566-11	Limits
1868-53-7	Dibromofluoromethane	102%	99%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	103%	97%	79-125%
2037-26-5	Toluene-D8	100%	100%	107%	85-112%
460-00-4	4-Bromofluorobenzene	101%	104%	102%	83-118%

(a) No sample available for reanalysis.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA53692-4MS	J0990994.D	20	04/30/18	MM	n/a	n/a	VJ5892
FA53692-4MSD	J0990995.D	20	04/30/18	MM	n/a	n/a	VJ5892
FA53692-4	J0990990.D	20	04/30/18	MM	n/a	n/a	VJ5892

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

FA53632-17, FA53632-23, FA53632-24, FA53632-25, FA53632-26, FA53632-27, FA53632-32, FA53632-33

CAS No.	Compound	FA53692-4 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	1320		500	1700	76* [a]	500	1750	86	3	81-122/14
107-06-2	1,2-Dichloroethane	ND		500	504	101	500	516	103	2	75-125/14
108-20-3	Di-Isopropyl Ether	9.7	J	500	628	124*	500	636	125*	1	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		25000	22900	92	25000	23400	94	2	55-126/17
64-17-5	Ethyl Alcohol	ND		10000	9190	92	10000	11800	118	25	46-145/30
100-41-4	Ethylbenzene	1450		500	1870	84	500	1860	82	1	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND		500	618	124*	500	632	126*	2	71-120/14
1634-04-4	Methyl Tert Butyl Ether	450		500	999	110	500	1040	118*	4	72-117/14
91-20-3	Naphthalene	698		500	1220	104	500	1220	104	0	63-132/25
75-85-4	Tert-Amyl Alcohol	183	J	5000	6370	124	5000	6260	122	2	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		500	585	117	500	600	120	3	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		5000	6780	136*	5000	6720	134*	1	63-129/27
762-75-4	Tert-Butyl Formate	ND		5000	3410	68	5000	3510	70	3	46-130/33
108-88-3	Toluene	394		500	941	109	500	928	107	1	80-120/14
1330-20-7	Xylene (total)	2010		1500	3470	97	1500	3450	96	1	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA53692-4	Limits
1868-53-7	Dibromofluoromethane	100%	100%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	100%	105%	79-125%
2037-26-5	Toluene-D8	102%	101%	98%	85-112%
460-00-4	4-Bromofluorobenzene	101%	100%	100%	83-118%

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop: 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA53707-3MS	M0102771.D	50	05/01/18	AB	n/a	n/a	VM4427
FA53707-3MSD	M0102772.D	50	05/01/18	AB	n/a	n/a	VM4427
FA53707-3	M0102756.D	50	05/01/18	AB	n/a	n/a	VM4427

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

FA53632-26

CAS No.	Compound	FA53707-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-88-3	Toluene	4140		1250	4830	55* a	1250	4780	51* a	1	80-120/14

CAS No.	Surrogate Recoveries	MS	MSD	FA53707-3	Limits
1868-53-7	Dibromofluoromethane	104%	102%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	101%	101%	79-125%
2037-26-5	Toluene-D8	100%	100%	102%	85-112%
460-00-4	4-Bromofluorobenzene	99%	97%	98%	83-118%

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA53628-8MS	1A11330.D	10	05/02/18	SP	n/a	n/a	V1A417
FA53628-8MSD	1A11331.D	10	05/02/18	SP	n/a	n/a	V1A417
FA53628-8	1A11326.D	10	05/02/18	SP	n/a	n/a	V1A417

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

FA53632-16, FA53632-18, FA53632-30, FA53632-31

CAS No.	Compound	FA53628-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
75-85-4	Tert-Amyl Alcohol	ND		2500	1730	69	2500	1720	69	1	65-124/23

CAS No.	Surrogate Recoveries	MS	MSD	FA53628-8	Limits
1868-53-7	Dibromofluoromethane	100%	101%	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	96%	98%	79-125%
2037-26-5	Toluene-D8	95%	96%	101%	85-112%
460-00-4	4-Bromofluorobenzene	100%	101%	106%	83-118%

* = 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: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69758-MB	DD98988.D	1	04/25/18	NM	04/24/18	OP69758	GDD2880

The QC reported here applies to the following samples: **Method:** SW846 8011

FA53632-1, FA53632-2, FA53632-3, FA53632-4, FA53632-5, FA53632-6, FA53632-7, FA53632-8, FA53632-9, FA53632-10, FA53632-11, FA53632-12, FA53632-13, FA53632-14, FA53632-15, FA53632-16, FA53632-17, FA53632-18, FA53632-19, FA53632-20

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	82%	63-137%

Method Blank Summary

Job Number: FA53632
Account: GRINCC GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69782-MB	DD99098.D	1	04/26/18	EM	04/25/18	OP69782	GDD2882

The QC reported here applies to the following samples: **Method:** SW846 8011

FA53632-21, FA53632-22, FA53632-23, FA53632-24, FA53632-25, FA53632-26, FA53632-27, FA53632-28, FA53632-29, FA53632-30, FA53632-31, FA53632-32

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	92%	63-137%