# 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 |
|---|---|---|---|---|---|---|---|
| OP69758-BS | DD98986.D | 1 | 04/24/18 | 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 | 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 | 81% | 63-137% |

* = 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 |
|---|---|---|---|---|---|---|---|
| OP69758-BS2 | DD98987.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 | 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 | 78% | 63-137% |

* = 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 |
|---|---|---|---|---|---|---|---|
| OP69782-BS | DD99096.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 | 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 | 96% | 63-137% |

* = 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 |
|---|---|---|---|---|---|---|---|
| OP69782-BS2 | DD99097.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 | 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 | 95% | 63-137% |

* = Outside of Control Limits.

# Matrix 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 |
|---|---|---|---|---|---|---|---|
| OP69758-MS | DD98990.D | 1 | 04/25/18 | NM | 04/24/18 | OP69758 | GDD2880 |
| FA53632-1 | DD98989.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 | FA53632-1 ug/l | Q | Spike ug/l | MS ug/l | MS % | Limits |
|---|---|---|---|---|---|---|---|
| 106-93-4 | 1,2-Dibromoethane | ND | | 0.234 | 0.23 | 98 | 72-134 |

| CAS No. | Surrogate Recoveries | MS | FA53632-1 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 95% | 104% | 63-137% |

7.3.1

7

* = 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 |
|---|---|---|---|---|---|---|---|
| OP69782-MS | DD99101.D | 1 | 04/26/18 | EM | 04/25/18 | OP69782 | GDD2882 |
| OP69782-MSD | DD99102.D | 1 | 04/26/18 | EM | 04/25/18 | OP69782 | GDD2882 |
| FA53635-5 | DD99100.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 | FA53635-5 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 106-93-4 | 1,2-Dibromoethane | 0.019 | U | 0.239 | 0.28 | 117 | 0.24 | 0.27 | 112 | 4 | 72-134/28 |

| CAS No. | Surrogate Recoveries | MS | MSD | FA53635-5 | Limits |
|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 116% | 115% | 111% | 63-137% |

* = Outside of Control Limits.

# 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 |
|---|---|---|---|---|---|---|---|
| OP69758-DUP | DD99081.D | 1 | 04/26/18 | EM | 04/24/18 | OP69758 | GDD2882 |
| FA53632-2 [a] | DD99080.D | 1 | 04/26/18 | EM | 04/24/18 | OP69758 | GDD2882 |

**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 | FA53632-2 ug/l | Q | DUP ug/l | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 106-93-4 | 1,2-Dibromoethane | 0.38 | | 0.34 | | 11 | 28 |

| CAS No. | Surrogate Recoveries | DUP | FA53632-2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 70% | 81% | 63-137% |

(a) All hits confirmed by dual column analysis.

* = Outside of Control Limits.

# APPENDIX D

## Field Data Information Sheets

dhec

# Underground Storage Tank Management Division
## Field Data Information Sheet – Monitoring Well Gauging

### Site Information

| | | |
|---|---|---|
| Date: 4/18/19 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop |
| County: Williamsburg | Project Manager: Cody Heinze | Field Personnel: Karlan Schmidt Pamela Mefford |

### 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? |
|---|---|---|---|---|---|---|---|---|---|---|
| MW1 | 20.17 | 10-20 | — | 13.60 | — | Y | N | Y | 0/2 | N |
| MW2 | 25.19 | 10-25 | — | 13.68 | — | Y | N | Y | 0/2 | N |
| MW3 | 25.07 | 10-25 | — | 13.61 | — | Y | N | Y | 0/2 | N |
| MW4 | 13.62 | 10-25 | — | 13.48 | — | Y | N | Y no cap | 0/2 | N |
| MW5R | 24.86 | 10-25 | — | 13.05 | — | Y | N | Y | 2/2 | N |
| MW6 | 20.76 | 11.5-21.5 | — | 13.23 | — | Y | N | Y | 0/3 | Y |
| MW7 | 21.31 | 12-22 | — | 12.99 | — | Y | N | Y | 0/3 | N |
| MW8 | 21.44 | 12-22 | — | 13.39 | — | Y | NO TAG | NA | 0/3 | N |
| MW9 | 21.41 | 12-22 | — | 14.41 | | Y | N | Y | 1/3 | N |
| MW10 | NF | — | — | — | — | — | — | — | — | — |
| MW11R | 20.08 | 5-20 | — | ~~20.08~~ 11.94 | — | Y | N | Y | 2/2 | N |
| MW12R | 19.89 | 5-20 | — | ~~19.89~~ 12.33 | — | Y | N | Y | 3/3 | N |
| MW13 | 24.18 | 10-25 | — | 14.10 | — | Y | N | Y | 0/3 | N |

Notes: _____

Signature: _____

dhec

# Underground Storage Tank Management Division
# Field Data Information Sheet – Monitoring Well Gauging

## Site Information

| | | |
|---|---|---|
| Date: 4/18/19 | Site ID #: 18686 | Site Name: Tisdales Quick stop |
| County: Williamsburg | Project Manager: Cody Heinze | Field Personnel: Karlan Schmidt Pamela Mefford |

## 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? |
|---|---|---|---|---|---|---|---|---|---|---|
| MW14 | 23.71 | 10-25 | — | 13.64 | — | Y | N | Y | 0/2 | N |
| MW15 | NM | 10-25 | — | — | — | — | N | Y | 0/2 | |
| MW16R | 24.97 | 10-25 | — | 13.67 | — | Y | N | Y | 2/2 | N |
| MW17R | 25.17 | 10-25 | — | 13.10 | — | Y | N | Y | 2/2 | Y |
| MW18R | 25.49 | 10-25 | — | 15.96 | — | Y | N | Y | 2/2 | N |
| MW19 | NM | 10-25 | — | — | — | N | N | NF | — | — |
| MW20 | 23.79 | 10-25 | — | 14.18 | — | Y | N | Y | 0/2 | Y |
| MW21 | 20.39 | 8-23 | — | Dry | — | Y | N | Y | 0/3 | N |
| MW22 | 24.02 | 10-25 | — | 13.99 | — | Y | N | Y | 2/3 | N |
| MW23 | 22.19 | 9-24 | — | 13.64 | — | Y | N | Y | 1/3 | Y |
| MW24 | 21.33 | 8-23 | — | 11.75 | — | Y | N | Y | 0/3 | N |
| MW25 | 20.96 | 8-23 | — | 11.76 | — | Y | N | Y | 0/3 | N |
| MW26 | 19.57 | 6-21 | — | 9.60 | — | Y | N | Y | 2/3 | Y |

Notes: _____

Signature: _____

dhec

# Underground Storage Tank Management Division
# Field Data Information Sheet – Monitoring Well Gauging

## Site Information

| | | |
|---|---|---|
| Date: 4/16/19 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop |
| County: Williamsburg | Project Manager: Cody Heinze | Field Personnel: Karlan Schmidt Pamela Mefford |

## 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? |
|---|---|---|---|---|---|---|---|---|---|---|
| MW27 | 25.77 | 10-25 | — | 15.61 | — | Y | N | Y | 0/3 | N |
| MW28 | 25.50 | 10-25 | — | 15.99 | — | Y | N | Y | 0/3 | N |
| MW29 | NF | 10-25 | — | — | — | — | — | — | — | — |
| MW30 | NF | 7-22 | — | — | — | — | — | — | — | — |
| MW31 | 20.23 | 10-20 | — | 14.79 | — | Y | N | Y | 0/3 | N |
| MW1A | 20.94 | — | — | 13.33 | — | Y | NOT FOUND YES TAG | Y | 0/3 | N |
| MW2A | 20.68 | — | — | 13.46 | — | Y | NO TAG | Y | 0/3 | Y |
| MW3A | NF | — | — | — | — | — | — | — | — | — |
| MW4A | 19.91 | — | — | 13.67 | — | Y | NO TAG | Y | 0/3 | N |
| ~~MW~~ TW1 | 42.59 | 41-46 | — | 14.10 | — | Y | N | Y | 0/3 | N |
| TW2 | 44.69 | 46-51 | — | 12.96 | — | Y | N | Y | 0/3 | N |
| ~~MSW1~~ | | | | | | | | | | |
| ~~MSW3~~ | | | | | | | | | | |

Notes: MW3A BURIED/NOT FOUND MW 29 NOT FOUND

Signature: [signature]

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

YSI 556 MPS

### Site Information

| | | | |
|---|---|---|---|
| Date: 4/18/19 | Site ID #: 18686 | Site Name: T.sdale's Quick Stop | Field Personnel: Kaitlen Schmidt Pamela Mefford |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 16030C0660 | 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.): | 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.): 10 to 20 | Total Well Depth (TWD) (ft.): 20.17 |
| Depth to Free Product (DFP) (ft.): ___ | Depth to Groundwater (DGW) (ft.): 13.60 | | 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 | 1.00 | ~~2.25~~ | ~~2.25~~ | | | | |
| Time (military) | 1404 | 1406 | | | | | | |
| PH (s.u.) | 5.09 | 5.15 | | | | | | |
| Specific Conductivity (µS/cm) | 42 | 44 | | | | | | |
| Water Temperature (°C) | 22.97 | 23.34 | | | | | | |
| Turbidity (NTU) | NM | NM | | | | | | |
| Dissolved Oxygen (mg/L) | 0.80 | 2.35 | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kaitlen Schmidt Pamela Mefford | Sampling Time: 1408 | Duplicate: Y or N | If yes, Duplicate Time: 1237 |

Notes: limited vol dry @ 1.00

Signature:

D H E C

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | | |
|---|---|---|---|---|
| Date: 4/18/14 | Site ID #: 19686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kallen Schmidt Pamela Mefford | |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): | |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 1603[illegible]660 | 0.0 NTU: Y or N | 1.0 NTU: Y or N | 10.0 NTU: Y or N | |

YSI 556 MPS

### Well Information

| | | | |
|---|---|---|---|
| Well ID: MW2 | Well Diameter (ft.): | 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.): 10 to 25 | | Total Well Depth (TWD) (ft.): 25.19 |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 13.68 | | Free Product Thickness (ft.): — |
| Length of water column (LWC = TWD – DGW) (ft.): 11.51 | 1 casing volume (CV = LWC x C) (gals.): 1.84 | | 3 casing volumes (3 x CV) (gals.): 5.52 |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 2.75 | 4.75 | 6.75 | | | | |
| Time (military) | 1425 | 1428 | 1427 | 1430 | | | | |
| PH (s.u.) | 5.28 | 5.18 | 5.49 | 5.57 | | | | |
| Specific Conductivity (µS/cm) | 76 | 384 | 296 | 183 | | | | |
| Water Temperature (°C) | 24.05 | 22.57 | 20.79 | 21.83 | | | | |
| Turbidity (NTU) | NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 2.19 | 1.28 | 1.03 | 0.64 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kallen Schmidt Pamela Mefford | Sampling Time: 1430 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: _____

Signature: _____

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

YSI 556 MPS

### Site Information

| | | | |
|---|---|---|---|
| Date: 4/18/14 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kallon Schmidt Pamela Mefford |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100636 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 1603C08660 | 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.): | 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.): 10 to 25 | | Total Well Depth (TWD) (ft.): 25.07 |
| 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.): 11.46 | 1 casing volume (CV = LWC x C) (gals.): 1.83 | | 3 casing volumes (3 x CV) (gals.): 5.49 |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 2.25 | 4.25 | 6.25 | | | | |
| Time (military) | 1225 | 1233 | 1235 | 1241 | | | | |
| PH (s.u.) | 5.13 | 4.73 | 4.64 | 4.74 | | | | |
| Specific Conductivity (µS/cm) | 68 | 76 | 81 | 87 | | | | |
| Water Temperature (°C) | 21.59 | 20.79 | 20.62 | 21.97 | | | | |
| Turbidity (NTU) | NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 2.75 | 1.92 | 1.74 | 1.44 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kallon Schmidt Pamela Mefford | Sampling Time: 1241 | Duplicate: Y or N | If yes, Duplicate Time: 1425 |

Notes:

Signature:

ORM ON GAUGE

D H E C

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

YSI 556 MPS

### Site Information

| | | | | |
|---|---|---|---|---|
| Date: 4/18/19 | Site ID #: 18696 | Site Name: Tisdale's Quick Stop | Field Personnel: Kaitlin Schmidt Pamela Mefford | |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): | |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | | |
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100638 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 16030[illegible]660 | 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.): | 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.): 10 to 25 | | Total Well Depth (TWD) (ft.): 13.62 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 13.48 | | 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: Kaitlin Schmidt Pamela Mefford | Sampling Time: | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: ORM @ 13.48 DTW / 13.62 BOTTOM OF WELL

Signature:

D H E C

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

YSI 556 MPS

### Site Information

| | | | | |
|---|---|---|---|---|
| Date: 4/18/14 | Site ID #: 19686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kaitlin Schmidt Pamela Mefford | |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): | |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | | |
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100635 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 16030[illegible]866C | 0.0 NTU: Y or N | 1.0 NTU: Y or N | 10.0 NTU: Y or N | |

### Well Information

| | | | |
|---|---|---|---|
| Well ID: MW 5R | 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 | | Total Well Depth (TWD) (ft.): 24.36 |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 13.05 | | Free Product Thickness (ft.): — |
| Length of water column (LWC = TWD – DGW) (ft.): 11.81 | 1 casing volume (CV = LWC x C) (gals.): 1.89 | | 3 casing volumes (3 x CV) (gals.): 5.67 |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 2.25 | | | | | | |
| Time (military) | 1520 | 1523 | | | | | | |
| PH (s.u.) | 4.45 | 4.56 | | | | | | |
| Specific Conductivity (µS/cm) | 153 | 141 | | | | | | |
| Water Temperature (°C) | 19.81 | 19.75 | | | | | | |
| Turbidity (NTU) | NM | NM | | | | | | |
| Dissolved Oxygen (mg/L) | 4.57 | 4.63 | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kaitlin Schmidt Pamela Mefford | Sampling Time: 1523 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Limited vol dry @ 2.25

Signature:

D H E C

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

YSI 556 MPS

### Site Information

| | | | | |
|---|---|---|---|---|
| Date: 4/4/19 | Site ID #: 19686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kallen Schmidt Pamela Mefford | |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): | |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | | |
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 1603[illegible]660 | 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: ___Bailer ___Pump |
| X MW ___IW ___RW ___Other ___Private WSW ___Public WSW | Screened Interval (ft.): 11.5 to 21.5 | | Total Well Depth (TWD) (ft.): 20.76 |
| 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.): 7.53 | 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 | 1.50 | 2.75 | 4.00 | | | | |
| Time (military) | 1500 | 1505 | 1507 | 1509 | | | | |
| PH (s.u.) | 4.04 | 3.97 | 3.87 | 3.72 | | | | |
| Specific Conductivity (µS/cm) | 165 | 173 | 172 | 164 | | | | |
| Water Temperature (°C) | 19.34 | 19.57 | 19.33 | 20.05 | | | | |
| Turbidity (NTU) | NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 2.96 | 2.85 | 2.64 | 2.60 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kallen Schmidt Pamela Mefford | Sampling Time: 1509 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: _____

Signature: _____

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

YSI 556 MPS

### Site Information

| | | | |
|---|---|---|---|
| Date: 4/18/14 | Site ID #: 19686 | Site Name: T. Sdale's Quick Stop | Field Personnel: Kallen Schmidt Pamela Mefford |
| County: Williamsburg | Project Manager: Cody Heinze | General Weather Conditions: | Ambient Air Temp (°F): |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | | |
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100635 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 16030C0860 | 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: ___Bailer ___Pump |
| X MW ___IW ___RW ___Other ___Private WSW ___Public WSW | Screened Interval (ft.): 12 to 22 | | Total Well Depth (TWD) (ft.): 21.31 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 12.99 | | Free Product Thickness (ft.): |
| Length of water column (LWC = TWD – DGW) (ft.): 8.32 | 1 casing volume (CV = LWC x C) (gals.): 1.33 | | 3 casing volumes (3 x CV) (gals.): 3.98 |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 1.75 | 3.75 | 4.75 | | | | |
| Time (military) | 1439 | 1443 | 1446 | 1448 | | | | |
| PH (s.u.) | 5.17 | 4.66 | 4.37 | 3.98 | | | | |
| Specific Conductivity (µS/cm) | 30 | 27 | 26 | 29 | | | | |
| Water Temperature (°C) | 19.11 | 18.67 | 18.40 | 19.27 | | | | |
| Turbidity (NTU) | NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 3.58 | 3.52 | 3.21 | 2.47 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kallen Schmidt Pamela Mefford | Sampling Time: 1448 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: _____

Signature: _____

D H E C

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

YSI 556 MPS

### Site Information

| | | | |
|---|---|---|---|
| Date: 4/18/19 | Site ID #: 19686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kaitlin Schmidt Pamela Mefford |
| County: Williamsburg | Project Manager: Cady Heinzl | General Weather Conditions: | Ambient Air Temp (°F): |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | | |
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100635 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 16030C0048660 | 0.0 NTU: Y or N | 1.0 NTU: Y or N | 10.0 NTU: Y or N | |

### Well Information

| | | | |
|---|---|---|---|
| Well ID: MW8 | 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 |
| ___MW ___IW ___RW ___Other ___Private WSW ___Public WSW | Screened Interval (ft.): 12 to 22 | | Total Well Depth (TWD) (ft.): 21.44 |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 13.39 | | Free Product Thickness (ft.): — |
| Length of water column (LWC = TWD – DGW) (ft.): 8.05 | 1 casing volume (CV = LWC x C) (gals.): 1.29 | | 3 casing volumes (3 x CV) (gals.): 3.87 |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 1.75 | 3.25 | 4.75 | | | | |
| Time (military) | 0844 | 0850 | 0854 | 0857 | | | | |
| PH (s.u.) | ~~7.19~~ 6.15 | 5.91 | 4.62 | 4.47 | | | | |
| Specific Conductivity (µS/cm) | 53 | 46 | 45 | 45 | | | | |
| Water Temperature (°C) | 19.30 | 19.06 | 19.00 | 19.18 | | | | |
| Turbidity (NTU) | NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 2.43 | 2.65 | 2.70 | 2.45 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kaitlin Schmidt Pamela Mefford | Sampling Time: 0857 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: _____

Signature: _____

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

YSI 556 MPS

## Site Information

| | | | |
|---|---|---|---|
| Date: 4/18/19 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kallen Schmidt Pamela Mefford |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): |

## Quality Assurance

| Meter Name | Serial # | Calibration: | | | |
|---|---|---|---|---|---|
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100638 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 1603C00866C | 0.0 NTU: Y or N | 1.0 NTU: Y or N | 10.0 NTU: Y or N | |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW9 | 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 |
| ___MW ___IW ___RW ___Other ___Private WSW ___Public WSW | Screened Interval (ft.): 12 to 22 | | Total Well Depth (TWD) (ft.): 21.41 |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 14.41 | | Free Product Thickness (ft.): — |
| Length of water column (LWC = TWD – DGW) (ft.): 7.00 | 1 casing volume (CV = LWC x C) (gals.): 1.12 | | 3 casing volumes (3 x CV) (gals.): 3.36 |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 1.50 | 2.75 | 4.00 | | | | |
| Time (military) | 0906 1048 | 0910 1051 | 0913 1054 | 1056 | | | | |
| PH (s.u.) | ~~4.12~~ 4.22 | 4.11 | 3.87 | 3.89 | | | | |
| Specific Conductivity (µS/cm) | ~~76~~ 74 | 72 | 79 | 77 | | | | |
| Water Temperature (°C) | ~~19.07~~ 20.3 | 20.01 | 20.15 | 20.70 | | | | |
| Turbidity (NTU) | ~~NM~~ NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 1.0672 | 5.66 | 5.82 | 5.15 | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kallen Schmidt Pamela Mefford | Sampling Time: 1056 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes:

Signature:

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

YSI 556 MPS

### Site Information

| | | | |
|---|---|---|---|
| Date: 4/16/19 | Site ID #: 19686 | Site Name: T. Sdale's Quick Stop | Field Personnel: Kallen Schmidt Pamela Mefford |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name ~~MW11R~~ | Serial #: | Calibration: | | | |
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 1603[illegible]660 | 0.0 NTU: Y or N | 1.0 NTU: Y or N | 10.0 NTU: Y or N | |

### Well Information

| | | | |
|---|---|---|---|
| Well ID: MW11R | 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 |
| ___MW ___IW ___RW ___Other ___Private WSW ___Public WSW | Screened Interval (ft.): to | | Total Well Depth (TWD) (ft.): 20.08 |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 11.94 | | Free Product Thickness (ft.): ___ |
| Length of water column (LWC = TWD – DGW) (ft.): 8.14 | 1 casing volume (CV = LWC x C) (gals.): 1.30 | | 3 casing volumes (3 x CV) (gals.): 3.9 |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 1.75 | 3.25 | 4.75 | | | | |
| Time (military) | 1025 | 1028 | 1031 | 1035 | | | | |
| PH (s.u.) | 4.84 | 4.82 | 4.87 | 4.52 | | | | |
| Specific Conductivity (uS/cm) | 104 | 65 | 47 | 43 | | | | |
| Water Temperature (°C) | 19.37 | 19.08 | 19.48 | 19.72 | | | | |
| Turbidity (NTU) | NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 4.21 | 3.74 | 2.49 | 2.96 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kallen Schmidt Pamela Mefford | Sampling Time: 1035 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes:

Signature:

D H E C

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

YSI 556 MPS

### Site Information

| | | | | |
|---|---|---|---|---|
| Date: 4/18/19 | Site ID #: 19686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kellen Schmidt Pamela Mefford | |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): | |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | | |
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100635 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 1603[illegible]660 | 0.0 NTU: Y or N | 1.0 NTU: Y or N | 10.0 NTU: Y or N | |

### Well Information

| | | | |
|---|---|---|---|
| Well ID: MW12R | Well Diameter (ft.): | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ___Bailer ___Pump |
| ___MW ___IW ___RW ___Other ___Private WSW ___Public WSW | Screened Interval (ft.): to | | Total Well Depth (TWD) (ft.): 19.89 |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 12.33 | | Free Product Thickness (ft.): — |
| Length of water column (LWC = TWD – DGW) (ft.): 7.56 | 1 casing volume (CV = LWC x C) (gals.): 1.21 | | 3 casing volumes (3 x CV) (gals.): 3.63 |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 1.50 | 2.75 | 4.00 | | | | |
| Time (military) | 1006 | 1008 | 1011 | 1014 | | | | |
| PH (s.u.) | 4.63 | 4.89 | 4.75 | 4.57 | | | | |
| Specific Conductivity (µS/cm) | 49 | 42 | 45 | 48 | | | | |
| Water Temperature (°C) | 19.61 | 19.75 | 19.67 | 20.19 | | | | |
| Turbidity (NTU) | NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 3.59 | 4.83 | 2.82 | 2.73 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kellen Schmidt Pamela Mefford | Sampling Time: 1014 | 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: 4/18/14 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kaitlin Schmidt Pamela Mefford |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): |

YSI 556 MPS

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 1603C08866 | 0.0 NTU: Y or N | 1.0 NTU: Y or N | 10.0 NTU: Y or N | |

### Well Information

| | | | |
|---|---|---|---|
| Well ID: MW13 | 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 |
| ___MW ___IW ___RW ___Other ___Private WSW ___Public WSW | Screened Interval (ft.): 10 to 25 | | Total Well Depth (TWD) (ft.): 24.18 |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 14.10 | | Free Product Thickness (ft.): — |
| Length of water column (LWC = TWD – DGW) (ft.): 10.08 | 1 casing volume (CV = LWC x C) (gals.): 1.61 | | 3 casing volumes (3 x CV) (gals.): 4.83 |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 2.00 | 3.75 | 5.50 | | | | |
| Time (military) | 1114 | 1118 | 1122 | 1125 | | | | |
| PH (s.u.) | 4.23 | 4.20 | 4.32 | 4.54 | | | | |
| Specific Conductivity (µS/cm) | 99 | 97 | 84 | 77 | | | | |
| Water Temperature (°C) | 19.13 | 18.81 | 19.11 | 18.83 | | | | |
| Turbidity (NTU) | NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 1.04 | 2.47 | 2.66 | 3.64 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kaitlin Schmidt ✓ Pamela Mefford | Sampling Time: 1125 | 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: 4/18/14 | Site ID #: 19686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kellen Schmidt Pamela Mefford | |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): | |

YSI 556 MPS

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | | |
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100635 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 1603[illegible]660 | 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: ___Bailer ___Pump |
| X MW ___IW ___RW ___Other ___Private WSW ___Public WSW | Screened Interval (ft.): 10 to 25 | | Total Well Depth (TWD) (ft.): 23.71 |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 13.64 | | Free Product Thickness (ft.): — |
| Length of water column (LWC = TWD – DGW) (ft.): 10.07 | 1 casing volume (CV = LWC x C) (gals.): 1.61 | | 3 casing volumes (3 x CV) (gals.): 4.83 |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 2.09 | 3.75 | 5.50 | | | | |
| Time (military) | 1534 | 1537 | 1541 | 1543 | | | | |
| PH (s.u.) | 5.07 | 4.83 | 4.82 | 4.84 | | | | |
| Specific Conductivity (µS/cm) | 128 | 131 | 128 | 134 | | | | |
| Water Temperature (°C) | 18.87 | 18.90 | 19.04 | 19.58 | | | | |
| Turbidity (NTU) | NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 4.16 | 4.09 | 3.71 | 3.67 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kellen Schmidt Pamela Mefford | Sampling Time: 1543 | 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: 4/18/14 | Site ID #: 18686 | Site Name: T. Sdale's Quick Stop | Field Personnel: Kaelen Schmidt Pamela Mefford | |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): | |

YSI 556 MPS

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | | |
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 1603[illegible]660 | 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.): | 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.): 10 to 25 | 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: Kaelen Schmidt ✓ Pamela Mefford ✓ | Sampling Time: | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: NO ACCESS / VAN PARKED ON TOP OF WELL / VAN FIXED EXPECTED FRIDAY

Signature:

D H E C

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 4/8/14 | Site ID #: 19686 | Site Name: T.Sdale's Quick Stop | Field Personnel: Kaitlin Schmidt Pamela Mefford |
| County: Williamsburg | Project Manager: Cody Heintz | General Weather Conditions: | Ambient Air Temp (°F): |

YSI 556 MPS

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | pH 4.0: X or N | pH 7.0: X or N | pH 10.0: X or N | S.C.: X or N |
| YSI 55 (Dissolved Oxygen) | 11B100635 | X or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 1603C08660 | 0.0 NTU: X or N | 1.0 NTU: X or N | 10.0 NTU: X or N | |

### Well Information

| | | | |
|---|---|---|---|
| Well ID: MW16R | 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 | Total Well Depth (TWD) (ft.): 24.97 |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 13.83 | | Free Product Thickness (ft.): — |
| Length of water column (LWC = TWD – DGW) (ft.): 11.14 | 1 casing volume (CV = LWC x C) (gals.): 1.78 | | 3 casing volumes (3 x CV) (gals.): 5.34 |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 0.50 | | | | | | |
| Time (military) | 0847 | 0849 | | | | | | |
| PH (s.u.) | 4.11 | 3.75 | | | | | | |
| Specific Conductivity (µS/cm) | 99 | 91 | | | | | | |
| Water Temperature (°C) | 19.21 | 18.79 | | | | | | |
| Turbidity (NTU) | NM | NM | | | | | | |
| Dissolved Oxygen (mg/L) | 1.65 | 2.51 | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kaitlin Schmidt Pamela Mefford | Sampling Time: 0849 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Limited vol dry @ 0.50

Signature:

D H E C

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

YSI 556 MPS

### Site Information

| | | | | |
|---|---|---|---|---|
| Date: 4/18/14 | Site ID #: 19686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kaelon Schmidt Pamela Mefford | |
| County: Williamsburg | Project Manager: Cody Heinze | General Weather Conditions: | Ambient Air Temp (°F): | |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 1603[illegible]66C | 0.0 NTU: Y or N | 1.0 NTU: Y or N | 10.0 NTU: Y or N | |

### Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-17R | 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 | | Total Well Depth (TWD) (ft.): 25.17 |
| Depth to Free Product (DFP) (ft.): / | Depth to Groundwater (DGW) (ft.): ~~24.09~~ 13.10 | | Free Product Thickness (ft.): / |
| Length of water column (LWC = TWD – DGW) (ft.): 12.07 | 1 casing volume (CV = LWC x C) (gals.): 1.93 | | 3 casing volumes (3 x CV) (gals.): 5.79 |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 2.25 | 4.25 | 6.25 | | | | |
| Time (military) | 0858 | 0905 | 0907 | 0910 | | | | |
| PH (s.u.) | 4.08 | 4.24 | 4.15 | 4.30 | | | | |
| Specific Conductivity (µS/cm) | 74 | 70 | 71 | 71 | | | | |
| Water Temperature (°C) | 19.09 | 18.95 | 19.07 | 19.20 | | | | |
| Turbidity (NTU) | NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 1.32 | 1.78 | 1.64 | 1.77 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kaelon Schmidt Pamela Mefford | Sampling Time: 0910 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes:

Signature:

D H E C

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

YSI 556 MPS

### Site Information

| | | | | |
|---|---|---|---|---|
| Date: 4/18/19 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kaitlin Schmidt Pamela Mefford | |
| County: Williamsburg | Project Manager: Cady Heinzl | General Weather Conditions: | Ambient Air Temp (°F): | |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100638 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 1603C [illegible] | 0.0 NTU: Y or N | 1.0 NTU: Y or N | 10.0 NTU: Y or N | |

### Well Information

| | | | |
|---|---|---|---|
| Well ID: MW18R | 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 | | Total Well Depth (TWD) (ft.): 25.49 |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 15.86 | | Free Product Thickness (ft.): — |
| Length of water column (LWC = TWD – DGW) (ft.): 9.63 | 1 casing volume (CV = LWC x C) (gals.): 1.54 | | 3 casing volumes (3 x CV) (gals.): 4.62 |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 2.00 | 3.75 | 5.50 | | | | |
| Time (military) | 0815 | 0817 | 0823 | 0827 | | | | |
| PH (s.u.) | 5.45 | 4.95 | 4.58 | 4.42 | | | | |
| Specific Conductivity (µS/cm) | 54 | 52 | 50 | 49 | | | | |
| Water Temperature (°C) | 20.43 | 20.57 | 20.66 | 20.75 | | | | |
| Turbidity (NTU) | NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 2.84 | 2.27 | 2.81 | 3.01 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kaitlin Schmidt Pamela Mefford | Sampling Time: 0827 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes:

Signature:

YSI 556 MPS

D H E C

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | | |
|---|---|---|---|---|
| Date: 4/18/19 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kaitlin Schmidt Pamela Mefford | |
| County: Williamsburg | Project Manager: Cady Heinzl | General Weather Conditions: | Ambient Air Temp (°F): | |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | | |
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100675 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 16030[illegible]660 | 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.): | 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.): 10 to 25 | | 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: Kaitlin Schmidt Pamela Mefford | Sampling Time: | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: Not found

Signature:

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

YSI 556 MPS

### Site Information

| | | | |
|---|---|---|---|
| Date: 4/18/14 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kallen Schmidt Pamela Mefford |
| County: Williamsburg | Project Manager: Cady Heinzl | General Weather Conditions: | Ambient Air Temp (°F): |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100638 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 1603[illegible]66C | 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.): | 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.): 10 to 25 | | Total Well Depth (TWD) (ft.): 23.29 |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 14.18 | | Free Product Thickness (ft.): |
| Length of water column (LWC = TWD – DGW) (ft.): 9.11 | 1 casing volume (CV = LWC x C) (gals.): 1.46 | | 3 casing volumes (3 x CV) (gals.): 4.38 |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 1.75 | 3.25 | 4.75 | | | | |
| Time (military) | 0922 | 0930 | 0931 | 0932 | | | | |
| PH (s.u.) | 4.36 | 4.37 | 4.33 | 4.30 | | | | |
| Specific Conductivity (µS/cm) | 56 | 54 | 55 | 61 | | | | |
| Water Temperature (°C) | 21.75 | 21.60 | 21.60 | 23.67 | | | | |
| Turbidity (NTU) | NM | N/A | N/A | N/M | | | | |
| Dissolved Oxygen (mg/L) | 1.23 | 2.10 | 2.49 | 1.39 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kallen Schmidt Pamela Mefford | Sampling Time: 0932 | 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: 4/18/14 | Site ID #: 19686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kaitlin Schmidt Pamela Mefford |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | | |
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100635 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 1603[illegible]660 | 0.0 NTU: Y or N | 1.0 NTU: Y or N | 10.0 NTU: Y or N | |

YSI 556 SN

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW21 | Well Diameter (ft.): | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ___Bailer ___Pump |
| Y MW ___IW ___RW ___Other ___ Private WSW ___Public WSW | Screened Interval (ft.): 8 to 23 | | Total Well Depth (TWD) (ft.): 20.39 |
| 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: Kaitlin Schmidt Pamela Mefford | Sampling Time: | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: Dry

Signature:

DHEC

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

YSI 556 MPS

### Site Information

| | | | |
|---|---|---|---|
| Date: 4/18/19 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kaelon Schmidt Pamela Mefford |
| County: Williamsburg | Project Manager: Cody Heinze | General Weather Conditions: | Ambient Air Temp (°F): |

### Quality Assurance

| Meter Name | Serial # | Calibration: | | | |
|---|---|---|---|---|---|
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100638 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 16030048660 | 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.): | 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.): 10 to 25 | Total Well Depth (TWD) (ft.): 24.02 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 13.99 | | Free Product Thickness (ft.): |
| Length of water column (LWC = TWD – DGW) (ft.): 10.03 | 1 casing volume (CV = LWC x C) (gals.): 1.60 | | 3 casing volumes (3 x CV) (gals.): 4.80 |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 2.00 | 3.75 | 5.50 | | | | |
| Time (military) | 1909 | 1913 | 1917 | 1919 | | | | |
| PH (s.u.) | 4.30 | 4.21 | 4.14 | 4.10 | | | | |
| Specific Conductivity (µS/cm) | 37 | 34 | 46 | 47 | | | | |
| Water Temperature (°C) | ~~19.39~~ 19.48 | 19.63 | 19.29 | 19.36 | | | | |
| Turbidity (NTU) | NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 3.14 | 3.60 | 3.21 | 3.35 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kaelon Schmidt Pamela Mefford | Sampling Time: 1919 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes:

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

YSI 556 MPS

### Site Information

| | | | | |
|---|---|---|---|---|
| Date: 4/18/14 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kaitlin Schmidt Pamela Mefford | |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): | |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 1603C08660 | 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.): | 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.): 9 to 24 | | Total Well Depth (TWD) (ft.): 22.19 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 13.67 | | Free Product Thickness (ft.): |
| Length of water column (LWC = TWD – DGW) (ft.): 8.52 | 1 casing volume (CV = LWC x C) (gals.): 1.36 | | 3 casing volumes (3 x CV) (gals.): 4.08 |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 1.75 | 3.25 | 4.50 | | | | |
| Time (military) | 1805 | 1809 | 1812 | 1814 | | | | |
| PH (s.u.) | 4.31 | 3.96 | 3.66 | 3.70 | | | | |
| Specific Conductivity (µS/cm) | 50 | 41 | 41 | 40 | | | | |
| Water Temperature (°C) | 19.96 | 18.87 | 18.93 | 19.53 | | | | |
| Turbidity (NTU) | NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 1.43 | 2.56 | 2.69 | 3.43 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kaitlin Schmidt Pamela Mefford | Sampling Time: 1814 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes:

Signature:

D H E C

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

YSI 556 MPS

### Site Information

| | | | | |
|---|---|---|---|---|
| Date: 4/18/19 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kaitlin Schmidt Pamela Mefford | |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): | |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100634 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 16030[illegible]660 | 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.): | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ___Baller ___Pump |
| X MW ___IW ___RW ___Other ___ Private WSW ___Public WSW | Screened Interval (ft.): 8 to 23 | | Total Well Depth (TWD) (ft.): 21.33 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 11.75 | | Free Product Thickness (ft.): |
| Length of water column (LWC = TWD – DGW) (ft.): 9.58 | 1 casing volume (CV = LWC x C) (gals.): 1.53 | | 3 casing volumes (3 x CV) (gals.): 4.59 |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 1.75 | 3.25 | | | | | |
| Time (military) | 1821 | 1824 | 1828 | | | | | |
| PH (s.u.) | 4.14 | 3.86 | 3.65 | | | | | |
| Specific Conductivity (µS/cm) | 27 | 22 | 27 | | | | | |
| Water Temperature (°C) | 19.84 | 18.86 | 19.04 | | | | | |
| Turbidity (NTU) | NM | NM | NM | | | | | |
| Dissolved Oxygen (mg/L) | 5.46 | 5.70 | 5.95 | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kaitlin Schmidt Pamela Mefford | Sampling Time: 1828 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: limited vol DCY @ 3.25

Signature:

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

YSI 556 MPS

### Site Information

| | | | | |
|---|---|---|---|---|
| Date: 4/18/14 | Site ID #: 19686 | Site Name: T. Sdole's Quick Stop | Field Personnel: Kollen Schmidt Pamela Mefford | |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): | |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | | |
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100635 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 1603[illegible]660 | 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.): | 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.): 8 to 23 | | Total Well Depth (TWD) (ft.): 20.96 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 11.76 | | Free Product Thickness (ft.): |
| Length of water column (LWC = TWD – DGW) (ft.): 9.20 | 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 | 1.50 | 2.75 | 4.00 | | | | |
| Time (military) | 1835 | 1837 | 1840 | 1842 | | | | |
| PH (s.u.) | 4.39 | 4.36 | 4.25 | 4.70 | | | | |
| Specific Conductivity (µS/cm) | 33 | 38 | 42 | 51 | | | | |
| Water Temperature (°C) | 18.61 | 18.30 | 18.42 | 19.76 | | | | |
| Turbidity (NTU) | NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 2.32 | 1.91 | 1.48 | 1.39 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kollen Schmidt Pamela Mefford | Sampling Time: 1842 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: _____

Signature: _____

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | | |
|---|---|---|---|---|
| Date: 4/18/19 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kallen Schmidt Pamela Mefford | |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): | |

YSI 556 MPS

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | | |
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 1603C48660 | 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.): | 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.): 6 to 21 | | Total Well Depth (TWD) (ft.): 19.57 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 9.60 | | Free Product Thickness (ft.): |
| Length of water column (LWC = TWD – DGW) (ft.): 9.97 | 1 casing volume (CV = LWC x C) (gals.): 1.60 | | 3 casing volumes (3 x CV) (gals.): 4.80 |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 2.00 | 3.75 | 5.50 | | | | |
| Time (military) | 1850 | 1853 | 1855 | 1857 | | | | |
| PH (s.u.) | 4.69 | 4.10 | 4.01 | 3.89 | | | | |
| Specific Conductivity (µS/cm) | 159 | 161 | 161 | 164 | | | | |
| Water Temperature (°C) | 16.53 | 16.15 | 16.04 | 16.61 | | | | |
| Turbidity (NTU) | NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 3.76 | 4.16 | 4.34 | 4.19 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kallen Schmidt Pamela Mefford | Sampling Time: 1857 | 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: 4/18/19 | Site ID #: 19686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kallen Schmidt Pamela Mefford |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | | |
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 1603C08660 | 0.0 NTU: Y or N | 1.0 NTU: Y or N | 10.0 NTU: Y or N | |

YSI 556 MPS

### Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-27 | Well Diameter (ft.): | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ___Bailer ___Pump |
| Y MW ___IW ___RW ___Other ___Private WSW ___Public WSW | Screened Interval (ft.): 10 to 25 | | Total Well Depth (TWD) (ft.): 25.77 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 15.61 | | Free Product Thickness (ft.): |
| Length of water column (LWC = TWD – DGW) (ft.): 10.16 | 1 casing volume (CV = LWC x C) (gals.): 1.63 | | 3 casing volumes (3 x CV) (gals.): 4.89 |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 2.00 | 3.75 | 5.50 | | | | |
| Time (military) | 1926 | 1929 | 1933 | 1936 | | | | |
| PH (s.u.) | 3.95 | 3.96 | 3.92 | 3.89 | | | | |
| Specific Conductivity (µS/cm) | 46 | 47 | 51 | 56 | | | | |
| Water Temperature (°C) | 19.57 | 19.71 | 19.75 | 19.63 | | | | |
| Turbidity (NTU) | NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 3.71 | 3.25 | 3.42 | 3.05 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kallen Schmidt Pamela Mefford | Sampling Time: 1936 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes:

Signature:

D H E C

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

YSI 556 MPS

### Site Information

| | | | | |
|---|---|---|---|---|
| Date: 4/18/19 | Site ID #: 19686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kaitlin Schmidt Pamela Mefford | |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): | |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 16030[illegible]866C | 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.): | 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.): 10 to 25 | | Total Well Depth (TWD) (ft.): 25.50 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 15.99 | | Free Product Thickness (ft.): |
| Length of water column (LWC = TWD – DGW) (ft.): 9.51 | 1 casing volume (CV = LWC x C) (gals.): 1.52 | | 3 casing volumes (3 x CV) (gals.): 4.56 |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 1.75 | 3.25 | 4.75 | | | | |
| Time (military) | 1943 | 1946 | 1948 | 1950 | | | | |
| PH (s.u.) | 3.32 | 3.28 | 3.27 | 3.29 | | | | |
| Specific Conductivity (µS/cm) | 326 | 337 | 319 | 245 | | | | |
| Water Temperature (°C) | 19.37 | 19.19 | 19.17 | 19.08 | | | | |
| Turbidity (NTU) | NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 3.51 | 4.20 | 4.34 | 4.45 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kaitlin Schmidt Pamela Mefford | Sampling Time: 1950 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes:

Signature:

D H E C

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

YSI 556 MPS

## Site Information

| | | | |
|---|---|---|---|
| Date: 4/18/14 | Site ID #: 19686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kallen Schmidt Pamela Mefford |
| County: Williamsburg | Project Manager: Cody Heinze | General Weather Conditions: | Ambient Air Temp (°F): |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | | |
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100635 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 16030C0660 | 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.): | 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.): 10 to 25 | | 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: Kallen Schmidt Pamela Mefford | Sampling Time: | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: Not Found

Signature:

YSI 556 MPS

D H E C

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | | |
|---|---|---|---|---|
| Date: 4/18/19 | Site ID #: 19686 | Site Name: T. Dale's Quick Stop | Field Personnel: Kallen Schmidt Pamela Mefford | |
| County: Williamsburg | Project Manager: Cody Heintz | General Weather Conditions: | Ambient Air Temp (°F): | |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | | |
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 16030[illegible]660 | 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.): | 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.): 7 to 22 | | 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: Kallen Schmidt Pamela Mefford | Sampling Time: | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: Not Found

Signature:

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

YSI 556 MPS

## Site Information

| | | | | |
|---|---|---|---|---|
| Date: 4/8/14 | Site ID #: 18686 | Site Name: T. Sdale's Quick Stop | Field Personnel: Kallen Schmidt Pamela Mefford | |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): | |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | | |
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 1603[illegible]866C | 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.): | 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.): 10 to 20 | | Total Well Depth (TWD) (ft.): 20.23 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 14.79 | | Free Product Thickness (ft.): |
| Length of water column (LWC = TWD – DGW) (ft.): 5.44 | 1 casing volume (CV = LWC x C) (gals.): 0.87 | | 3 casing volumes (3 x CV) (gals.): 2.61 |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 1.25 | 2.25 | 3.25 | | | | |
| Time (military) | 1751 | 1752 | | | | | | |
| PH (s.u.) | 4.75 | 4.33 | | | | | | |
| Specific Conductivity (µS/cm) | 40 | 40 | | | | | | |
| Water Temperature (°C) | 21.12 | 21.75 | | | | | | |
| Turbidity (NTU) | NM | NM | | | | | | |
| Dissolved Oxygen (mg/L) | 6.16 | 6.54 | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kallen Schmidt Pamela Mefford | Sampling Time: 1752 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: D.O. @ 1.25, limited volume

Signature:

DHEC 0423 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

YSI 556 MPS

### Site Information

| | | | |
|---|---|---|---|
| Date: 4/18/14 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kallen Schmidt Pamela Mefford |
| County: Williamsburg | Project Manager: Cady Heinzl | General Weather Conditions: | Ambient Air Temp (°F): |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | | |
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 1603C00660 | 0.0 NTU: Y or N | 1.0 NTU: Y or N | 10.0 NTU: Y or N | |

### Well Information

| | | | |
|---|---|---|---|
| Well ID: MW1A | 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 |
| ___MW ___IW ___RW ___Other ___Private WSW ___Public WSW | Screened Interval (ft.): — to — | | Total Well Depth (TWD) (ft.): 20.84 |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 13.33 | | Free Product Thickness (ft.): — |
| Length of water column (LWC = TWD – DGW) (ft.): 7.51 | 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 | 1.50 | 2.75 | 4.00 | | | | |
| Time (military) | 0929 | 0932 | 0934 | 0937 | | | | |
| PH (s.u.) | 4.50 | 5.02 | 5.06 | 5.29 | | | | |
| Specific Conductivity (µS/cm) | 95 | 79 | 75 | 80 | | | | |
| Water Temperature (°C) | 18.58 | 18.24 | 18.26 | 18.62 | | | | |
| Turbidity (NTU) | NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 1.01 | 1.00 | 0.96 | 1.25 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kallen Schmidt Pamela Mefford | Sampling Time: 0937 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes:

Signature:

D H E C

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

YSI 556 MPS

### Site Information

| | | | | |
|---|---|---|---|---|
| Date: 4/18/19 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kallon Schmidt Pamela Mefford | |
| County: Williamsburg | Project Manager: Cady Heinzl | General Weather Conditions: | Ambient Air Temp (°F): | |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100675 | 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) | 11B100635 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 16030C0048660 | 0.0 NTU: Y or N | 1.0 NTU: Y or N | 10.0 NTU: Y or N | |

### Well Information

| | | | |
|---|---|---|---|
| Well ID: MW2A | Well Diameter (ft.): | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ___Bailer ___Pump |
| ___MW ___IW ___RW ___Other ___ ___Private WSW ___Public WSW | | Screened Interval (ft.): ___ to ___ | Total Well Depth (TWD) (ft.): 20.68 |
| Depth to Free Product (DFP) (ft.): ___ | Depth to Groundwater (DGW) (ft.): 13.46 | | Free Product Thickness (ft.): ___ |
| Length of water column (LWC = TWD – DGW) (ft.): 7.22 | 1 casing volume (CV = LWC x C) (gals.): 1.16 | | 3 casing volumes (3 x CV) (gals.): 3.48 |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 1.50 | 2.75 | 4.00 | | | | |
| Time (military) | 0945 | 0948 | 0951 | 0953 | | | | |
| PH (s.u.) | 5.10 | 4.66 | 4.53 | 4.38 | | | | |
| Specific Conductivity (µS/cm) | 62 | 61 | 59 | 60 | | | | |
| Water Temperature (°C) | 18.44 | 18.40 | 18.37 | 18.73 | | | | |
| Turbidity (NTU) | NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 1.19 | 1.43 | 1.15 | 1.14 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kallon Schmidt Pamela Mefford | Sampling Time: 0953 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: ___

Signature: ___

YSI 556 MPS

D H E C

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | | |
|---|---|---|---|---|
| Date: 4/18/19 | Site ID #: 18686 | Site Name: T.Sdale's Quick Stop | Field Personnel: Kallon Schmidt Pamela Mefford | |
| County: Williamsburg | Project Manager: Cody Heinze | General Weather Conditions: | Ambient Air Temp (°F): | |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 16030C0660 | 0.0 NTU: Y or N | 1.0 NTU: Y or N | 10.0 NTU: Y or N | |

### Well Information

| | | | |
|---|---|---|---|
| Well ID: MW4A | 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 |
| ___MW ___IW ___RW ___Other ___Private WSW ___Public WSW | Screened Interval (ft.): — to — | | Total Well Depth (TWD) (ft.): 19.91 |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 13.67 | | Free Product Thickness (ft.): — |
| Length of water column (LWC = TWD – DGW) (ft.): 6.24 | 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 | 1.25 | 2.25 | 3.25 | | | | |
| Time (military) | 0906 | 0910 | 0913 | 0915 | | | | |
| PH (s.u.) | 4.42 | 4.15 | 4.10 | 4.10 | | | | |
| Specific Conductivity (µS/cm) | 96 | 103 | 103 | 105 | | | | |
| Water Temperature (°C) | 14.01 | 18.79 | 18.76 | 18.96 | | | | |
| Turbidity (NTU) | NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 1.10 | 1.43 | 1.43 | 1.34 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kallon Schmidt Pamela Mefford | Sampling Time: 0915 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes:

Signature:

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

YSI 556 MPS

### Site Information

| | | | |
|---|---|---|---|
| Date: 4/18/19 | Site ID #: 19686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kaitlin Schmidt Pamela Mefford |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B 100 635 | 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) | 11B100635 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 16030[illegible]660 | 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.): | 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.): 41 to 46 | | Total Well Depth (TWD) (ft.): 42.59 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 14.40 | | Free Product Thickness (ft.): |
| Length of water column (LWC = TWD – DGW) (ft.): 28.19 | 1 casing volume (CV = LWC x C) (gals.): 4.59 | | 3 casing volumes (3 x CV) (gals.): 13.53 |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.50 | 5.00 | 9.50 | 14.00 | | | | |
| Time (military) | 1258 | 1310 | 1317 | 1325 | | | | |
| PH (s.u.) | 4.96 | 4.57 | 4.62 | 4.67 | | | | |
| Specific Conductivity (µS/cm) | 68 | 82 | 80 | 81 | | | | |
| Water Temperature (°C) | 22.16 | 22.31 | 20.77 | 21.21 | | | | |
| Turbidity (NTU) | NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 5.41 | 1.13 | 1.10 | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kaitlin Schmidt Pamela Mefford | Sampling Time: 1325 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes:

Signature:

D H E C

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

YSI 556 MPS

### Site Information

| | | | | |
|---|---|---|---|---|
| Date: 4/18/19 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kaitlin Schmidt Pamela Mefford | |
| County: Williamsburg | Project Manager: Cady Heinzl | General Weather Conditions: | Ambient Air Temp (°F): | |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100638 | pH 4.0: X or N | pH 7.0: X or N | pH 10.0: X or N | S.C.: X or N |
| YSI 55 (Dissolved Oxygen) | 11B100638 | X or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 16030C008660 | 0.0 NTU: X or N | 1.0 NTU: X or N | 10.0 NTU: X or N | |

### Well Information

| | | | |
|---|---|---|---|
| Well ID: TW-2 | Well Diameter (ft.): | 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.): 46 to 56 | | Total Well Depth (TWD) (ft.): 44.69 |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 12.96 | | Free Product Thickness (ft.): — |
| Length of water column (LWC = TWD – DGW) (ft.): 31.73 | 1 casing volume (CV = LWC x C) (gals.): 5.08 | | 3 casing volumes (3 x CV) (gals.): 15.24 |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.50 | 6.00 | 11.50 | 17.00 | | | | |
| Time (military) | 0738 | 0749 | 0755 | 0801 | | | | |
| PH (s.u.) | 6.67 | 5.83 | 5.70 | 5.67 | | | | |
| Specific Conductivity (µS/cm) | 133 | 154 | 158 | 158 | | | | |
| Water Temperature (°C) | 18.72 | 19.67 | 19.71 | 19.93 | | | | |
| Turbidity (NTU) | NM | NM | NM | NM | | | | |
| Dissolved Oxygen (mg/L) | 5.23 | 1.86 | 2.00 | 1.57 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kaitlin Schmidt Pamela Mefford | Sampling Time: 0801 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes:

Signature:

D H E C

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

YSI 556 MPS

### Site Information

| | | | | |
|---|---|---|---|---|
| Date: 4/19/19 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kaitlin Schmidt Pamela Mefford | |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): | |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | | |
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B100635 | 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) | 11B100638 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 16030[illegible]66C | 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.): NA | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ___Bailer X Pump |
| ___MW ___IW ___RW ___Other_____ X Private WSW ___Public WSW | | Screened Interval (ft.): to NA | Total Well Depth (TWD) (ft.): NM |
| Depth to Free Product (DFP) (ft.): NM | Depth to Groundwater (DGW) (ft.): NM | | Free Product Thickness (ft.): NM |
| Length of water column (LWC = TWD – DGW) (ft.): NM | 1 casing volume (CV = LWC x C) (gals.): NA | | 3 casing volumes (3 x CV) (gals.): NA |

### 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: ~~Kaitlin Schmidt~~ Pamela Mefford

Sampling Time: 0934

Duplicate: (Y) or N

If yes, Duplicate Time: 0853

Notes: Sampled from sp got on back corner of house

Signature: Kaitlin Schmidt

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

YSI 55 MPS

## Site Information

| | | | | |
|---|---|---|---|---|
| Date: 4/19/14 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Kallon Schmidt Pamela Mefford | |
| County: Williamsburg | Project Manager: Cody Heinzl | General Weather Conditions: | Ambient Air Temp (°F): | |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | | |
| YSI 63 (pH, Specific Conductivity, Temperature) | 11B 100 635 | 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) | 11B100 635 | Y or N | | | |
| LaMotte (Turbidity) Hach 2100Q | 16030 [illegible] 66C | 0.0 NTU: Y or N | 1.0 NTU: Y or N | 10.0 NTU: Y or N | |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: LSW 3 | Well Diameter (ft.): NA | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ___Bailer ___Pump |
| ___MW ___IW ___RW ___Other ___Private WSW X Public WSW | Screened Interval (ft.): to NA | | Total Well Depth (TWD) (ft.): NM |
| Depth to Free Product (DFP) (ft.): NM | Depth to Groundwater (DGW) (ft.): NM | | Free Product Thickness (ft.): NM |
| Length of water column (LWC = TWD – DGW) (ft.): NM | 1 casing volume (CV = LWC x C) (gals.): NA | | 3 casing volumes (3 x CV) (gals.): NA |

## 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: (Kallon Schmidt) Pamela Mefford | Sampling Time: 08 19 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Sampled from well house

Signature: [signature]

**APPENDIX E**

**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.: W-18305

2. Page 1 of

**GENERATOR**

3. Generator's Name and Mailing Address: TISDALES QUICK STOP, 1989 THURGOOD MARSHALL, 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: 910-641-2617

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: HERR, Inc. 303 S. Madison St. Whiteville, NC

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone: 910-648-2617

| 11. WASTE DESCRIPTION | Containers No. | Containers Type | 13. Total Quantity | 14. Unit Wt./Vol. |
|---|---|---|---|---|
| a. Petroleum Contaminated Soil | | DM | 1.5 | T |
| 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 | Signature | Date: Month Day Year

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month 5 Day 11 Year 18

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: Richard Cox | Signature | Date: Month 5 Day 11 Year 18

CF14 © 2002 LABELMASTER® (800) 621-5808 www.labelmaster.com

# 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 1

3. Generator's Name and Mailing Address: Tisdales Quick Stop, 1898 Thurgood Marshall Blvd, Kingstree, SC

4. Generator's Phone ( )

5. Transporter 1 Company Name: GRT

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone: (704) 845-4010

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: HERR Inc., 303 S. Madbby St., Whiteville, NC

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone: 910-640-2607

GENERATOR

| 11. WASTE DESCRIPTION | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt./Vol. |
|---|---|---|---|---|
| a. Non-Reg. Petroleum Contact Water | | DF | 81.75 | GAL |
| b. | | | | |
| c. | | | | |
| d. | | | | |

G. Additonal 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: Scott Ball AGENT — Signature — Date: Month 6 Day 5 Year 18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Scott Ball GRT — Signature — Date: Month 6 Day 5 Year 18

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 CH — Signature — Date: Month 6 Day 5 Year 18

**APPENDIX F**

**Contractor Check List**

**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

DEC 1 1 2018

UST DOCKETING 67 rec'd

MR MARTY EASLER
196 RICHBURG ROAD
GREELEYVILLE SC 29056

Re: **Aggressive Fluid Vapor Recovery and Recovery Well Installation Directive**
Tisdales Quick Stop, 1989 Thurgood Marshall Blvd, Kingstree, SC
UST Permit #18686; CA #57541; UMW-27138
Release reported March 30, 2001
Monitoring Report received July 2, 2018
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 utilizing Geological Resources, Inc. The next appropriate scope of work at the site is two 96 Hour AFVR event and installation of four (4) recovery wells. In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations, two 96-hour Aggressive Fluid and Vapor Recovery (AFVR) events may commence as outlined in this correspondence and the UST Quality Assurance Program Plan (QAPP) Revision 3.1. Two recovery wells should be installed near MW-2A and two recovery wells should be installed near MW-16R. The four recovery wells should be drilled to 20 ft and screened from 10 to 20 ft. The four newly installed recovery wells should be utilized during the events. The stingers shall be lowered at six inch intervals starting at the water table interface to a target depth near the bottom of each well. Please strive to reach the target depth within the first 8 hours. A copy of UST QAPP Version 3.1 for the Underground Storage Tank Division is available at http://www.dhec.sc.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/.

**As soon as the beginning date of the event has been scheduled, please contact Cody Heinze at heinzecw@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 #57541 has been approved in the amount shown on the enclosed cost agreement. Your contractor 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 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 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. If you have any questions, please contact me at (803) 898-0634 or by e-mail at heinzecw@dhec.sc.gov.

Sincerely,

Cody Heinze, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement
Monitoring Well Approval Form

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

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:** | Williamsburg |

This approval is for the installation of four recovery 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: December 4, 2018** **Approval #: UMW-27138**

Cody Heinze, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

# Approved Cost Agreement 57541

Facility: 18686 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 |
| 04 MOB/DEMOB | | | | |
| | A1 EQUIPMENT | 1.0000 | $1,020.000 | 1,020.00 |
| | B1 PERSONNEL | 2.0000 | $423.000 | 846.00 |
| 09 WELL INSTALLATION | | | | |
| | HH RECOVERY WELL (4 INCH DIA) | 80.0000 | $45.000 | 3,600.00 |
| 17 DISPOSAL | | | | |
| | C1 SOIL TREATMENT DISPOSAL | 4.0000 | $60.000 | 240.00 |
| | D1 DRILLING FLUIDS | 200.0000 | $0.420 | 84.00 |
| 19 RPT/PROJECT MNGT & COORDINATIO | | | | |
| | PRT REPORT PREPARATION | 0.1200 | $55,621.250 | 6,674.55 |
| 23 EFR | | | | |
| | A4 96 HOUR EVENT | 2.0000 | $12,567.500 | 25,135 00 |
| | C4 OFF GAS TREATMENT 96 HOUR | 2.0000 | $780.000 | 1,560.00 |
| | D SITE RECONNAISSANCE | 1.0000 | $203.250 | 203.25 |
| | F1 EFFLUENT DISPOSAL | 50,000.0000 | $0.440 | 22,000.00 |
| | G AFVR EQUIPMENT MOB | 2.0000 | $391.500 | 783.00 |
| | | | **Total Amount** | 62,295.80 |

Geological Resources, Inc.

UST
MAR 28 2019
PROGRAM

March 25, 2019

Mr. Cody Heinze, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

UST
68
DOCKETING

Re: Recovery Wells Installation and AFVR Report
Tisdales Quick Stop (Former)
1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County
UST Permit #18686
Cost Agreement #57541
GRI Project No. 1543

Dear Mr. Heinze:

The purpose of this report is to present the results of recovery well installations and aggressive fluid and vapor recovery (AFVR) activities conducted in February and March 2019 at the above referenced site (**Figure 1**). The activities were conducted in accordance with the requirements outlined in correspondence from the SCDHEC dated December 11, 2018 and addressed to Mr. Marty Easler. The purpose of the activities was to install four recovery wells in the areas of monitoring wells MW-2A and MW-16R and conduct two 96-hour AFVR events on the monitoring and recovery wells (RW-1, RW-2, MW-2A, RW-3, RW-4 and MW-16R). The following Figures, Tables and Appendices have been included:

| | |
|---|---|
| Figure 1: | Site Location Map |
| Figure 2: | Site Map |
| Table 1A: | AFVR Event Chronology (02/18/19 – 02/22/19) |
| Table 1B: | AFVR Event Chronology (02/25/19 – 03/01/19) |
| Table 2A: | Summary of AFVR Event Gauging Data (02/18/19 – 02/22/19) |
| Table 2B: | Summary of AFVR Event Gauging Data (02/25/19 – 03/01/19) |

**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**

| | |
|---|---|
| Appendix A: | Subsurface Logs, Water Well Records and Well Development Data Verification Forms |
| Appendix B: | Well Installation Soil and Water Disposal Manifest |
| Appendix C: | AFVR Reports, Calculations, Disposal Manifests/Stick Readings, Tank Charts, Photographs |
| Appendix D: | Contractor Checklist |

Geological Resources, Inc. (GRI) personnel arrived at the subject site on January 16, 2019 to install the recovery wells. A total of four 4-inch diameter recovery wells (RW-1, RW-2, RW-3 and RW-4) were installed. Recovery wells RW-1 and RW-2 were installed near monitoring well MW-2A and recovery wells RW-3 and RW-4 were installed near MW-16R as specified by the SCDHEC Project Manager. Each recovery well was installed to a total depth of 20 feet and each well was completed with a 10-foot section of screen. Each of the wells were completed at grade with a manhole cover and concrete pad. Subsequent to installation of the recovery wells, top-of-casing elevations were surveyed and RW-1, RW-2 and RW-4 were developed using a submersible pump on January 17, 2019. Recovery well RW-3 was not developed due to the presence of free product. Approximately 0.20 feet of free product was measured in RW-3. Soil cuttings and purge water generated during the installation and development of the recovery wells were containerized and later transported to a licensed disposal facility.

## 1ST 96-HOUR AFVR EVENT

On February 18, 2019, the AFVR contractor, Hazmat Emergency Response and Remediation, Inc. (HERR), arrived on-site to conduct a 96-hour AFVR event. The AFVR event was conducted on recovery wells RW-1, RW-2 and monitoring well MW-2A. General weather conditions were sunny and fair with an ambient air temperature of approximately 45°F at the time of system start-up. Prior to system startup, no free product was observed in the recovery wells RW-1 or RW-2 or monitoring well MW-2A. Depths to water measured in RW-1, RW-2 and MW-2A prior to system startup were 9.91, 9.16 and 11.54 feet, respectively. Monitoring wells MW-1A and MW-4A were used as observation wells during the 96-hour event. Fluid recovery activities using a vacuum truck with a maximum vacuum rating of 25 in. Hg and a capacity of 325 cubic feet per minute were conducted for 96 hours on RW-1, RW-2 and MW-2A. During the course of the event, the vacuum at the wells remained steady at 25 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 21,827 gallons of liquid was removed during the event. Based on data collected during the AFVR event, an estimated total of 839.943 pounds (approximately 134.39 gallons) of product was removed in the vapor phase. No measurable free product was present in the tanker or the vacuumed wells (RW-1, RW-2 or MW-2A) at the conclusion of the event.

## 2ND 96-HOUR AFVR EVENT

On February 25, 2019, the AFVR contractor, Hazmat Emergency Response and Remediation, Inc. (HERR), arrived on-site to conduct a 96-hour AFVR event. The AFVR event was conducted on recovery wells RW-3, RW-4 and monitoring well MW-16R. General weather conditions were fair with an ambient air temperature of approximately 47°F at the time of system start-up. Prior to system startup, no free product was observed in the recovery wells RW-3 or RW-4 or monitoring well MW-16R. Depths to

water measured in RW-3, RW-4 and MW-16R prior to system startup were 12.75, 12.74 and 12.60 feet, respectively. Monitoring wells MW-18R and MW-2A were used as observation wells during the 96-hour event. Fluid recovery activities using a vacuum truck with a maximum vacuum rating of 25 in. Hg and a capacity of 325 cubic feet per minute were conducted for 96 hours on RW-3, RW-4 and MW-16R. During the course of the event, the vacuum at the wells remained steady at 25 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 3,315 gallons of liquid was removed during the event. Based on data collected during the AFVR event, an estimated total of 539.746 pounds (approximately 86.36 gallons) of product was removed in the vapor phase. No measurable free product was present in the tanker or the vacuumed wells (RW-3, RW-4 or MW-16R) at the conclusion of the event.

Please do not hesitate to contact the undersigned at (704) 815-0626 if you have any questions or require additional information.

Sincerely,

W. Scott Ball

W. Scott Ball
Project Manager

JOHNNIE M. BROWN
REGISTERED
NO. 1116
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

Johnnie M. Brown, P.G.
License No. 1116

Enclosures

cc: Mr. Marty Easler
file

**FIGURES**

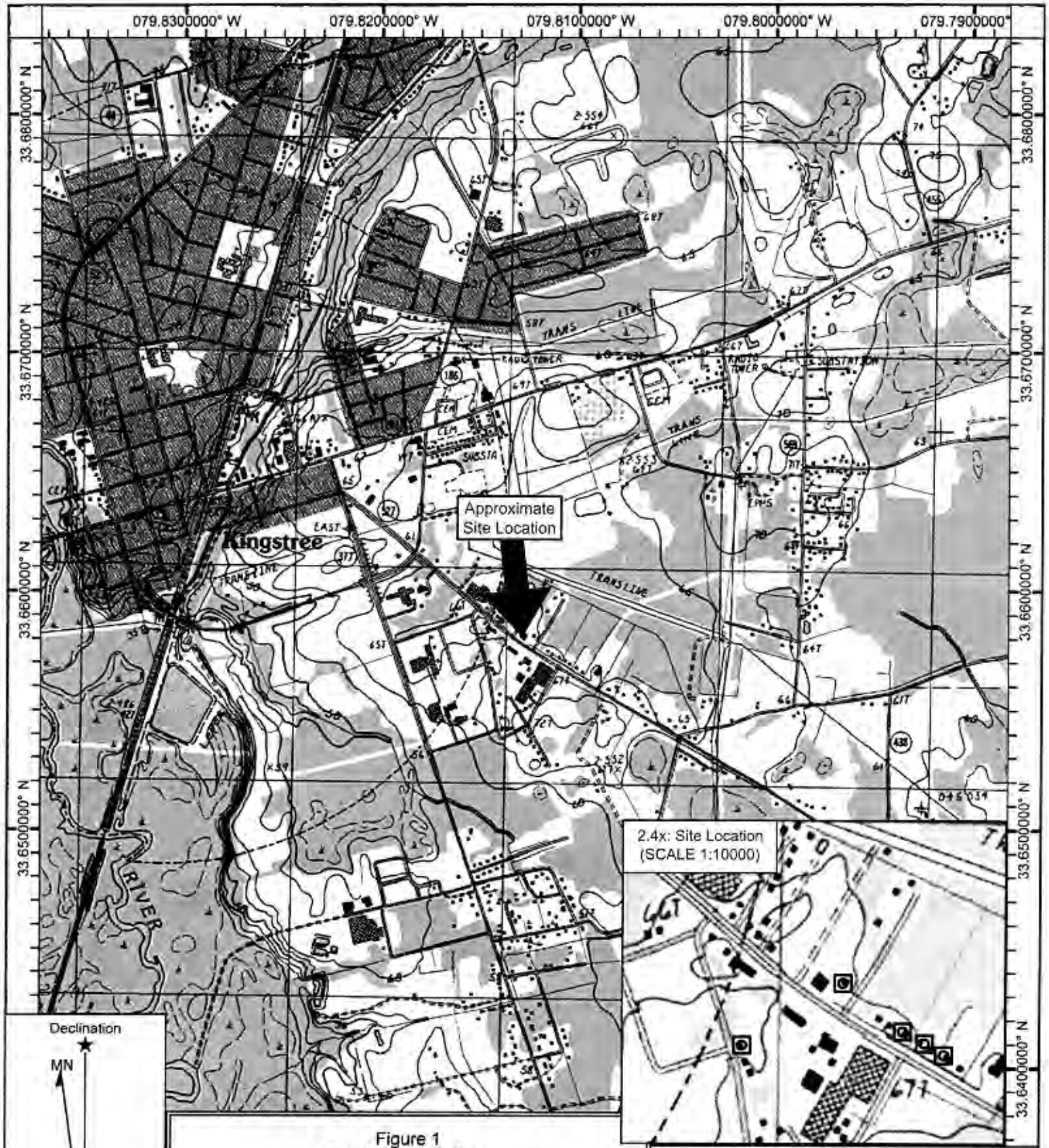



Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit No. 18686
GRI Project No. 1543

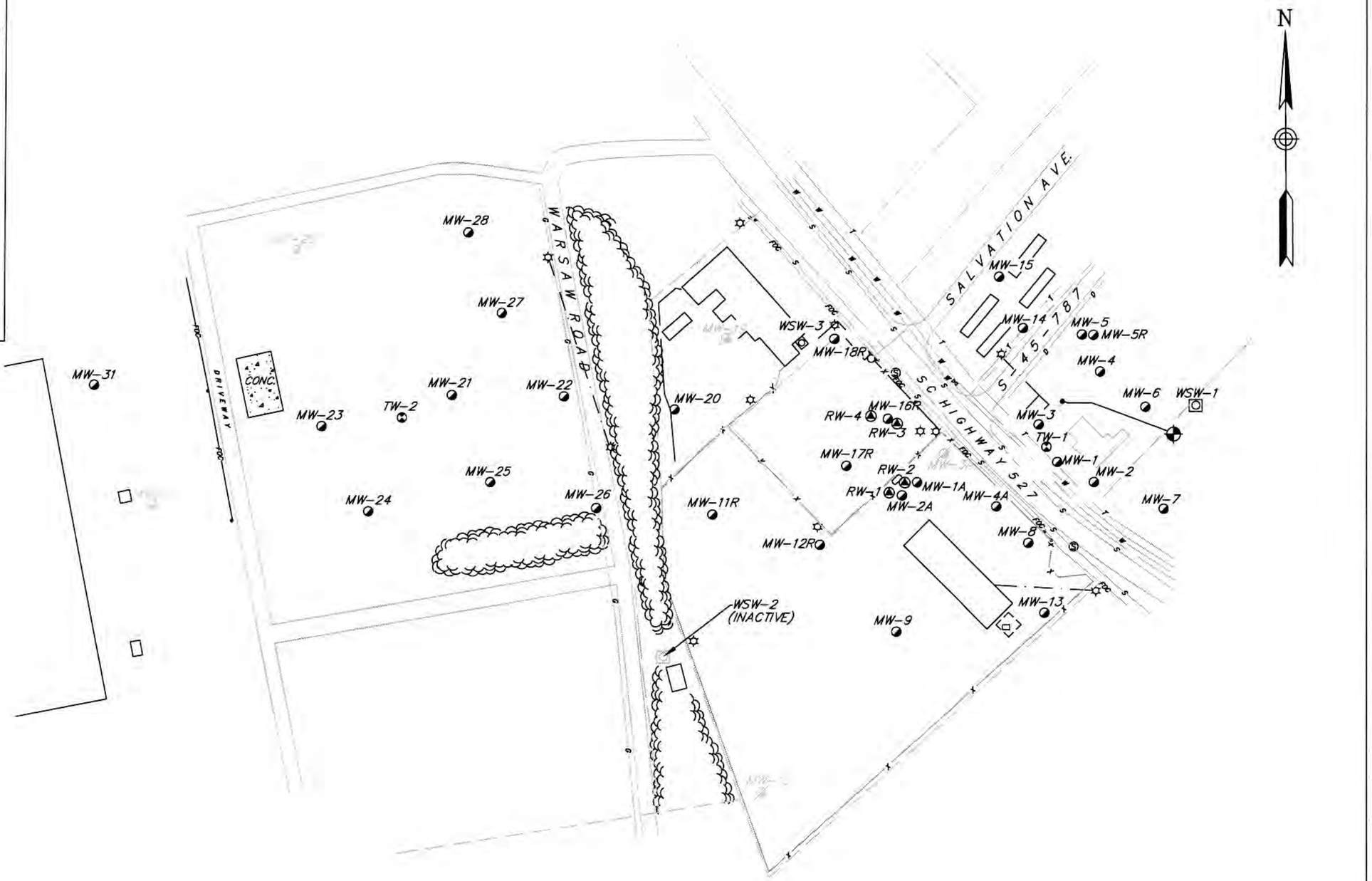
Name: Topographic Map
Date: 08/08/16
Scale: 1 inch = 2,000 ft.

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
- RECOVERY WELL




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: | 01/23/19 | Drawn by: | DTH | Figure: | 2 |
|---|---|---|---|---|---|

# TABLES

**TABLE 1A**
**AFVR EVENT CHRONOLOGY**
**FEBRUARY 18 - 22, 2019**
**TISDALE'S QUICK STOP**
**UST PERMIT #18686**

| Task | Hours | Personnel | Equipment | Company |
|---|---|---|---|---|
| Gauge Liquid Levels in RW-1, RW-2 and MW-2A | 8:15 2/18/19 | Vacuum Truck Operator | Interface Probe | HERR |
| Vacuum Truck Setup for Fluid Removal in RW-1, RW-2 and MW-2A | 8:00 - 8:30 2/18/19 | Vacuum Truck Operator | Vacuum Truck | HERR |
| Fluid Recovery in RW-1, RW-2 and MW-2A | 8:30 2/18/19 - 8:30 2/22/19 | Vacuum Truck Operator | Vacuum Truck | HERR |
| Gauge Liquid Levels in RW-1, RW-2 and MW-2A | 8:45 2/22/19 | Vacuum Truck Operator | Interface Probe | HERR |

**TABLE 1B**
**AFVR EVENT CHRONOLOGY**
**FEBRUARY 25, 2019 - MARCH 1, 2019**
**TISDALE'S QUICK STOP**
**UST PERMIT #18686**

| Task | Hours | Personnel | Equipment | Company |
|---|---|---|---|---|
| Gauge Liquid Levels in RW-3, RW-4 and MW-16R | 8:15 2/25/19 | Vacuum Truck Operator | Interface Probe | HERR |
| Vacuum Truck Setup for Fluid Removal in RW-3, RW-4 and MW-16R | 8:00 - 8:30 2/25/19 | Vacuum Truck Operator | Vacuum Truck | HERR |
| Fluid Recovery in RW-3, RW-4 and MW-16R | 8:30 2/25/19 - 8:30 3/1/19 | Vacuum Truck Operator | Vacuum Truck | HERR |
| Gauge Liquid Levels in RW-3, RW-4 and MW-16R | 8:45 3/1/19 | Vacuum Truck Operator | Interface Probe | HERR |

**TABLE 2A**
**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 Thickness |
|---|---|---|---|---|---|
| RW-1 | 2/18/2019 | 8:15 | --- | 9.91 | --- |
| RW-2 | | 8:15 | --- | 9.16 | --- |
| MW-2A | | 8:16 | --- | 11.54 | --- |
| RW-1 | 02/22/19 | 8:45 | --- | 19.03 | --- |
| RW-2 | | 8:45 | --- | 17.49 | --- |
| MW-2A | | 8:46 | --- | 14.67 | --- |

**TABLE 2B**
**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 Thickness |
|---|---|---|---|---|---|
| RW-3 | 2/25/2019 | 8:15 | --- | 12.75 | --- |
| RW-4 | | 8:15 | --- | 12.74 | --- |
| MW-16R | | 8:16 | --- | 12.60 | --- |
| RW-3 | 03/01/19 | 8:45 | --- | 12.85 | --- |
| RW-4 | | 8:45 | --- | 12.67 | --- |
| MW-16R | | 8:46 | --- | 12.90 | --- |

Note:
• Data reported in feet.

# APPENDICES

# APPENDIX A

## Subsurface Logs, Water Well Records and 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 | **Tisdales Quick Stop** | | |
| Address | **1989 Thurgood Marshall Blvd., Kingstree, Williamsburg Co., SC** | | |
| Boring Number | **RW-1** | Date Drilled | **01/16/19** |
| Sample Method | **NA** | Drilling Method | **8" HSA** |
| Completion Details | **Completed with a screened interval from 10'-20'** | | |
| Driller | **Samuel Bowers (GRI) #1737-B** | Log By | **Kael Schmidt (GRI)** |

| Depth | | | Lab Sample | Sample Interval(ft) | OVA ppm | LITHOLOGY |
|---|---|---|---|---|---|---|
| 0 | | | | | | 0' - 1' Black Organic Sand<br>1' - 10 Gray Sandy Clay |
| 2 | | | | | | |
| 4 | | | | | | |
| 6 | | | | | | |
| 8 | | | | | | |
| 10 | | | | | | |
| 12 | | | | | | 10' - 20' Gray Sand |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | Well Completed @ 20' |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |
| 28 | | | | | | |
| 30 | | | | | | |
| 32 | | | | | | |
| 34 | | | | | | |
| 36 | | | | | | |

Geological Resources, Inc.
3502 Hayes Road
Monroe, NC 28110

Phone: (704) 845-4010
Fax: (704) 845-4012

# SUBSURFACE LOG

| | | | |
|---|---|---|---|
| Project | Tisdales Quick Stop | | |
| Address | 1989 Thurgood Marshall Blvd., Kingstree, Williamsburg Co., SC | | |
| Boring Number | RW-2 | Date Drilled | 01/16/19 |
| Sample Method | NA | Drilling Method | 8" HSA |
| Completion Details | Completed with a screened interval from 10'-20' | | |
| Driller | Samuel Bowers (GRI) #1737-B | Log By | Kael Schmidt (GRI) |

| Depth | | | Lab Sample | Sample Interval(ft) | OVA ppm | LITHOLOGY |
|---|---|---|---|---|---|---|
| 0 | | | | | | 0' - 1' Black Organic Sand<br>1' - 10 Gray Sandy Clay |
| 2 | | | | | | |
| 4 | | | | | | |
| 6 | | | | | | |
| 8 | | | | | | |
| 10 | | | | | | |
| 12 | | | | | | 10' - 20' Gray Sand |
| 14 | | | | | | |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | Well Completed @ 20' |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |
| 28 | | | | | | |
| 30 | | | | | | |
| 32 | | | | | | |
| 34 | | | | | | |
| 36 | | | | | | |

Geological Resources, Inc.
3502 Hayes Road
Monroe, NC 28110

Phone: (704) 845-4010
Fax: (704) 845-4012

# SUBSURFACE LOG

| | | | |
|---|---|---|---|
| Project | Tisdales Quick Stop | | |
| Address | 1989 Thurgood Marshall Blvd., Kingstree, Williamsburg Co., SC | | |
| Boring Number | RW-3 | Date Drilled | 01/16/19 |
| Sample Method | NA | Drilling Method | 8" HSA |
| Completion Details | Completed with a screened interval from 10'-20' | | |
| Driller | Samuel Bowers (GRI) #1737-B | Log By | Kael Schmidt (GRI) |

| Depth | | | Lab Sample | Sample Interval(ft) | OVA ppm | LITHOLOGY |
|---|---|---|---|---|---|---|
| 0 | | | | | | 0' - 4' Red Sandy Clay |
| 2 | | | | | | |
| 4 | | | | | | 4' - 14' Mottled Red and Brown Clay |
| 6 | | | | | | |
| 8 | | | | | | |
| 10 | | | | | | |
| 12 | | | | | | |
| 14 | | | | | | 14' - 20' Gray Sand |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | Well Completed @ 20' |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |
| 28 | | | | | | |
| 30 | | | | | | |
| 32 | | | | | | |
| 34 | | | | | | |
| 36 | | | | | | |

Geological Resources, Inc.
3502 Hayes Road
Monroe, NC 28110

Phone: (704) 845-4010
Fax: (704) 845-4012

# SUBSURFACE LOG

| | | | |
|---|---|---|---|
| Project | Tisdales Quick Stop | | |
| Address | 1989 Thurgood Marshall Blvd., Kingstree, Williamsburg Co., SC | | |
| Boring Number | RW-4 | Date Drilled | 01/16/19 |
| Sample Method | NA | Drilling Method | 8" HSA |
| Completion Details | Completed with a screened interval from 10'-20' | | |
| Driller | Samuel Bowers (GRI) #1737-B | Log By | Kael Schmidt (GRI) |

| Depth | | | Lab Sample | Sample Interval(ft) | OVA ppm | LITHOLOGY |
|---|---|---|---|---|---|---|
| 0 | | | | | | 0' - 4' Red Sandy Clay |
| 2 | | | | | | |
| 4 | | | | | | 4' - 14' Mottled Red and Brown Clay |
| 6 | | | | | | |
| 8 | | | | | | |
| 10 | | | | | | |
| 12 | | | | | | |
| 14 | | | | | | 14' - 20' Gray Sand |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | Well Completed @ 20' |
| 22 | | | | | | |
| 24 | | | | | | |
| 26 | | | | | | |
| 28 | | | | | | |
| 30 | | | | | | |
| 32 | | | | | | |
| 34 | | | | | | |
| 36 | | | | | | |

# Water Well Record
## Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

***Note:*** *Personal information provided on this document is subject to public scrutiny or release.*

**1. WELL OWNER INFORMATION:**
Name: Easler, Marty (last) (first)
Address: 196 Richburg Road
City: Greelyville State: SC Zip:
Telephone: Work: Home: (843) 372-2502

**2. LOCATION OF WELL:** RW-1 **COUNTY:** Williamsburg
Name: Tisdale's Quick Stop
Street Address: 1989 Thurgood Marshall Blvd
City: Kingstree Zip:
Latitude: 33.6579897 N Longitude: -79.8127613 W

**3. PUBLIC SYSTEM NAME:** **PUBLIC SYSTEM NUMBER:**

**4. ABANDONMENT:** ☐ Yes ☑ No
Give Details Below
Grouted Depth: from _____ ft. to _____ ft.

| Formation Description | *Thickness of Stratum | Depth to Bottom of Stratum |
|---|---|---|
| Black Organic Sand | 1' | 1' |
| Gray Sandy Clay | 9' | 10' |
| Gray Sand | 10' | 20' |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| *Indicate Water Bearing Zones (Use a 2nd sheet if needed) | | |

**5. REMARKS:**
Bentonite 6' to 8'

**6. TYPE:** ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

**7. PERMIT NUMBER:** UST Permit #18686; UMW-27138

**8. USE:**
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

**9. WELL DEPTH** (completed) Date Started: 1/16/19
20 ft. Date Completed: 1/16/19

**10. CASING:** ☑ Threaded ☐ Welded
Diam.: 4"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0 in. to 10 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below ✓
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

**11. SCREEN:**
Type: PVC Diam.: 4"
Slot/Gauge: 0.010 Length: 10'
Set Between: 10 ft. and 20 ft.
_____ ft. and _____ ft.
**NOTE: MULTIPLE SCREENS USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☑ No

**12. STATIC WATER LEVEL** N/A 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 20 ft.
Effective size _____ Uniformity Coefficient _____

**16. WELL GROUTED?** ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 6 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** ____ ft. ____ direction
Type Petroleum
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:** Samuel Bowers **CERT. NO.:** 1737
Address: (Print) 3502 Hayes Rd, Monroe, NC 28110
Level: A B C D (circle one) ✓
Telephone No.: 704-845-4010 Fax No.: 704-845-4012

**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: _____ Date: 1/16/19
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (08/2017)

**COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER**

# Water Well Record
## Bureau of Water

dhec

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

*Note: Personal information provided on this document is subject to public scrutiny or release.*

**1. WELL OWNER INFORMATION:**
Name: Easler, Marty (last) (first)
Address: 196 Richburg Road
City: Greelyville State: SC Zip:
Telephone: Work: Home: (843) 372-2502

**2. LOCATION OF WELL:** RW-2 **COUNTY:** Williamsburg
Name: Tisdale's Quick Stop
Street Address: 1989 Thurgood Marshall Blvd
City: Kingstree Zip:
Latitude: 33.6579897 N Longitude: -79.8127613 W

**3. PUBLIC SYSTEM NAME:** **PUBLIC SYSTEM NUMBER:**

**4. ABANDONMENT:** ☐ Yes ☑ No
Give Details Below
Grouted Depth: from _____ ft. to _____ ft.

| Formation Description | *Thickness of Stratum | Depth to Bottom of Stratum |
|---|---|---|
| Black Organic Sand | 1' | 1' |
| Gray Sandy Clay | 9' | 10' |
| Gray Sand | 10' | 20' |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| *Indicate Water Bearing Zones (Use a 2nd sheet if needed) | | |

**5. REMARKS:**
Bentonite 6' to 8'

**6. TYPE:** ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

**7. PERMIT NUMBER:** UST Permit #18686; UMW-27138

**8. USE:**
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

**9. WELL DEPTH** (completed) 20 ft. Date Started: 1/16/19 Date Completed: 1/16/19

**10. CASING:** ☑ Threaded ☐ Welded
Diam.: 4"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0 in. to 10 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below ✓
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

**11. SCREEN:**
Type: PVC Diam.: 4"
Slot/Gauge: 0.010 Length: 10'
Set Between: 10 ft. and 20 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

**12. STATIC WATER LEVEL** N/A 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 20 ft.
Effective size _____ Uniformity Coefficient _____

**16. WELL GROUTED?** ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 6 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** _____ ft. _____ direction
Type Petroleum
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:** Samuel Bowers **CERT. NO.:** 1737
Address: (Print) 3502 Hayes Rd, Monroe, NC 28110
Level: A B C D (circle one) ✓
Telephone No.: 704-845-4010 Fax No.: 704-845-4012

**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: _____ Date: 1/16/19
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (08/2017)

**COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER**

# Water Well Record
## Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

*Note: Personal information provided on this document is subject to public scrutiny or release.*

**1. WELL OWNER INFORMATION:**
Name: Easler, Marty (last) (first)
Address: 196 Richburg Road
City: Greelyville State: SC Zip:
Telephone: Work: Home: (843) 372-2502

**2. LOCATION OF WELL:** RW-3 **COUNTY:** Williamsburg
Name: Tisdale's Quick Stop
Street Address: 1989 Thurgood Marshall Blvd
City: Kingstree Zip:
Latitude: 33.6579897 N Longitude: -79.8127613 W

**3. PUBLIC SYSTEM NAME:** **PUBLIC SYSTEM NUMBER:**

**4. ABANDONMENT:** ☐ Yes ☑ No
Give Details Below
Grouted Depth: from _____ ft. to _____ ft.

| Formation Description | *Thickness of Stratum | Depth to Bottom of Stratum |
|---|---|---|
| Red Sandy Clay | 4' | 4' |
| Red & Brown Clay | 10' | 14' |
| Gray Sand | 6' | 20' |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| *Indicate Water Bearing Zones (Use a 2nd sheet if needed) | | |

**5. REMARKS:**
Bentonite 6' to 8'

**6. TYPE:** ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

**7. PERMIT NUMBER:** UST Permit #18686; UMW-27138

**8. USE:**
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

**9. WELL DEPTH** (completed) Date Started: 1/16/19
20 ft. Date Completed: 1/16/19

**10. CASING:** ☑ Threaded ☐ Welded
Diam.: 4"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0 in. to 10 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below ✓
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

**11. SCREEN:**
Type: PVC Diam.: 4"
Slot/Gauge: 0.010 Length: 10'
Set Between: 10 ft. and 20 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

**12. STATIC WATER LEVEL** N/A 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 20 ft.
Effective size _____ Uniformity Coefficient _____

**16. WELL GROUTED?** ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 6 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** ____ ft. ____ direction
Type Petroleum
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:** Samuel Bowers **CERT. NO.:** 1737
Address: (Print) 3502 Hayes Rd, Monroe, NC 28110
Level: A B C D (circle one) ✓
Telephone No.: 704-845-4010 Fax No.: 704-845-4012

**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: _____ Date: 1/16/19
Well Driller

If D Level Driller, provide supervising driller's name:



**COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER**

# Water Well Record
## Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

***Note:*** *Personal information provided on this document is subject to public scrutiny or release.*

**1. WELL OWNER INFORMATION:**
Name: Easler, Marty (last) (first)
Address: 196 Richburg Road
City: Greelyville State: SC Zip:
Telephone: Work: Home: (843) 372-2502

**2. LOCATION OF WELL:** RW-4 **COUNTY:** Williamsburg
Name: Tisdale's Quick Stop
Street Address: 1989 Thurgood Marshall Blvd
City: Kingstree Zip:
Latitude: 33.6579897 N Longitude: -79.8127613 W

**3. PUBLIC SYSTEM NAME:** **PUBLIC SYSTEM NUMBER:**

**4. ABANDONMENT:** ☐ Yes ☑ No
Give Details Below
Grouted Depth: from _____ ft. to _____ ft.

| Formation Description | *Thickness of Stratum | Depth to Bottom of Stratum |
|---|---|---|
| Red Sandy Clay | 4' | 4' |
| Red & Brown Clay | 10' | 14' |
| Gray Sand | 6' | 20' |
| | | |
| | | |
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| | | |
| | | |
| *Indicate Water Bearing Zones (Use a 2nd sheet if needed) | | |

**5. REMARKS:**
Bentonite 6' to 8'

**6. TYPE:** ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

**7. PERMIT NUMBER:** UST Permit #18686; UMW-27138

**8. USE:**
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

**9. WELL DEPTH** (completed) Date Started: 1/16/19
20 ft. Date Completed: 1/16/19

**10. CASING:** ☑ Threaded ☐ Welded
Diam.: 4"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0 in. to 10 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below ✓
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

**11. SCREEN:**
Type: PVC Diam.: 4"
Slot/Gauge: 0.010 Length: 10'
Set Between: 10 ft. and 20 ft.
_____ ft. and _____ ft.
**NOTE: MULTIPLE SCREENS USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☑ No

**12. STATIC WATER LEVEL** N/A 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 20 ft.
Effective size _____ Uniformity Coefficient _____

**16. WELL GROUTED?** ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 6 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** ____ ft. ____ direction
Type Petroleum
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:** Samuel Bowers **CERT. NO.:** 1737
Address: (Print) 3502 Hayes Rd, Monroe, NC 28110
Level: A B C D (circle one) ✓
Telephone No.: 704-845-4010 Fax No.: 704-845-4012

**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: _____ Date: 1/16/19
Well Driller

If D Level Driller, provide supervising driller's name:



**COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER**

# Well Development Data Verfication Form
## Underground Storage Tank Management Division

Facility Name: Tisdales Quick Stop | Site ID#: 18686

Date: 1/17/19 | Field Personnel: Justin Armentrout

Drilling Company: GRI | Driller's Name: Sammy Bowers

Driller's Certification Number: 1737 | Weather Conditions: Clear

### 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. | B0050626 | serial no. | B0050626 | serial no. B0050626 | serial no. | B0050626 |
| pH=4.0 | 4.0 | standard | 1413 | | NTU=0.0 | 0.0 |
| pH=7.0 | 7.0 | | | | NTU=1.0 | 1.0 |
| pH=10.0 | 10.0 | | | | NTU=10.0 | 10.0 |

### Drilling Method

Hollow Stem Augers ○ | Solid Flight Augers ✓ | Direct Push ○

Air Rotary ○ | Mud Rotary ○ | Sonic ○

Monitoring Well ID# RW 1 | Well Casing Diameter 4" inches | Borehole Diameter 6 inches

Depth to Ground Water (DGW) 5.62 ft. | Screen Length/Slot Size 10 ft./ 0.010 in.

Total Well Depth (TWD) 20.45 ft. | Screen Interval 10 ft. to 20 ft.

Length of water column (LWC=TWD-DGW) 14.83 ft. | Type of Drilling Fluids used: None

Total Gallons of Water Removed: 8 gals. | Drilling Fluids recovered N/A gals.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time (military) | 1050 | 1054 | 1058 | | | | |
| pH (s.u.)* | 6.89 | 6.94 | 6.76 | | | | |
| Specific Conductivity (mmhos/cm)* | 145 | 131 | 99 | | | | |
| Water Temperature ( C)* | 17.08 | 17.43 | 18.85 | | | | |
| Turbidity (NTU) * | 35.3 | +1000 | +1000 | | | | |
| Physical Characteristics (color/odor) | odor | odor | odor | | | | |
| Water Level Measurement (ft) from TOC | 7.21 | 13.63 | Dry | | | | |
| Total Well Depth (ft) from TOC | 20.45' | Same | Same | | | | |
| Cumulative Gallons Removed | 0.75 gals | 4 gals | 8 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 Bailer & Surge Block to develope well if dry allowed to recharge

Driller Signature: [signature] Date: 1-17-19

# Well Development Data Verfication Form
## Underground Storage Tank Management Division

Facility Name: Tisdales Quick Stop  Site ID#: 18686

Date: 1/17/19  Field Personnel: Justin Armentrout

Drilling Company: GRI  Driller's Name: Sammy Bowers

Driller's Certification Number: 1737  Weather Conditions: Clear

### 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. B0050626 | serial no. B0050626 | serial no. B0050626 | serial no. B0050626 |
| pH=4.0 4.0 | standard 1413 | | NTU=0.0 0.0 |
| pH=7.0 7.0 | | | NTU=1.0 1.0 |
| pH=10.0 10.0 | | | NTU=10.0 10.0 |

### Drilling Method

Hollow Stem Augers ○  Solid Flight Augers ✓  Direct Push ○

Air Rotary ○  Mud Rotary ○  Sonic ○

Monitoring Well ID# RW2  Well Casing Diameter 4 inches  Borehole Diameter 6 inches

Depth to Ground Water (DGW) 8.59 ft.  Screen Length/Slot Size 10 ft./ 0.010 in.

Total Well Depth (TWD) 20.50 ft.  Screen Interval 10 ft. to 20 ft.

Length of water column (LWC=TWD-DGW) 11.91 ft.  Type of Drilling Fluids used: none

Total Gallons of Water Removed: 16 gals.  Drilling Fluids recovered N/A gals.

| Time (military) | 1059 | 1103 | 1107 | | | | |
|---|---|---|---|---|---|---|---|
| pH (s.u.)* | 6.12 | 6.31 | 6.41 | | | | |
| Specific Conductivity (mmhos/cm)* | 243 | 249 | 167 | | | | |
| Water Temperature ( C)* | 15.88 | 16.60 | 17.29 | | | | |
| Turbidity (NTU) * | +1000 | +1000 | +1000 | | | | |
| Physical Characteristics (color/odor) | odor | odor | odor | | | | |
| Water Level Measurement (ft) from TOC | 9.98 | 15.25 | Dry | | | | |
| Total Well Depth (ft) from TOC | 2050' | same | same | | | | |
| Cumulative Gallons Removed | .25 gals | 3 gals | 6 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 bailer & Surge Block to develope well, if dry allowed to recharge

Driller Signature: [signature]  Date: 1-17-19

# Well Development Data Verfication Form
## Underground Storage Tank Management Division

Facility Name: Tisdales Quick Stop
Site ID#: 18686
Date: 1/17/19
Field Personnel: Justin Armentrout
Drilling Company: GRI
Driller's Name: Sammy Bowers
Driller's Certification Number: 1737
Weather Conditions: clear

### 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
serial no. B0050626
pH=4.0 4.0
pH=7.0 7.0
pH=10.0 10.0

Conductivity meter
serial no. B0050626
standard 1413

Temperature meter
serial no. B0050626

Turbidity meter
serial no. B0050626
NTU=0.0 0.0
NTU=1.0 1.0
NTU=10.0 10.0

### Drilling Method

Hollow Stem Augers ○ Solid Flight Augers ✓ Direct Push ○
Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# RW 4 Well Casing Diameter 4 inches Borehole Diameter 6 inches
Depth to Ground Water (DGW) 12.84' ft. Screen Length/Slot Size 10 ft./ 0.010 in.
Total Well Depth (TWD) 19.92 ft. Screen Interval 10 ft. to 20 ft.
Length of water column (LWC=TWD-DGW) 7.08 ft. Type of Drilling Fluids used: None
Total Gallons of Water Removed: 4 gals. Drilling Fluids recovered N/A gals.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time (military) | 1149 | 1152 | 1156 | | | | |
| pH (s.u.)* | 6.25 | 6.08 | 5.90 | | | | |
| Specific Conductivity (mmhos/cm)* | 93 | 89 | 82 | | | | |
| Water Temperature ( C)* | 19.04 | 19.76 | 19.91 | | | | |
| Turbidity (NTU) * | +1000 | +1000 | +1000 | | | | |
| Physical Characteristics (color/odor) | odor | odor | odor | | | | |
| Water Level Measurement (ft) from TOC | 13.48 | 19.28 | dry | | | | |
| Total Well Depth (ft) from TOC | 19.92 | same | same | | | | |
| Cumulative Gallons Removed | 0.25 gals | 2 gals | 4 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 bailer + surge block to develope well, if dry let allowed to recharge

Driller Signature: [signature] Date: 1-17-19

# APPENDIX B

## Well Installation Soil and Water 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.: NOT APPLICABLE

Manifest Document No.: W19081

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: HERA INC.

6. US EPA ID Number: NCR000139816

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: HERA INC
303 S. MANNSBY ST
WHITEVILLE NC 28472

10. US EPA ID Number: NCR000139816

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. IDW Solids - NON HAZARDOUS | 4 | DM | 2000 | P |
| b. | | | | |
| c. | | | | |
| d. | | | | |

G. Additonal Descriptions for Materials Listed Above: (HERA JOB # W19081)

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: FRANKLIN D. TIMMONS

Signature

Date: Month 1 Day 28 Year 19

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Kevin Gann

Signature

Date: Month 1 Day 28 Year 19

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: CHRIS Gosselin

Signature

Date: Month 1 Day 28 Year 19

**NON-HAZARDOUS WASTE**

F-14 © 2002 LABELMASTER ®(800) 621-5808 www.labelmaster.com

PRINTED ON RECYCLED PAPER USING SOYBEAN INK

PRINTED WITH SOY INK

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.: N/A

Manifest Document No.: W 19081

2. Page 1 of

3. Generator's Name and Mailing Address: TISDALE'S QUICK STOP
1881 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:
HERR, INC.
303 S. MAULTSBY ST.
WHITEVILLE, NC 28472

10. US EPA ID Number: NCR-000139816

E. State Facility's ID

F. Facility's Phone: 910-640-2607

| 11. WASTE DESCRIPTION | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt./Vol. |
|---|---|---|---|---|
| a. NON-REG. PETROLEUM CONTACT WATER | | DM | 18 | GAL |
| b. | | | | |
| c. | | | | |
| d. | | | | |

GENERATOR

G. Additonal Descriptions for Materials Listed Above: (HERR Job # W-19081)

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 | Signature | Date: Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Kevin Gann | Signature: Kevin Gann | Date: Month 1 Day 28 Year 19

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 maifest, except as noted in item 19.

Printed/Typed Name: Ryan Cox | Signature: Ryan Cox | Date: Month 1 Day 28 Year 19

## APPENDIX C

**AFVR Reports, Calculations, Disposal Manifests/Stick Readings, Tank Charts, Photographs**

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

Thursday, March 14, 2019

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 February 18-22, 2019. Included is the documentation for the event. The 96-hour event was conducted on monitoring wells RW-1, RW-2, and MW-2A.

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

Sincerely,

Ryan Cox
HERR Project Manager

Tisdale's Quick Stop
Kingstree, SC
February 18-22, 2019

## AFVR

HERR mobilized personnel and equipment to Tisdale's Quick Stop on 02/18/19. The ambient temperature was 45 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 839.943 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 21,827 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

| 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 |
|---|---|---|---|---|---|---|
| RW-1 | N/A | 9.91 | N/A | 19.03 | | |
| RW-2 | N/A | 9.16 | N/A | 17.49 | | |
| MW-2A | N/A | 11.54 | N/A | 14.67 | | |
| | | | | | | |
| | | | | | 21,827 gallons | |

# Aggressive Fluid/Vapor Recovery Notes

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

| | RW-1 | RW-2 | MW-2A | | 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 |
| 2/18/19 A8:30 | 25 | 25 | 25 | | | | | |
| 9:00 | 25 | 25 | 25 | | | | | |
| 9:30 | 25 | 25 | 25 | | | | | |
| 10:00 | 25 | 25 | 25 | | | | | |
| 10:30 | 25 | 25 | 25 | | | | | |
| 11:00 | 25 | 25 | 25 | | | | | |
| 11:30 | 25 | 25 | 25 | | | | | |
| P12:00 | 25 | 25 | 25 | | | | | |
| 12:30 | 25 | 25 | 25 | | | | | |
| 1:00 | 25 | 25 | 25 | | | | | |
| 1:30 | 25 | 25 | 25 | | | | | |
| 2:00 | 25 | 25 | 25 | | | | | |
| 2:30 | 25 | 25 | 25 | | | | | |
| 3:00 | 25 | 25 | 25 | | | | | |
| 3:30 | 25 | 25 | 25 | | | | | |
| 4:00 | 25 | 25 | 25 | | | | | |
| 4:30 | 25 | 25 | 25 | | | | | |
| 5:30 | 25 | 25 | 25 | | | | | |
| 6:30 | 25 | 25 | 25 | | | | | |
| 7:30 | 25 | 25 | 25 | | | | | |
| 8:30 | 25 | 25 | 25 | | | | | |
| 9:30 | 25 | 25 | 25 | | | | | |
| 10:30 | 25 | 25 | 25 | | | | | |
| 11:30 | 25 | 25 | 25 | | | | | |
| A12:00 | 25 | 25 | 25 | | | | | |
| 2/19/19 A8:00 | 25 | 25 | 25 | | | | | |
| 10:00 | 25 | 25 | 25 | | | | | |
| P12:00 | 25 | 25 | 25 | | | | | |
| 2:00 | 25 | 25 | 25 | | | | | |
| 4:00 | 25 | 25 | 25 | | | | | |
| 6:00 | 25 | 25 | 25 | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 8:00 | 25 | 25 | 25 | | | | | |
| 10:00 | 25 | 25 | 25 | | | | | |
| A12:00 | 25 | 25 | 25 | | | | | |
| 2/20/19 A8:00 | 25 | 25 | 25 | | | | | |
| 10:00 | 25 | 25 | 25 | | | | | |
| P12:00 | 25 | 25 | 25 | | | | | |
| 2:00 | 25 | 25 | 25 | | | | | |
| 4:00 | 25 | 25 | 25 | | | | | |
| 6:00 | 25 | 25 | 25 | | | | | |
| 8:00 | 25 | 25 | 25 | | | | | |
| 10:00 | 25 | 25 | 25 | | | | | |
| A12:00 | 25 | 25 | 25 | | | | | |
| 2/21/19 A8:00 | 25 | 25 | 25 | | | | | |
| 10:00 | 25 | 25 | 25 | | | | | |
| P12:00 | 25 | 25 | 25 | | | | | |
| 2:00 | 25 | 25 | 25 | | | | | |
| 4:00 | 25 | 25 | 25 | | | | | |
| 6:00 | 25 | 25 | 25 | | | | | |
| 8:00 | 25 | 25 | 25 | | | | | |
| 10:00 | 25 | 25 | 25 | | | | | |
| A12:00 | 25 | 25 | 25 | | | | | |
| 2/22/19 A8:00 | 25 | 25 | 25 | | | | | |
| 8:30 | 25 | 25 | 25 | | | | | |

# Aggressive Fluid/Vapor Recovery Notes

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

| | MW-1A | | MW-4A | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | Water Level | Vacuum Influence at Well (in. Hg) | Water Level | Vacuum Influence at Well (in. Hg) | Water Level | Vacuum Influence at Well (in. Hg) | Water Level | Vacuum Influence at Well (in. Hg) |
| 2/18/19 A8:30 | 11.31 | 2 | 11.24 | 1 | | | | |
| 9:00 | | 2 | | 1 | | | | |
| 9:30 | | 2 | | 1 | | | | |
| 10:00 | | 2 | | 1 | | | | |
| 10:30 | | 2 | | 1 | | | | |
| 11:00 | | 2 | | 1 | | | | |
| 11:30 | | 2 | | 1 | | | | |
| P12:00 | | 2 | | 1 | | | | |
| 12:30 | | 2 | | 1 | | | | |
| 1:00 | | 2 | | 1 | | | | |
| 1:30 | | 2 | | 1 | | | | |
| 2:00 | | 2 | | 1 | | | | |
| 2:30 | | 2 | | 1 | | | | |
| 3:00 | | 2 | | 1 | | | | |
| 3:30 | | 2.5 | | 1.5 | | | | |
| 4:00 | | 2.5 | | 1.5 | | | | |
| 4:30 | | 2.5 | | 1.5 | | | | |
| 5:30 | | 2.5 | | 1.5 | | | | |
| 6:30 | | 2.5 | | 1.5 | | | | |
| 7:30 | | 2.5 | | 1.5 | | | | |
| 8:30 | | 2.5 | | 1.5 | | | | |
| 9:30 | | 2.5 | | 1.5 | | | | |
| 10:30 | | 2.5 | | 1.5 | | | | |
| 11:30 | | 2.5 | | 1.5 | | | | |
| A12:00 | | 2.5 | | 1.5 | | | | |
| 2/19/19 A8:00 | | 2.5 | | 1.5 | | | | |
| 10:00 | | 2.5 | | 1.5 | | | | |
| P12:00 | | 2.5 | | 1.5 | | | | |
| 2:00 | | 2.5 | | 1.5 | | | | |
| 4:00 | | 2.5 | | 1.5 | | | | |
| 6:00 | | 2.5 | | 1.5 | | | | |
| 8:00 | | 2.5 | | 1.5 | | | | |
| 10:00 | | 2.5 | | 1.5 | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| A12:00 | | 2.5 | | 1.5 | | | | |
| 2/20/19 A8:00 | | 2.5 | | 1.5 | | | | |
| 10:00 | | 2.5 | | 1.5 | | | | |
| P12:00 | | 2.5 | | 1.5 | | | | |
| 2:00 | | 2.5 | | 1.5 | | | | |
| 4:00 | | 2.5 | | 1.5 | | | | |
| 6:00 | | 2.5 | | 1.5 | | | | |
| 8:00 | | 2.5 | | 1.5 | | | | |
| 10:00 | | 2.5 | | 1.5 | | | | |
| A12:00 | | 2.5 | | 1.5 | | | | |
| 2/21/19 A8:00 | | 2.5 | | 1.5 | | | | |
| 10:00 | | 2.5 | | 1.5 | | | | |
| P12:00 | | 2.5 | | 1.5 | | | | |
| 2:00 | | 2.5 | | 1.5 | | | | |
| 4:00 | | 2.5 | | 1.5 | | | | |
| 6:00 | | 2.5 | | 1.5 | | | | |
| 8:00 | | 2.5 | | 1.5 | | | | |
| 10:00 | | 2.5 | | 1.5 | | | | |
| A12:00 | | 2.5 | | 1.5 | | | | |
| 2/22/19 A8:00 | | 2.5 | | 1.5 | | | | |
| 8:30 | 14.04 | 2.5 | 12.43 | 1.5 | | | | |

# 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 |
|---|---|---|---|---|---|---|
| 2/18/19 A8:30 | 3375 | 654 | 3515 | 64.3 | 72.6 | |
| 9:00 | 4389 | 849 | 3170 | 65.4 | 73.3 | |
| 9:30 | 4197 | 823 | 3045 | 67.2 | 73.9 | |
| 10:00 | 4365 | 818 | 2886 | 69.6 | 72.5 | |
| 10:30 | 4352 | 821 | 3334 | 70.1 | 71.3 | |
| 11:00 | 4374 | 844 | 3349 | 72.7 | 70.8 | |
| 11:30 | 4424 | 863 | 3320 | 73.5 | 68.6 | |
| P12:00 | 4291 | 815 | 2711 | 74.8 | 67.1 | |
| 12:30 | 4188 | 801 | 3349 | 76.1 | 65.8 | |
| 1:00 | 4072 | 773 | 3259 | 77.4 | 62.5 | |
| 1:30 | 3954 | 769 | 3376 | 78.9 | 60.9 | |
| 2:00 | 4033 | 747 | 3440 | 79.2 | 59.4 | |
| 2:30 | 4140 | 808 | 3294 | 80.3 | 57.2 | |
| 3:00 | 4228 | 831 | 3079 | 81.3 | 56.1 | |
| 3:30 | 4346 | 846 | 3561 | 82.2 | 54.8 | |
| 4:00 | 4422 | 851 | 3427 | 83.7 | 52.1 | |
| 4:30 | 4327 | 820 | 3397 | 84.0 | 51.4 | |
| 5:30 | 4835 | 923 | 3034 | 81.5 | 48.0 | |
| 6:30 | 4301 | 831 | 2716 | 78.7 | 47.1 | |
| 7:30 | 4273 | 806 | 3258 | 76.8 | 45.9 | |
| 8:30 | 4180 | 793 | 3237 | 74.2 | 43.4 | |
| 9:30 | 4047 | 736 | 3429 | 73.5 | 41.6 | |
| 10:30 | 4164 | 803 | 3333 | 71.2 | 40.2 | |
| 11:30 | 4271 | 815 | 3358 | 68.0 | 39.4 | |
| A12:00 | 4309 | 833 | 3074 | 66.7 | 37.7 | |
| 2/19/19 A8:00 | 4896 | 937 | 3698 | 56.7 | 49.2 | |
| 10:00 | 4623 | 898 | 3956 | 59.0 | 47.6 | |
| P12:00 | 4468 | 824 | 3764 | 61.8 | 45.4 | |
| 2:00 | 4198 | 786 | 3895 | 60.9 | 49.3 | |
| 4:00 | 4472 | 802 | 3156 | 58.2 | 53.7 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 6:00 | 4692 | 879 | 3710 | 53.3 | 60.6 | |
| 8:00 | 4721 | 885 | 3910 | 49.8 | 63.2 | |
| 10:00 | 4125 | 781 | 3506 | 46.7 | 66.4 | |
| A12:00 | 4446 | 832 | 3346 | 44.8 | 69.2 | |
| 2/20/19 A8:00 | 4532 | 841 | 5190 | 46.1 | 75.9 | |
| 10:00 | 4375 | 828 | 4481 | 49.6 | 77.3 | |
| P12:00 | 4421 | 836 | 4505 | 51.7 | 78.9 | |
| 2:00 | 4655 | 852 | 4551 | 54.3 | 80.1 | |
| 4:00 | 4112 | 760 | 5714 | 57.3 | 84.3 | |
| 6:00 | 4264 | 795 | 4845 | 56.9 | 86.3 | |
| 8:00 | 4472 | 804 | 5257 | 53.4 | 87.7 | |
| 10:00 | 4568 | 843 | 4763 | 51.3 | 88.6 | |
| A12:00 | 4017 | 729 | 4468 | 48.6 | 89.7 | |
| 2/21/19 A8:00 | 4631 | 891 | 5310 | 56.3 | 75.4 | |
| 10:00 | 4446 | 825 | 5057 | 58.5 | 78.6 | |
| P12:00 | 4550 | 849 | 6634 | 62.3 | 81.4 | |
| 2:00 | 4391 | 796 | 5329 | 65.7 | 80.2 | |
| 4:00 | 4232 | 776 | 4667 | 69.6 | 78.8 | |
| 6:00 | 4175 | 751 | 6101 | 67.4 | 77.5 | |
| 8:00 | 4340 | 817 | 5267 | 63.9 | 73.1 | |
| 10:00 | 4220 | 779 | 4977 | 61.4 | 70.8 | |
| A12:00 | 4164 | 732 | 4718 | 57.5 | 67.7 | |
| 2/22/19 A8:00 | 4082 | 712 | 5367 | 59.1 | 76.1 | |
| 8:30 | 4167 | 744 | 4513 | 60.4 | 77.3 | |

# 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) |
| 2/18/19 | 8:30 | 3515 | 0.022 | 64.3 | 72.6 | 0.009334688 | 77.15 |
| 2/18/19 | 9:00 | 3170 | 0.022 | 65.4 | 73.3 | 0.009800586 | 69.40 |
| 2/18/19 | 9:30 | 3045 | 0.022 | 67.2 | 73.9 | 0.010529129 | 66.39 |
| 2/18/19 | 10:00 | 2886 | 0.022 | 69.6 | 72.5 | 0.011229876 | 62.59 |
| 2/18/19 | 10:30 | 3334 | 0.022 | 70.1 | 71.3 | 0.011234229 | 72.24 |
| 2/18/19 | 11:00 | 3349 | 0.022 | 72.7 | 70.8 | 0.012202477 | 72.14 |
| 2/18/19 | 11:30 | 3320 | 0.022 | 73.5 | 68.6 | 0.012145019 | 71.41 |
| 2/18/19 | 12:00 | 2711 | 0.022 | 74.8 | 67.1 | 0.012413847 | 58.15 |
| 2/18/19 | 12:30 | 3349 | 0.022 | 76.1 | 65.8 | 0.012718619 | 71.64 |
| 2/18/19 | 1:00 | 3259 | 0.022 | 77.4 | 62.5 | 0.012610681 | 69.56 |
| 2/18/19 | 1:30 | 3376 | 0.022 | 78.9 | 60.9 | 0.012916831 | 71.83 |
| 2/18/19 | 2:00 | 3440 | 0.022 | 79.2 | 59.4 | 0.012719439 | 73.17 |
| 2/18/19 | 2:30 | 3294 | 0.022 | 80.3 | 57.2 | 0.012697012 | 69.92 |
| 2/18/19 | 3:00 | 3079 | 0.022 | 81.3 | 56.1 | 0.012868885 | 65.22 |
| 2/18/19 | 3:30 | 3561 | 0.022 | 82.2 | 54.8 | 0.012944921 | 75.30 |
| 2/18/19 | 4:00 | 3427 | 0.022 | 83.7 | 52.1 | 0.012917537 | 72.27 |
| 2/18/19 | 4:30 | 3397 | 0.022 | 84.0 | 51.4 | 0.012866570 | 71.60 |
| 2/18/19 | 5:30 | 3034 | 0.022 | 81.5 | 48.0 | 0.011050903 | 64.36 |
| 2/18/19 | 6:30 | 2716 | 0.022 | 78.7 | 47.1 | 0.009876892 | 57.99 |
| 2/18/19 | 7:30 | 3258 | 0.022 | 76.8 | 45.9 | 0.009027884 | 69.86 |
| 2/18/19 | 8:30 | 3237 | 0.022 | 74.2 | 43.4 | 0.007812504 | 69.84 |
| 2/18/19 | 9:30 | 3429 | 0.022 | 73.5 | 41.6 | 0.007308741 | 74.11 |
| 2/18/19 | 10:30 | 3333 | 0.022 | 71.2 | 40.2 | 0.006526702 | 72.41 |
| 2/18/19 | 11:30 | 3358 | 0.022 | 68.0 | 39.4 | 0.005726792 | 73.45 |
| 2/19/19 | 12:00 | 3074 | 0.022 | 66.7 | 37.7 | 0.005235193 | 67.44 |
| 2/19/19 | 8:00 | 3698 | 0.022 | 56.7 | 49.2 | 0.004793577 | 82.74 |
| 2/19/19 | 10:00 | 3956 | 0.022 | 59.0 | 47.6 | 0.005039542 | 88.10 |
| 2/19/19 | 12:00 | 3764 | 0.022 | 61.8 | 45.4 | 0.005312186 | 83.35 |
| 2/19/19 | 2:00 | 3895 | 0.022 | 60.9 | 49.3 | 0.005590028 | 86.37 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2/19/19 | 4:00 | 3156 | 0.022 | 58.2 | 53.7 | 0.005528974 | 70.35 |
| 2/19/19 | 6:00 | 3710 | 0.022 | 53.3 | 60.6 | 0.005220334 | 83.52 |
| 2/19/19 | 8:00 | 3910 | 0.022 | 49.8 | 63.2 | 0.004780192 | 88.67 |
| 2/19/19 | 10:00 | 3506 | 0.022 | 46.7 | 66.4 | 0.004468664 | 80.02 |
| 2/20/19 | 12:00 | 3346 | 0.022 | 44.8 | 69.2 | 0.004332335 | 76.66 |
| 2/20/19 | 8:00 | 5190 | 0.022 | 46.1 | 75.9 | 0.004997613 | 118.53 |
| 2/20/19 | 10:00 | 4481 | 0.022 | 49.6 | 77.3 | 0.005812799 | 101.55 |
| 2/20/19 | 12:00 | 4505 | 0.022 | 51.7 | 78.9 | 0.006420256 | 101.61 |
| 2/20/19 | 2:00 | 4551 | 0.022 | 54.3 | 80.1 | 0.007179749 | 102.05 |
| 2/20/19 | 4:00 | 5714 | 0.022 | 57.3 | 84.3 | 0.008442049 | 127.23 |
| 2/20/19 | 6:00 | 4845 | 0.022 | 56.9 | 86.3 | 0.008519561 | 107.95 |
| 2/20/19 | 8:00 | 5257 | 0.022 | 53.4 | 87.7 | 0.007611506 | 118.04 |
| 2/20/19 | 10:00 | 4763 | 0.022 | 51.3 | 88.6 | 0.007111533 | 107.44 |
| 2/21/19 | 12:00 | 4468 | 0.022 | 48.6 | 89.7 | 0.006504997 | 101.38 |
| 2/21/19 | 8:00 | 5310 | 0.022 | 56.3 | 75.4 | 0.007269328 | 118.60 |
| 2/21/19 | 10:00 | 5057 | 0.022 | 58.5 | 78.6 | 0.008215288 | 112.36 |
| 2/21/19 | 12:00 | 6634 | 0.022 | 62.3 | 81.4 | 0.009762910 | 146.10 |
| 2/21/19 | 2:00 | 5329 | 0.022 | 65.7 | 80.2 | 0.010853677 | 116.47 |
| 2/21/19 | 4:00 | 4667 | 0.022 | 69.6 | 78.8 | 0.012224893 | 101.11 |
| 2/21/19 | 6:00 | 6101 | 0.022 | 67.4 | 77.5 | 0.011129087 | 132.88 |
| 2/21/19 | 8:00 | 5267 | 0.022 | 63.9 | 73.1 | 0.009267333 | 115.70 |
| 2/21/19 | 10:00 | 4977 | 0.022 | 61.4 | 70.8 | 0.008205471 | 109.97 |
| 2/22/19 | 12:00 | 4718 | 0.022 | 57.5 | 67.7 | 0.006811040 | 105.18 |
| 2/22/19 | 8:00 | 5367 | 0.022 | 59.1 | 76.1 | 0.008125582 | 119.12 |
| 2/22/19 | 8:30 | 4513 | 0.022 | 60.4 | 77.3 | 0.008652606 | 99.86 |
| Averages | | 3992.70 | 0.022 | 65.07 | 65.26 | 0.008794427 | 87.821 |

**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 | 77.15 | 3375 | 1 | 3375 | 17947.65 | 0.001120472 | 5.187 | 0.000 |
| 30 | 30 | 69.40 | 4389 | 1 | 4389 | 23339.93 | 0.001457112 | 6.067 | 3.034 |
| 30 | 60 | 66.39 | 4197 | 1 | 4197 | 22318.90 | 0.001393369 | 5.550 | 2.775 |
| 30 | 90 | 62.59 | 4365 | 1 | 4365 | 23212.30 | 0.001449144 | 5.442 | 2.721 |
| 30 | 120 | 72.24 | 4352 | 1 | 4352 | 23143.17 | 0.001444828 | 6.262 | 3.131 |
| 30 | 150 | 72.14 | 4374 | 1 | 4374 | 23260.16 | 0.001452132 | 6.285 | 3.143 |
| 30 | 180 | 71.41 | 4424 | 1 | 4424 | 23526.05 | 0.001468731 | 6.293 | 3.146 |
| 30 | 210 | 58.15 | 4291 | 1 | 4291 | 22818.78 | 0.001424576 | 4.971 | 2.485 |
| 30 | 240 | 71.64 | 4188 | 1 | 4188 | 22271.04 | 0.001390381 | 5.977 | 2.988 |
| 30 | 270 | 69.56 | 4072 | 1 | 4072 | 21654.18 | 0.001351870 | 5.642 | 2.821 |
| 30 | 300 | 71.83 | 3954 | 1 | 3954 | 21026.67 | 0.001312695 | 5.657 | 2.829 |
| 30 | 330 | 73.17 | 4033 | 1 | 4033 | 21446.78 | 0.001338922 | 5.878 | 2.939 |
| 30 | 360 | 69.92 | 4140 | 1 | 4140 | 22015.79 | 0.001374446 | 5.766 | 2.883 |
| 30 | 390 | 65.22 | 4228 | 1 | 4228 | 22483.76 | 0.001403661 | 5.493 | 2.747 |
| 30 | 420 | 75.30 | 4346 | 1 | 4346 | 23111.26 | 0.001442836 | 6.519 | 3.259 |
| 30 | 450 | 72.27 | 4422 | 1 | 4422 | 23515.41 | 0.001468067 | 6.366 | 3.183 |
| 30 | 480 | 71.60 | 4327 | 1 | 4327 | 23010.22 | 0.001436528 | 6.172 | 3.086 |
| 60 | 540 | 64.36 | 4835 | 1 | 4835 | 25711.67 | 0.001605180 | 6.199 | 6.199 |
| 60 | 600 | 57.99 | 4301 | 1 | 4301 | 22871.96 | 0.001427896 | 4.968 | 4.968 |
| 60 | 660 | 69.86 | 4273 | 1 | 4273 | 22723.06 | 0.001418600 | 5.947 | 5.947 |
| 60 | 720 | 69.84 | 4180 | 1 | 4180 | 22228.50 | 0.001387725 | 5.815 | 5.815 |
| 60 | 780 | 74.11 | 4047 | 1 | 4047 | 21521.23 | 0.001343570 | 5.975 | 5.975 |
| 60 | 840 | 72.41 | 4164 | 1 | 4164 | 22143.42 | 0.001382413 | 6.006 | 6.006 |
| 60 | 900 | 73.45 | 4271 | 1 | 4271 | 22712.42 | 0.001417937 | 6.249 | 6.249 |
| 30 | 930 | 67.44 | 4309 | 1 | 4309 | 22914.50 | 0.001430552 | 5.789 | 2.894 |
| 480 | 1410 | 82.74 | 4896 | 1 | 4896 | 26036.06 | 0.001625431 | 8.069 | 64.552 |
| 120 | 1530 | 88.10 | 4623 | 1 | 4623 | 24584.30 | 0.001534798 | 8.112 | 16.225 |
| 120 | 1650 | 83.35 | 4468 | 1 | 4468 | 23760.03 | 0.001483339 | 7.418 | 14.836 |
| 120 | 1770 | 86.37 | 4198 | 1 | 4198 | 22324.22 | 0.001393701 | 7.223 | 14.445 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 120 | 1890 | 70.35 | 4472 | 1 | 4472 | 23781.30 | 0.001484667 | 6.267 | 12.534 |
| 120 | 2010 | 83.52 | 4692 | 1 | 4692 | 24951.23 | 0.001557705 | 7.806 | 15.612 |
| 120 | 2130 | 88.67 | 4721 | 1 | 4721 | 25105.44 | 0.001567333 | 8.338 | 16.676 |
| 120 | 2250 | 80.02 | 4125 | 1 | 4125 | 21936.02 | 0.001369466 | 6.575 | 13.149 |
| 120 | 2370 | 76.66 | 4446 | 1 | 4446 | 23643.04 | 0.001476035 | 6.789 | 13.579 |
| 480 | 2850 | 118.53 | 4532 | 1 | 4532 | 24100.37 | 0.001504586 | 10.700 | 85.599 |
| 120 | 2970 | 101.55 | 4375 | 1 | 4375 | 23265.48 | 0.001452464 | 8.850 | 17.699 |
| 120 | 3090 | 101.61 | 4421 | 1 | 4421 | 23510.10 | 0.001467735 | 8.948 | 17.896 |
| 120 | 3210 | 102.05 | 4655 | 1 | 4655 | 24754.47 | 0.001545421 | 9.463 | 18.925 |
| 120 | 3330 | 127.23 | 4112 | 1 | 4112 | 21866.89 | 0.001365150 | 10.421 | 20.842 |
| 120 | 3450 | 107.95 | 4264 | 1 | 4264 | 22675.20 | 0.001415613 | 9.169 | 18.338 |
| 120 | 3570 | 118.04 | 4472 | 1 | 4472 | 23781.30 | 0.001484667 | 10.515 | 21.030 |
| 120 | 3690 | 107.44 | 4568 | 1 | 4568 | 24291.82 | 0.001516538 | 9.776 | 19.552 |
| 120 | 3810 | 101.38 | 4017 | 1 | 4017 | 21361.70 | 0.001333611 | 8.112 | 16.224 |
| 480 | 4290 | 118.60 | 4631 | 1 | 4631 | 24626.84 | 0.001537454 | 10.940 | 87.523 |
| 120 | 4410 | 112.36 | 4446 | 1 | 4446 | 23643.04 | 0.001476035 | 9.951 | 19.902 |
| 120 | 4530 | 146.10 | 4550 | 1 | 4550 | 24196.09 | 0.001510562 | 13.242 | 26.483 |
| 120 | 4650 | 116.47 | 4391 | 1 | 4391 | 23350.56 | 0.001457776 | 10.187 | 20.375 |
| 120 | 4770 | 101.11 | 4232 | 1 | 4232 | 22505.03 | 0.001404989 | 8.524 | 17.047 |
| 120 | 4890 | 132.88 | 4175 | 1 | 4175 | 22201.91 | 0.001386065 | 11.051 | 22.102 |
| 120 | 5010 | 115.70 | 4340 | 1 | 4340 | 23079.35 | 0.001440844 | 10.002 | 20.004 |
| 120 | 5130 | 109.97 | 4220 | 1 | 4220 | 22441.21 | 0.001401005 | 9.244 | 18.488 |
| 120 | 5250 | 105.18 | 4164 | 1 | 4164 | 22143.42 | 0.001382413 | 8.724 | 17.448 |
| 480 | 5730 | 119.12 | 4082 | 1 | 4082 | 21707.35 | 0.001355190 | 9.686 | 77.488 |
| 30 | 5760 | 99.86 | 4167 | 1 | 4167 | 22159.37 | 0.001383409 | 8.289 | 4.145 |
| Averages | | 87.82 | 4320.59 | 1.00 | 4320.59 | 22976.15 | 0.001434401 | 7.572 | 15.554 |
| | | | | | | | Total Emission in pounds: | | 839.943 |

**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.: A-19170 -1

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:

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:
HERR, INC
303 S. MAULTSBY ST
WHITEVILLE, NC 28472

10. US EPA ID Number: NCR-000139816

E. State Facility's ID:

F. Facility's Phone: 910-640-2607

GENERATOR

| 11. WASTE DESCRIPTION | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt./Vol. |
|---|---|---|---|---|
| a. NON-REG. PETROLEUM CONTACT WATER Ht-1 | | | T/L 5,199 | GAL |
| b. 948 | | | 50 41 | |
| c. | | | | |
| d. | | | | |

G. Additonal 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: Brody Williams

Signature:

Date: Month 2 Day 19 Year 19

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DALE FOWLER

Signature:

Date: Month 2 Day 19 Year 19

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: Ican Ca

Signature:

Date: Month 2 Day 19 Year 19

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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.: A-19170-2

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, INC.

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:
HERR, INC
303 S. MAULTSBY ST
WHITEVILLE, NC 28472

10. US EPA ID Number: NCR-000139816

E. State Facility's ID

F. Facility's Phone: 910-640-2607

GENERATOR

| 11. WASTE DESCRIPTION | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt./Vol. |
|---|---|---|---|---|
| a. NON-REG. PETROLEUM CONTACT WATER HH-1 | | TT | T/L 5,199 | GAL |
| b. 946 | | | 50" | |
| c. | | | | |
| d. | | | | |

G. Additonal 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: Brody Williams

Signature

Date: Month 2 | Day 20 | Year 19

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DALE FOWLER

Signature

Date: Month 2 | Day 20 | Year 19

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 OT

Signature

Date: Month 2 | Day 21 | Year 19

# 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.: A-19170-3

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

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: HERR, INC, 303 S. MAULTSBY ST, WHITEVILLE, NC 28472

10. US EPA ID Number: NCR-000139816

E. State Facility's ID

F. Facility's Phone: 910-640-2607

GENERATOR

| 11. WASTE DESCRIPTION | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt./Vol. |
|---|---|---|---|---|
| a. NON-REG. PETROLEUM CONTACT WATER Ht-1 | | TT | T/L 5,288 | GAL |
| b. 948 | | | 51 " | |
| c. | | | | |
| d. | | | | |

G. Additonal 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: Brody Williams | Signature | Date: Month 2 Day 21 Year 19

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DALE FOWLER | Signature | Date: Month 2 Day 21 Year 19

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: JOHN COX | Signature | Date: Month 2 Day 21 Year 19

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.: A-19170-4

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, INC.

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: HERR, INC, 303 S. MAULTSBY ST, WHITEVILLE, NC 28472

10. US EPA ID Number: NCR-000139816

E. State Facility's ID

F. Facility's Phone: 910-640-2607

GENERATOR

| 11. WASTE DESCRIPTION | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt./Vol. |
|---|---|---|---|---|
| a. NON-REG. PETROLEUM CONTACT WATER HH-1 | | TT | T/L 6,141 | GAL |
| b. 946 | | | 4911 | |
| c. | | | | |
| d. | | | | |

G. Additonal 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: Brody Williams — Signature — Date: Month 2 | Day 22 | Year 19

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DALE FOWLER — Signature — Date: Month 2 | Day 22 | Year 19

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 2 | Day 22 | Year 19

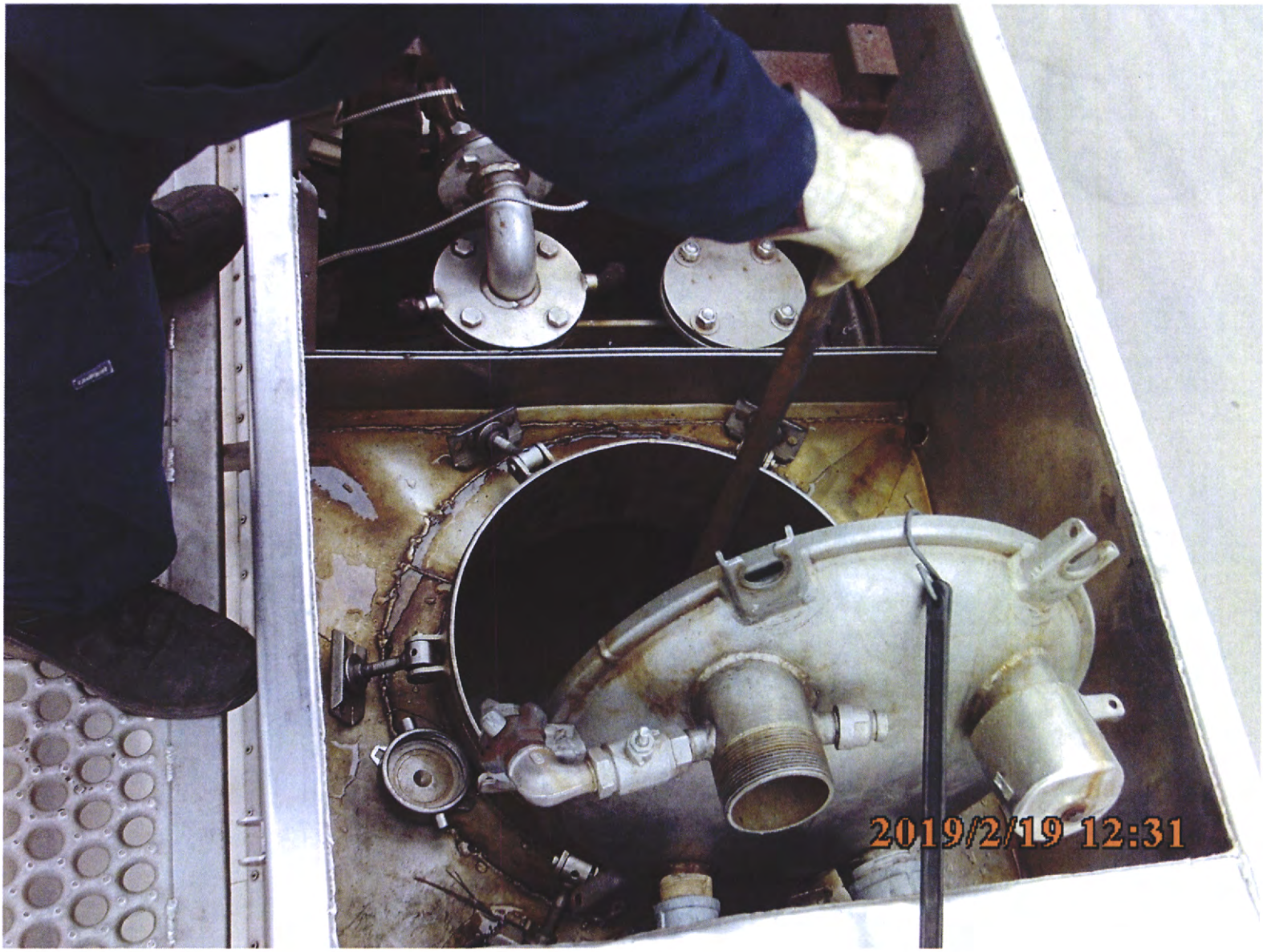
Heil Tanker Trailer
Tanker # 948
VIN: H37851
Nominal Capacity: 5800 gallons

| 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 | | |

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 | | |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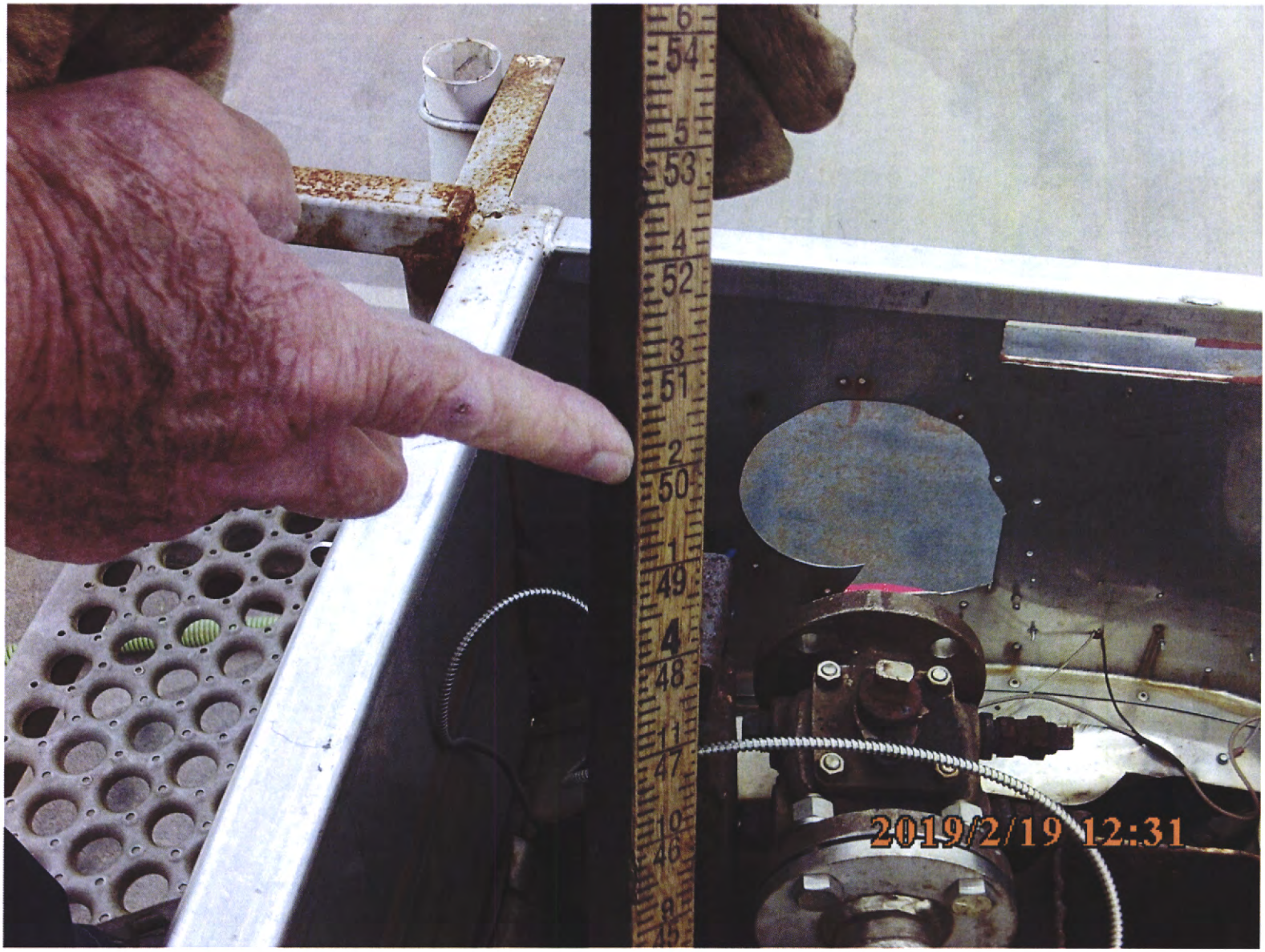
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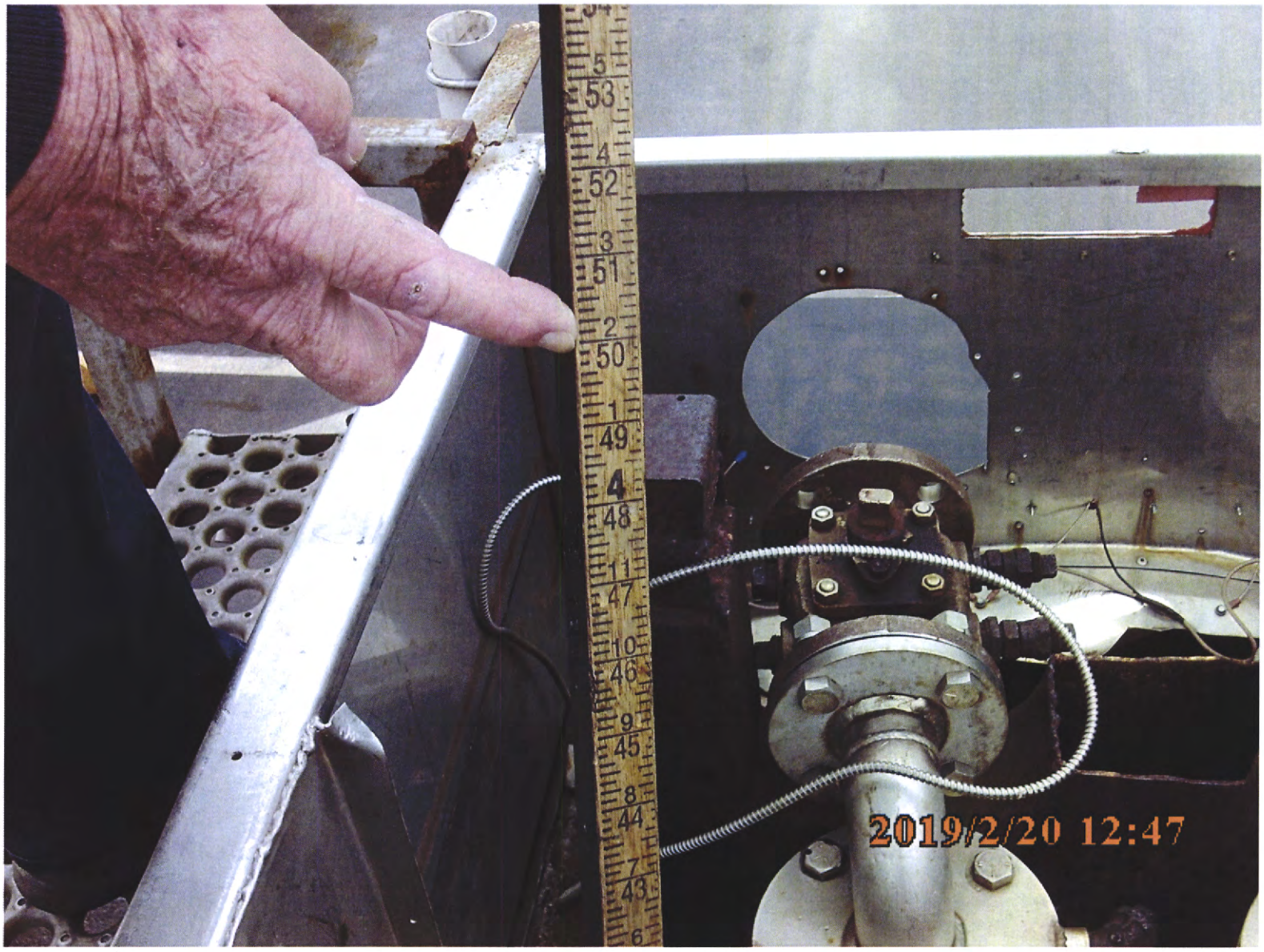
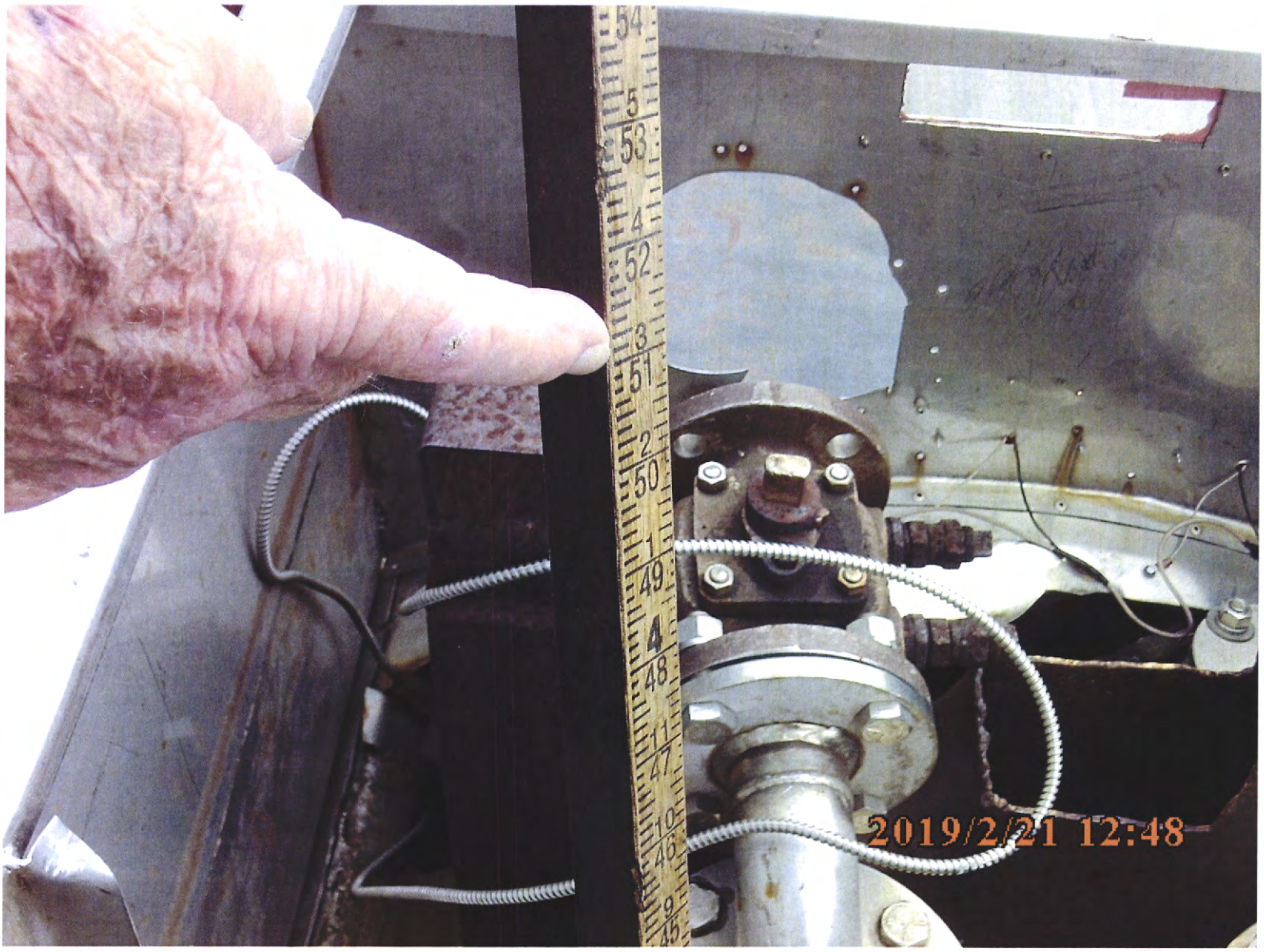
2019/2/20 12:47


2019/2/20 12:47

2019/2/21 12:48


2019/2/21 12:48

2019/2/22 12:26

52
3
51
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49
4
48
11
47
10
46
9
45
8
44
2019/2/22 12:27

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, March 15, 2019

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 February 25 – March 1, 2019. Included is the documentation for the event. The 96-hour event was conducted on monitoring wells RW-3, RW-4, and MW-16R.

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

Sincerely,

Ryan Cox
HERR Project Manager

Tisdale's Quick Stop
Kingstree, SC
February 25- March 1, 2019

## AFVR

HERR mobilized personnel and equipment to Tisdale's Quick Stop on 02/25/19. The ambient temperature was 47 degrees F and weather conditions were 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 539.746 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 3,315 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

| 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-16R | N/A | 12.6 | N/A | 12.9 | | |
| RW-4 | N/A | 12.74 | N/A | 12.67 | | |
| RW-3 | N/A | 12.75 | N/A | 12.85 | | |
| | | | | | | |
| | | | | | 3,315 gallons | |

# Aggressive Fluid/Vapor Recovery Notes

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

| | MW-16R | RW-4 | RW-3 | | 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 |
| 2/25/19 A8:30 | 25 | 25 | 25 | | | | | |
| 9:00 | 25 | 25 | 25 | | | | | |
| 9:30 | 25 | 25 | 25 | | | | | |
| 10:00 | 25 | 25 | 25 | | | | | |
| 10:30 | 25 | 25 | 25 | | | | | |
| 11:00 | 25 | 25 | 25 | | | | | |
| 11:30 | 25 | 25 | 25 | | | | | |
| P12:00 | 25 | 25 | 25 | | | | | |
| 12:30 | 25 | 25 | 25 | | | | | |
| 1:00 | 25 | 25 | 25 | | | | | |
| 1:30 | 25 | 25 | 25 | | | | | |
| 2:00 | 25 | 25 | 25 | | | | | |
| 2:30 | 25 | 25 | 25 | | | | | |
| 3:00 | 25 | 25 | 25 | | | | | |
| 3:30 | 25 | 25 | 25 | | | | | |
| 4:00 | 25 | 25 | 25 | | | | | |
| 4:30 | 25 | 25 | 25 | | | | | |
| 5:30 | 25 | 25 | 25 | | | | | |
| 6:30 | 25 | 25 | 25 | | | | | |
| 7:30 | 25 | 25 | 25 | | | | | |
| 8:30 | 25 | 25 | 25 | | | | | |
| 9:30 | 25 | 25 | 25 | | | | | |
| 10:30 | 25 | 25 | 25 | | | | | |
| 11:30 | 25 | 25 | 25 | | | | | |
| A12:00 | 25 | 25 | 25 | | | | | |
| 2/26/19 A8:00 | 25 | 25 | 25 | | | | | |
| 10:00 | 25 | 25 | 25 | | | | | |
| P12:00 | 25 | 25 | 25 | | | | | |
| 2:00 | 25 | 25 | 25 | | | | | |
| 4:00 | 25 | 25 | 25 | | | | | |
| 6:00 | 25 | 25 | 25 | | | | | |
| 8:00 | 25 | 25 | 25 | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 10:00 | 25 | 25 | 25 | | | | | |
| A12:00 | 25 | 25 | 25 | | | | | |
| 2/27/19 A8:00 | 25 | 25 | 25 | | | | | |
| 10:00 | 25 | 25 | 25 | | | | | |
| P12:00 | 25 | 25 | 25 | | | | | |
| 2:00 | 25 | 25 | 25 | | | | | |
| 4:00 | 25 | 25 | 25 | | | | | |
| 6:00 | 25 | 25 | 25 | | | | | |
| 8:00 | 25 | 25 | 25 | | | | | |
| 10:00 | 25 | 25 | 25 | | | | | |
| A12:00 | 25 | 25 | 25 | | | | | |
| 2/28/19 A8:00 | 25 | 25 | 25 | | | | | |
| 10:00 | 25 | 25 | 25 | | | | | |
| P12:00 | 25 | 25 | 25 | | | | | |
| 2:00 | 25 | 25 | 25 | | | | | |
| 4:00 | 25 | 25 | 25 | | | | | |
| 6:00 | 25 | 25 | 25 | | | | | |
| 8:00 | 25 | 25 | 25 | | | | | |
| 10:00 | 25 | 25 | 25 | | | | | |
| A12:00 | 25 | 25 | 25 | | | | | |
| 3/1/19 A8:00 | 25 | 25 | 25 | | | | | |
| 8:30 | 25 | 25 | 25 | | | | | |

# Aggressive Fluid/Vapor Recovery Notes

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

| | MW-18R | | MW-2A | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | Water Level | Vacuum Influence at Well (in. Hg) | Water Level | Vacuum Influence at Well (in. Hg) | Water Level | Vacuum Influence at Well (in. Hg) | Water Level | Vacuum Influence at Well (in. Hg) |
| 2/25/19 A8:30 | 13.86 | 0.5 | 12.53 | 1 | | | | |
| 9:00 | | 0.5 | | 1 | | | | |
| 9:30 | | 0.5 | | 1 | | | | |
| 10:00 | | 0.5 | | 1 | | | | |
| 10:30 | | 0.5 | | 1 | | | | |
| 11:00 | | 0.5 | | 1 | | | | |
| 11:30 | | 0.5 | | 1 | | | | |
| P12:00 | | 0.5 | | 1 | | | | |
| 12:30 | | 0.5 | | 1 | | | | |
| 1:00 | | 0.5 | | 1 | | | | |
| 1:30 | | 0.5 | | 1 | | | | |
| 2:00 | | 0.5 | | 1 | | | | |
| 2:30 | | 0.5 | | 1 | | | | |
| 3:00 | | 0.5 | | 1 | | | | |
| 3:30 | | 0.5 | | 1 | | | | |
| 4:00 | | 0.5 | | 1 | | | | |
| 4:30 | | 0.5 | | 1 | | | | |
| 5:30 | | 0.5 | | 1 | | | | |
| 6:30 | | 0.5 | | 1 | | | | |
| 7:30 | | 0.5 | | 1 | | | | |
| 8:30 | | 0.5 | | 1 | | | | |
| 9:30 | | 0.5 | | 1 | | | | |
| 10:30 | | 0.5 | | 1 | | | | |
| 11:30 | | 0.5 | | 1 | | | | |
| A12:00 | | 0.5 | | 1 | | | | |
| 2/26/19 A8:00 | | 0.5 | | 1 | | | | |
| 10:00 | | 0.5 | | 1 | | | | |
| P12:00 | | 0.5 | | 1 | | | | |
| 2:00 | | 0.5 | | 1 | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4:00 | | 0.5 | | 1 | | | | |
| 6:00 | | 0.5 | | 1 | | | | |
| 8:00 | | 0.5 | | 1 | | | | |
| 10:00 | | 0.5 | | 1 | | | | |
| A12:00 | | 0.5 | | 1 | | | | |
| 2/27/19 A8:00 | | 0.5 | | 1 | | | | |
| 10:00 | | 0.5 | | 1 | | | | |
| P12:00 | | 0.5 | | 1 | | | | |
| 2:00 | | 0.5 | | 1 | | | | |
| 4:00 | | 0.5 | | 1 | | | | |
| 6:00 | | 0.5 | | 1 | | | | |
| 8:00 | | 0.5 | | 1 | | | | |
| 10:00 | | 0.5 | | 1 | | | | |
| A12:00 | | 0.5 | | 1 | | | | |
| 2/28/19 A8:00 | | 0.5 | | 1 | | | | |
| 10:00 | | 0.5 | | 1 | | | | |
| P12:00 | | 0.5 | | 1 | | | | |
| 2:00 | | 0.5 | | 1 | | | | |
| 4:00 | | 0.5 | | 1 | | | | |
| 6:00 | | 0.5 | | 1 | | | | |
| 8:00 | | 0.5 | | 1 | | | | |
| 10:00 | | 0.5 | | 1 | | | | |
| A12:00 | | 0.5 | | 1 | | | | |
| 3/1/19 A8:00 | | 0.5 | | 1 | | | | |
| 8:30 | 14.59 | 0.5 | 12.81 | 1 | | | | |

# 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 |
|---|---|---|---|---|---|---|
| 2/25/19 A8:30 | 475.8 | 82.5 | 4092 | 46.3 | 60.1 | |
| 9:00 | 458.6 | 78.6 | 3867 | 48.2 | 62.6 | |
| 9:30 | 420.8 | 68.9 | 3660 | 49.6 | 61.4 | |
| 10:00 | 402.1 | 64.1 | 3657 | 51.7 | 60.3 | |
| 10:30 | 398.5 | 49.7 | 3422 | 52.1 | 58.6 | |
| 11:00 | 392.4 | 51.2 | 3557 | 54.6 | 57.5 | |
| 11:30 | 586.3 | 91.7 | 3532 | 55.8 | 55.2 | |
| P12:00 | 673.5 | 114.5 | 3529 | 56.0 | 54.1 | |
| 12:30 | 761.2 | 136.2 | 3465 | 57.3 | 52.9 | |
| 1:00 | 924.1 | 169.7 | 3536 | 58.2 | 51.4 | |
| 1:30 | 1110 | 192.3 | 3026 | 60.2 | 50.7 | |
| 2:00 | 1201 | 214.8 | 3105 | 61.7 | 49.3 | |
| 2:30 | 1368 | 256.7 | 3048 | 63.6 | 47.2 | |
| 3:00 | 1535 | 272.3 | 3055 | 64.8 | 45.8 | |
| 3:30 | 1727 | 289.1 | 3108 | 66.4 | 44.2 | |
| 4:00 | 1966 | 302.3 | 3068 | 67.9 | 42.4 | |
| 4:30 | 2392 | 374.5 | 3151 | 68.3 | 41.8 | |
| 5:30 | 2977 | 562.7 | 3709 | 67.5 | 40.7 | |
| 6:30 | 3106 | 591.8 | 3654 | 65.8 | 38.4 | |
| 7:30 | 3476 | 621.7 | 3677 | 64.7 | 37.2 | |
| 8:30 | 3767 | 648.2 | 3591 | 63.4 | 39.0 | |
| 9:30 | 4105 | 727.8 | 3497 | 61.2 | 41.7 | |
| 10:30 | 4299 | 804.9 | 2688 | 60.5 | 43.2 | |
| 11:30 | 4406 | 826.5 | 2615 | 59.1 | 44.8 | |
| A12:00 | 4594 | 859.8 | 2834 | 58.4 | 45.6 | |
| 2/26/19 A8:00 | 4845 | 887.6 | 2791 | 66.2 | 39.8 | |
| 10:00 | 4604 | 872.1 | 2802 | 68.9 | 41.6 | |
| P12:00 | 4518 | 835.7 | 2495 | 71.1 | 42.8 | |
| 2:00 | 4187 | 730.2 | 2462 | 73.9 | 44.4 | |
| 4:00 | 4085 | 728.9 | 3160 | 71.8 | 49.6 | |
| 6:00 | 4604 | 842.6 | 3215 | 68.7 | 57.8 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 8:00 | 4419 | 786.4 | 3436 | 66.5 | 61.1 | |
| 10:00 | 4229 | 747.3 | 3230 | 64.1 | 63.6 | |
| A12:00 | 4356 | 782.3 | 3165 | 60.9 | 65.1 | |
| 2/27/19 A8:00 | 4524 | 831.9 | 3159 | 62.5 | 74.3 | |
| 10:00 | 4361 | 793.1 | 3286 | 69.4 | 77.7 | |
| P12:00 | 4879 | 933.7 | 3376 | 73.2 | 72.8 | |
| 2:00 | 4762 | 884.5 | 3326 | 77.8 | 63.2 | |
| 4:00 | 4693 | 846.8 | 3032 | 80.4 | 68.4 | |
| 6:00 | 4544 | 824.9 | 3333 | 78.6 | 74.9 | |
| 8:00 | 4278 | 796.7 | 3297 | 74.7 | 80.6 | |
| 10:00 | 4786 | 914.5 | 3231 | 71.3 | 84.8 | |
| A12:00 | 4532 | 831.6 | 3354 | 68.9 | 89.8 | |
| 2/28/19 A8:00 | 4121 | 789.8 | 3322 | 72.5 | 52.0 | |
| 10:00 | 4356 | 807.4 | 3304 | 78.2 | 48.6 | |
| P12:00 | 4648 | 884.3 | 3220 | 83.9 | 45.9 | |
| 2:00 | 4304 | 829.1 | 3201 | 85.7 | 49.4 | |
| 4:00 | 4433 | 857.5 | 3376 | 81.3 | 56.9 | |
| 6:00 | 4567 | 868.3 | 3354 | 76.8 | 63.7 | |
| 8:00 | 4328 | 815.9 | 3304 | 70.4 | 68.9 | |
| 10:00 | 4262 | 766.2 | 3406 | 68.8 | 74.6 | |
| A12:00 | 4253 | 763.9 | 3726 | 63.4 | 81.9 | |
| 3/1/19 A8:00 | 4352 | 786.5 | 2902 | 61.5 | 58.3 | |
| 8:30 | 4456 | 836.4 | 3037 | 62.9 | 60.1 | |

# 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) |
| 2/25/19 | 8:30 | 4092 | 0.022 | 46.3 | 60.1 | 0.003980875 | 93.51 |
| 2/25/19 | 9:00 | 3867 | 0.022 | 48.2 | 62.6 | 0.004457587 | 87.99 |
| 2/25/19 | 9:30 | 3660 | 0.022 | 49.6 | 61.4 | 0.004608294 | 83.04 |
| 2/25/19 | 10:00 | 3657 | 0.022 | 51.7 | 60.3 | 0.004894825 | 82.61 |
| 2/25/19 | 10:30 | 3422 | 0.022 | 52.1 | 58.6 | 0.004827058 | 77.25 |
| 2/25/19 | 11:00 | 3557 | 0.022 | 54.6 | 57.5 | 0.005194303 | 79.87 |
| 2/25/19 | 11:30 | 3532 | 0.022 | 55.8 | 55.2 | 0.005209160 | 79.13 |
| 2/25/19 | 12:00 | 3529 | 0.022 | 56.0 | 54.1 | 0.005141969 | 79.04 |
| 2/25/19 | 12:30 | 3465 | 0.022 | 57.3 | 52.9 | 0.005270914 | 77.40 |
| 2/25/19 | 1:00 | 3536 | 0.022 | 58.2 | 51.4 | 0.005290151 | 78.84 |
| 2/25/19 | 1:30 | 3026 | 0.022 | 60.2 | 50.7 | 0.005607680 | 67.19 |
| 2/25/19 | 2:00 | 3105 | 0.022 | 61.7 | 49.3 | 0.005752193 | 68.74 |
| 2/25/19 | 2:30 | 3048 | 0.022 | 63.6 | 47.2 | 0.005889560 | 67.22 |
| 2/25/19 | 3:00 | 3055 | 0.022 | 64.8 | 45.8 | 0.005960545 | 67.22 |
| 2/25/19 | 3:30 | 3108 | 0.022 | 66.4 | 44.2 | 0.006082586 | 68.17 |
| 2/25/19 | 4:00 | 3068 | 0.022 | 67.9 | 42.4 | 0.006145764 | 67.09 |
| 2/25/19 | 4:30 | 3151 | 0.022 | 68.3 | 41.8 | 0.006142708 | 68.86 |
| 2/25/19 | 5:30 | 3709 | 0.022 | 67.5 | 40.7 | 0.005815541 | 81.20 |
| 2/25/19 | 6:30 | 3654 | 0.022 | 65.8 | 38.4 | 0.005168011 | 80.31 |
| 2/25/19 | 7:30 | 3677 | 0.022 | 64.7 | 37.2 | 0.004815654 | 81.01 |
| 2/25/19 | 8:30 | 3591 | 0.022 | 63.4 | 39.0 | 0.004824144 | 79.31 |
| 2/25/19 | 9:30 | 3497 | 0.022 | 61.2 | 41.7 | 0.004772625 | 77.57 |
| 2/25/19 | 10:30 | 2688 | 0.022 | 60.5 | 43.2 | 0.004823366 | 59.70 |
| 2/25/19 | 11:30 | 2615 | 0.022 | 59.1 | 44.8 | 0.004757957 | 58.24 |
| 2/26/19 | 12:00 | 2834 | 0.022 | 58.4 | 45.6 | 0.004722740 | 63.20 |
| 2/26/19 | 8:00 | 2791 | 0.022 | 66.2 | 39.8 | 0.005433617 | 61.28 |
| 2/26/19 | 10:00 | 2802 | 0.022 | 68.9 | 41.6 | 0.006241508 | 61.16 |
| 2/26/19 | 12:00 | 2495 | 0.022 | 71.1 | 42.8 | 0.006929714 | 54.19 |
| 2/26/19 | 2:00 | 2462 | 0.022 | 73.9 | 44.4 | 0.007913781 | 53.14 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2/26/19 | 4:00 | 3160 | 0.022 | 71.8 | 49.6 | 0.008240739 | 68.45 |
| 2/26/19 | 6:00 | 3215 | 0.022 | 68.7 | 57.8 | 0.008645777 | 70.03 |
| 2/26/19 | 8:00 | 3436 | 0.022 | 66.5 | 61.1 | 0.008469525 | 75.17 |
| 2/26/19 | 10:00 | 3230 | 0.022 | 64.1 | 63.6 | 0.008104662 | 71.01 |
| 2/27/19 | 12:00 | 3165 | 0.022 | 60.9 | 65.1 | 0.007402880 | 70.06 |
| 2/27/19 | 8:00 | 3159 | 0.022 | 62.5 | 74.3 | 0.008963047 | 69.60 |
| 2/27/19 | 10:00 | 3286 | 0.022 | 69.4 | 77.7 | 0.011967224 | 71.24 |
| 2/27/19 | 12:00 | 3376 | 0.022 | 73.2 | 72.8 | 0.012771801 | 72.61 |
| 2/27/19 | 2:00 | 3326 | 0.022 | 77.8 | 63.2 | 0.012928005 | 70.91 |
| 2/27/19 | 4:00 | 3032 | 0.022 | 80.4 | 68.4 | 0.015295157 | 64.18 |
| 2/27/19 | 6:00 | 3333 | 0.022 | 78.6 | 74.9 | 0.015801784 | 70.75 |
| 2/27/19 | 8:00 | 3297 | 0.022 | 74.7 | 80.6 | 0.014920359 | 70.56 |
| 2/27/19 | 10:00 | 3231 | 0.022 | 71.3 | 84.8 | 0.013978356 | 69.65 |
| 2/28/19 | 12:00 | 3354 | 0.022 | 68.9 | 89.8 | 0.013631746 | 72.66 |
| 2/28/19 | 8:00 | 3322 | 0.022 | 72.5 | 52.0 | 0.008855005 | 71.82 |
| 2/28/19 | 10:00 | 3304 | 0.022 | 78.2 | 48.6 | 0.010027469 | 70.60 |
| 2/28/19 | 12:00 | 3220 | 0.022 | 83.9 | 45.9 | 0.011426928 | 67.98 |
| 2/28/19 | 2:00 | 3201 | 0.022 | 85.7 | 49.4 | 0.013062291 | 67.25 |
| 2/28/19 | 4:00 | 3376 | 0.022 | 81.3 | 56.9 | 0.013056251 | 71.50 |
| 2/28/19 | 6:00 | 3354 | 0.022 | 76.8 | 63.7 | 0.012599813 | 71.66 |
| 2/28/19 | 8:00 | 3304 | 0.022 | 70.4 | 68.9 | 0.010962952 | 71.57 |
| 2/28/19 | 10:00 | 3406 | 0.022 | 68.8 | 74.6 | 0.011243197 | 73.98 |
| 3/1/19 | 12:00 | 3726 | 0.022 | 63.4 | 81.9 | 0.010217876 | 81.85 |
| 3/1/19 | 8:00 | 2902 | 0.022 | 61.5 | 58.3 | 0.006765230 | 64.20 |
| 3/1/19 | 8:30 | 3037 | 0.022 | 62.9 | 60.1 | 0.007333899 | 66.97 |
| Averages | | 3267.50 | 0.022 | 65.88 | 56.27 | 0.008024941 | 71.661 |

**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 | 93.51 | 475.8 | 1 | 475.8 | 2530.22 | 0.000157962 | 0.886 | 0.000 |
| 30 | 30 | 87.99 | 458.6 | 1 | 458.6 | 2438.75 | 0.000152251 | 0.804 | 0.402 |
| 30 | 60 | 83.04 | 420.8 | 1 | 420.8 | 2237.74 | 0.000139702 | 0.696 | 0.348 |
| 30 | 90 | 82.61 | 402.1 | 1 | 402.1 | 2138.30 | 0.000133494 | 0.662 | 0.331 |
| 30 | 120 | 77.25 | 398.5 | 1 | 398.5 | 2119.15 | 0.000132299 | 0.613 | 0.307 |
| 30 | 150 | 79.87 | 392.4 | 1 | 392.4 | 2086.71 | 0.000130274 | 0.624 | 0.312 |
| 30 | 180 | 79.13 | 586.3 | 1 | 586.3 | 3117.84 | 0.000194647 | 0.924 | 0.462 |
| 30 | 210 | 79.04 | 673.5 | 1 | 673.5 | 3581.55 | 0.000223596 | 1.060 | 0.530 |
| 30 | 240 | 77.40 | 761.2 | 1 | 761.2 | 4047.93 | 0.000252712 | 1.174 | 0.587 |
| 30 | 270 | 78.84 | 924.1 | 1 | 924.1 | 4914.20 | 0.000306794 | 1.451 | 0.726 |
| 30 | 300 | 67.19 | 1110 | 1 | 1110 | 5902.78 | 0.000368511 | 1.486 | 0.743 |
| 30 | 330 | 68.74 | 1201 | 1 | 1201 | 6386.71 | 0.000398722 | 1.644 | 0.822 |
| 30 | 360 | 67.22 | 1368 | 1 | 1368 | 7274.78 | 0.000454165 | 1.832 | 0.916 |
| 30 | 390 | 67.22 | 1535 | 1 | 1535 | 8162.86 | 0.000509607 | 2.055 | 1.028 |
| 30 | 420 | 68.17 | 1727 | 1 | 1727 | 9183.88 | 0.000573350 | 2.345 | 1.172 |
| 30 | 450 | 67.09 | 1966 | 1 | 1966 | 10454.84 | 0.000652696 | 2.628 | 1.314 |
| 30 | 480 | 68.86 | 2392 | 1 | 2392 | 12720.23 | 0.000794124 | 3.281 | 1.640 |
| 60 | 540 | 81.20 | 2977 | 1 | 2977 | 15831.16 | 0.000988339 | 4.815 | 4.815 |
| 60 | 600 | 80.31 | 3106 | 1 | 3106 | 16517.16 | 0.001031166 | 4.969 | 4.969 |
| 60 | 660 | 81.01 | 3476 | 1 | 3476 | 18484.75 | 0.001154003 | 5.609 | 5.609 |
| 60 | 720 | 79.31 | 3767 | 1 | 3767 | 20032.24 | 0.001250613 | 5.951 | 5.951 |
| 60 | 780 | 77.57 | 4105 | 1 | 4105 | 21829.66 | 0.001362826 | 6.343 | 6.343 |
| 60 | 840 | 59.70 | 4299 | 1 | 4299 | 22861.32 | 0.001427232 | 5.112 | 5.112 |
| 60 | 900 | 58.24 | 4406 | 1 | 4406 | 23430.33 | 0.001462755 | 5.111 | 5.111 |
| 30 | 930 | 63.20 | 4594 | 1 | 4594 | 24430.08 | 0.001525170 | 5.784 | 2.892 |
| 480 | 1410 | 61.28 | 4845 | 1 | 4845 | 25764.85 | 0.001608500 | 5.914 | 47.311 |
| 120 | 1530 | 61.16 | 4604 | 1 | 4604 | 24483.26 | 0.001528490 | 5.608 | 11.217 |
| 120 | 1650 | 54.19 | 4518 | 1 | 4518 | 24025.92 | 0.001499938 | 4.877 | 9.754 |
| 120 | 1770 | 53.14 | 4187 | 1 | 4187 | 22265.72 | 0.001390049 | 4.432 | 8.864 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 120 | 1890 | 68.45 | 4085 | 1 | 4085 | 21723.31 | 0.001356186 | 5.570 | 11.140 |
| 120 | 2010 | 70.03 | 4604 | 1 | 4604 | 24483.26 | 0.001528490 | 6.422 | 12.844 |
| 120 | 2130 | 75.17 | 4419 | 1 | 4419 | 23499.46 | 0.001467071 | 6.616 | 13.233 |
| 120 | 2250 | 71.01 | 4229 | 1 | 4229 | 22489.07 | 0.001403993 | 5.982 | 11.963 |
| 120 | 2370 | 70.06 | 4356 | 1 | 4356 | 23164.44 | 0.001446156 | 6.079 | 12.158 |
| 480 | 2850 | 69.60 | 4524 | 1 | 4524 | 24057.83 | 0.001501930 | 6.272 | 50.177 |
| 120 | 2970 | 71.24 | 4361 | 1 | 4361 | 23191.03 | 0.001447816 | 6.188 | 12.377 |
| 120 | 3090 | 72.61 | 4879 | 1 | 4879 | 25945.66 | 0.001619787 | 7.057 | 14.113 |
| 120 | 3210 | 70.91 | 4762 | 1 | 4762 | 25323.47 | 0.001580944 | 6.726 | 13.453 |
| 120 | 3330 | 64.18 | 4693 | 1 | 4693 | 24956.54 | 0.001558037 | 5.999 | 11.999 |
| 120 | 3450 | 70.75 | 4544 | 1 | 4544 | 24164.19 | 0.001508570 | 6.404 | 12.807 |
| 120 | 3570 | 70.56 | 4278 | 1 | 4278 | 22749.65 | 0.001420260 | 6.013 | 12.025 |
| 120 | 3690 | 69.65 | 4786 | 1 | 4786 | 25451.10 | 0.001588912 | 6.640 | 13.281 |
| 120 | 3810 | 72.66 | 4532 | 1 | 4532 | 24100.37 | 0.001504586 | 6.559 | 13.118 |
| 480 | 4290 | 71.82 | 4121 | 1 | 4121 | 21914.75 | 0.001368138 | 5.896 | 47.168 |
| 120 | 4410 | 70.60 | 4356 | 1 | 4356 | 23164.44 | 0.001446156 | 6.126 | 12.251 |
| 120 | 4530 | 67.98 | 4648 | 1 | 4648 | 24717.24 | 0.001543097 | 6.294 | 12.589 |
| 120 | 4650 | 67.25 | 4304 | 1 | 4304 | 22887.91 | 0.001428892 | 5.765 | 11.531 |
| 120 | 4770 | 71.50 | 4433 | 1 | 4433 | 23573.91 | 0.001471719 | 6.314 | 12.628 |
| 120 | 4890 | 71.66 | 4567 | 1 | 4567 | 24286.50 | 0.001516206 | 6.519 | 13.039 |
| 120 | 5010 | 71.57 | 4328 | 1 | 4328 | 23015.54 | 0.001436860 | 6.170 | 12.340 |
| 120 | 5130 | 73.98 | 4262 | 1 | 4262 | 22664.56 | 0.001414949 | 6.280 | 12.561 |
| 120 | 5250 | 81.85 | 4253 | 1 | 4253 | 22616.70 | 0.001411961 | 6.934 | 13.868 |
| 480 | 5730 | 64.20 | 4352 | 1 | 4352 | 23143.17 | 0.001444828 | 5.566 | 44.526 |
| 30 | 5760 | 66.97 | 4456 | 1 | 4456 | 23696.22 | 0.001479355 | 5.944 | 2.972 |
| Averages | | 71.66 | 3274.23 | 1.00 | 3274.23 | 17411.76 | 0.001087016 | 4.538 | 9.995 |
| | | | | | | | Total Emission in pounds: | | 539.746 |

**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.: A-19171

2. Page 1 of

3. Generator's Name and Mailing Address: Tisdale's Quick Stop
1994 Talbrood Marshall Blvd,
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: 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:
HERR, INC
303 S. MAULTSBY ST
WHITEVILLE, NC 28472

10. US EPA ID Number: NCR-000139816

E. State Facility's ID:

F. Facility's Phone: 910-640-2607

| 11. WASTE DESCRIPTION | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt./Vol. |
|---|---|---|---|---|
| a. NON-REG. PETROLEUM CONTACT WATER Hot | | TT | T/L 3,315 | GAL |
| b. 946 | | | 30" | |
| c. | | | | |
| d. | | | | |

GENERATOR

G. Additonal 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: Brody Lilliard — Signature — Date: Month 3 | Day 1 | Year 19

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DALE FOWLER — Signature — Date: Month 3 | Day 1 | Year 19

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 1 | Year 19

NON-HAZARDOUS WASTE

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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 | | |

2019/3/1 12:33

**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.

MARTY EASLER
196 RICHBURG ROAD
GREELEYVILLE SC 29056

JUN 0 6 2019

Re: Site-Specific Work Plan (SSWP) Request for Groundwater Sampling
Tisdale's Quick Stop, 1989 Thurgood Marshall Blvd., Kingstree, SC
UST Permit #18686
Release reported March 30, 2001
AFVR Report received March 28, 2019
Williamsburg County

Dear Mr. Marty 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 your contractor. 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 most recent revision of the UST Quality Assurance Program Plan (QAPP), your 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 monitoring wells 1, 2, 3, 4, 8, 14, 16R, 17R, 22, 23, 1A, 2A, 3A, 4A, and TW-2. Please collect samples from all water supply wells, and surface waters within a 1,000 foot radius of the site and analyzed for BTEX, Naphthalene, MtBE, 1,2-DCA, the 8 oxygenates, and EDB.

**Your contractor must complete the SSWP 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 number referenced above. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-7705, by fax at (803) 898-0673, or by e-mail at wykeljm@dhec.sc.gov.

Sincerely,

Matt Wykel, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Geological Rescources, Inc.,3502 Hayes Road, Monroe, NC 28110
Technical file

Geological Resources, Inc.

July 5, 2019

Mr. Matt Wykel
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. 19-327
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. Wykel:

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

W. Scott Ball
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: Matt Wykel (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 |
| 15 Monitoring Wells | ____ Surface Water | 2 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: NA Estimated Footage: ____ feet per point
# of deep wells: NA Estimated Footage: ____ feet per point
# of recovery wells: NA Estimated Footage: ____ feet per point
Comments, if warranted:

UST Permit #: 18686 Facility Name: Tisdales Quick Stop

**Implementation Schedule** (Number of calendar days from approval)
Field Work Start-Up: 20 days from approval Field Work Completion: 22 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: _____ 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 MW-4, MW-8, MW-14, MW-16R, MW-17R, MW-22, MW-23, MW-1A though MW-4A and TW-2. Sample water supply wells WSW-1 and WSW-3 (if in service).
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
One monitoring well sample will be duplicated and one field blank will be collected.
One WSW sample will be duplicated and a field blank will be collected.

**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 ACQAP? (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

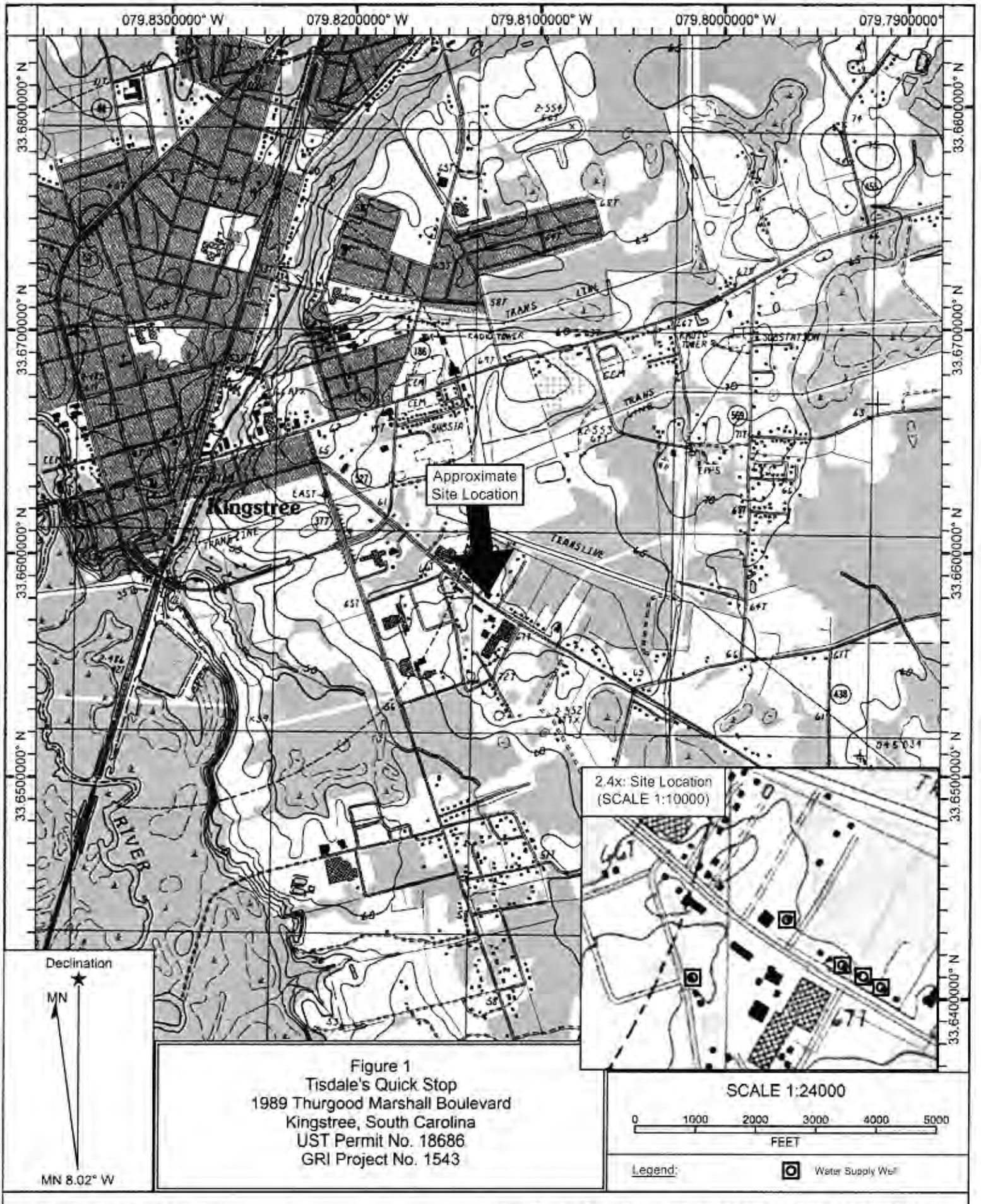


Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit No. 18686
GRI Project No. 1543

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
- 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 (18)
18-055 (19)
18-055 (24)
18-056 (18)
18-056 (19)
11-40 (1)

SALVATION AVE
WARSAW ROAD
SC HIGHWAY 527
LUCKY 777
Shed
Mobile Home
Gate
Open Grass Field
WOODS
CONC
DRIVEWAY
Williamsburg Technical College
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-4
MW-4A
MW-5
MW-5R
MW-6
MW-7
MW-8
MW-9
MW-11R
MW-12RQ
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-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: 06/08/18 | Drawn by: DTH | Figure: 2

Healthy People. Healthy Communities.

**ASSESSMENT COMPONENT COST AGREEMENT**
**SOUTH CAROLINA**
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
June 15, 2017

**Facility Name:** **Tisdale's Quick Stop**

GRI Proposal 19-327

**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 | | each | $423.00 | $0.00 |
| 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 ssample, 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 | 15 | per well/receptor | $60.00 | $900.00 |
| 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 | 16 | per well/receptor | $28.00 | $448.00 |
| 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 |
| I. Groundwater (low flow purge) | | per well/receptor | $91.00 | $0.00 |

| | | | | | |
|---|---|---|---|---|---|
| **11. Laboratory Analyses-Groundwater** | | | | | |
| A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B) | 18 | per sample | $122.00 | | $2,196.00 |
| 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 | 17 | per sample | $45.20 | | $768.40 |
| 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 | 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 Management** | 12% | percent | $6,008.60 | $721.03 |
| **TOTAL** | | | | $6,729.63 |

DHEC 2495 6-2017 *The appropriate mobilization cost can be added to complete these tasks, as necessary

dhec
Healthy People. Healthy Communities.

JUN 1 0 2020

UST DOCKETING

MARTY EASLER
196 RICHBURG ROAD
GREELEYVILLE SC 29056

Re: **Site-Specific Work Plan Approval and Groundwater Sampling Notice to Proceed**
Tisdale's Quick Stop, 1989 Thurgood Marshall Blvd (Hwy 527), Kingstree, SC
UST Permit #18686; CA #61473
Release #1 reported March 30, 2001
Site Specific Work Plan received July 9, 2019
Williamsburg County

Dear Mr. Easler:

The Underground Storage Tank Management Division (UST 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 compliance with the most recent revision of the UST QAPP, your contractor's Annual Contractor Quality Assurance Plan, and all applicable regulations. A copy of the current revision of the UST QAPP is available at https://www.scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance.

The groundwater sampling event should begin immediately upon receipt of this letter. The Cost Agreement number shown above has been approved for the amount shown on the enclosed cost agreement form.

Please note the following changes to the cost agreement and SSWP:

- Modified line 4, B1: added 2 personnel mobilizations
- Modified line 4, D1: added 1 to Groundwater or no purge or duplicate

**The contractor must provide notification to the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes to the schedule, the UST Project Manager must be contacted within 24 hours of those changes.**

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. **The Monitoring Report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the UST Division within sixty (60) days of the date of this correspondence.** 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 the SUPERB Account cannot compensate any costs that are not pre-approved. 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 UST 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 UST 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 a DHEC-certified site rehabilitation contractor as required by the SUPERB Site Rehabilitation and Fund Access Regulation, R.61-98.

The UST 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 by phone at (803) 898-0500, by fax at (803) 898-0673, or by e-mail at brownaj@dhec.sc.gov.

Sincerely,

Arthur Brown, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

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

# Approved Cost Agreement 61473

Facility: 18686 TISDALES QUICK STOP
BROWNAJ
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 | | | | | |
| | | C1 WATER SUPPLY | 2.0000 | $22.000 | 44.00 |
| | | D1 GROUNDWATER NO PURGE/DUPLICATE | 17.0000 | $28.000 | 476.00 |
| | | H1 FIELD BLANK | 2.0000 | $24.600 | 49.20 |
| 11 ANALYSES | | | | | |
| | GW GROUNDWATER | A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B | 18.0000 | $122.000 | 2,196.00 |
| | | F1 EDB BY 8011 | 17.0000 | $45.200 | 768.40 |
| | 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 | 100.0000 | $0.560 | 56.00 |
| 19 RPT/PROJECT MNGT & COORDINATIO | | | | | |
| | | PRT REPORT PREPARATION | 0.1200 | $5,982.600 | 717.91 |
| | | | | **Total Amount** | 6,700.51 |

**Geological Resources, Inc.**

UST
AUG 17 2020
DIVISION

August 12, 2020

UST
12
DOCKETING

Mr Arthur Brown
SCDHEC
UST Management Division
Bureau of Land & Waste Management
2600 Bull Street
Columbia, SC 29201

Re Ground Water Monitoring Report
July 2020
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County
South Carolina
UST Permit Number. 18686
GRI Project No· 1543

Dear Mr. Brown,

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**

Geological Resources, Inc.

UST
AUG 17 2020
DIVISION

Ground Water Monitoring Report
July 2020
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County
South Carolina
UST Permit Number: 18686
GRI Project Number: 1543

Prepared for:

Mr. Marty Easler
196 Richburg Road
Greeleyville, South Carolina 29056

August 12, 2020

JOHN M. BROWN REGISTERED NO. 1116 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

John M. Brown, P.G.
License No. 1116

W. Scott Ball
Project Manager

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
Class 1 UST Site Rehabilitation Contractor #74

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### FIGURES


Figure 1: Site Location Map
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
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: Contractor Checklist

## 1. INTRODUCTION

### 1.1 Project Background

This report presents the results of ground water sampling activities conducted in July 2020 at the Tisdale's Quick Stop site, located at 1989 Thurgood Marshall Boulevard in Kingstree, Williamsburg County, South Carolina (**Figure 1**). The activities were conducted in accordance with the Site Specific Work Plan Approval and Groundwater Sampling Notice to Proceed dated June 1, 2020 from the South Carolina Department of Health and Environmental Control (SCDHEC). The purpose of the activities was to obtain current ground water quality data for the site. The site is a former petroleum retail facility and convenience store. Adjacent properties are currently used for residential and commercial purposes.

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. 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 USTs and one 1,000 gallon diesel UST were removed in March 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.

Five water supply wells (WSW-1 through WSW-5) were identified within 1,000 feet of the source area during a receptor survey conducted in January 2002. WSW-1 is located on an adjacent property approximately 170 feet northeast of the on-site source area. Water supply well WSW-2 is located approximately 650 feet to the southwest of the source area. Currently, WSW-2 is inoperable. Water supply wells WSW-3 through WSW-5 are located to the southeast of the source area on single family residential properties fronting the north side of Highway 527. Each of these properties has access to the municipal water supply, and the wells are not in use or are used for irrigation purposes only. No surface water bodies were identified within a 1,000-foot radius of the site.

The last comprehensive ground water sampling event conducted at the site occurred in April 2018. Four recovery wells (RW-1 through RW-4) were installed in the area of highest contaminant concentrations in January 2019. Two 96-hour AFVR events were conducted in February 2019 on MW-2A, MW-16R, RW-1, RW-2, RW-3 and RW-4 to reduce concentrations of chemicals of concern. This report summarizes the July 2020 ground water monitoring results. Please refer to earlier submittals for additional information regarding previous assessment activities.

### 1.2 Regional Geology/Hydrogeology

The site is located in Williamsburg County in the Lower Coastal Plain Physiographic Province of South Carolina. The Coastal Plain is an extensive geologic province that roughly parallels the Atlantic Ocean and continues northward and southward through the neighboring states. In South Carolina, the Coastal Plain is expressed physiographically in three regional belts: the Upper Coastal Plain, the Middle Coastal Plain and the Lower Coastal Plain. The surface deposits in the Coastal Plain are generally characterized by a recurrent sequence of clean fine to medium sand, muddy fine sand, and clean to muddy, medium to coarse sand or gravelly sand. These textures represent changes in depositional environments from beach, to backbarrier, to river respectively.

The major aquifer systems in the Middle and Lower Coastal Plain are the Middendorf Aquifer System, the Black Creek Aquifer System, the Tertiary Aquifer System and the Surficial Aquifer System. The surficial aquifer system consists mostly of beds of unconsolidated sand, shelly sand and shell. In places, clay beds are sufficiently thick and continuous to divide the system into two or three aquifers; however, the system is mostly undivided. Complex interbedding of fine-and coarse-grained textured rocks is typical of the system. The thickness of the surficial aquifer system is typically less than 50 feet and thickens coastward. The rocks that comprise the surficial aquifer system range from late Miocene to Holocene in age.

## 2. SITE INFORMATION

- **Site Identification**
  - Site Name: Tisdale's Quick Stop
  - Location of Source Area: 1989 Thurgood Marshall Boulevard<br>Kingstree, SC 29526<br>Williamsburg County<br>33.6579897°N, 79.8127613°W (Topographical Map)
  - UST Permit Number: 18686
  - Land Use: Commercial

- **Information about Contacts Associated with the Leaking UST System**

**UST Owner/Operator**
Marty Easler
196 Richburg Road
Greeleyville, SC 29056
(843) 372-2502

**Property Owner**
Andy McKnight (Life)
316 McCullough Loop
Kingstree, SC 29566
(843) 382-2474

**Site Rehabilitation Contractor**
Geological Resources, Inc.
3502 Hayes Road
Monroe, NC 28110
704-845-4010
Class 1, Certification Number 74

**Analytical Laboratory**
SGS North America, Inc.
4405 Vineland Road, Suite C-15
Orlando, FL 32811
State Certification No. 96038001
(407) 425-6700

- **Information about Release**
  - Release was discovered March 30, 2001
  - An unknown amount of product was released from a leaking UST system
  -

Two 550 gallon gasoline USTs and one 1,000 gallon diesel UST were removed March 1, 2001.

## 3. ASSESSMENT INFORMATION

### 3.1 Site Geology/Hydrogeology

Based on information obtained during the site assessment activities, the material encountered during subsurface exploration consisted of various silts, clays and sands to depths of approximately 51 feet, the maximum depth investigated.

Twelve Type III monitoring wells (MW-1 through MW-3, MW-8, MW-14, MW-16R, MW-17R, MW-22, MW-23, MW-1A, MW-2A and MW-4A), one telescoping monitoring well (TW-2) and two water supply wells (WSW-1 and WSW-3) were gauged, purged and/or sampled on July 16, 2020. Please note, MW-3A and MW-4 could not be located, therefore, they were not gauged or sampled. Free product was not observed in any of the monitoring wells during the July 2020 gauging activities.

The depths to ground water in the Type III monitoring wells at the site, measured on July 16, 2020, ranged from 12.22 feet to 13.17 feet below the top of casings. The depth to ground water in the telescoping well was measured to be 12.22 feet below the top of casing. Ground water elevations in the Type III monitoring wells relative to a temporary benchmark of 100.00 ranged from 82.79 to 86.17 feet. Based on this data, the general direction of ground water flow in the Type III wells was toward the west. The ground water elevation in the telescoping well was 83.07 feet. The shallow horizontal hydraulic gradient calculated across the site was less than 0.01 feet/foot. 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 is included as **Figure 3**. A summary of ground water gauging data for the July 2020 sampling event is presented in **Table 1**. A summary of the July 2020 gauging data is shown below:

| Well No. | Top of Casing Elevation (ft) | Depth to Ground Water (ft) | Ground Water Elevation (ft) | Constructed Well Depth (ft) | Screened Interval (ft) |
|---|---|---|---|---|---|
| MW-1 | 98.80 | 12.63 | 86.17 | 20 | 10-20 |
| MW-2 | 98.81 | 12.88 | 85.93 | 25 | 10-25 |
| MW-3 | 98.75 | 12.77 | 85.98 | 25 | 10-25 |
| MW-8 | 98.14 | 12.46 | 85.68 | 22 | 12-22 |
| MW-14 | 98.37 | 12.76 | 85.61 | 25 | 10-25 |
| MW-16R | 97.98 | 12.75 | 85.23 | 25 | 10-25 |
| MW-17R | 96.90 | 12.22 | 84.68 | 25 | 10-25 |
| MW-22 | 96.62 | 13.17 | 83.45 | 25 | 10-25 |
| MW-23 | 95.78 | 12.99 | 82.79 | 24 | 9-24 |
| MW-1A | 97.17 | 12.22 | 84.95 | Unknown | Unknown |
| MW-2A | 97.28 | 12.36 | 84.92 | Unknown | Unknown |
| MW-4A | 98.07 | 12.69 | 85.38 | Unknown | Unknown |
| TW-2 | 95.29 | 12.22 | 83.07 | 51 | 46-51 |

### 3.2 Ground Water Quality

Field readings (pH, specific conductivity, temperature, dissolved oxygen, and turbidity) were collected from the purged wells after each well volume was removed and recorded on field data information sheets. Ground water samples collected from the monitoring wells were analyzed for the following compounds: BTEX, MTBE, naphthalene, 1, 2-DCA and 8 oxygenates by EPA Method 8260D and EDB by Method 8011. The ground water samples collected from the water supply wells were submitted for analyses of BTEX, MTBE, naphthalene, 1, 2-DCA by Method 524.2, 8 oxygenates by Method 8260D and EDB by Method 504.1.

Concentrations of benzene, toluene and/or naphthalene that exceeded the RBSLs were reported in the ground water samples collected from MW-1, MW-2, MW-16R, MW-17R, MW-1A, MW-2A, and MW-4A.

Concentrations of the oxygenate TAA that exceeded the action level were reported in ground water samples collected from MW-1, MW-2, MW-1A, MW-2A and MW-4A. No detectable concentrations of requested method constituents were reported in the samples collected from water supply well samples WSW-1 or WSW-3. A summary of the July 2020 ground water sampling data is shown below:

| Well No. | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | Naphthalene | 1,2-DCA |
|---|---|---|---|---|---|---|---|
| RBSL (µg/l) | 5 | 1,000 | 700 | 10,000 | 40 | 25 | 5 |
| MW-1 | **101** | 437 | 98.7 | 654 | <1.1 | **45.7** | <1.6 |
| MW-2 | **1,100** | 390 | 197 | 937 | <4.6 | **68.8 J** | <6.2 |
| MW-3 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-8 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-14 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-16R | **209** | **4,420** | 652 | 5,340 | <11 | **54.9 J** | <16 |
| MW-17R | **26.2** | 325 | 87.1 | 387 | 4.3 J | 13.6 J | <1.6 |
| MW-22 | <0.31 | <0.30 | <0.36 | <0.72 | 0.58 J | <1.0 | <0.31 |
| MW-23 | <0.31 | <0.30 | <0.36 | <0.72 | 4.6 | <1.0 | <0.31 |
| MW-1A | **869** | **2,180** | 50.5 | 1,840 | <5.7 | <25 | <7.8 |
| MW-2A | **3,970** | **9,330** | 571 | 5,290 | <11 | **272** | <16 |
| MW-4A | **3,560** | **10,800** | 289 | 4,560 | <46 | <200 | <62 |
| TW-2 | 1.5 | <0.30 | <0.36 | <0.72 | 0.67 J | <1.0 | <0.31 |
| WSW-1 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 |
| WSW-3 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 |

A Ground Water Quality Map based on data from the July 2020 sampling event has been included as **Figure 4**. Summaries of ground water analytical results are presented in **Table 2** and **Table 3**. A complete laboratory analytical report has been included as **Appendix A**. Field Data Information Sheets are attached as **Appendix B**.

## 4. 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 sampled with dedicated disposable bailers. All field measurement equipment was properly decontaminated between sampling locations. Duplicate samples from monitoring well MW-1 (DUP A) and from water supply well WSW-1 (DUP B), and a field blank were collected during the sampling activities. Laboratory provided trip blanks were included in the sample cooler. Laboratory results for each sample and their respective duplicate sample showed the same compounds at similar concentrations. No detectable concentrations of requested method constituents were reported in the field blanks or trip blanks. All applicable items on the Contractor Checklist were reviewed and verified. A copy of the Contractor Checklist is included as **Appendix C**.

## 5. CONCLUSIONS AND RECOMMENDATIONS

- Twelve Type III monitoring wells, one telescoping monitoring well and two water supply wells were gauged, purged and/or sampled on July 16, 2020.

- The depth to ground water measured in the Type III monitoring wells ranged from 12.22 feet to 13.17 feet below the top of casings. The ground water flow across the site was generally toward the west. The shallow horizontal hydraulic gradient was less than 0.01 ft/ft.
- Concentrations of benzene, toluene and/or naphthalene that exceeded the RBSLs were reported in the ground water samples collected from MW-1, MW-2, MW-16R, MW-17R, MW-1A, MW-2A, and MW-4A. Concentrations of the oxygenate TAA that exceeded the action level were reported in ground water samples MW-1, MW-2, MW-1A, MW-2A and MW-4A.
- GRI makes the following recommendations:
    - Additional AFVR events should be conducted to reduce concentrations of chemicals of concern.
    - Due to the presence of nearby water supply wells, ground water sampling events should continue at the site as directed by SCDHEC.

## 6. 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

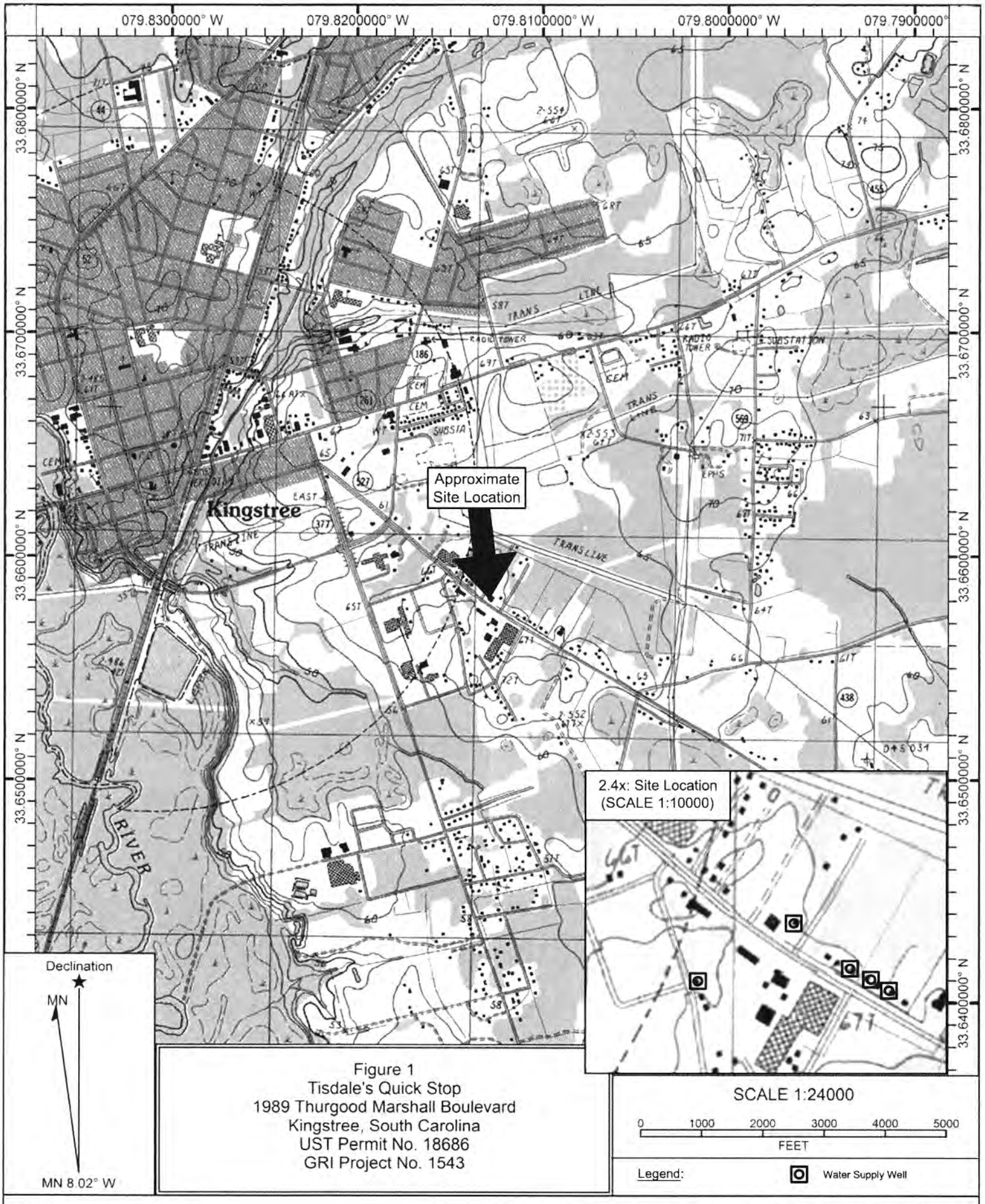



Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit No. 18686
GRI Project No. 1543

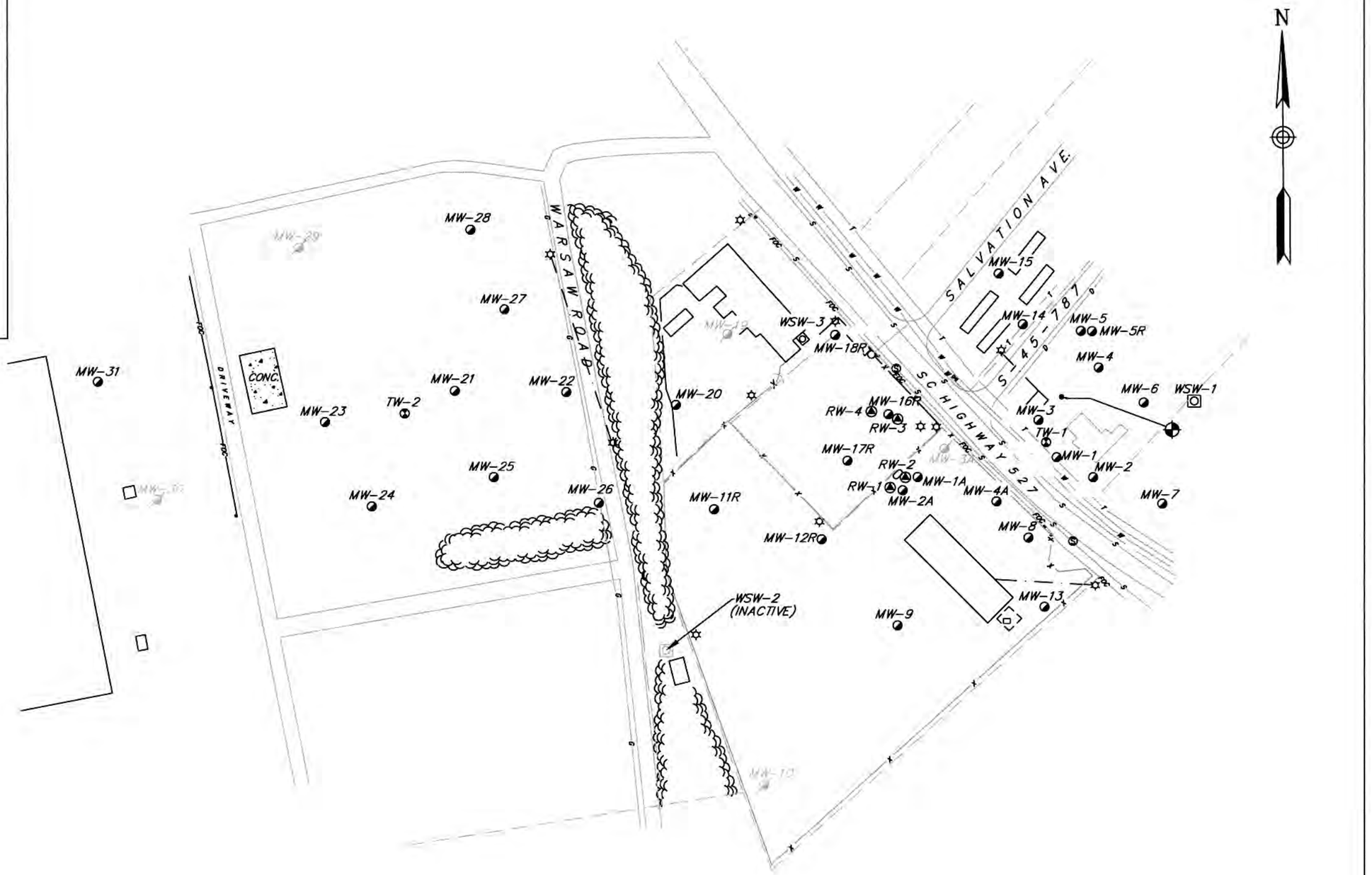
Name: Topographic Map
Date: 08/08/16
Scale: 1 inch = 2,000 ft.

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
- RECOVERY WELL




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

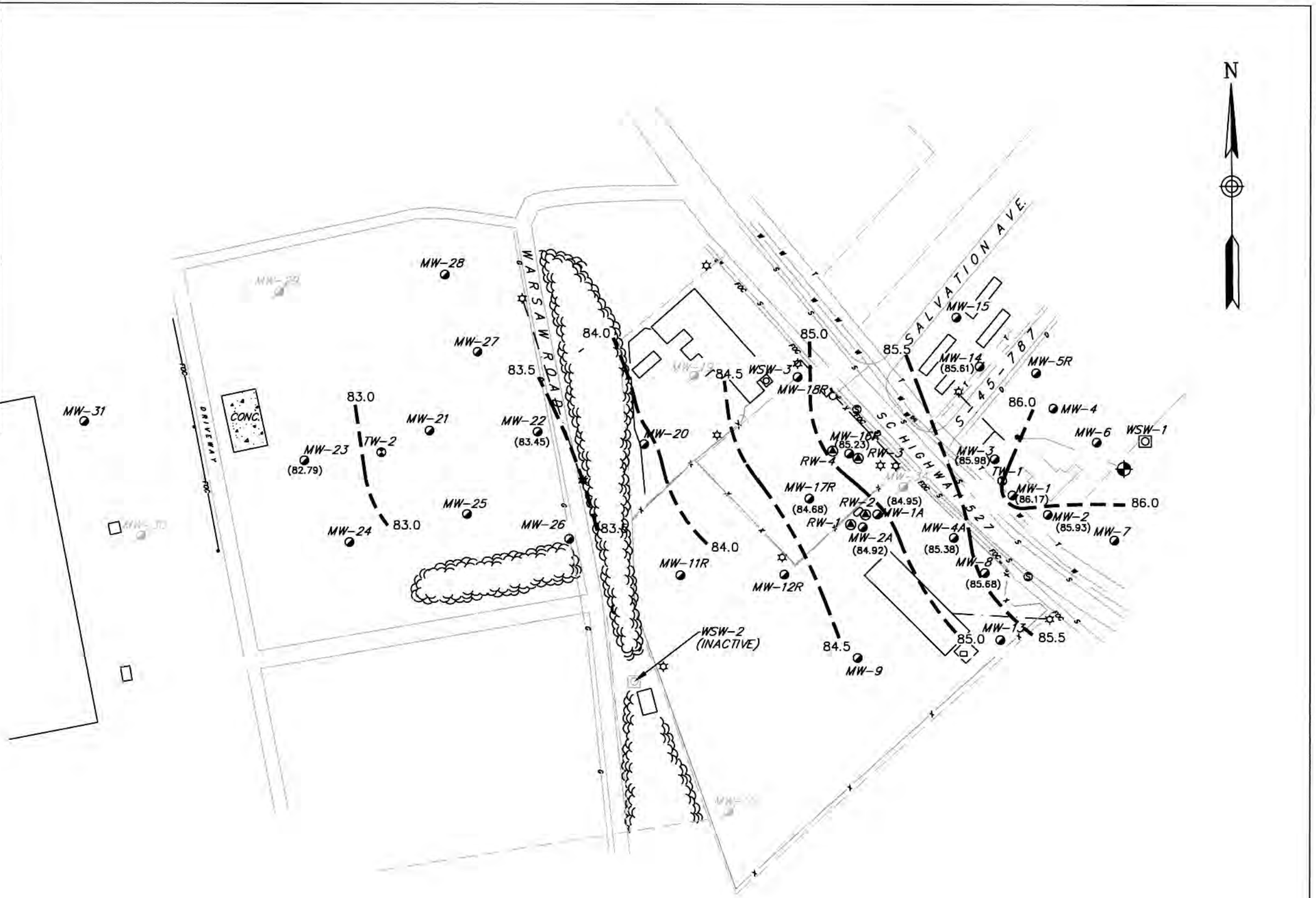
1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County, SC

| Date: | 08/12/2020 | Drawn by: | DTH | Figure: | 2 |
|---|---|---|---|---|---|

C:\Users\DARHOWARD\Desktop\New folder (2)\1543\1543 Base Map.dwg, Model, 8/12/2020 9:11:33 AM, DARHOWARD

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
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND WATER LINE
- PP & OVERHEAD POWER LINE
- UNDERGROUND SEWER LINE
- UNDERGROUND GAS LINE
- UNDERGROUND FIBER OPTIC LINE
- DITCH
- FENCE
- BENCHMARK
- RECOVERY WELL
- 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 (07/16/20)

Tisdale's Quick Stop
UST Permit No. 18686
GRI Project No. 1543

1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County, SC

| Date: | 08/12/2020 | Drawn by: | DTH | Figure: | 3 |
|---|---|---|---|---|---|

C:\Users\DARHOWARD\Desktop\New folder (2)\1543\1543 Base Map.dwg, Model, 8/12/2020 9:11:59 AM, DARHOWARD

## 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
- RECOVERY WELL

| |
|---|
| **101** BENZENE |
| 437 TOLUENE |
| 98.7 ETHYLBENZENE |
| 654 XYLENES |
| <1.1 MTBE |
| **45.7** NAPHTHALENE |

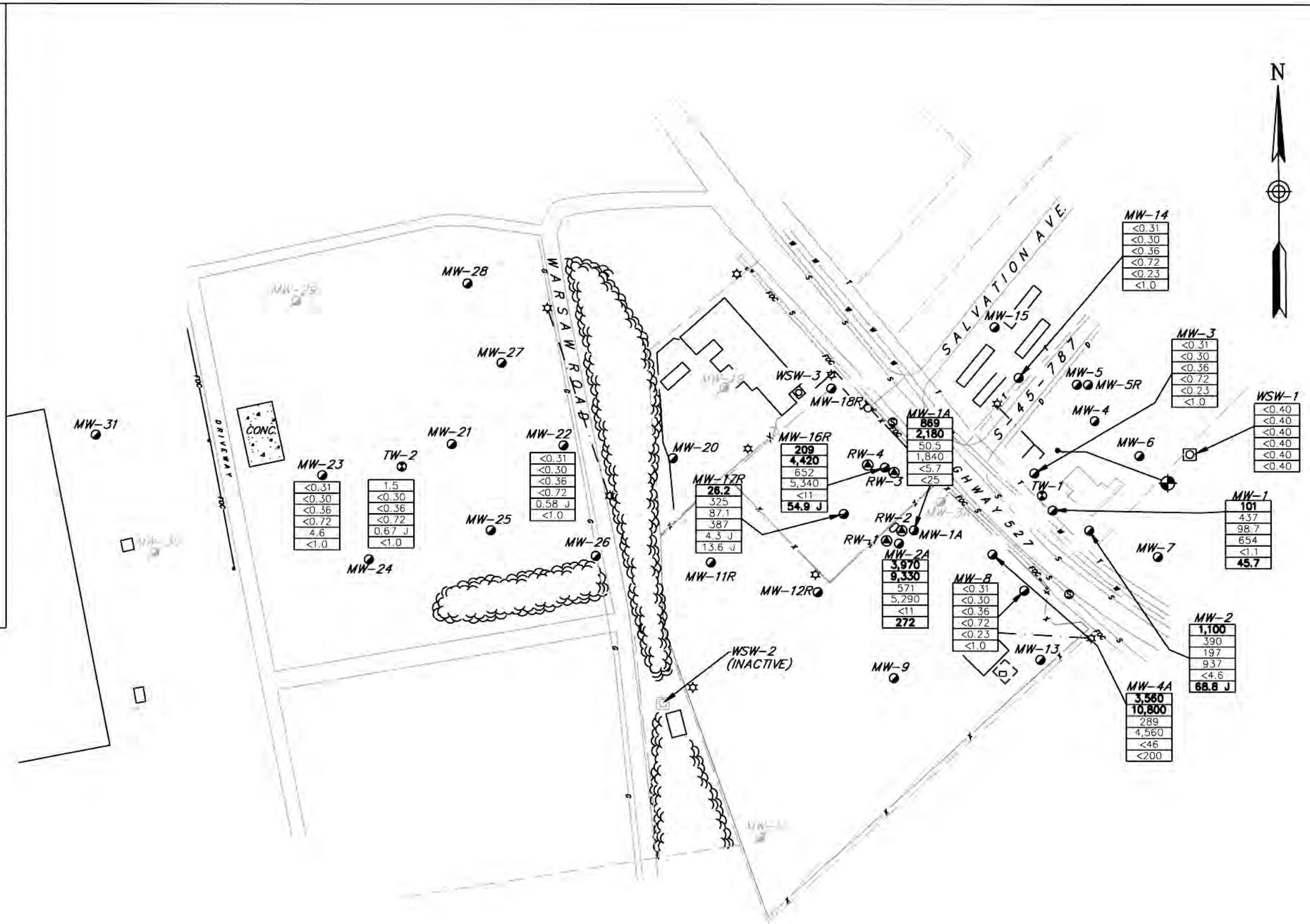
CONCENTRATIONS IN µg/L

<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




| MW-23 | TW-2 | MW-22 |
|---|---|---|
| <0.31 | 1.5 | <0.31 |
| <0.30 | <0.30 | <0.30 |
| <0.36 | <0.36 | <0.36 |
| <0.72 | <0.72 | <0.72 |
| 4.6 | 0.67 J | 0.58 J |
| <1.0 | <1.0 | <1.0 |

| MW-16R | MW-17R | MW-1A | MW-2A |
|---|---|---|---|
| **209** | **26.2** | **869** | **3,970** |
| **4,420** | 325 | **2,180** | **9,330** |
| 652 | 87.1 | 50.5 | 571 |
| 5,340 | 387 | 1,840 | 5,290 |
| <11 | 4.3 J | <5.7 | <11 |
| **54.9 J** | 13.6 J | <25 | **272** |

| MW-14 | MW-3 | MW-1 | WSW-1 |
|---|---|---|---|
| <0.31 | <0.31 | **101** | <0.40 |
| <0.30 | <0.30 | 437 | <0.40 |
| <0.36 | <0.36 | 98.7 | <0.40 |
| <0.72 | <0.72 | 654 | <0.40 |
| <0.23 | <0.23 | <1.1 | <0.40 |
| <1.0 | <1.0 | **45.7** | <0.40 |

| MW-8 | MW-2 | MW-4A |
|---|---|---|
| <0.31 | **1,100** | **3,560** |
| <0.30 | 390 | **10,800** |
| <0.36 | 197 | 289 |
| <0.72 | 937 | 4,560 |
| <0.23 | <4.6 | <46 |
| <1.0 | **68.8 J** | <200 |

Geological Resources, Inc.

0 50 100 200

( IN FEET )
1 inch = 100 ft

GROUND WATER QUALITY MAP (07/16/20)

Tisdale's Quick Stop
UST Permit No. 18686
GRI Project No. 1543

1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County, SC

Date: 08/12/2020 | Drawn by: DTH | Figure: 4

C:\Users\DARHOWARD\Desktop\New folder (2)\1543\1543 Base Map.dwg, Model, 8/12/2020 9:12:18 AM, DARHOWARD

**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 | | |
| | 07/16/20 | | 12 63 | | 86 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 | | |
| | 07/18/16 | | 14.03 | | 84.79 | | |
| | 03/08/17 | | 13.20 | | 85.62 | | |
| | 04/18/18 | 98.81 | 13.68 | | 85.13 | | |
| | 07/16/20 | | 12.88 | | 85.93 | | |

**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) |
|---|---|---|---|---|---|---|---|
| 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 | | |
| | 07/16/20 | | 12 77 | | 85 98 | | |
| 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 | | |
| | 07/16/20 | | 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-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 |
| | 07/16/20 | | NM | | NM | | |
| 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 | | |
| | 07/16/20 | | 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-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 | | |
| | 07/16/20 | | NM | | NM | | |
| 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 | | |
| | 07/16/20 | | 12.46 | | 85 68 | | |

**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 | | |
| | 07/16/20 | | NM | | NM | | |
| 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 |
| | 07/16/20 | | 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-12R | 04/18/18 | 96 04 | 12 33 | | 83.71 | 20 | 5-20 |
| | 07/16/20 | | 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 | | |
| | 04/18/18 | 98.97 | 14 10 | | 84 87 | | |
| | 07/16/20 | | 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-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 | | |
| | 07/16/20 | | 12.76 | | 85.61 | | |
| 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 | | |
| | 07/16/20 | | 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 |
| | 07/16/20 | | 12.75 | | 85 23 | | |
| 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 |
| | 07/16/20 | | 12 22 | | 84 68 | | |
| 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 |
| | 07/16/20 | | 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 | | |
| | 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 | | |
| | 07/16/20 | | 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-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 | | |
| | 07/16/20 | | NM | | NM | | |
| 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 | | |
| | 07/16/20 | | 13.17 | | 83.45 | | |

**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 | | |
| | 07/16/20 | | 12.99 | | 82.79 | | |
| 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 | | |
| | 07/16/20 | | 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-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 | | |
| | 07/16/20 | | NM | | NM | | |
| 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 | | |
| | 07/16/20 | | 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-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 | | |
| | 07/16/20 | | NM | | NM | | |
| 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 | | |
| | 07/16/20 | | 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-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 | | |
| | 07/16/20 | | NM | | NM | | |
| 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 | | |
| | 07/16/20 | | 12 22 | | 84 95 | | |

**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 | | |
| | 07/16/20 | | 12 36 | | 84 92 | | |
| 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 | | |
| | 07/16/20 | | 12.69 | | 85.38 | | |
| 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 | | |
| | 07/16/20 | | 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) |
|---|---|---|---|---|---|---|---|
| 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 | | |
| | 07/16/20 | | 12.22 | | 83.07 | | |

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, gauging not request by SCDHEC.
- 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 |
| | 07/16/20 | 101 | 437 | 98 7 | 654 | <1 1 | 45 7 | <1 6 | <0 0096 |
| MW-1 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 |
| | 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 |
| | 07/16/20 | 214 | 820 | 179 | 1,210 | <2 3 | 86 1 | <3 1 | <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 |
| | 04/18/18 | 8,520 | 18,000 | 1,520 | 8,740 | <46 | 339 J | <62 | 0.38 |
| | 07/16/20 | 1,100 | 390 | 197 | 937 | <4 6 | 68.8 J | <6 2 | <0 0093 |
| 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 |
| | 07/16/20 | <0 31 | <0 30 | <0 36 | <0 72 | <0 23 | <1 0 | <0 31 | <0 0095 |
| 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 |
| | 07/16/20 | 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 |
| | 07/16/20 | 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-5R | 04/18/18 | <0 31 | <0 30 | <0 36 | <0 72 | <0 23 | <1 0 | <0 31 | <0 0094 |
| | 07/16/20 | 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 |
| | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | <0 31 | <0 30 | <0 36 | <0 72 | <0 23 | <1 0 | <0 31 | <0 0094 |

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**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-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 |
| | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| MW-11R | 04/18/18 | <0 31 | <0 30 | <0 36 | <0 72 | <0 23 | <1 0 | <0 31 | <0 0094 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |

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**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 |
| MW-12R | 04/18/18 | <0 31 | <0 30 | <0 36 | <0 72 | <0 23 | <1 0 | <0 31 | <0 0093 |
| | 07/16/20 | 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 |
| | 04/18/18 | <0 31 | <0 30 | <0 36 | <0 72 | 1 9 | <1 0 | <0 31 | <0 0093 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | <0 31 | <0 30 | <0 36 | <0 72 | <0 23 | <1 0 | <0 31 | 0 013 J |

**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 |
| | 07/16/20 | 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 |
| MW-16R | 04/18/18 | **16,300** | **59,700** | **6,460** | **34,900** | **56 7 J** | **1,320** | <62 | **0.21** |
| | 07/16/20 | **209** | **4,420** | 652 | 5,340 | <11 | **54.9 J** | <16 | <0 0094 |
| 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 |
| | 07/16/20 | **26.2** | 325 | 87 1 | 387 | 4 3 J | 13 6 J | <1 6 | <0 0094 |
| 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-18R | 04/18/18 | 1 9 | <0 30 | <0 36 | <0 72 | <0 23 | <1 0 | <0 31 | <0 0093 |
| | 07/16/20 | 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 |
| | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | 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 |
| | 07/16/20 | <0 31 | <0 30 | <0 36 | <0 72 | 0 58 J | <1 0 | <0 31 | 0 028 |
| 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 |
| | 07/16/20 | <0 31 | <0 30 | <0 36 | <0 72 | 4 6 | <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 |
| | 04/18/18 | <0 31 | <0 30 | <0 36 | <0 72 | <0 23 | <1 0 | <0 31 | <0.0094 |
| | 07/16/20 | 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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | 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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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** | **3,930** | **18,800** | **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 |
| | 07/16/20 | **869** | **2,180** | 50 5 | 1,840 | <5.7 | <25 | <7 8 | <0 0093 |
| 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** |
| | 07/16/20 | **3,970** | **9,330** | 571 | 5,290 | <11 | **272** | <16 | <0 0094 |
| 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** |
| | 07/16/20 | **3,560** | **10,800** | 289 | 4,560 | <46 | <200 | <62 | <0 0095 |
| 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 |
| | 07/16/20 | 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 |
| 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 |
| | 07/16/20 | 1 5 | <0 30 | <0 36 | <0 72 | 0 67 J | <1 0 | <0 31 | <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 |
| | 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 |
| | 07/16/20 | <0 40 | <0 40 | <0 40 | <0.40 | <0 40 | <0 40 | <0 40 | <0 0042 |
| WSW-1 DUP B | 04/19/18 | <0 20 | <0.20 | <0 20 | <0 20 | <0 20 | <0 20 | <0 20 | <0 0040 |
| | 07/16/20 | <0 40 | <0 40 | <0 40 | <0 40 | <0 40 | <0 40 | <0 40 | <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 | N5 | N5 | NS | N5 |
| | 06/23/15 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/19/16 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/16/20 | 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 |
| | 07/16/20 | <0 40 | <0 40 | <0 40 | <0 40 | <0 40 | <0 40 | <0 40 | <0 042 |
| 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 |
| | 07/16/20 | <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 |
| | 07/16/20 | <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 | 1 | <0 0087 |
| | 04/19/18 | <0 20 | <0 20 | <0 20 | <0 20 | <0 20 | <0 20 | <0 20 | <0 0040 |
| | 07/16/20 | <0 40 | <0 40 | <0 40 | <0 40 | <0 40 | <0 40 | <0 40 | <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 |
| | 07/16/20 | <0 40 | <0 40 | <0 40 | <0 40 | <0 40 | <0 40 | <0 40 | 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, sampling not requested by SCDHEC
- 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 |
| | 07/16/20 | <1.2 | <50 | <410 | <1 2 | **265** | <1 2 | <27 | <25 |
| MW-1 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 |
| | 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 |
| | 07/16/20 | <2 4 | <100 | <820 | <2 4 | **427** | <2 4 | <53 | <50 |
| 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 |
| | 07/16/20 | <4.8 | <200 | <1,600 | <4.7 | **703** | <4.9 | <110 | <100 |
| 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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0 24 | <5 3 | <0.24 | <5.3 | <5.0 |
| 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 | N5 | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | N5 | 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 |
| | 07/16/20 | 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 |
| | 07/16/20 | 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 | <0.3S | <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 | <S 0 |
| | 04/18/18 | <0.24 | <10 | <82 | <0.24 | <5 3 | <0 24 | <5.3 | <5 0 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 | <S 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 |
| | 07/16/20 | N5 | 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-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 |
| | 07/16/20 | <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 |
| | 07/16/20 | 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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | 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 |
| | 04/18/18 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/16/20 | 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-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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <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 |
| | 07/16/20 | 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 |
| | 07/16/20 | <12 | <500 | <4,100 | <12 | <260 | <12 | <270 | <250 |
| MW-17R | 04/18/18 | <4.8 | <200 | <1,600 | 11 6 J | **4,690** | 11 0 J | <110 | <100 |
| | 07/16/20 | <1.2 | <50 | <410 | <1 2 | <26 | <1.2 | <27 | <25 |
| 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 |
| | 07/16/20 | 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 |
| | 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 |
| | 07/16/20 | 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) | | 1S0 | 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 |
| | 07/16/20 | 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 | S0 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 |
| | 07/16/20 | <0 24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <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 |
| | 04/18/18 | <0 24 | <10 | <82 | <0 24 | 182 | 0.95 J | <5.3 | <5.0 |
| | 07/16/20 | <0 24 | <10 | <82 | <0.24 | 103 | 0.29 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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | N5 | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | 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) | | 1S0 | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | N5 | NS |
| 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 | N5 | 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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | <6 0 | <250 | <2,000 | <5 9 | **979** | <6.1 | <130 | <130 |

**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 |
| | 04/18/18 | 39.1 J | <1,000 | <8,200 | <24 | **43,700** | 87.0 J | <530 | <500 |
| | 07/16/20 | <12 | <500 | <4,100 | <12 | **5,160** | 14.2 J | <270 | <250 |
| 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 |

**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-3A DUP | 03/09/17 | <120 | <5,000 | <41,000 | <120 | **15,700** | <120 | <2,700 | <2,500 |
| 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 |
| | 07/16/20 | <48 | <2,000 | <16,000 | <47 | **2,120 J** | <49 | <1,100 | <1,000 |
| 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 |
| | 07/16/20 | 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 |
| 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 |
| | 07/16/20 | <0 24 | <10 | <82 | <0.24 | 29 0 | <0 25 | <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 |
| | 07/16/20 | <0 40 | <8 0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| WSW-1 DUP B | 04/19/18 | <0.40 | <8.0 | <40 | <0.40 | <8.0 | <0.42 | <8.0 | <2.0 |
| | 07/16/20 | <0.40 | <8 0 | <52 | <0.40 | <8.0 | <0 42 | <0 40 | <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 |
| | 07/16/20 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <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 |
| WSW-3 DUP | 03/08/17 | <0 40 | <8.0 | <40 | <0.40 | <8 0 | <0.40 | <8.0 | <2.0 |
| 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 |
| | 07/16/20 | <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 |
| | 07/16/20 | <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 | <52 | <0 40 | <8 0 | <0.42 | <0.40 | <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 | <52 | <0.40 | <8 0 | <0.42 | <0.40 | <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; sampling not requested by SCDHEC.
- FP Free Product
- Concentrations in bold face type exceeded the Action Level

**APPENDICES**

**APPENDIX A**

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: FA76963**

**Sampling Date: 07/16/20**

**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:** 85

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.**

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

**Client Service contact: Muna Mohammed 407-425-6700**

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

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**Test results relate only to samples analyzed.**



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# Sample Summary

## GRI (Geological Resources Inc.)

Job No: FA76963

**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 |
|---|---|---|---|---|---|---|---|
| FA76963-1 | 07/16/20 | 11:11 | MS | 07/18/20 | AQ | Ground Water | 18686 MW-1 |
| FA76963-2 | 07/16/20 | 11:23 | MS | 07/18/20 | AQ | Ground Water | 18686 MW-2 |
| FA76963-3 | 07/16/20 | 11:31 | MS | 07/18/20 | AQ | Ground Water | 18686 MW-3 |
| FA76963-4 | 07/16/20 | 13:21 | MS | 07/18/20 | AQ | Ground Water | 18686 MW-8 |
| FA76963-5 | 07/16/20 | 12:04 | MS | 07/18/20 | AQ | Ground Water | 18686 MW-14 |
| FA76963-6 | 07/16/20 | 14:31 | MS | 07/18/20 | AQ | Ground Water | 18686 MW-16R |
| FA76963-7 | 07/16/20 | 14:41 | MS | 07/18/20 | AQ | Ground Water | 18686 MW-17R |
| FA76963-8 | 07/16/20 | 15:16 | MS | 07/18/20 | AQ | Ground Water | 18686 MW-22 |
| FA76963-9 | 07/16/20 | 15:56 | MS | 07/18/20 | AQ | Ground Water | 18686 MW-23 |
| FA76963-10 | 07/16/20 | 13:41 | MS | 07/18/20 | AQ | Ground Water | 18686 MW-1A |
| FA76963-11 | 07/16/20 | 13:46 | MS | 07/18/20 | AQ | Ground Water | 18686 MW-2A |
| FA76963-12 | 07/16/20 | 00:01 | MS | 07/18/20 | AQ | Ground Water | 18686 MW-4A |

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

# Sample Summary
(continued)

GRI (Geological Resources Inc.)

Job No: FA76963

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 |
|---|---|---|---|---|---|---|---|
| FA76963-13 | 07/16/20 | 16:37 | MS | 07/18/20 | AQ | Ground Water | 18686 TW-2 |
| FA76963-14 | 07/16/20 | 11:44 | MS | 07/18/20 | DW | Drinking Water | 18686 WSW-1 |
| FA76963-15 | 07/16/20 | 15:01 | MS | 07/18/20 | DW | Drinking Water | 18686 WSW-3 |
| FA76963-16 | 07/16/20 | 11:13 | MS | 07/18/20 | AQ | Ground Water | 18686 DUP A |
| FA76963-17 | 07/16/20 | 11:48 | MS | 07/18/20 | DW | Drinking Water | 18686 DUP B |
| FA76963-18 | 07/16/20 | 00:00 | MS | 07/18/20 | DW | Drinking Water TB | 18686 WSW TB |
| FA76963-19 | 07/16/20 | 17:08 | MS | 07/18/20 | DW | Drinking Water FB | 18686 WSW FB |
| FA76963-20 | 07/16/20 | 00:00 | MS | 07/18/20 | AQ | Trip Blank Water | 18686 MW TB |
| FA76963-21 | 07/16/20 | 17:04 | MS | 07/18/20 | AQ | Field Blank Water | 18686 MW FB |

# Summary of Hits



Job Number: FA76963
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 07/16/20

| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| FA76963-1 | 18686 MW-1 | | | | | |
| Benzene | | 101 | 5.0 | 1.6 | ug/l | SW846 8260D |
| Toluene | | 437 | 200 | 60 | ug/l | SW846 8260D |
| Ethylbenzene | | 98.7 | 5.0 | 1.8 | ug/l | SW846 8260D |
| Xylene (total) | | 654 | 15 | 3.6 | ug/l | SW846 8260D |
| Naphthalene | | 45.7 | 25 | 5.0 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol | | 265 | 100 | 26 | ug/l | SW846 8260D |
| FA76963-2 | 18686 MW-2 | | | | | |
| Benzene | | 1100 | 20 | 6.2 | ug/l | SW846 8260D |
| Toluene | | 390 | 20 | 6.0 | ug/l | SW846 8260D |
| Ethylbenzene | | 197 | 20 | 7.1 | ug/l | SW846 8260D |
| Xylene (total) | | 937 | 60 | 14 | ug/l | SW846 8260D |
| Naphthalene | | 68.8 J | 100 | 20 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol | | 703 | 400 | 110 | ug/l | SW846 8260D |
| FA76963-3 | 18686 MW-3 | | | | | |
| No hits reported in this sample. | | | | | | |
| FA76963-4 | 18686 MW-8 | | | | | |
| No hits reported in this sample. | | | | | | |
| FA76963-5 | 18686 MW-14 | | | | | |
| 1,2-Dibromoethane [a] | | 0.013 J | 0.019 | 0.0094 | ug/l | SW846 8011 |
| FA76963-6 | 18686 MW-16R | | | | | |
| Benzene | | 209 | 50 | 16 | ug/l | SW846 8260D |
| Toluene | | 4420 | 100 | 30 | ug/l | SW846 8260D |
| Ethylbenzene | | 652 | 50 | 18 | ug/l | SW846 8260D |
| Xylene (total) | | 5340 | 150 | 36 | ug/l | SW846 8260D |
| Naphthalene | | 54.9 J | 250 | 50 | ug/l | SW846 8260D |
| FA76963-7 | 18686 MW-17R | | | | | |
| Benzene | | 26.2 | 5.0 | 1.6 | ug/l | SW846 8260D |
| Toluene | | 325 | 5.0 | 1.5 | ug/l | SW846 8260D |
| Ethylbenzene | | 87.1 | 5.0 | 1.8 | ug/l | SW846 8260D |
| Xylene (total) | | 387 | 15 | 3.6 | ug/l | SW846 8260D |
| Methyl Tert Butyl Ether | | 4.3 J | 5.0 | 1.1 | ug/l | SW846 8260D |

## Summary of Hits

Job Number: FA76963
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 07/16/20

| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| Naphthalene | | 13.6 J | 25 | 5.0 | ug/l | SW846 8260D |
| FA76963-8 | 18686 MW-22 | | | | | |
| Methyl Tert Butyl Ether | | 0.58 J | 1.0 | 0.23 | ug/l | SW846 8260D |
| 1,2-Dibromoethane [a] | | 0.028 | 0.019 | 0.0094 | ug/l | SW846 8011 |
| FA76963-9 | 18686 MW-23 | | | | | |
| Methyl Tert Butyl Ether | | 4.6 | 1.0 | 0.23 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol | | 103 | 20 | 5.3 | ug/l | SW846 8260D |
| Tert-Amyl Methyl Ether | | 0.29 J | 2.0 | 0.24 | ug/l | SW846 8260D |
| FA76963-10 | 18686 MW-1A | | | | | |
| Benzene | | 869 | 50 | 16 | ug/l | SW846 8260D |
| Toluene | | 2180 | 50 | 15 | ug/l | SW846 8260D |
| Ethylbenzene [b] | | 50.5 | 25 | 8.9 | ug/l | SW846 8260D |
| Xylene (total) | | 1840 | 150 | 36 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol [b] | | 979 | 500 | 130 | ug/l | SW846 8260D |
| FA76963-11 | 18686 MW-2A | | | | | |
| Benzene | | 3970 | 50 | 16 | ug/l | SW846 8260D |
| Toluene | | 9330 | 50 | 15 | ug/l | SW846 8260D |
| Ethylbenzene | | 571 | 50 | 18 | ug/l | SW846 8260D |
| Xylene (total) | | 5290 | 150 | 36 | ug/l | SW846 8260D |
| Naphthalene | | 272 | 250 | 50 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol | | 5160 | 1000 | 260 | ug/l | SW846 8260D |
| Tert-Amyl Methyl Ether | | 14.2 J | 100 | 12 | ug/l | SW846 8260D |
| FA76963-12 | 18686 MW-4A | | | | | |
| Benzene | | 3560 | 200 | 62 | ug/l | SW846 8260D |
| Toluene | | 10800 | 200 | 60 | ug/l | SW846 8260D |
| Ethylbenzene | | 289 | 200 | 71 | ug/l | SW846 8260D |
| Xylene (total) | | 4560 | 600 | 140 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol | | 2120 J | 4000 | 1100 | ug/l | SW846 8260D |
| FA76963-13 | 18686 TW-2 | | | | | |
| Benzene | | 1.5 | 1.0 | 0.31 | ug/l | SW846 8260D |
| Methyl Tert Butyl Ether | | 0.67 J | 1.0 | 0.23 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol | | 29.0 | 20 | 5.3 | ug/l | SW846 8260D |

## Summary of Hits

**Job Number:** FA76963
**Account:** GRI (Geological Resources Inc.)
**Project:** Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
**Collected:** 07/16/20

| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| FA76963-16 | 18686 DUP A | | | | | |
| Benzene | | 214 | 10 | 3.1 | ug/l | SW846 8260D |
| Toluene | | 820 | 20 | 6.0 | ug/l | SW846 8260D |
| Ethylbenzene | | 179 | 10 | 3.6 | ug/l | SW846 8260D |
| Xylene (total) | | 1210 | 30 | 7.2 | ug/l | SW846 8260D |
| Naphthalene | | 86.1 | 50 | 10 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol | | 427 | 200 | 53 | ug/l | SW846 8260D |
| FA76963-20 | 18686 MW TB | | | | | |
| No hits reported in this sample. | | | | | | |
| FA76963-21 | 18686 MW FB | | | | | |
| No hits reported in this sample. | | | | | | |

(a) All hits confirmed by dual column analysis.
(b) Sample vial(s) contained significant headspace; reported results are considered minimum values.

## Sample Results

### Report of Analysis

# Report of Analysis





| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-1 | | |
| Lab Sample ID: | FA76963-1 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | P72984.D | 5 | 07/22/20 12:12 | SO | n/a | n/a | VP2897 |
| Run #2 | P72922.D | 200 | 07/20/20 10:30 | SP | n/a | n/a | VP2893 |

| | 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 | 101 | 5.0 | 1.6 | ug/l | |
| 108-88-3 | Toluene | 437 [a] | 200 | 60 | ug/l | |
| 100-41-4 | Ethylbenzene | 98.7 | 5.0 | 1.8 | ug/l | |
| 1330-20-7 | Xylene (total) | 654 | 15 | 3.6 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.0 | 1.1 | ug/l | |
| 91-20-3 | Naphthalene | 45.7 | 25 | 5.0 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 1.6 | ug/l | |
| 108-20-3 | Di-Isopropyl Ether | ND | 5.0 | 1.2 | ug/l | |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | ND | 250 | 50 | ug/l | |
| 64-17-5 | Ethyl Alcohol | ND | 1000 | 410 | ug/l | |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | 10 | 1.2 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | 265 | 100 | 26 | ug/l | |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | 10 | 1.2 | ug/l | |
| 75-65-0 | Tert-Butyl Alcohol | ND | 100 | 27 | ug/l | |
| 762-75-4 | Tert-Butyl Formate | ND | 100 | 25 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | 102% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102% | 96% | 79-125% |
| 2037-26-5 | Toluene-D8 | 103% | 104% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 102% | 107% | 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 MW-1 | | |
| Lab Sample ID: | FA76963-1 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| 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 | DD1121387.D | 1 | 07/20/20 17:24 | KB | 07/20/20 14:15 | OP81158 | GDD3247 |
| 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 | 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-2 | | |
| Lab Sample ID: | FA76963-2 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | P72985.D | 20 | 07/22/20 12:37 | SO | n/a | n/a | VP2897 |
| 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 | 1100 | 20 | 6.2 | ug/l | |
| 108-88-3 | Toluene | 390 | 20 | 6.0 | ug/l | |
| 100-41-4 | Ethylbenzene | 197 | 20 | 7.1 | ug/l | |
| 1330-20-7 | Xylene (total) | 937 | 60 | 14 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 20 | 4.6 | ug/l | |
| 91-20-3 | Naphthalene | 68.8 | 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 | ND | 4000 | 1600 | ug/l | |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | 40 | 4.7 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | 703 | 400 | 110 | ug/l | |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | 40 | 4.9 | ug/l | |
| 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 | 98% | | 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 | 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

SGS North America Inc.

# Report of Analysis



| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-2 | | |
| Lab Sample ID: | FA76963-2 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| 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 | DD1121388.D | 1 | 07/20/20 17:40 | KB | 07/20/20 14:15 | OP81158 | GDD3247 |
| 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 | 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

# Report of Analysis





| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-3 | | |
| Lab Sample ID: | FA76963-3 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | P72980.D | 1 | 07/22/20 10:32 | SO | n/a | n/a | VP2897 |
| 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 | 103% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 105% | | 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

SGS North America Inc.

# Report of Analysis



| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-3 | | |
| Lab Sample ID: | FA76963-3 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| 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 | DD1121389.D | 1 | 07/20/20 17:55 | KB | 07/20/20 14:15 | OP81158 | GDD3247 |
| 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 | 88% | | 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 MW-8 | | |
| Lab Sample ID: | FA76963-4 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | P72934.D | 1 | 07/20/20 15:35 | SP | n/a | n/a | VP2893 |
| 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 | 95% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 106% | | 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

SGS North America Inc.

# Report of Analysis



| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-8 | | |
| Lab Sample ID: | FA76963-4 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| 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 | DD1121390.D | 1 | 07/20/20 18:11 | KB | 07/20/20 14:15 | OP81158 | GDD3247 |
| 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 | 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

# Report of Analysis





| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-14 | | |
| Lab Sample ID: | FA76963-5 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | P72935.D | 1 | 07/20/20 16:01 | SP | n/a | n/a | VP2893 |
| 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 | 95% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 107% | | 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

# Report of Analysis



| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-14 | | |
| Lab Sample ID: | FA76963-5 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| 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] | DD1121391.D | 1 | 07/20/20 18:26 | KB | 07/20/20 14:15 | OP81158 | GDD3247 |
| 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 | 0.013 | 0.019 | 0.0094 | ug/l | J |

| 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-16R | | |
| Lab Sample ID: | FA76963-6 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | P73015.D | 50 | 07/23/20 12:29 | SO | n/a | n/a | VP2898 |
| Run #2 | P72986.D | 100 | 07/22/20 13:02 | SO | n/a | n/a | VP2897 |

| | 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 | 209 | 50 | 16 | ug/l | |
| 108-88-3 | Toluene | 4420 [a] | 100 | 30 | ug/l | |
| 100-41-4 | Ethylbenzene | 652 | 50 | 18 | ug/l | |
| 1330-20-7 | Xylene (total) | 5340 | 150 | 36 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 50 | 11 | ug/l | |
| 91-20-3 | Naphthalene | 54.9 | 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 | 2500 | 500 | ug/l | |
| 64-17-5 | Ethyl Alcohol | ND | 10000 | 4100 | ug/l | |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | 100 | 12 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | ND | 1000 | 260 | ug/l | |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | 100 | 12 | ug/l | |
| 75-65-0 | Tert-Butyl Alcohol | ND | 1000 | 270 | 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 | 100% | 101% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104% | 105% | 79-125% |
| 2037-26-5 | Toluene-D8 | 102% | 104% | 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

# Report of Analysis



| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-16R | | |
| Lab Sample ID: | FA76963-6 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| 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 | DD1121392.D | 1 | 07/20/20 18:42 | KB | 07/20/20 14:15 | OP81158 | GDD3247 |
| 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 | 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 MW-17R | | |
| Lab Sample ID: | FA76963-7 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | P72987.D | 5 | 07/22/20 13:26 | SO | n/a | n/a | VP2897 |
| 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 | 26.2 | 5.0 | 1.6 | ug/l | |
| 108-88-3 | Toluene | 325 | 5.0 | 1.5 | ug/l | |
| 100-41-4 | Ethylbenzene | 87.1 | 5.0 | 1.8 | ug/l | |
| 1330-20-7 | Xylene (total) | 387 | 15 | 3.6 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 4.3 | 5.0 | 1.1 | ug/l | J |
| 91-20-3 | Naphthalene | 13.6 | 25 | 5.0 | ug/l | J |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 1.6 | ug/l | |
| 108-20-3 | Di-Isopropyl Ether | ND | 5.0 | 1.2 | ug/l | |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | ND | 250 | 50 | ug/l | |
| 64-17-5 | Ethyl Alcohol | ND | 1000 | 410 | ug/l | |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | 10 | 1.2 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | ND | 100 | 26 | ug/l | |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | 10 | 1.2 | ug/l | |
| 75-65-0 | Tert-Butyl Alcohol | ND | 100 | 27 | ug/l | |
| 762-75-4 | Tert-Butyl Formate | ND | 100 | 25 | 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 | 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

SGS North America Inc.

# Report of Analysis



| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-17R | | |
| Lab Sample ID: | FA76963-7 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| 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 | DD1121393.D | 1 | 07/20/20 18:58 | KB | 07/20/20 14:15 | OP81158 | GDD3247 |
| 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 | 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

# Report of Analysis





| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-22 | | |
| Lab Sample ID: | FA76963-8 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | P72981.D | 1 | 07/22/20 10:56 | SO | n/a | n/a | VP2897 |
| 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 | 0.58 | 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 | 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 | 102% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 103% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 109% | | 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 MW-22 | | |
| Lab Sample ID: | FA76963-8 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| 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] | DD1121396.D | 1 | 07/20/20 19:44 | KB | 07/20/20 14:15 | OP81158 | GDD3247 |
| 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 | 0.028 | 0.019 | 0.0094 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 86% | | 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-23 | | |
| Lab Sample ID: | FA76963-9 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | P72936.D | 1 | 07/20/20 16:26 | SP | n/a | n/a | VP2893 |
| 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 | 4.6 | 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 | 103 | 20 | 5.3 | ug/l | |
| 994-05-8 | Tert-Amyl Methyl Ether | 0.29 | 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 | 102% | | 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 | 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

# Report of Analysis



| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-23 | | |
| Lab Sample ID: | FA76963-9 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| 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 | DD1121397.D | 1 | 07/20/20 20:00 | KB | 07/20/20 14:15 | OP81158 | GDD3247 |
| 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 | 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

# Report of Analysis





| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-1A | | |
| Lab Sample ID: | FA76963-10 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| 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] | P73016.D | 25 | 07/23/20 12:54 | SO | n/a | n/a | VP2898 |
| Run #2 | P72988.D | 50 | 07/22/20 13:51 | SO | n/a | n/a | VP2897 |

| | 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 | 869 [b] | 50 | 16 | ug/l | |
| 108-88-3 | Toluene | 2180 [b] | 50 | 15 | ug/l | |
| 100-41-4 | Ethylbenzene | 50.5 | 25 | 8.9 | ug/l | |
| 1330-20-7 | Xylene (total) | 1840 [b] | 150 | 36 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 25 | 5.7 | ug/l | |
| 91-20-3 | Naphthalene | ND | 130 | 25 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 25 | 7.8 | ug/l | |
| 108-20-3 | Di-Isopropyl Ether | ND | 25 | 6.0 | ug/l | |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | ND | 1300 | 250 | ug/l | |
| 64-17-5 | Ethyl Alcohol | ND | 5000 | 2000 | ug/l | |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | 50 | 5.9 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | 979 | 500 | 130 | ug/l | |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | 50 | 6.1 | ug/l | |
| 75-65-0 | Tert-Butyl Alcohol | ND | 500 | 130 | ug/l | |
| 762-75-4 | Tert-Butyl Formate | ND | 500 | 130 | 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 | 100% | 101% | 79-125% |
| 2037-26-5 | Toluene-D8 | 104% | 105% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 105% | 107% | 83-118% |

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

# Report of Analysis





| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-1A | | |
| Lab Sample ID: | FA76963-10 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| 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 | DD1121398.D | 1 | 07/20/20 20:15 | KB | 07/20/20 14:15 | OP81158 | GDD3247 |
| 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 | 88% | | 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: | FA76963-11 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | P72989.D | 50 | 07/22/20 14:16 | SO | n/a | n/a | VP2897 |
| Run #2 | P72929.D | 250 | 07/20/20 13:28 | SP | n/a | n/a | VP2893 |

| | 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 | 3970 | 50 | 16 | ug/l | |
| 108-88-3 | Toluene | 9330 | 50 | 15 | ug/l | |
| 100-41-4 | Ethylbenzene | 571 | 50 | 18 | ug/l | |
| 1330-20-7 | Xylene (total) | 5290 | 150 | 36 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 50 | 11 | ug/l | |
| 91-20-3 | Naphthalene | 272 | 250 | 50 | ug/l | |
| 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 | 2500 | 500 | ug/l | |
| 64-17-5 | Ethyl Alcohol | ND | 10000 | 4100 | ug/l | |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | 100 | 12 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | 5160 | 1000 | 260 | ug/l | |
| 994-05-8 | Tert-Amyl Methyl Ether | 14.2 | 100 | 12 | ug/l | J |
| 75-65-0 | Tert-Butyl Alcohol | ND | 1000 | 270 | 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 | 98% | 100% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | 94% | 79-125% |
| 2037-26-5 | Toluene-D8 | 102% | 106% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 102% | 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

SGS North America Inc.

# Report of Analysis



| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-2A | | |
| Lab Sample ID: | FA76963-11 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| 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 | DD1121399.D | 1 | 07/20/20 20:31 | KB | 07/20/20 14:15 | OP81158 | GDD3247 |
| 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 | 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 MW-4A | | |
| Lab Sample ID: | FA76963-12 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | P72990.D | 200 | 07/22/20 14:41 | SO | n/a | n/a | VP2897 |
| 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 | 3560 | 200 | 62 | ug/l | |
| 108-88-3 | Toluene | 10800 | 200 | 60 | ug/l | |
| 100-41-4 | Ethylbenzene | 289 | 200 | 71 | ug/l | |
| 1330-20-7 | Xylene (total) | 4560 | 600 | 140 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 200 | 46 | ug/l | |
| 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 | 2120 | 4000 | 1100 | ug/l | J |
| 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 | 100% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 106% | | 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

# Report of Analysis





| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-4A | | |
| Lab Sample ID: | FA76963-12 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| 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 | DD1121400.D | 1 | 07/20/20 20:46 | KB | 07/20/20 14:15 | OP81158 | GDD3247 |
| 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 | 71% | | 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: | FA76963-13 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | P72937.D | 1 | 07/20/20 16:51 | SP | n/a | n/a | VP2893 |
| 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 | 1.5 | 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 | 0.67 | 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 | 29.0 | 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 | 93% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 106% | | 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

# Report of Analysis





| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 TW-2 | | |
| Lab Sample ID: | FA76963-13 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| 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 | DD1121401.D | 1 | 07/20/20 21:02 | KB | 07/20/20 14:15 | OP81158 | GDD3247 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 38.0 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 | 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

# Report of Analysis





| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 DUP A | | |
| Lab Sample ID: | FA76963-16 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | P73017.D | 10 | 07/23/20 13:19 | SO | n/a | n/a | VP2898 |
| Run #2 | P72991.D | 20 | 07/22/20 15:06 | SO | n/a | n/a | VP2897 |

| | 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 | 214 | 10 | 3.1 | ug/l | |
| 108-88-3 | Toluene | 820 [a] | 20 | 6.0 | ug/l | |
| 100-41-4 | Ethylbenzene | 179 | 10 | 3.6 | ug/l | |
| 1330-20-7 | Xylene (total) | 1210 | 30 | 7.2 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 10 | 2.3 | ug/l | |
| 91-20-3 | Naphthalene | 86.1 | 50 | 10 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 10 | 3.1 | ug/l | |
| 108-20-3 | Di-Isopropyl Ether | ND | 10 | 2.4 | ug/l | |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | ND | 500 | 100 | ug/l | |
| 64-17-5 | Ethyl Alcohol | ND | 2000 | 820 | ug/l | |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | 20 | 2.4 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | 427 | 200 | 53 | ug/l | |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | 20 | 2.4 | ug/l | |
| 75-65-0 | Tert-Butyl Alcohol | ND | 200 | 53 | ug/l | |
| 762-75-4 | Tert-Butyl Formate | ND | 200 | 50 | 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 | 100% | 103% | 79-125% |
| 2037-26-5 | Toluene-D8 | 102% | 104% | 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

# Report of Analysis





| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 DUP A | | |
| Lab Sample ID: | FA76963-16 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Ground Water | Date Received: | 07/18/20 |
| 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 | DD1121402.D | 1 | 07/20/20 21:17 | KB | 07/20/20 14:15 | OP81158 | GDD3247 |
| 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 | 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

SGS North America Inc.

# Report of Analysis



| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW TB | | |
| Lab Sample ID: | FA76963-20 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Trip Blank Water | Date Received: | 07/18/20 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| 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] | P73070.D | 1 | 07/27/20 10:51 | SO | n/a | n/a | VP2900 |
| 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 [b] | 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 | 97% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 112% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 110% | | 83-118% |

(a) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.
(b) Associated CCV outside of control limits high, sample was 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 FB | | |
| Lab Sample ID: | FA76963-21 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Field Blank Water | Date Received: | 07/18/20 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | P72938.D | 1 | 07/20/20 17:17 | SP | n/a | n/a | VP2893 |
| 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 | 106% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 106% | | 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

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW FB | | |
| Lab Sample ID: | FA76963-21 | Date Sampled: | 07/16/20 |
| Matrix: | AQ - Field Blank Water | Date Received: | 07/18/20 |
| 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 | DD1121403.D | 1 | 07/20/20 21:33 | KB | 07/20/20 14:15 | OP81158 | GDD3247 |
| 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 | 89% | | 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

## Subcontract Lab Data

### Report of Analysis

Pace Analytical®

4

# Report of Analysis

**SGS North America Inc. - Orlando**
4405 Vineland Rd
Suite C-15
Orlando, FL 32811
Attention: Muna Mohammed

Project Name: FA76963X

Lot Number:**VG21017**

Date Completed:07/30/2020

07/31/2020 11:09 AM
Approved and released by:
Project Manager II: **Lucas Odom**

The electronic signature above is the equivalent of a handwritten signature.
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Pace Analytical Services, LLC (*formerly Shealy Environmental Services, Inc.*)
106 Vantage Point Drive West Columbia, SC 29172
Tel: 803-791-9700 Fax: 803-791-9111 www.pacelabs.com

## Case Narrative
## SGS North America Inc. - Orlando
**Lot Number: VG21017**

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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 Pace Analytical Services, LLC ("Pace") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Pace 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 Pace Project Manager listed on the cover page.

EDB by Microextraction

The following sample was diluted due to the nature of the sample matrix: VG21017-002. The LOQ has been elevated to reflect the dilution.

## Sample Summary
## SGS North America Inc. - Orlando
### Lot Number: VG21017

| Sample Number | Sample ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| 001 | 18686 WSW-1 | Aqueous | 07/16/2020 1144 | 07/21/2020 |
| 002 | 18686 WSW-3 | Aqueous | 07/16/2020 1501 | 07/21/2020 |
| 003 | 18686 DUP B | Aqueous | 07/16/2020 1148 | 07/21/2020 |
| 004 | 18686 WSW TB | Aqueous | 07/16/2020 | 07/21/2020 |
| 005 | 18686 WSW FB | Aqueous | 07/16/2020 1708 | 07/21/2020 |

(5 samples)

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## Detection Summary

## SGS North America Inc. - Orlando

### Lot Number: VG21017

| Sample Sample ID | Matrix | Parameter | Method | Result | Q | Units | Page |
|---|---|---|---|---|---|---|---|

(0 detections)

# Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**
Description: **18686 WSW-1**
Date Sampled: **07/16/2020 1144**
Date Received: **07/21/2020**

Laboratory ID: **VG21017-001**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 524.2 | 524.2 | 1 | 07/29/2020 1355 | TML | | 61606 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Ethylbenzene | 100-41-4 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Naphthalene | 91-20-3 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Toluene | 108-88-3 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Xylenes (total) | 1330-20-7 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| Bromofluorobenzene | | 84 | 70-130 |
| 1,2-Dichlorobenzene-d4 | | 88 | 70-130 |

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

# Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**
Description: **18686 WSW-1**
Date Sampled: **07/16/2020 1144**
Date Received: **07/21/2020**

Laboratory ID: **VG21017-001**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260D | 1 | 07/28/2020 0023 | JAN | | 61413 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| tert-Amyl alcohol (TAA) | 75-85-4 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| tert-Amyl methyl ether (TAME) | 994-05-8 | 8260D | ND | | 10 | 0.42 | ug/L | 1 |
| tert-Butyl formate (TBF) | 762-75-4 | 8260D | ND | | 5.0 | 2.0 | ug/L | 1 |
| Diisopropyl ether (IPE) | 108-20-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| 3,3-Dimethyl-1-butanol | 624-95-3 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| Ethanol | 64-17-5 | 8260D | ND | | 100 | 52 | ug/L | 1 |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| tert-butyl alcohol (TBA) | 75-65-0 | 8260D | ND | | 20 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 98 | 70-130 |
| Toluene-d8 | | 99 | 70-130 |
| Bromofluorobenzene | | 103 | 70-130 |

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

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 WSW-1**
Date Sampled: **07/16/2020 1144**
Date Received: **07/21/2020**

Laboratory ID: **VG21017-001**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 504.1 | 504.1 | 1 | 07/27/2020 1453 | JJG | 07/27/2020 0921 | 61339 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 504.1 | ND | | 0.021 | 0.0042 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 80 | 57-137 |

4

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

# Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**
Laboratory ID: **VG21017-002**
Description: **18686 WSW-3**
Matrix: **Aqueous**
Date Sampled: **07/16/2020 1501**
Date Received: **07/21/2020**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 524.2 | 524.2 | 1 | 07/29/2020 1421 | TML | | 61606 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Ethylbenzene | 100-41-4 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Naphthalene | 91-20-3 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Toluene | 108-88-3 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Xylenes (total) | 1330-20-7 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| Bromofluorobenzene | | 83 | 70-130 |
| 1,2-Dichlorobenzene-d4 | | 91 | 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

# Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**
Description: **18686 WSW-3**
Date Sampled: **07/16/2020 1501**
Date Received: **07/21/2020**

Laboratory ID: **VG21017-002**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260D | 1 | 07/28/2020 0046 | JAN | | 61413 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| tert-Amyl alcohol (TAA) | 75-85-4 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| tert-Amyl methyl ether (TAME) | 994-05-8 | 8260D | ND | | 10 | 0.42 | ug/L | 1 |
| tert-Butyl formate (TBF) | 762-75-4 | 8260D | ND | | 5.0 | 2.0 | ug/L | 1 |
| Diisopropyl ether (IPE) | 108-20-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| 3,3-Dimethyl-1-butanol | 624-95-3 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| Ethanol | 64-17-5 | 8260D | ND | | 100 | 52 | ug/L | 1 |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| tert-butyl alcohol (TBA) | 75-65-0 | 8260D | ND | | 20 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 101 | 70-130 |
| Toluene-d8 | | 99 | 70-130 |
| Bromofluorobenzene | | 107 | 70-130 |

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

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 WSW-3**
Date Sampled: **07/16/2020 1501**
Date Received: **07/21/2020**

Laboratory ID: **VG21017-002**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 504.1 | 504.1 | 10 | 07/28/2020 0858 | JJG | 07/27/2020 0921 | 61339 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 504.1 | ND | | 0.21 | 0.042 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 106 | 57-137 |

4

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

# Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**
Description: **18686 DUP B**
Date Sampled: **07/16/2020 1148**
Date Received: **07/21/2020**

Laboratory ID: **VG21017-003**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 524.2 | 524.2 | 1 | 07/29/2020 1447 | TML | | 61606 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Ethylbenzene | 100-41-4 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Naphthalene | 91-20-3 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Toluene | 108-88-3 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Xylenes (total) | 1330-20-7 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| Bromofluorobenzene | | 88 | 70-130 |
| 1,2-Dichlorobenzene-d4 | | 91 | 70-130 |

4

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

# Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando** Laboratory ID: **VG21017-003**
Description: **18686 DUP B** Matrix: **Aqueous**
Date Sampled: **07/16/2020 1148**
Date Received: **07/21/2020**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260D | 1 | 07/28/2020 0108 | JAN | | 61413 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| tert-Amyl alcohol (TAA) | 75-85-4 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| tert-Amyl methyl ether (TAME) | 994-05-8 | 8260D | ND | | 10 | 0.42 | ug/L | 1 |
| tert-Butyl formate (TBF) | 762-75-4 | 8260D | ND | | 5.0 | 2.0 | ug/L | 1 |
| Diisopropyl ether (IPE) | 108-20-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| 3,3-Dimethyl-1-butanol | 624-95-3 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| Ethanol | 64-17-5 | 8260D | ND | | 100 | 52 | ug/L | 1 |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| tert-butyl alcohol (TBA) | 75-65-0 | 8260D | ND | | 20 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 97 | 70-130 |
| Toluene-d8 | | 100 | 70-130 |
| Bromofluorobenzene | | 104 | 70-130 |

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

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 DUP B**
Date Sampled: **07/16/2020 1148**
Date Received: **07/21/2020**

Laboratory ID: **VG21017-003**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 504.1 | 504.1 | 1 | 07/27/2020 1517 | JJG | 07/27/2020 0921 | 61339 |

| 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 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 72 | 57-137 |

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

# Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**
Description: **18686 WSW TB**
Date Sampled: **07/16/2020**
Date Received: **07/21/2020**

Laboratory ID: **VG21017-004**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 524.2 | 524.2 | 1 | 07/29/2020 1514 | TML | | 61606 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Ethylbenzene | 100-41-4 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Naphthalene | 91-20-3 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Toluene | 108-88-3 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Xylenes (total) | 1330-20-7 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| Bromofluorobenzene | | 84 | 70-130 |
| 1,2-Dichlorobenzene-d4 | | 90 | 70-130 |

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

# Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**
Description: **18686 WSW TB**
Date Sampled: **07/16/2020**
Date Received: **07/21/2020**

Laboratory ID: **VG21017-004**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260D | 1 | 07/28/2020 0130 | JAN | | 61413 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| tert-Amyl alcohol (TAA) | 75-85-4 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| tert-Amyl methyl ether (TAME) | 994-05-8 | 8260D | ND | | 10 | 0.42 | ug/L | 1 |
| tert-Butyl formate (TBF) | 762-75-4 | 8260D | ND | | 5.0 | 2.0 | ug/L | 1 |
| Diisopropyl ether (IPE) | 108-20-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| 3,3-Dimethyl-1-butanol | 624-95-3 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| Ethanol | 64-17-5 | 8260D | ND | | 100 | 52 | ug/L | 1 |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| tert-butyl alcohol (TBA) | 75-65-0 | 8260D | ND | | 20 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 96 | 70-130 |
| Toluene-d8 | | 98 | 70-130 |
| Bromofluorobenzene | | 102 | 70-130 |

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

# Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**
Laboratory ID: **VG21017-005**
Description: **18686 WSW FB**
Matrix: **Aqueous**
Date Sampled: **07/16/2020 1708**
Date Received: **07/21/2020**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 524.2 | 524.2 | 1 | 07/29/2020 1540 | TML | | 61606 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Ethylbenzene | 100-41-4 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Naphthalene | 91-20-3 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Toluene | 108-88-3 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Xylenes (total) | 1330-20-7 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| Bromofluorobenzene | | 81 | 70-130 |
| 1,2-Dichlorobenzene-d4 | | 92 | 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

# Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**
Description: **18686 WSW FB**
Date Sampled: **07/16/2020 1708**
Date Received: **07/21/2020**

Laboratory ID: **VG21017-005**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260D | 1 | 07/28/2020 0152 | JAN | | 61413 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| tert-Amyl alcohol (TAA) | 75-85-4 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| tert-Amyl methyl ether (TAME) | 994-05-8 | 8260D | ND | | 10 | 0.42 | ug/L | 1 |
| tert-Butyl formate (TBF) | 762-75-4 | 8260D | ND | | 5.0 | 2.0 | ug/L | 1 |
| Diisopropyl ether (IPE) | 108-20-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| 3,3-Dimethyl-1-butanol | 624-95-3 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| Ethanol | 64-17-5 | 8260D | ND | | 100 | 52 | ug/L | 1 |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| tert-butyl alcohol (TBA) | 75-65-0 | 8260D | ND | | 20 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 103 | 70-130 |
| Toluene-d8 | | 98 | 70-130 |
| Bromofluorobenzene | | 106 | 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

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 WSW FB**
Date Sampled: **07/16/2020 1708**
Date Received: **07/21/2020**

Laboratory ID: **VG21017-005**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 504.1 | 504.1 | 1 | 07/27/2020 1530 | JJG | 07/27/2020 0921 | 61339 |

| 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 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 71 | 57-137 |

4

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

Pace Analytical Services, LLC (*formerly Shealy Environmental Services, Inc.*)
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4

# Chain of Custody
# and
# Miscellaneous Documents

# CHAIN OF CUSTODY



SGS North America Inc. - Orlando
4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL 407-425-6700 FAX: 407-425-0707
www.sgs.com/ehsusa

SGS Job #: FA76963X

**Client / Reporting Information**

Company Name: SGS North America Inc.
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City: Orlando State: FL Zip: 32811
Project Contact: Email:
Phone #: 407-425-6700 Fax #:
Sampler(s) Name(s): MS

**Project Information**

Project Name: FA76963X
Street:
City: SC State:
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)**

VG524 BTEX, MTBE, NAPHTH, 1,2-DCA; VG250CXYS

VG524 BTEX, MTBE, NAPHTH, 1,2-DCA; VG250CXYS

VG21017

LJO

**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 Lab # | Field ID / Point of Collection | MEOH Vial # | Collection Date | Collection Time | Sampled by | Matrix | # of bottles | # of preserved bottles: HCl | H2SO4 | HNO3 | NaOH | ZnAc | NaHSO4 | Encore | VG524BTEX, MTBE, NAPHTH, 1,2-DCA; VG250CXYS | VG524 BTEX, MTBE, NAPHTH, 1,2-DCA; VG250CXYS | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4X | 18686 WSW-1 | | 7/16/20 | 11:44:00 AM | MS | DW | 9 | 6 | | | | | | 3 | X | | |
| 5X | 18686 WSW-3 | | 7/16/20 | 3:01:00 PM | MS | DW | 9 | 6 | | | | | | 3 | X | | |
| 7X | 18686 DUP D | | 7/16/20 | 11:46:00 AM | MS | DW | 9 | 6 | | | | | | 3 | X | | |
| 8X | 18686 WSW TB | | 7/16/20 | 12:00:00 AM | MS | DW | 4 | 4 | | | | | | | | X | |
| 9X | 18686 WSW FB | | 7/16/20 | 5:00:00 PM | MS | DW | 9 | 6 | | | | | | 3 | X | | |

Turnaround Time (Business days)

Approved By(SGS PM) / Date:

- Standard 10 Day (business)
- 5 Business Days RUSH
- 3 Business Days RUSH
- 2 Business Days RUSH
- 1 Business Day EMERGENCY
- X other 7

**Data Deliverable Information**

- Commercial "A" (Level 1)
- [X] Commercial "B" (Level 2)
- RRT1 (Level 3)
- FULL1 (Level 4)
- Commercial "C"
- State Forms
- EDD Format
- Other

Comm. "A" = Results Only
Comm. "B" = Results + QC Summary
Comm. "C" = Results + QC Summary + Partial Raw data

**Comments / Special Instructions**

Shealy

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

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 | Rcvd | 7/20/20 | 1 | 2 | | 2 |
| 3 | Relinquished by Sampler: | Date Time: 1700 | Received By: 3 | Relinquished By: 4 | Date Time: | Received By: 4 |
| 5 | Relinquished by: Fed Ex | Date Time: 1022 7/21/20 | Received By: 5 Cassandra Sims | Cooler Seal #: 20362 | Intact / Not Intact | Preservation Verified (pH<2)? Yes / No / N/A Therm. ID: 3.2 | Cooler: Y | Cooler Temp: 3.2 CMSJ 7/21/20 |

Shealy Environmental Services, Inc.
Document Number: MES0130-14


Effective Date: 8/2/2018

## Sample Receipt Checklist (SRC)

Client: SGS  Cooler inspected by/date: CMS 7/21/20  Lot #: VG21017

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: NA  Chlorine Strip ID: NA  Tested by: NA
Original temperature upon receipt / Derived (Corrected) temperature upon receipt  %Solid Snap-Cup ID: NA
3.2 / 3.2 °C  / °C  / °C  / °C
Method: ☐ Temperature Blank ☑ Against Bottles  IR Gun ID: 5  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? TB(3) |
| ☑ Yes | ☐ No | | 8. Was collection date & time listed on the COC? |
| ☐ Yes | ☑ No | | 9. Was collection date & time listed on all sample containers? (TB)(3) |
| ☑ 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 listed on the container label? If yes, Quote # NA |

**Sample Preservation** (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: $H_2SO_4$, $HNO_3$, HCl, NaOH using SR # NA.
Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) 002, 004 (3) TB (3) were received with bubbles >6 mm in diameter.

Samples(s) NA 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: NA

SR barcode labels applied by: CSM2  Date: 7/21/20

Comments:
A trip blank vial is missing therefore cannot discern trip blanks listed on first chain from those that are listed on the second chain

## Misc. Forms

5

# Custody Documents and Other Forms

**Includes the following where applicable:**

- **Chain of Custody**

FA76963

SGS

# SGS North America Inc - Orlando
## Chain of Custody

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

SGS - ORLANDO JOB #: PAGE 1 OF 2

SGS - ORLANDO Quote # | SKIFF #

**Client / Reporting Information**

Company Name: Geological Resources, Inc.
Address: 3502 Hayes Road
City: Monroe State: NC Zip: 28110
Project Contact: Scott Ball Email: wsb@geologicalresourcesinc.com
Phone #: 704-845-4010
Sampler(s) Name(s) (Printed)
Sampler 1: Matt Smith Sampler 2:

**Project Information**

Project Name: Tisdale's Quick Stop
Street: 1989 Thurgood Marshall Blvd
City: Kingstree State: SC
Project #: 1543
Fax #:
Client Purchase Order #:

**Analytical Information**

| SGS Orlando Sample # | Field ID / Point of Collection | Collection: 2020 Date | Time | Sampled By | Matrix | Total # of Bottles | Other | None | HCl | NaOH | HNO3 | H2SO4 | NaOH+ZnAc | Di Water | MeOH | BTEX MN, 1,2-DCA & DIAX EDB | EDB 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 | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 18686 - MW-1 | 7/16 | 1111 | MTS | GW | 5 | | | 5 | | | | | | | X | X | | |
| 2 | 18686 - MW-2 | 7/16 | 1123 | MTS | GW | 5 | | | 5 | | | | | | | X | X | | |
| 3 | 18686 - MW-3 | 7/16 | 1131 | MTS | GW | 5 | | | 5 | | | | | | | X | X | | |
| 4 | 18686 - MW-8 | 7/16 | 1321 | MTS | GW | 5 | | | 5 | | | | | | | X | X | | |
| 5 | 18686 - MW-14 | 7/16 | 1204 | MTS | GW | 5 | | | 5 | | | | | | | X | X | | |
| 6 | 18686 - MW-16R | 7/16 | 1431 | MTS | GW | 5 | | | 5 | | | | | | | X | X | | |
| 7 | 18686 - MW-17R | 7/16 | 1441 | MTS | GW | 5 | | | 5 | | | | | | | X | X | | |
| 8 | 18686 - MW-22 | 7/16 | 1516 | MTS | GW | 5 | | | 5 | | | | | | | X | X | | |
| 9 | 18686 - MW-23 | 7/16 | 1556 | MTS | GW | 5 | | | 5 | | | | | | | X | X | | |
| 10 | 18686 - MW-1A | 7/16 | 1341 | MTS | GW | 5 | | | 5 | | | | | | | X | X | | |
| 11 | 18686 - MW-2A | 7/16 | 1346 | MTS | GW | 5 | | | 5 | | | | | | | X | X | | |
| 12 | 18686 - MW-4A | 7/16 | 1331 | MTS | 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 T/A Data Available VIA Email or Lablink

**Data Deliverable Information**

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

INITIAL ASESSMENT B6
LABEL VERIFICATION MK

**Comments / Remarks**

UST # 18686
SCDHEC UST Management Division

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 Matt T Smith / GRI | 7/17/20 0730 | 2 Fx | 3 Fx | | 4 [signature] 07/18/20 10:15 |
| 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): 1.8

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

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031316

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FA76963: Chain of Custody
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FA76963

SGS

# SGS North America Inc - Orlando
## Chain of Custody

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

SGS - ORLANDO JOB # : PAGE 2 OF 2

SGS - ORLANDO Quote # | SKIFF #

**Client / Reporting Information**

Company Name: Geological Resources Inc
Address: 3502 Hayes Road
City: Monroe State: NC Zip: 28110
Project Contact: Scott Ball Email: ws0@geologicalresourcesinc.com
Phone #: 704-845-4010
Sampler(s) Name(s) (Printed)
Sampler 1: Matt Smith Sampler 2:

**Project Information**

Project Name: Tisdale's Quick Stop
Street: 1981 Thurgood Marshall Blvd
City: Kingstree State: SC
Project #: 1543
Fax #:
Client Purchase Order #:

**Analytical Information**

| SGS Orlando Sample # | Field ID / Point of Collection | Collection: 2020 DATE | Collection: TIME | Sampled By | Matrix | Total # of Bottles | Other | None | HCl | NaOH | HNO3 | H2SO4 | NaOH+ZnAc | Ol Water | Methyl | BTEXMN, 1,2-DCA, 80xys 8260 | EDB 8011 | BTEXMN, 1,2-DCA 524.2 | 8 oxygenate 8260 | EDB 504.1 | | | | | | | | Lab Use Only |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 18686-TW 2 | 7/16 | 1637 | MTS | GW | 5 | | | 5 | | | | | | | X | X | | | | | | | | | | | |
| 14 | 18686-WSW-1 | 7/16 | 1144 | MTS | DW | 9 | 3 | | 6 | | | | | | | | | X | X | X | | | | | | | | |
| 15 | 18686-WSW-3 | 7/16 | 1501 | MTS | DW | 9 | 3 | | 6 | | | | | | | | | X | X | X | | | | | | | | |
| 16 | 18686-DUPA | 7/16 | 1113 | MTS | GW | 5 | | | 5 | | | | | | | X | X | | | | | | | | | | | |
| 17 | 18686-DUPB | 7/16 | 1148 | MTS | DW | 9 | 3 | | 6 | | | | | | | | | X | X | X | | | | | | | | |
| 18 | 18686-WSW TB | 7/16 | - | - | LIQ | 4 | | | 4 | | | | | | | | | X | X | | | | | | | | | |
| 19 | 18686-WSW FB | 7/16 | 1708 | MTS | LIQ | 9 | 3 | | 6 | | | | | | | | | X | X | X | | | | | | | | |
| ~~20~~ | 18686-MW TB | 7/16 | - | - | LIQ | 2 | | | 2 | | | | | | | X | | | | | | | | | | | | |
| 21 | 18686-MW FB | 7/16 | 1704 | MTS | LIQ | 5 | | | 5 | | | | | | | 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

**Turnaround Time ( Business days)**

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

Approved By: / Date:

**Data Deliverable Information**

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

**Comments / Remarks**

UST # 18686
SEDHEC UST Management Division

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 Matt Smith / GRI | 7/17/20 0930 | 2 FX | 3 FX | | 4 [signature] 07/18/20 10:15 |
| 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

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

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FA76963: Chain of Custody
Page 2 of 4

# SGS Sample Receipt Summary

**Job Number:** FA76963 **Client:** GRI **Project:** TISDALE'S QUICK STOP

**Date / Time Received:** 7/18/2020 10:15:00 AM **Delivery Method:** FEDEX **Airbill #'s:** 100963781759

**Therm ID:** IR 1; **Therm CF:** -0.2; **# of Coolers:** N/A

**Cooler Temps (Raw Measured) °C:** Cooler 1: (2.0);

**Cooler Temps (Corrected) °C:** Cooler 1: (1.8);

| Cooler Information | Y | or | N |
|---|---|---|---|
| 1. Custody Seals Present | ☑ | | ☐ |
| 2. Custody Seals Intact | ☑ | | ☐ |
| 3. Temp criteria achieved | ☐ | | ☐ |
| 4. Cooler temp verification | N/A | | |
| 5. Cooler media | N/A | | |

| 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 RECEIVED BROKEN VIALS FOR 18686-MW TB

Technician: PhilipD Date: 7/18/2020 10:15:00 A Reviewer: _____ Date: _____

SM001
Rev. Date 05/24/17

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**CSR:** Muna Mohammed **Response Date:** 7/20/20

**Response:** One vial from WSW TB used for MW-TB analysis

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SM001
Rev. Date 05/24/17

FA76963: Chain of Custody
Page 4 of 4

## 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: FA76963
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 |
|---|---|---|---|---|---|---|---|
| VP2893-MB | P72920.D | 1 | 07/20/20 | SP | n/a | n/a | VP2893 |

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

FA76963-1, FA76963-4, FA76963-5, FA76963-9, FA76963-11, FA76963-13, FA76963-21

| 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 | 101% | 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 | 107% | 83-118% |

# Method Blank Summary



Job Number: FA76963
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 |
|---|---|---|---|---|---|---|---|
| VP2897-MB | P72979.D | 1 | 07/22/20 | SO | n/a | n/a | VP2897 |

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

FA76963-1, FA76963-2, FA76963-3, FA76963-6, FA76963-7, FA76963-8, FA76963-10, FA76963-11, FA76963-12, FA76963-16

| 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 | 102% | 79-125% |
| 2037-26-5 | Toluene-D8 | 105% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 107% | 83-118% |

# Method Blank Summary



Job Number: FA76963
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 |
|---|---|---|---|---|---|---|---|
| VP2898-MB | P73009.D | 1 | 07/23/20 | SO | n/a | n/a | VP2898 |

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

FA76963-6, FA76963-10, FA76963-16

| 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 | |
| 1330-20-7 | Xylene (total) | ND | 3.0 | 0.72 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 102% | 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 | 106% | 83-118% |

# Method Blank Summary



Job Number: FA76963
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 |
|---|---|---|---|---|---|---|---|
| VP2900-MB | P73068.D | 1 | 07/27/20 | SO | n/a | n/a | VP2900 |

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

FA76963-20

| 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 | 101% | 79-125% |
| 2037-26-5 | Toluene-D8 | 112% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 108% | 83-118% |

6.1.4

# Blank Spike Summary



Job Number: FA76963
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 |
|---|---|---|---|---|---|---|---|
| VP2893-BS | P72919.D | 1 | 07/20/20 | SP | n/a | n/a | VP2893 |

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

FA76963-1, FA76963-4, FA76963-5, FA76963-9, FA76963-11, FA76963-13, FA76963-21

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 25 | 26.5 | 106 | 81-122 |
| 107-06-2 | 1,2-Dichloroethane | 25 | 23.5 | 94 | 75-125 |
| 108-20-3 | Di-Isopropyl Ether | 25 | 26.9 | 108 | 68-123 |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | 1250 | 1270 | 102 | 55-126 |
| 64-17-5 | Ethyl Alcohol | 500 | 433 | 87 | 46-145 |
| 100-41-4 | Ethylbenzene | 25 | 27.0 | 108 | 81-121 |
| 637-92-3 | Ethyl Tert Butyl Ether | 25 | 24.0 | 96 | 71-120 |
| 1634-04-4 | Methyl Tert Butyl Ether | 25 | 24.7 | 99 | 72-117 |
| 91-20-3 | Naphthalene | 25 | 19.9 | 80 | 63-132 |
| 75-85-4 | Tert-Amyl Alcohol | 250 | 233 | 93 | 65-124 |
| 994-05-8 | Tert-Amyl Methyl Ether | 25 | 24.1 | 96 | 73-122 |
| 75-65-0 | Tert-Butyl Alcohol | 250 | 242 | 97 | 63-129 |
| 762-75-4 | Tert-Butyl Formate | 125 | 98.0 | 78 | 46-130 |
| 108-88-3 | Toluene | 25 | 26.2 | 105 | 80-120 |
| 1330-20-7 | Xylene (total) | 75 | 78.3 | 104 | 80-126 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 101% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92% | 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: FA76963
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 |
|---|---|---|---|---|---|---|---|
| VP2897-BS | P72976.D | 1 | 07/22/20 | SO | n/a | n/a | VP2897 |

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

FA76963-1, FA76963-2, FA76963-3, FA76963-6, FA76963-7, FA76963-8, FA76963-10, FA76963-11, FA76963-12, FA76963-16

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 25 | 22.0 | 88 | 81-122 |
| 107-06-2 | 1,2-Dichloroethane | 25 | 21.0 | 84 | 75-125 |
| 108-20-3 | Di-Isopropyl Ether | 25 | 22.5 | 90 | 68-123 |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | 1250 | 1080 | 86 | 55-126 |
| 64-17-5 | Ethyl Alcohol | 500 | 451 | 90 | 46-145 |
| 100-41-4 | Ethylbenzene | 25 | 22.2 | 89 | 81-121 |
| 637-92-3 | Ethyl Tert Butyl Ether | 25 | 20.9 | 84 | 71-120 |
| 1634-04-4 | Methyl Tert Butyl Ether | 25 | 24.7 | 99 | 72-117 |
| 91-20-3 | Naphthalene | 25 | 26.1 | 104 | 63-132 |
| 75-85-4 | Tert-Amyl Alcohol | 250 | 206 | 82 | 65-124 |
| 994-05-8 | Tert-Amyl Methyl Ether | 25 | 22.9 | 92 | 73-122 |
| 75-65-0 | Tert-Butyl Alcohol | 250 | 206 | 82 | 63-129 |
| 762-75-4 | Tert-Butyl Formate | 125 | 108 | 86 | 46-130 |
| 108-88-3 | Toluene | 25 | 21.4 | 86 | 80-120 |
| 1330-20-7 | Xylene (total) | 75 | 64.2 | 86 | 80-126 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | 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 | 103% | 83-118% |

* = Outside of Control Limits.

# Blank Spike Summary



Job Number: FA76963
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 |
|---|---|---|---|---|---|---|---|
| VP2898-BS | P73006.D | 1 | 07/23/20 | SO | n/a | n/a | VP2898 |

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

FA76963-6, FA76963-10, FA76963-16

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 25 | 21.9 | 88 | 81-122 |
| 107-06-2 | 1,2-Dichloroethane | 25 | 20.8 | 83 | 75-125 |
| 108-20-3 | Di-Isopropyl Ether | 25 | 22.5 | 90 | 68-123 |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | 1250 | 1090 | 87 | 55-126 |
| 64-17-5 | Ethyl Alcohol | 500 | 349 | 70 | 46-145 |
| 100-41-4 | Ethylbenzene | 25 | 21.6 | 86 | 81-121 |
| 637-92-3 | Ethyl Tert Butyl Ether | 25 | 20.6 | 82 | 71-120 |
| 1634-04-4 | Methyl Tert Butyl Ether | 25 | 24.8 | 99 | 72-117 |
| 91-20-3 | Naphthalene | 25 | 26.6 | 106 | 63-132 |
| 75-85-4 | Tert-Amyl Alcohol | 250 | 203 | 81 | 65-124 |
| 994-05-8 | Tert-Amyl Methyl Ether | 25 | 23.0 | 92 | 73-122 |
| 75-65-0 | Tert-Butyl Alcohol | 250 | 198 | 79 | 63-129 |
| 762-75-4 | Tert-Butyl Formate | 125 | 109 | 87 | 46-130 |
| 1330-20-7 | Xylene (total) | 75 | 62.4 | 83 | 80-126 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | 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% |

* = Outside of Control Limits.

# Blank Spike Summary



Job Number: FA76963
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 |
|---|---|---|---|---|---|---|---|
| VP2900-BS | P73066.D | 1 | 07/27/20 | SO | n/a | n/a | VP2900 |

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

FA76963-20

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 25 | 21.1 | 84 | 81-122 |
| 107-06-2 | 1,2-Dichloroethane | 25 | 20.6 | 82 | 75-125 |
| 108-20-3 | Di-Isopropyl Ether | 25 | 21.3 | 85 | 68-123 |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | 1250 | 1160 | 93 | 55-126 |
| 64-17-5 | Ethyl Alcohol | 500 | 333 | 67 | 46-145 |
| 100-41-4 | Ethylbenzene | 25 | 23.6 | 94 | 81-121 |
| 637-92-3 | Ethyl Tert Butyl Ether | 25 | 20.5 | 82 | 71-120 |
| 1634-04-4 | Methyl Tert Butyl Ether | 25 | 23.6 | 94 | 72-117 |
| 91-20-3 | Naphthalene | 25 | 29.7 | 119 | 63-132 |
| 75-85-4 | Tert-Amyl Alcohol | 250 | 216 | 86 | 65-124 |
| 994-05-8 | Tert-Amyl Methyl Ether | 25 | 22.3 | 89 | 73-122 |
| 75-65-0 | Tert-Butyl Alcohol | 250 | 204 | 82 | 63-129 |
| 762-75-4 | Tert-Butyl Formate | 125 | 107 | 86 | 46-130 |
| 108-88-3 | Toluene | 25 | 22.8 | 91 | 80-120 |
| 1330-20-7 | Xylene (total) | 75 | 68.1 | 91 | 80-126 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 95% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104% | 79-125% |
| 2037-26-5 | Toluene-D8 | 106% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 104% | 83-118% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



Job Number: FA76963
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 |
|---|---|---|---|---|---|---|---|
| FA76963-1MS | P72942.D | 200 | 07/20/20 | SP | n/a | n/a | VP2893 |
| FA76963-1MSD | P72943.D | 200 | 07/20/20 | SP | n/a | n/a | VP2893 |
| FA76963-1 | P72922.D | 200 | 07/20/20 | SP | n/a | n/a | VP2893 |

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

FA76963-1, FA76963-4, FA76963-5, FA76963-9, FA76963-11, FA76963-13, FA76963-21

| CAS No. | Compound | FA76963-1 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 | 79.2 | J | 5000 | 5790 | 114 | 5000 | 5720 | 113 | 1 | 81-122/14 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 5000 | 4940 | 99 | 5000 | 4750 | 95 | 4 | 75-125/14 |
| 108-20-3 | Di-Isopropyl Ether | ND | | 5000 | 5520 | 110 | 5000 | 5600 | 112 | 1 | 68-123/16 |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | ND | | 250000 | 286000 | 114 | 250000 | 245000 | 98 | 15 | 55-126/17 |
| 64-17-5 | Ethyl Alcohol | ND | | 100000 | 109000 | 109 | 100000 | 102000 | 102 | 7 | 46-145/30 |
| 100-41-4 | Ethylbenzene | 93.3 | J | 5000 | 5780 | 114 | 5000 | 5760 | 113 | 0 | 81-121/14 |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | | 5000 | 4870 | 97 | 5000 | 4750 | 95 | 2 | 71-120/14 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 5000 | 4900 | 98 | 5000 | 4870 | 97 | 1 | 72-117/14 |
| 91-20-3 | Naphthalene | ND | | 5000 | 3710 | 74 | 5000 | 3440 | 69 | 8 | 63-132/25 |
| 75-85-4 | Tert-Amyl Alcohol | ND | | 50000 | 53500 | 107 | 50000 | 50400 | 101 | 6 | 65-124/23 |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | | 5000 | 4820 | 96 | 5000 | 4750 | 95 | 1 | 73-122/13 |
| 75-65-0 | Tert-Butyl Alcohol | ND | | 50000 | 54200 | 108 | 50000 | 50600 | 101 | 7 | 63-129/27 |
| 762-75-4 | Tert-Butyl Formate | ND | | 25000 | 19600 | 78 | 25000 | 18200 | 73 | 7 | 46-130/33 |
| 108-88-3 | Toluene | 437 | | 5000 | 5990 | 111 | 5000 | 6010 | 111 | 0 | 80-120/14 |
| 1330-20-7 | Xylene (total) | 418 | J | 15000 | 16900 | 110 | 15000 | 16900 | 110 | 0 | 80-126/15 |

| CAS No. | Surrogate Recoveries | MS | MSD | FA76963-1 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | 99% | 102% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | 93% | 96% | 79-125% |
| 2037-26-5 | Toluene-D8 | 101% | 102% | 104% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | 102% | 107% | 83-118% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



Job Number: FA76963
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 |
|---|---|---|---|---|---|---|---|
| FA76963-6MS | P73000.D | 100 | 07/22/20 | SO | n/a | n/a | VP2897 |
| FA76963-6MSD | P73001.D | 100 | 07/22/20 | SO | n/a | n/a | VP2897 |
| FA76963-6 | P72986.D | 100 | 07/22/20 | SO | n/a | n/a | VP2897 |

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

FA76963-1, FA76963-2, FA76963-3, FA76963-6, FA76963-7, FA76963-8, FA76963-10, FA76963-11, FA76963-12, FA76963-16

| CAS No. | Compound | FA76963-6 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 | 185 | | 2500 | 2670 | 99 | 2500 | 2500 | 93 | 7 | 81-122/14 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 2500 | 2480 | 99 | 2500 | 2200 | 88 | 12 | 75-125/14 |
| 108-20-3 | Di-Isopropyl Ether | ND | | 2500 | 2530 | 101 | 2500 | 2390 | 96 | 6 | 68-123/16 |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | ND | | 125000 | 113000 | 90 | 125000 | 109000 | 87 | 4 | 55-126/17 |
| 64-17-5 | Ethyl Alcohol | ND | | 50000 | 42400 | 85 | 50000 | 39800 | 80 | 6 | 46-145/30 |
| 100-41-4 | Ethylbenzene | 578 | | 2500 | 3100 | 101 | 2500 | 2860 | 91 | 8 | 81-121/14 |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | | 2500 | 2350 | 94 | 2500 | 2200 | 88 | 7 | 71-120/14 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 2500 | 2840 | 114 | 2500 | 2620 | 105 | 8 | 72-117/14 |
| 91-20-3 | Naphthalene | ND | | 2500 | 3010 | 120 | 2500 | 2880 | 115 | 4 | 63-132/25 |
| 75-85-4 | Tert-Amyl Alcohol | ND | | 25000 | 22900 | 92 | 25000 | 21800 | 87 | 5 | 65-124/23 |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | | 2500 | 2600 | 104 | 2500 | 2440 | 98 | 6 | 73-122/13 |
| 75-65-0 | Tert-Butyl Alcohol | ND | | 25000 | 21100 | 84 | 25000 | 21000 | 84 | 0 | 63-129/27 |
| 762-75-4 | Tert-Butyl Formate | ND | | 12500 | 11700 | 94 | 12500 | 11000 | 88 | 6 | 46-130/33 |
| 108-88-3 | Toluene | 4420 | | 2500 | 6790 | 95 | 2500 | 6250 | 73* | 8 | 80-120/14 |
| 1330-20-7 | Xylene (total) | 4720 | | 7500 | 12200 | 100 | 7500 | 11200 | 86 | 9 | 80-126/15 |

| CAS No. | Surrogate Recoveries | MS | MSD | FA76963-6 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | 100% | 101% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109% | 105% | 105% | 79-125% |
| 2037-26-5 | Toluene-D8 | 99% | 99% | 104% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 100% | 102% | 83-118% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



Job Number: FA76963
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 |
|---|---|---|---|---|---|---|---|
| FA76963-6MS | P73030.D | 50 | 07/23/20 | SO | n/a | n/a | VP2898 |
| FA76963-6MSD | P73031.D | 50 | 07/23/20 | SO | n/a | n/a | VP2898 |
| FA76963-6 | P73015.D | 50 | 07/23/20 | SO | n/a | n/a | VP2898 |

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

FA76963-6, FA76963-10, FA76963-16

| CAS No. | Compound | FA76963-6 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 | 209 | | 1250 | 1530 | 106 | 1250 | 1400 | 95 | 9 | 81-122/14 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 1250 | 1200 | 96 | 1250 | 1130 | 90 | 6 | 75-125/14 |
| 108-20-3 | Di-Isopropyl Ether | ND | | 1250 | 1300 | 104 | 1250 | 1220 | 98 | 6 | 68-123/16 |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | ND | | 62500 | 63200 | 101 | 62500 | 56100 | 90 | 12 | 55-126/17 |
| 64-17-5 | Ethyl Alcohol | ND | | 25000 | 21500 | 86 | 25000 | 20000 | 80 | 7 | 46-145/30 |
| 100-41-4 | Ethylbenzene | 652 | | 1250 | 2010 | 109 | 1250 | 1840 | 95 | 9 | 81-121/14 |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | | 1250 | 1210 | 97 | 1250 | 1130 | 90 | 7 | 71-120/14 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 1250 | 1430 | 114 | 1250 | 1360 | 109 | 5 | 72-117/14 |
| 91-20-3 | Naphthalene | 54.9 | J | 1250 | 1600 | 124 | 1250 | 1480 | 114 | 8 | 63-132/25 |
| 75-85-4 | Tert-Amyl Alcohol | ND | | 12500 | 12200 | 98 | 12500 | 10900 | 87 | 11 | 65-124/23 |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | | 1250 | 1320 | 106 | 1250 | 1260 | 101 | 5 | 73-122/13 |
| 75-65-0 | Tert-Butyl Alcohol | ND | | 12500 | 11000 | 88 | 12500 | 10100 | 81 | 9 | 63-129/27 |
| 762-75-4 | Tert-Butyl Formate | ND | | 6250 | 6270 | 100 | 6250 | 6000 | 96 | 4 | 46-130/33 |
| 1330-20-7 | Xylene (total) | 5340 | | 3750 | 9500 | 111 | 3750 | 8730 | 90 | 8 | 80-126/15 |

| CAS No. | Surrogate Recoveries | MS | MSD | FA76963-6 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | 100% | 100% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 106% | 100% | 104% | 79-125% |
| 2037-26-5 | Toluene-D8 | 98% | 98% | 102% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 100% | 102% | 83-118% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



Job Number: FA76963
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 |
|---|---|---|---|---|---|---|---|
| FA77143-1MS | P73089.D | 20 | 07/27/20 | SO | n/a | n/a | VP2900 |
| FA77143-1MSD | P73090.D | 20 | 07/27/20 | SO | n/a | n/a | VP2900 |
| FA77143-1 | P73072.D | 20 | 07/27/20 | SO | n/a | n/a | VP2900 |

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

FA76963-20

| CAS No. | Compound | FA77143-1 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 | 16.1 | J | 500 | 505 | 98 | 500 | 454 | 88 | 11 | 81-122/14 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 500 | 471 | 94 | 500 | 429 | 86 | 9 | 75-125/14 |
| 108-20-3 | Di-Isopropyl Ether | ND | | 500 | 484 | 97 | 500 | 458 | 92 | 6 | 68-123/16 |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | ND | | 25000 | 27500 | 110 | 25000 | 26000 | 104 | 6 | 55-126/17 |
| 64-17-5 | Ethyl Alcohol | ND | | 10000 | 9860 | 99 | 10000 | 8980 | 90 | 9 | 46-145/30 |
| 100-41-4 | Ethylbenzene | 316 | | 500 | 911 | 119 | 500 | 841 | 105 | 8 | 81-121/14 |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | | 500 | 448 | 90 | 500 | 419 | 84 | 7 | 71-120/14 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 500 | 533 | 107 | 500 | 498 | 100 | 7 | 72-117/14 |
| 91-20-3 | Naphthalene | 374 | | 500 | 1140 | 153* | 500 | 1040 | 133* | 9 | 63-132/25 |
| 75-85-4 | Tert-Amyl Alcohol | ND | | 5000 | 4950 | 99 | 5000 | 4570 | 91 | 8 | 65-124/23 |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | | 500 | 493 | 99 | 500 | 462 | 92 | 6 | 73-122/13 |
| 75-65-0 | Tert-Butyl Alcohol | ND | | 5000 | 4700 | 94 | 5000 | 4420 | 88 | 6 | 63-129/27 |
| 762-75-4 | Tert-Butyl Formate | ND | | 2500 | 2380 | 95 | 2500 | 2250 | 90 | 6 | 46-130/33 |
| 108-88-3 | Toluene | 315 | | 500 | 850 | 107 | 500 | 785 | 94 | 8 | 80-120/14 |
| 1330-20-7 | Xylene (total) | 3200 | | 1500 | 5000 | 120 | 1500 | 4590 | 93 | 9 | 80-126/15 |

| CAS No. | Surrogate Recoveries | MS | MSD | FA77143-1 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 96% | 96% | 98% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 106% | 105% | 102% | 79-125% |
| 2037-26-5 | Toluene-D8 | 105% | 108% | 110% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 102% | 100% | 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: FA76963
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 |
|---|---|---|---|---|---|---|---|
| OP81158-MB | DD1121386.D | 1 | 07/20/20 | KB | 07/20/20 | OP81158 | GDD3247 |

The QC reported here applies to the following samples: Method: SW846 8011

FA76963-1, FA76963-2, FA76963-3, FA76963-4, FA76963-5, FA76963-6, FA76963-7, FA76963-8, FA76963-9, FA76963-10, FA76963-11, FA76963-12, FA76963-13, FA76963-16, FA76963-21

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

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

# Blank Spike Summary



Job Number: FA76963
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 |
|---|---|---|---|---|---|---|---|
| OP81158-BS | DD1121384.D | 1 | 07/20/20 | KB | 07/20/20 | OP81158 | GDD3247 |

The QC reported here applies to the following samples: Method: SW846 8011

FA76963-1, FA76963-2, FA76963-3, FA76963-4, FA76963-5, FA76963-6, FA76963-7, FA76963-8, FA76963-9, FA76963-10, FA76963-11, FA76963-12, FA76963-13, FA76963-16, FA76963-21

| 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 | 91% | 63-137% |

* = Outside of Control Limits.

# Blank Spike Summary



Job Number: FA76963
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 |
|---|---|---|---|---|---|---|---|
| OP81158-BS2 | DD1121385.D | 1 | 07/20/20 | KB | 07/20/20 | OP81158 | GDD3247 |

The QC reported here applies to the following samples: Method: SW846 8011

FA76963-1, FA76963-2, FA76963-3, FA76963-4, FA76963-5, FA76963-6, FA76963-7, FA76963-8, FA76963-9, FA76963-10, FA76963-11, FA76963-12, FA76963-13, FA76963-16, FA76963-21

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 106-93-4 | 1,2-Dibromoethane | 0.25 | 0.21 | 84 | 72-134 |

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

* = Outside of Control Limits.

# Matrix Spike Summary



Job Number: FA76963
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 |
|---|---|---|---|---|---|---|---|
| OP81158-MS | DD1121411.D | 1 | 07/20/20 | KB | 07/20/20 | OP81158 | GDD3247 |
| FA76963-1 | DD1121387.D | 1 | 07/20/20 | KB | 07/20/20 | OP81158 | GDD3247 |

The QC reported here applies to the following samples: Method: SW846 8011

FA76963-1, FA76963-2, FA76963-3, FA76963-4, FA76963-5, FA76963-6, FA76963-7, FA76963-8, FA76963-9, FA76963-10, FA76963-11, FA76963-12, FA76963-13, FA76963-16, FA76963-21

| CAS No. | Compound | FA76963-1 ug/l | Q | Spike ug/l | MS ug/l | MS % | Limits |
|---|---|---|---|---|---|---|---|
| 106-93-4 | 1,2-Dibromoethane | ND | | 0.236 | 0.21 | 89 | 72-134 |

| CAS No. | Surrogate Recoveries | MS | FA76963-1 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 87% | 79% | 63-137% |

* = Outside of Control Limits.

# Duplicate Summary



Job Number: FA76963
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 |
|---|---|---|---|---|---|---|---|
| OP81158-DUP | DD1121412.D | 1 | 07/20/20 | KB | 07/20/20 | OP81158 | GDD3247 |
| FA76963-2 | DD1121388.D | 1 | 07/20/20 | KB | 07/20/20 | OP81158 | GDD3247 |

The QC reported here applies to the following samples: Method: SW846 8011

FA76963-1, FA76963-2, FA76963-3, FA76963-4, FA76963-5, FA76963-6, FA76963-7, FA76963-8, FA76963-9, FA76963-10, FA76963-11, FA76963-12, FA76963-13, FA76963-16, FA76963-21

| CAS No. | Compound | FA76963-2 ug/l | Q | DUP ug/l | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 106-93-4 | 1,2-Dibromoethane | ND | | ND | | nc | 28 |

| CAS No. | Surrogate Recoveries | DUP | FA76963-2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 72% | 66% | 63-137% |

* = Outside of Control Limits.

7.4.1

7

**APPENDIX B**

Field Data Information Sheets

dhec

# Underground Storage Tank Management Division
## Field Data Information Sheet – Monitoring Well Gauging

**Site Information**

| | | |
|---|---|---|
| Date: 7/16/2020 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop |
| County: Williamsburg | Project Manager: Arthur Brown | Field Personnel: Matt Smith |

**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 | 20.16 | 10.00-20.00 | N/A | 12.63 | N/A | N/A | Y | Y | N | Y |
| MW-2 | 25.12 | 10.00-25.00 | N/A | 12.88 | N/A | N/A | Y | Y | N | N |
| MW-3 | 25.27 | 10.00-25.00 | N/A | 12.77 | N/A | N/A | Y | Y | N | N |
| MW-4 | | 10.00-25.00 | | | | | | | | |
| MW-8 | 21.37 | 12.00-22.00 | N/A | 12.46 | N/A | N/A | Y | Y | N | N |
| MW-14 | 23.77 | 10.00-25.00 | N/A | 12.76 | N/A | N/A | Y | Y | N | N |
| MW-16R | 24.62 | 10.00-25.00 | N/A | 12.75 | N/A | N/A | Y | Y | Y | Y |
| MW-17R | 25.05 | 10.00-25.00 | N/A | 12.22 | N/A | N/A | Y | Y | Y | N |
| MW-22 | 24.00 | 10.00-25.00 | N/A | 13.17 | N/A | N/A | Y | Y | N | N |
| MW-23 | 22.40 | 9.00-24.00 | N/A | 12.99 | N/A | N/A | Y | Y | N | N |
| MW-1A | 20.85 | Unknown | N/A | 12.22 | N/A | N/A | Y | Y | N | N |
| MW-2A | 20.69 | Unknown | N/A | 12.36 | N/A | N/A | Y | Y | N | N |
| MW-3A | | | | | | | | | | |

Notes: MW-3A & MW-4 could not be located

Signature: Matthew T Smith

dhec

# Underground Storage Tank Management Division
# Field Data Information Sheet – Monitoring Well Gauging

## Site Information

| | | |
|---|---|---|
| Date: 7/16/2020 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop |
| County: Williamsburg | Project Manager: Arthur Brown | Field Personnel: Matt Smith |

## 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-4A | 20.40 | Unknown | N/A | 12.69 | N/A | N/A | Y | Y | N | N |
| TW-2 | 51.00 | 46.00-51.00 | N/A | 12.22 | N/A | N/A | Y | Y | N | N |
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Notes: _____

Signature: Matt T Smith

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 7/16/2020 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Matt Smith |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 84°F |

## Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 63~~ (pH, Specific Conductivity, Temperature) YSI 556 | 11B100638 | 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) YSI 556 | 11B100638 | (Y) or N | | | |
| ~~LaMotte~~ (Turbidity) HACH 2100Q | 160300C048860 | 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~~ in): 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.): 10.00 to 20.00 | Total Well Depth (TWD) (ft.): 20.16 | |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 12.63 | Free Product Thickness (ft.): N/A | |
| Length of water column (LWC=TWD-DGW)(ft.): 7.53 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 1111 | | | | | | | |
| PH (s.u.) | 5.66 | | | | | | | |
| Specific Conductivity (µS/cm) | 103 | | | | | | | |
| Water Temperature (°C) | 25.75 | | | | | | | |
| Turbidity (NTU) | 8.09 | | | | | | | |
| Dissolved Oxygen (mg/L) | 2.53 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: M. Smith | Sampling Time: 1111 | Duplicate: (Y) or N | If yes, Duplicate Time: 1113 |

Notes: No purge DUPA

Signature: Matthew T Smith

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 7/16/2020 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Matt Smith |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 84 |

## Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 63~~ (pH, Specific Conductivity, Temperature) YSI 556 | 11B100638 | 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) YSI 556 | 11B100638 | (Y) or N | | | |
| ~~LaMotte~~ (Turbidity) HACH 2100Q | 160300C048860 | 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.): 10.00 to 25.00 | | Total Well Depth (TWD) (ft.): 25.12 |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 12.88 | | Free Product Thickness (ft.): N/A |
| Length of water column (LWC=TWD-DGW)(ft.): 12.24 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 1123 | | | | | | | |
| PH (s.u.) | 5.82 | | | | | | | |
| Specific Conductivity (µS/cm) | 217 | | | | | | | |
| Water Temperature (°C) | 25.07 | | | | | | | |
| Turbidity (NTU) | 15.4 | | | | | | | |
| Dissolved Oxygen (mg/L) | ~~2.99~~ 5.4 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: M. Smith | Sampling Time: 1123 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: No Purge

Signature: Matthew T Smith

dhec

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 7/16/2020 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Matt Smith |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 84 |

## Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 63~~ (pH, Specific Conductivity, Temperature) YSI 556 | 11B100638 | 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) YSI 556 | 11B100638 | (Y) or N | | | |
| ~~LaMotte~~ (Turbidity) HACH 2100Q | 160300C048B6E0 | 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.): 10.00 to 25.00 | | Total Well Depth (TWD) (ft.): 25.27 |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 12.77 | | Free Product Thickness (ft.): N/A |
| Length of water column (LWC=TWD-DGW)(ft.): 12.50 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 1131 | | | | | | | |
| PH (s.u.) | 5.54 | | | | | | | |
| Specific Conductivity (µS/cm) | 76 | | | | | | | |
| Water Temperature (°C) | 24.13 | | | | | | | |
| Turbidity (NTU) | 25.5 | | | | | | | |
| Dissolved Oxygen (mg/L) | 5.25 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: M. Smith | Sampling Time: 1131 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: No Purge

Signature: Matthew T Smith

dhec

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 7/16/2020 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Matt Smith |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 91 |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 63~~ (pH, Specific Conductivity, Temperature) YSI 556 | 11B100638 | 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) YSI 556 | 11B100638 | (Y) or N | | | |
| ~~LaMotte~~ (Turbidity) HACH 2100Q | 160300C048860 | 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.): 10.00 to 25.00 | 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*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: M. Smith | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Could not locate

Signature: Matthew T Smith

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 7/16/2020 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Matt Smith |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 91 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | | |
| ~~YSI 63~~ (pH, Specific Conductivity, Temperature) YSI 556 | 11B100638 | 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) YSI 556 | 11B100638 | (Y) or N | | | |
| ~~LaMotte~~ (Turbidity) HACH 2100Q | 160300C048860 | 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.): 12.00 to 22.00 | | Total Well Depth (TWD) (ft.): 21.37 |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 12.46 | | Free Product Thickness (ft.): N/A |
| Length of water column (LWC=TWD-DGW)(ft.): 8.91 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 1321 | | | | | | | |
| PH (s.u.) | 6.23 | | | | | | | |
| Specific Conductivity (µS/cm) | 77 | | | | | | | |
| Water Temperature (°C) | 25.49 | | | | | | | |
| Turbidity (NTU) | 95.8 | | | | | | | |
| Dissolved Oxygen (mg/L) | 4.15 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: M. Smith | Sampling Time: 1321 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: NO Purge

Signature: Matthew T Smith

dhec

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 7/16/2020 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Matt Smith |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 84 |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 63~~ (pH, Specific Conductivity, Temperature) YSI 556 | 11B100638 | 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) YSI 556 | 11B100638 | (Y) or N | | | |
| ~~LaMotte~~ (Turbidity) HACH 2100Q | 10030C04886D | 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 (~~in~~): 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.): 10.00 to 25.00 | | Total Well Depth (TWD) (ft.): 23.77 |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 12.76 | | Free Product Thickness (ft.): N/A |
| Length of water column (LWC=TWD-DGW)(ft.): 11.01 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*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.) | 6.58 | | | | | | | |
| Specific Conductivity (µS/cm) | 148 | | | | | | | |
| Water Temperature (°C) | 27.15 | | | | | | | |
| Turbidity (NTU) | 5.35 | | | | | | | |
| Dissolved Oxygen (mg/L) | 2.36 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: M. Smith | Sampling Time: 1204 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: NO Purge

Signature: Matthew T Smith

dhec

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 7/16/2020 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Matt Smith |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 94 |

## Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 63~~ (pH, Specific Conductivity, Temperature) YSI 556 | 11B100638 | 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) YSI 556 | 11B100638 | (Y) or N | | | |
| ~~LaMotte~~ (Turbidity) HACH 2100Q | 160300C048860 | 0.0 NTU: (Y) or N | 1.0 NTU: (Y) or N | 10.0 NTU: (Y) or N | |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-16R | 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.): 10.00 to 25.00 | Total Well Depth (TWD) (ft.): 24.62 |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 12.75 | | Free Product Thickness (ft.): N/A |
| Length of water column (LWC=TWD-DGW)(ft.): 11.87 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 1431 | | | | | | | |
| PH (s.u.) | 6.60 | | | | | | | |
| Specific Conductivity (µS/cm) | 578 | | | | | | | |
| Water Temperature (°C) | 25.44 | | | | | | | |
| Turbidity (NTU) | 71.3 | | | | | | | |
| Dissolved Oxygen (mg/L) | 2.93 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: M. Smith | Sampling Time: 1431 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: No Purge

Signature: Matthew T Smith

dhec

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 7/16/2020 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Matt Smith |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 94 |

## Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 63~~ (pH, Specific Conductivity, Temperature) YSI 556 | 11B100638 | 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) YSI 556 | 11B100638 | (Y) or N | | | |
| ~~LaMotte~~ (Turbidity) HACH 2100Q | 160300C048860 | 0.0 NTU: (Y) or N | 1.0 NTU: (Y) or N | 10.0 NTU: (Y) or N | |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-17R | Well Diameter ~~(in.)~~: 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.): 10.00 to 25.00 | | Total Well Depth (TWD) (ft.): 25.05 |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 12.22 | | Free Product Thickness (ft.): N/A |
| Length of water column (LWC=TWD-DGW)(ft.): 12.83 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 1441 | | | | | | | |
| PH (s.u.) | 6.32 | | | | | | | |
| Specific Conductivity (µS/cm) | 107 | | | | | | | |
| Water Temperature (°C) | 24.43 | | | | | | | |
| Turbidity (NTU) | 17.2 | | | | | | | |
| Dissolved Oxygen (mg/L) | 2.51 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: M. Smith | Sampling Time: 1441 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: No Purge

Signature: Matthew T Smith

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 7/16/2020 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Matt Smith |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 94 |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 63~~ (pH, Specific Conductivity, Temperature) YSI 556 | 11B100638 | 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) YSI 556 | 11B100638 | (Y) or N | | | |
| ~~LaMotte~~ (Turbidity) HACH 2100Q | 160300C048864 | 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.): 10.00 to 25.00 | Total Well Depth (TWD) (ft.): 24.00 |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): ~~12.22~~ 13.17 | | Free Product Thickness (ft.): N/A |
| Length of water column (LWC=TWD-DGW)(ft.): 10.83 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 1516 | | | | | | | |
| PH (s.u.) | 5.47 | | | | | | | |
| Specific Conductivity (µS/cm) | 29 | | | | | | | |
| Water Temperature (°C) | 23.77 | | | | | | | |
| Turbidity (NTU) | 88.7 | | | | | | | |
| Dissolved Oxygen (mg/L) | 5.85 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: M. Smith | Sampling Time: 1516 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: NO Purge

Signature: Matthew T Smith

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 7/16/2020 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Matt Smith |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 94 |

## Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 63~~ (pH, Specific Conductivity, Temperature) YSI 556 | 11B100638 | 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) YSI 556 | 11B100638 | (Y) or N | | | |
| ~~LaMotte~~ (Turbidity) HACH 2100Q | 160300C04886D | 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 (in.): 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.): 9.00 to 24.00 | | Total Well Depth (TWD) (ft.): 22.40 |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 12.99 | | Free Product Thickness (ft.): N/A |
| Length of water column (LWC=TWD-DGW)(ft.): 9.41 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 1556 | | | | | | | |
| PH (s.u.) | 5.63 | | | | | | | |
| Specific Conductivity (µS/cm) | 55 | | | | | | | |
| Water Temperature (°C) | 24.09 | | | | | | | |
| Turbidity (NTU) | 75.2 | | | | | | | |
| Dissolved Oxygen (mg/L) | 2.72 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: M. Smith | Sampling Time: 1556 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: NO Purge

Signature: Matthew T Smith

dhec

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 7/16/2020 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Matt Smith |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 91 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | | |
| ~~YSI 63~~ (pH, Specific Conductivity, Temperature) YSI 556 | 11B100638 | 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) YSI 556 | 11B100638 | (Y) or N | | | |
| ~~LaMotte~~ (Turbidity) HACH 2100Q | 160300C048860 | 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.): unknown to | Total Well Depth (TWD) (ft.): 20.85 | |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 12.22 | Free Product Thickness (ft.): N/A | |
| Length of water column (LWC=TWD-DGW)(ft.): 8.63 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*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.) | 6.19 | | | | | | | |
| Specific Conductivity (µS/cm) | 316 | | | | | | | |
| Water Temperature (°C) | 23.08 | | | | | | | |
| Turbidity (NTU) | 20.1 | | | | | | | |
| Dissolved Oxygen (mg/L) | 2.56 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: M. Smith | Sampling Time: 1341 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: NO Purge

Signature: Matthew T Smith

dhec

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 7/16/2020 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Matt Smith |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 91 |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 63~~ (pH, Specific Conductivity, Temperature) YSI 556 | 11B100638 | 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) YSI 556 | 11B100638 | (Y) or N | | | |
| ~~LaMotte~~ (Turbidity) HACH 2100Q | 160300C048860 | 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.): Unknown to | | Total Well Depth (TWD) (ft.): 20.69 |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 12.36 | | Free Product Thickness (ft.): N/A |
| Length of water column (LWC=TWD-DGW)(ft.): 8.33 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 1346 | | | | | | | |
| PH (s.u.) | 5.86 | | | | | | | |
| Specific Conductivity (µS/cm) | 169 | | | | | | | |
| Water Temperature (°C) | 22.80 | | | | | | | |
| Turbidity (NTU) | 21.2 | | | | | | | |
| Dissolved Oxygen (mg/L) | 1.69 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: M. Smith | Sampling Time: 1346 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: No purge

Signature: Matthew T Smith

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 7/16/2020 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Matt Smith |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 91 |

## Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 63~~ (pH, Specific Conductivity, Temperature) YSI 556 | 11B100638 | 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) YSI 556 | 11B100638 | (Y) or N | | | |
| ~~LaMotte~~ (Turbidity) HACH 2100Q | 160300C048B6O | 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.): Unknown 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*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: M. Smith | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Could Not Locate

Signature: Matthew T Smith

dhec

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 7/16/2020 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Matt Smith |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 91 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | | |
| ~~YSI 63~~ (pH, Specific Conductivity, Temperature) YSI 556 | 11B100638 | 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) YSI 556 | 11B100638 | (Y) or N | | | |
| ~~LaMotte~~ (Turbidity) HACH 2100Q | 160300C048860 | 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.): Unknown to | | Total Well Depth (TWD) (ft.): 20.40 |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 12.09 | | Free Product Thickness (ft.): N/A |
| Length of water column (LWC=TWD-DGW)(ft.): 7.71 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 1331 | | | | | | | |
| PH (s.u.) | 6.06 | | | | | | | |
| Specific Conductivity (µS/cm) | 104 | | | | | | | |
| Water Temperature (°C) | 24.49 | | | | | | | |
| Turbidity (NTU) | 27.3 | | | | | | | |
| Dissolved Oxygen (mg/L) | 2.21 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: M. Smith | Sampling Time: 1331 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: No Purge

Signature: Matthew T Smith

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 7/16/2020 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Matt Smith |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 94 |

## Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 63~~ (pH, Specific Conductivity, Temperature) YSI 556 | 11B100638 | 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) YSI 556 | 11B100638 | (Y) or N | | | |
| ~~LaMotte~~ (Turbidity) HACH 2100Q | 160300C048860 | 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.): 46.00 to 51.00 | | Total Well Depth (TWD) (ft.): 51.00 |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 12.22 | | Free Product Thickness (ft.): N/A |
| Length of water column (LWC=TWD-DGW)(ft.): 38.78 | 1 casing volume (CV=LWC*C)(gals): 6.3 | 3 casing volumes 3*CV)(gals): 18.9 | 5 casing volumes (5*CV)(gals): 31.5 |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 6.5 | 13.0 | 19.5 | | | | |
| Time (military) | 1611 | 1619 | 1628 | 1637 | | | | |
| PH (s.u.) | 6.02 | 6.03 | 5.98 | 6.04 | | | | |
| Specific Conductivity (µS/cm) | 48 | 94 | 122 | 151 | | | | |
| Water Temperature (°C) | 25.04 | 23.39 | 21.52 | 20.95 | | | | |
| Turbidity (NTU) | 33.3 | 79.7 | 89.9 | 29.9 | | | | |
| Dissolved Oxygen (mg/L) | 4.33 | 3.80 | 1.81 | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: M. Smith | Sampling Time: 1637 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: ___

Signature: Matthew T Smith

**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 4) | X | | |
| 40 | Has the site potentiometric map been provided? (Figure 3) | 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? | | | X |
| 44 | Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix A) | X | | |
| 45 | Is the laboratory performing the analyses properly certified? | X | | |
| 46 | Has the tax map been included with all necessary elements? | | | X |
| 47 | Have the soil boring/field screening logs been provided? | | | X |
| 48 | Have the well completion logs and SCDHEC Form 1903 been provided? | | | X |
| 49 | Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? | | | X |
| 50 | Have the disposal manifests been provided? (Appendix C) | | | X |
| 51 | Has a copy of the local zoning regulations been provided? | | | X |
| 52 | Has all fate and transport modeling been provided? | | | X |
| 53 | Have copies of all access agreements obtained by the contractor been provided? | | | 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? (Appendix D) | X | | |

Explanation for missing or incomplete information

dhec
Healthy People. Healthy Communities.

OCT 0 1 2020

UST 73 DOCKETING

MARTY EASLER
196 RICHBURG ROAD
GREELEYVILLE SC 29056

Re: **Aggressive Fluid and Vapor Recovery Notice to Proceed**
Tisdales Quick Stop, 1989 Thurgood Marshall Boulevard (Highway 527), Kingstree, SC
UST Permit #18686; CA #62517
Release reported March 30, 2001
Monitoring Report received August 17, 2020
Williamsburg County

Dear Mr. Easler:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the above referenced report which documents free-phase product (FPP) or Chemicals of Concern (CoC) in the subsurface as a result of the above referenced release.

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations R.61-92, an Aggressive Fluid and Vapor Recovery (AFVR) event may proceed immediately upon receipt of this letter as outlined in this directive and the current revision of the UST Quality Assurance Program Plan (QAPP). One 96-hour event utilizing monitoring wells MW-2A and MW-4A should be performed. The stingers shall be lowered at six inch intervals starting at the water table interface to a target depth of 17 feet. **Please be aware that the AFVR Procedures have been updated.** Please advance to the target depth(s) within the first eight (8) hours of the event. Thereafter, the stinger(s) 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 the current revision of the UST Division's QAPP is available at https://scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance.

**As soon as the beginning date of the event has been scheduled, please contact the Project Manager listed below.**

**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.

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 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 CoC concentrations, based on laboratory analysis, are below Risk Based Screening Levels, 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) 898-0500, by fax at (803) 898-0673, or by e-mail at brownaj@dhec.sc.gov.

Sincerely,

for

Arthur Brown, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Geological Resources, Inc, 3502 Hayes Road, Monroe, NC 28110 (w/enc)
Technical file (w/enc)

# Approved Cost Agreement 62517

Facility: 18686 TISDALES QUICK STOP
BROWNAJ
PO Number:

| Task / Description Categories | Item Description | Qty / Pct | Unit Price | Amount |
|---|---|---|---|---|
| S REPORT PROJECT MANAGEMENT | | | | |
| | S REPORT PREP & PROJ. MANAGEMENT | 0.1200 | $24,276.380 | 2,913.17 |
| W AFVR | | | | |
| | 14 AFVR SITE RECONNAISSANCE | 1.0000 | $216.870 | 216.87 |
| | 16 AFVR EFFLUENT DISPOSAL | 20,000.0000 | $0.470 | 9,400.00 |
| | 17 AFVR MOB - DEMOB | 1.0000 | $417.730 | 417.73 |
| | 4 96 HOUR EVENT | 1.0000 | $13,409.520 | 13,409.52 |
| | 8 OFF GAS TREATMENT 96 HOUR | 1.0000 | $832.260 | 832.26 |
| | | **Total Amount** | | 27,189.55 |

**Geological Resources, Inc.**

UST
NOV 20 2020
PROGRAM

November 18, 2020

Mr. Arthur Brown, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

UST
74
Tech
DOCKETING

Re: AFVR Report
Tisdales Quick Stop (Former)
1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County
UST Permit #18686
Cost Agreement #62517
GRI Project No. 1543

Dear Mr. Brown:

The purpose of this report is to present the results of aggressive fluid and vapor recovery (AFVR) activities conducted in October 2020 at the above referenced site (**Figure 1**). The activities were conducted in accordance with the requirements outlined in correspondence from the SCDHEC dated October 1, 2020 and addressed to Mr. Marty Easler. The purpose of the activities was to conduct a 96-hour AFVR event on monitoring wells MW-2A and MW-4A. The following Figures, Tables and Appendices have been included:

| | |
|---|---|
| Figure 1: | Site Location Map |
| Figure 2: | Site Map |
| Table 1: | AFVR Event Chronology (10/19/2020 – 10/23/2020) |
| Table 2 : | Summary of AFVR Event Gauging Data (10/19/2020 – 10/23/2020) |
| Appendix A: | AFVR Report, Calculations, Disposal Manifests/Stick Readings, Tank Charts, Photographs |

On October 19, 2020, the AFVR contractor, Hazmat Emergency Response and Remediation, Inc. (HERR), arrived on-site to conduct a 96-hour AFVR event. The AFVR event was conducted on monitoring wells MW-2A and MW-4A. General weather conditions were sunny and fair with an ambient air temperature of approximately 66°F at the time of system start-up. Prior to system startup, no free product was

detected in monitoring wells MW-2A or MW-4A. Depths to water measured in MW-2A and MW-4A prior to system startup were 13.21 and 14.75 feet, respectively. Monitoring well MW-1A and recovery well RW-1 were used as observation wells during the 96-hour event. Fluid recovery activities using a vacuum truck with a maximum vacuum rating of 25 in. Hg and a capacity of 325 cubic feet per minute were conducted for 96 hours on MW-2A and MW-4A. During the course of the event, the vacuum at the wells remained steady at 19 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 16,620 gallons of liquid was removed during the event. Based on data collected during the AFVR event, an estimated total of 9.195 pounds (approximately 1.4712 gallons) of product was removed in the vapor phase. No measurable free product was present in the tanker or the vacuumed wells (MW-2A and MW-4A) at the conclusion of the event.

Please do not hesitate to contact the undersigned at (704) 845-4010 if you have any questions or require additional information.

Sincerely,

W. Scott Ball

W. Scott Ball
Project Manager

JOHN M. BROWN REGISTERED 1116 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

John M. Brown
License No. 1116

Enclosures

cc: Mr. Marty Easler
file

# FIGURES

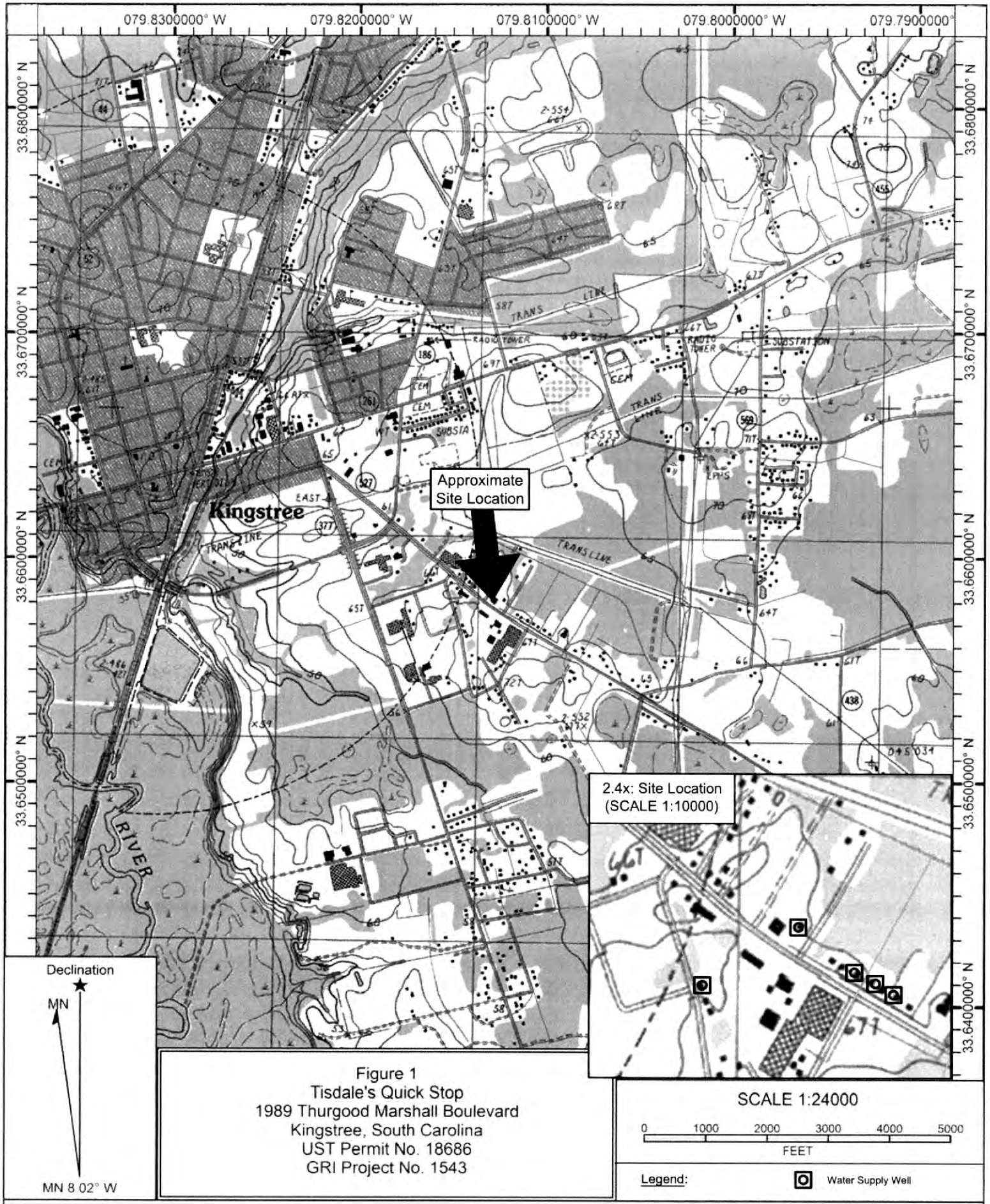



Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit No. 18686
GRI Project No. 1543

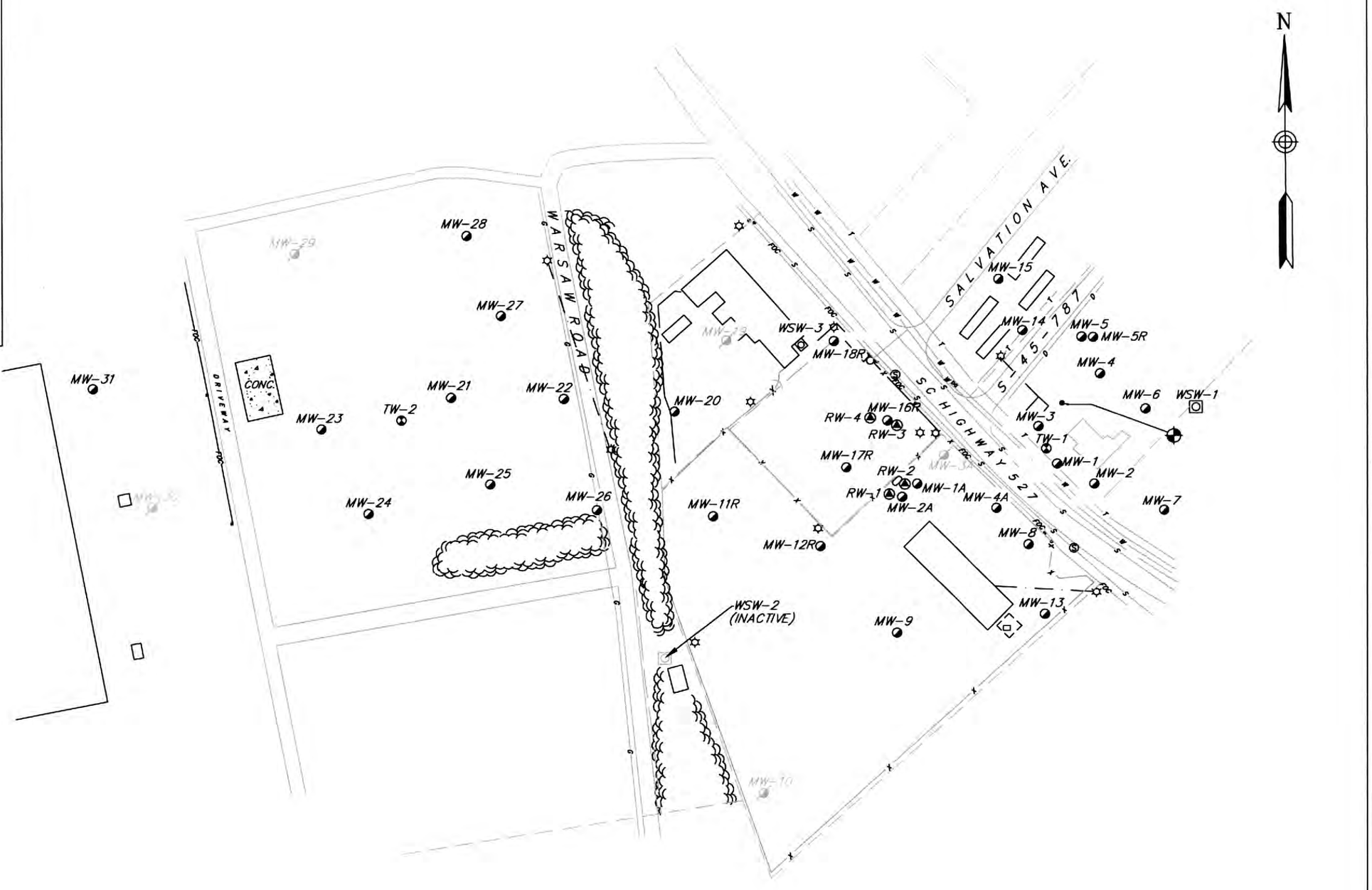
Name: Topographic Map
Date: 08/08/16
Scale: 1 inch = 2,000 ft.

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
- RECOVERY WELL




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: | 01/23/19 | Drawn by: | DTH | Figure: | 2 |
|---|---|---|---|---|---|

# TABLES

**TABLE 1**
**AFVR EVENT CHRONOLOGY**
**OCTOBER 19 - 23, 2020**
**TISDALE'S QUICK STOP**
**UST PERMIT #18686**

| Task | Hours | Personnel | Equipment | Company |
|---|---|---|---|---|
| Gauge Liquid Levels in MW-2A and MW-4A | 9:30 10/19/2020 | Vacuum Truck Operator | Interface Probe | HERR |
| Vacuum Truck Setup for Fluid Removal in MW-2A and MW-4A | 9:45 - 10:00 10/19/2020 | Vacuum Truck Operator | Vacuum Truck | HERR |
| Fluid Recovery in MW-2A and MW-4A | 10:00 10/19/2020 - 10:00 10/23/2020 | Vacuum Truck Operator | Vacuum Truck | HERR |
| Gauge Liquid Levels in MW-2A and MW-4A | 10:15 10/23/2020 | Vacuum Truck Operator | Interface Probe | HERR |

**TABLE 1**
**AFVR EVENT CHRONOLOGY**
**OCTOBER 19 - 23, 2020**
**TISDALE'S QUICK STOP**
**UST PERMIT #18686**

| Task | Hours | Personnel | Equipment | Company |
|---|---|---|---|---|
| Gauge Liquid Levels in MW-2A and MW-4A | 9:30 10/19/2020 | Vacuum Truck Operator | Interface Probe | HERR |
| Vacuum Truck Setup for Fluid Removal in MW-2A and MW-4A | 9:45 - 10:00 10/19/2020 | Vacuum Truck Operator | Vacuum Truck | HERR |
| Fluid Recovery in MW-2A and MW-4A | 10:00 10/19/2020 - 10:00 10/23/2020 | Vacuum Truck Operator | Vacuum Truck | HERR |
| Gauge Liquid Levels in MW-2A and MW-4A | 10:15 10/23/2020 | Vacuum Truck Operator | Interface Probe | HERR |

# APPENDIX

## APPENDIX A

**AFVR Report, Calculations, Disposal Manifests/Stick Readings, Tank Charts, Photographs**

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, November 9, 2020

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 October 19-23, 2020. Included is the documentation for the event. The 96-hour event was conducted on monitoring wells MW-2A and MW-4A.

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

Sincerely,

Ryan Cox
HERR, Inc.

Tisdale's Quick Stop
Kingstree, SC
October 19-23, 2020

## AFVR

HERR mobilized personnel and equipment to Tisdale's Quick Stop on 10/19/20. The ambient temperature was 66 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 9.195 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 16,620 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

| **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-2A | N/A | 13.21 | N/A | 16.12 | | |
| MW-4A | N/A | 14.75 | N/A | 16.81 | | |
| | | | | | | |
| | | | | | | |
| | | | | | 16,620 gallons | |

# 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 |
|---|---|---|---|---|---|---|
| 10/19/2020 10:00 | 632.1 | 101.6 | 318 | 78.1 | 58.2 | |
| 10:30 | 785.6 | 138.8 | 321 | 79.6 | 59.1 | |
| 11:00 | 891.2 | 150.1 | 320 | 80.5 | 65.4 | |
| 11:30 | 909.1 | 157.2 | 325 | 81.2 | 61.8 | |
| 12:00 | 1005 | 160.5 | 318 | 81.7 | 72.9 | |
| 12:30 | 1171 | 178.6 | 322 | 81.9 | 70.1 | |
| 13:00 | 1011 | 159.2 | 327 | 82.1 | 69.8 | |
| 13:30 | 1001 | 186.5 | 331 | 81.8 | 65.1 | |
| 14:00 | 1005 | 191.2 | 330 | 82.6 | 60.4 | |
| 14:30 | 1019 | 171.8 | 329 | 83.1 | 66.7 | |
| 15:00 | 1121 | 184.1 | 320 | 82.7 | 63.2 | |
| 15:30 | 1037 | 160.9 | 318 | 83.9 | 68.1 | |
| 16:00 | 1026 | 170.4 | 321 | 83.5 | 71.2 | |
| 16:30 | 1011 | 171.8 | 329 | 82.1 | 70.9 | |
| 17:00 | 1027 | 157.0 | 325 | 82.5 | 62.4 | |
| 17:30 | 1020 | 167.6 | 320 | 81.6 | 65.8 | |
| 18:00 | 1071 | 168.4 | 329 | 80.9 | 63.1 | |
| 19:00 | 1065 | 161.7 | 326 | 78.4 | 60.9 | |
| 20:00 | 1178 | 202.3 | 317 | 75.1 | 58.6 | |
| 21:00 | 971.5 | 178.5 | 322 | 74.9 | 57.1 | |
| 22:00 | 901.8 | 135.9 | 327 | 73.7 | 61.2 | |
| 23:00 | 1102 | 158.8 | 321 | 71.4 | 60.6 | |
| 0:00 | 1034 | 152.4 | 325 | 70.7 | 58.8 | |
| 10/20/2020 8:00 | 608.7 | 85.1 | 318 | 68.1 | 67.9 | |
| 10:00 | 718.4 | 121.3 | 321 | 70.2 | 71.2 | |
| 12:00 | 707.9 | 116.5 | 325 | 73.4 | 65.7 | |
| 14:00 | 692.4 | 129.1 | 322 | 75.9 | 60.2 | |
| 16:00 | 680.1 | 118.6 | 327 | 74.2 | 61.7 | |
| 18:00 | 687.5 | 124.8 | 325 | 71.8 | 66.8 | |
| 20:00 | 707.1 | 128.2 | 320 | 69.1 | 71.1 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 22:00 | 701.2 | 130.5 | 319 | 68.4 | 70.4 | |
| 0:00 | 704.0 | 128.6 | 313 | 66.8 | 66.3 | |
| 10/21/2020 8:00 | 581.7 | 103.7 | 318 | 68.1 | 68.8 | |
| 10:00 | 500.1 | 81.9 | 321 | 71.4 | 60.1 | |
| 12:00 | 571.4 | 96.8 | 325 | 73.6 | 62.5 | |
| 14:00 | 568.7 | 92.5 | 322 | 74.1 | 67.6 | |
| 16:00 | 579.4 | 95.1 | 327 | 73.4 | 71.2 | |
| 18:00 | 591.2 | 91.8 | 320 | 70.9 | 66.1 | |
| 20:00 | 590.9 | 90.3 | 329 | 69.1 | 63.7 | |
| 22:00 | 581.4 | 98.3 | 327 | 68.7 | 61.2 | |
| 0:00 | 574.6 | 87.2 | 336 | 66.5 | 59.4 | |
| 10/22/2020 8:00 | 705.1 | 110.4 | 330 | 70.1 | 62.1 | |
| 10:00 | 690.7 | 104.0 | 327 | 72.6 | 60.9 | |
| 12:00 | 688.4 | 106.7 | 321 | 73.1 | 65.6 | |
| 14:00 | 627.5 | 101.7 | 325 | 74.6 | 67.2 | |
| 16:00 | 592.8 | 94.3 | 322 | 74.1 | 71.8 | |
| 18:00 | 590.5 | 95.6 | 325 | 72.9 | 69.9 | |
| 20:00 | 599.1 | 92.1 | 331 | 70.7 | 60.8 | |
| 22:00 | 618.2 | 97.9 | 329 | 68.2 | 67.8 | |
| 0:00 | 611.3 | 88.5 | 320 | 65.8 | 65.3 | |
| 10/23/2020 8:00 | 649.7 | 90.2 | 312 | 69.1 | 62.6 | |
| 10:00 | 630.4 | 84.8 | 323 | 70.5 | 64.1 | |

# Aggressive Fluid/Vapor Recovery Notes

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

| | MW-2A | MW-4A | | | 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 |
| 10/19/2020 10:00 | 19 | 19 | | | | | | |
| 10:30 | 19 | 19 | | | | | | |
| 11:00 | 19 | 19 | | | | | | |
| 11:30 | 19 | 19 | | | | | | |
| 12:00 | 19 | 19 | | | | | | |
| 12:30 | 19 | 19 | | | | | | |
| 13:00 | 19 | 19 | | | | | | |
| 13:30 | 19 | 19 | | | | | | |
| 14:00 | 19 | 19 | | | | | | |
| 14:30 | 19 | 19 | | | | | | |
| 15:00 | 19 | 19 | | | | | | |
| 15:30 | 19 | 19 | | | | | | |
| 16:00 | 19 | 19 | | | | | | |
| 16:30 | 19 | 19 | | | | | | |
| 17:00 | 19 | 19 | | | | | | |
| 17:30 | 19 | 19 | | | | | | |
| 18:00 | 19 | 19 | | | | | | |
| 19:00 | 19 | 19 | | | | | | |
| 20:00 | 19 | 19 | | | | | | |
| 21:00 | 19 | 19 | | | | | | |
| 22:00 | 19 | 19 | | | | | | |
| 23:00 | 19 | 19 | | | | | | |
| 0:00 | 19 | 19 | | | | | | |
| 10/20/2020 8:00 | 19 | 19 | | | | | | |
| 10:00 | 19 | 19 | | | | | | |
| 12:00 | 19 | 19 | | | | | | |
| 14:00 | 19 | 19 | | | | | | |
| 16:00 | 19 | 19 | | | | | | |
| 18:00 | 19 | 19 | | | | | | |
| 20:00 | 19 | 19 | | | | | | |
| 22:00 | 19 | 19 | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0:00 | 19 | 19 | | | | | | |
| 10/21/2020 8:00 | 19 | 19 | | | | | | |
| 10:00 | 19 | 19 | | | | | | |
| 12:00 | 19 | 19 | | | | | | |
| 14:00 | 19 | 19 | | | | | | |
| 16:00 | 19 | 19 | | | | | | |
| 18:00 | 19 | 19 | | | | | | |
| 20:00 | 19 | 19 | | | | | | |
| 22:00 | 19 | 19 | | | | | | |
| 0:00 | 19 | 19 | | | | | | |
| 10/22/2020 8:00 | 19 | 19 | | | | | | |
| 10:00 | 19 | 19 | | | | | | |
| 12:00 | 19 | 19 | | | | | | |
| 14:00 | 19 | 19 | | | | | | |
| 16:00 | 19 | 19 | | | | | | |
| 18:00 | 19 | 19 | | | | | | |
| 20:00 | 19 | 19 | | | | | | |
| 22:00 | 19 | 19 | | | | | | |
| 0:00 | 19 | 19 | | | | | | |
| 10/23/2020 8:00 | 19 | 19 | | | | | | |
| 10:00 | 19 | 19 | | | | | | |

# Aggressive Fluid/Vapor Recovery Notes

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

| | MW-1A | | RW-1 | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | Water Level | Vacuum Influence at Well (in. Hg) | Water Level | Vacuum Influence at Well (in. Hg) | Water Level | Vacuum Influence at Well (in. Hg) | Water Level | Vacuum Influence at Well (in. Hg) |
| 10/19/2020 10:00 | | 0.15 | | 0.17 | | | | |
| 10:30 | | 0.15 | | 0.17 | | | | |
| 11:00 | | 0.15 | | 0.17 | | | | |
| 11:30 | | 0.15 | | 0.17 | | | | |
| 12:00 | | 0.15 | | 0.17 | | | | |
| 12:30 | | 0.15 | | 0.17 | | | | |
| 13:00 | | 0.15 | | 0.17 | | | | |
| 13:30 | | 0.15 | | 0.17 | | | | |
| 14:00 | | 0.15 | | 0.17 | | | | |
| 14:30 | | 0.15 | | 0.17 | | | | |
| 15:00 | | 0.15 | | 0.17 | | | | |
| 15:30 | | 0.15 | | 0.17 | | | | |
| 16:00 | | 0.15 | | 0.17 | | | | |
| 16:30 | | 0.15 | | 0.17 | | | | |
| 17:00 | | 0.15 | | 0.17 | | | | |
| 17:30 | | 0.15 | | 0.17 | | | | |
| 18:00 | | 0.15 | | 0.17 | | | | |
| 19:00 | | 0.15 | | 0.17 | | | | |
| 20:00 | | 0.15 | | 0.17 | | | | |
| 21:00 | | 0.15 | | 0.17 | | | | |
| 22:00 | | 0.15 | | 0.17 | | | | |
| 23:00 | | 0.15 | | 0.17 | | | | |
| 0:00 | | 0.15 | | 0.17 | | | | |
| 10/20/2020 8:00 | | 0.15 | | 0.17 | | | | |
| 10:00 | | 0.15 | | 0.17 | | | | |
| 12:00 | | 0.15 | | 0.17 | | | | |
| 14:00 | | 0.15 | | 0.17 | | | | |
| 16:00 | | 0.15 | | 0.17 | | | | |
| 18:00 | | 0.15 | | 0.17 | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 20:00 | | 0.15 | | 0.17 | | | | |
| 22:00 | | 0.15 | | 0.17 | | | | |
| 0:00 | | 0.15 | | 0.17 | | | | |
| 10/21/2020 8:00 | | 0.15 | | 0.17 | | | | |
| 10:00 | | 0.15 | | 0.17 | | | | |
| 12:00 | | 0.15 | | 0.17 | | | | |
| 14:00 | | 0.15 | | 0.17 | | | | |
| 16:00 | | 0.15 | | 0.17 | | | | |
| 18:00 | | 0.15 | | 0.17 | | | | |
| 20:00 | | 0.15 | | 0.17 | | | | |
| 22:00 | | 0.15 | | 0.17 | | | | |
| 0:00 | | 0.15 | | 0.17 | | | | |
| 10/22/2020 8:00 | | 0.17 | | 0.17 | | | | |
| 10:00 | | 0.17 | | 0.17 | | | | |
| 12:00 | | 0.16 | | 0.17 | | | | |
| 14:00 | | 0.16 | | 0.17 | | | | |
| 16:00 | | 0.16 | | 0.17 | | | | |
| 18:00 | | 0.16 | | 0.17 | | | | |
| 20:00 | | 0.17 | | 0.17 | | | | |
| 22:00 | | 0.17 | | 0.17 | | | | |
| 0:00 | | 0.17 | | 0.17 | | | | |
| 10/23/2020 8:00 | | 0.17 | | 0.17 | | | | |
| 10:00 | | 0.17 | | 0.17 | | | | |

# 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) |
| 10/19/20 | 10:00 | 318 | 0.022 | 78.1 | 58.2 | 0.012006161 | 6.78 |
| 10/19/20 | 10:30 | 321 | 0.022 | 79.6 | 59.1 | 0.012824375 | 6.82 |
| 10/19/20 | 11:00 | 320 | 0.022 | 80.5 | 65.4 | 0.014657449 | 6.78 |
| 10/19/20 | 11:30 | 325 | 0.022 | 81.2 | 61.8 | 0.014159092 | 6.88 |
| 10/19/20 | 12:00 | 318 | 0.022 | 81.7 | 72.9 | 0.017053121 | 6.70 |
| 10/19/20 | 12:30 | 322 | 0.022 | 81.9 | 70.1 | 0.016490389 | 6.79 |
| 10/19/20 | 13:00 | 327 | 0.022 | 82.1 | 69.8 | 0.016527623 | 6.89 |
| 10/19/20 | 13:30 | 331 | 0.022 | 81.8 | 65.1 | 0.015234547 | 6.99 |
| 10/19/20 | 14:00 | 330 | 0.022 | 82.6 | 60.4 | 0.014488874 | 6.96 |
| 10/19/20 | 14:30 | 329 | 0.022 | 83.1 | 66.7 | 0.016307198 | 6.92 |
| 10/19/20 | 15:00 | 320 | 0.022 | 82.7 | 63.2 | 0.015227299 | 6.75 |
| 10/19/20 | 15:30 | 318 | 0.022 | 83.9 | 68.1 | 0.017105669 | 6.68 |
| 10/19/20 | 16:00 | 321 | 0.022 | 83.5 | 71.2 | 0.017671094 | 6.74 |
| 10/19/20 | 16:30 | 329 | 0.022 | 82.1 | 70.9 | 0.016795120 | 6.93 |
| 10/19/20 | 17:00 | 325 | 0.022 | 82.5 | 62.4 | 0.014930642 | 6.85 |
| 10/19/20 | 17:30 | 320 | 0.022 | 81.6 | 65.8 | 0.015300264 | 6.76 |
| 10/19/20 | 18:00 | 329 | 0.022 | 80.9 | 63.1 | 0.014320037 | 6.96 |
| 10/19/20 | 19:00 | 326 | 0.022 | 78.4 | 60.9 | 0.012701853 | 6.94 |
| 10/19/20 | 20:00 | 317 | 0.022 | 75.1 | 58.6 | 0.010924803 | 6.81 |
| 10/19/20 | 21:00 | 322 | 0.022 | 74.9 | 57.1 | 0.010568328 | 6.92 |
| 10/19/20 | 22:00 | 327 | 0.022 | 73.7 | 61.2 | 0.010886320 | 7.04 |
| 10/19/20 | 23:00 | 321 | 0.022 | 71.4 | 60.6 | 0.009959862 | 6.95 |
| 10/20/20 | 0:00 | 325 | 0.022 | 70.7 | 58.8 | 0.009429027 | 7.05 |
| 10/20/20 | 8:00 | 318 | 0.022 | 68.1 | 67.9 | 0.009970229 | 6.92 |
| 10/20/20 | 10:00 | 321 | 0.022 | 70.2 | 71.2 | 0.011257199 | 6.95 |
| 10/20/20 | 12:00 | 325 | 0.022 | 73.4 | 65.7 | 0.011582271 | 7.00 |
| 10/20/20 | 14:00 | 322 | 0.022 | 75.9 | 60.2 | 0.011537529 | 6.90 |
| 10/20/20 | 16:00 | 327 | 0.022 | 74.2 | 61.7 | 0.011165853 | 7.03 |
| 10/20/20 | 18:00 | 325 | 0.022 | 71.8 | 66.8 | 0.011149640 | 7.02 |
| 10/20/20 | 20:00 | 320 | 0.022 | 69.1 | 71.1 | 0.010819200 | 6.95 |
| 10/20/20 | 22:00 | 319 | 0.022 | 68.4 | 70.4 | 0.010452451 | 6.94 |
| 10/21/20 | 0:00 | 313 | 0.022 | 66.8 | 66.3 | 0.009298476 | 6.84 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 10/21/20 | 8:00 | 318 | 0.022 | 68.1 | 68.8 | 0.010104529 | 6.92 |
| 10/21/20 | 10:00 | 321 | 0.022 | 71.4 | 60.1 | 0.009876380 | 6.95 |
| 10/21/20 | 12:00 | 325 | 0.022 | 73.6 | 62.5 | 0.011083737 | 7.00 |
| 10/21/20 | 14:00 | 322 | 0.022 | 74.1 | 67.6 | 0.012212797 | 6.92 |
| 10/21/20 | 16:00 | 327 | 0.022 | 73.4 | 71.2 | 0.012571464 | 7.03 |
| 10/21/20 | 18:00 | 320 | 0.022 | 70.9 | 66.1 | 0.010693336 | 6.93 |
| 10/21/20 | 20:00 | 329 | 0.022 | 69.1 | 63.7 | 0.009675635 | 7.15 |
| 10/21/20 | 22:00 | 327 | 0.022 | 68.7 | 61.2 | 0.009161843 | 7.12 |
| 10/22/20 | 0:00 | 336 | 0.022 | 66.5 | 59.4 | 0.008230757 | 7.35 |
| 10/22/20 | 8:00 | 330 | 0.022 | 70.1 | 62.1 | 0.009761901 | 7.16 |
| 10/22/20 | 10:00 | 327 | 0.022 | 72.6 | 60.9 | 0.010431639 | 7.06 |
| 10/22/20 | 12:00 | 321 | 0.022 | 73.1 | 65.6 | 0.011446022 | 6.91 |
| 10/22/20 | 14:00 | 325 | 0.022 | 74.6 | 67.2 | 0.012348191 | 6.97 |
| 10/22/20 | 16:00 | 322 | 0.022 | 74.1 | 71.8 | 0.012987423 | 6.91 |
| 10/22/20 | 18:00 | 325 | 0.022 | 72.9 | 69.9 | 0.012127434 | 7.00 |
| 10/22/20 | 20:00 | 331 | 0.022 | 70.7 | 60.8 | 0.009754771 | 7.17 |
| 10/22/20 | 22:00 | 329 | 0.022 | 68.2 | 67.8 | 0.009990157 | 7.16 |
| 10/23/20 | 0:00 | 320 | 0.022 | 65.8 | 65.3 | 0.008839762 | 7.01 |
| 10/23/20 | 8:00 | 312 | 0.022 | 69.1 | 62.6 | 0.009505998 | 6.78 |
| 10/23/20 | 10:00 | 323 | 0.022 | 70.5 | 64.1 | 0.010222017 | 7.00 |
| Averages | | 323.48 | 0.022 | 74.80 | 64.83 | 0.012188996 | 6.941 |

**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 | 6.78 | 632.1 | 1 | 632.1 | 3361.40 | 0.000209852 | 0.0854 | 0 |
| 30 | 30 | 6.82 | 785.6 | 1 | 785.6 | 4177.68 | 0.000260813 | 0.1067 | 0.05337 |
| 30 | 60 | 6.78 | 891.2 | 1 | 891.2 | 4739.24 | 0.000295871 | 0.1203 | 0.06015 |
| 30 | 90 | 6.88 | 909.1 | 1 | 909.1 | 4834.43 | 0.000301814 | 0.1245 | 0.06227 |
| 30 | 120 | 6.70 | 1005 | 1 | 1005 | 5344.41 | 0.000333652 | 0.1342 | 0.06709 |
| 30 | 150 | 6.79 | 1171 | 1 | 1171 | 6227.17 | 0.000388762 | 0.1583 | 0.07917 |
| 30 | 180 | 6.89 | 1011 | 1 | 1011 | 5376.32 | 0.000335644 | 0.1388 | 0.06939 |
| 30 | 210 | 6.99 | 1001 | 1 | 1001 | 5323.14 | 0.000332324 | 0.1393 | 0.06967 |
| 30 | 240 | 6.96 | 1005 | 1 | 1005 | 5344.41 | 0.000333652 | 0.1394 | 0.06969 |
| 30 | 270 | 6.92 | 1019 | 1 | 1019 | 5418.86 | 0.000338300 | 0.1405 | 0.07025 |
| 30 | 300 | 6.75 | 1121 | 1 | 1121 | 5961.28 | 0.000372163 | 0.1506 | 0.07531 |
| 30 | 330 | 6.68 | 1037 | 1 | 1037 | 5514.58 | 0.000344275 | 0.1379 | 0.06894 |
| 30 | 360 | 6.74 | 1026 | 1 | 1026 | 5456.09 | 0.000340623 | 0.1377 | 0.06887 |
| 30 | 390 | 6.93 | 1011 | 1 | 1011 | 5376.32 | 0.000335644 | 0.1396 | 0.06979 |
| 30 | 420 | 6.85 | 1027 | 1 | 1027 | 5461.40 | 0.000340955 | 0.1402 | 0.07012 |
| 30 | 450 | 6.76 | 1020 | 1 | 1020 | 5424.18 | 0.000338632 | 0.1373 | 0.06866 |
| 30 | 480 | 6.96 | 1071 | 1 | 1071 | 5695.39 | 0.000355563 | 0.1486 | 0.07429 |
| 60 | 540 | 6.94 | 1065 | 1 | 1065 | 5663.48 | 0.000353571 | 0.1473 | 0.14731 |
| 60 | 600 | 6.81 | 1178 | 1 | 1178 | 6264.40 | 0.000391086 | 0.1597 | 0.15971 |
| 60 | 660 | 6.92 | 971.5 | 1 | 971.5 | 5166.27 | 0.000322530 | 0.1339 | 0.13389 |
| 60 | 720 | 7.04 | 901.8 | 1 | 901.8 | 4795.61 | 0.000299390 | 0.1265 | 0.12646 |
| 60 | 780 | 6.95 | 1102 | 1 | 1102 | 5860.24 | 0.000365855 | 0.1525 | 0.15249 |
| 60 | 840 | 7.05 | 1034 | 1 | 1034 | 5498.63 | 0.000343279 | 0.1451 | 0.14514 |
| 480 | 1320 | 6.92 | 608.7 | 1 | 608.7 | 3236.96 | 0.000202083 | 0.0840 | 0.67172 |
| 120 | 1440 | 6.95 | 718.4 | 1 | 718.4 | 3820.32 | 0.000238503 | 0.0995 | 0.19901 |
| 120 | 1560 | 7.00 | 707.9 | 1 | 707.9 | 3764.49 | 0.000235017 | 0.0986 | 0.19729 |
| 120 | 1680 | 6.90 | 692.4 | 1 | 692.4 | 3682.06 | 0.000229871 | 0.0952 | 0.19031 |
| 120 | 1800 | 7.03 | 680.1 | 1 | 680.1 | 3616.65 | 0.000225788 | 0.0953 | 0.1905 |
| 120 | 1920 | 7.02 | 687.5 | 1 | 687.5 | 3656.00 | 0.000228244 | 0.0961 | 0.19227 |
| 120 | 2040 | 6.95 | 707.1 | 1 | 707.1 | 3760.23 | 0.000234751 | 0.0979 | 0.19576 |
| 120 | 2160 | 6.94 | 701.2 | 1 | 701.2 | 3728.86 | 0.000232793 | 0.0969 | 0.19385 |
| 120 | 2280 | 6.84 | 704.0 | 1 | 704 | 3743.75 | 0.000233722 | 0.0959 | 0.19177 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 480 | 2760 | 6.92 | 581.7 | 1 | 581.7 | 3093.38 | 0.000193120 | 0.0802 | 0.64184 |
| 120 | 2880 | 6.95 | 500.1 | 1 | 500.1 | 2659.44 | 0.000166029 | 0.0692 | 0.13842 |
| 120 | 3000 | 7.00 | 571.4 | 1 | 571.4 | 3038.60 | 0.000189700 | 0.0796 | 0.15927 |
| 120 | 3120 | 6.92 | 568.7 | 1 | 568.7 | 3024.25 | 0.000188804 | 0.0784 | 0.15673 |
| 120 | 3240 | 7.03 | 579.4 | 1 | 579.4 | 3081.15 | 0.000192356 | 0.0812 | 0.16231 |
| 120 | 3360 | 6.93 | 591.2 | 1 | 591.2 | 3143.90 | 0.000196273 | 0.0816 | 0.16314 |
| 120 | 3480 | 7.15 | 590.9 | 1 | 590.9 | 3142.30 | 0.000196174 | 0.0842 | 0.16839 |
| 120 | 3600 | 7.12 | 581.4 | 1 | 581.4 | 3091.78 | 0.000193020 | 0.0824 | 0.16489 |
| 120 | 3720 | 7.35 | 574.6 | 1 | 574.6 | 3055.62 | 0.000190762 | 0.0841 | 0.1683 |
| 480 | 4200 | 7.16 | 705.1 | 1 | 705.1 | 3749.60 | 0.000234087 | 0.1006 | 0.80458 |
| 120 | 4320 | 7.06 | 690.7 | 1 | 690.7 | 3673.02 | 0.000229307 | 0.0971 | 0.1942 |
| 120 | 4440 | 6.91 | 688.4 | 1 | 688.4 | 3660.79 | 0.000228543 | 0.0948 | 0.18963 |
| 120 | 4560 | 6.97 | 627.5 | 1 | 627.5 | 3336.93 | 0.000208325 | 0.0872 | 0.17436 |
| 120 | 4680 | 6.91 | 592.8 | 1 | 592.8 | 3152.41 | 0.000196805 | 0.0816 | 0.16324 |
| 120 | 4800 | 7.00 | 590.5 | 1 | 590.5 | 3140.17 | 0.000196041 | 0.0823 | 0.16464 |
| 120 | 4920 | 7.17 | 599.1 | 1 | 599.1 | 3185.91 | 0.000198896 | 0.0856 | 0.17123 |
| 120 | 5040 | 7.16 | 618.2 | 1 | 618.2 | 3287.48 | 0.000205237 | 0.0882 | 0.17641 |
| 120 | 5160 | 7.01 | 611.3 | 1 | 611.3 | 3250.79 | 0.000202947 | 0.0853 | 0.17064 |
| 480 | 5640 | 6.78 | 649.7 | 1 | 649.7 | 3454.99 | 0.000215695 | 0.0878 | 0.70244 |
| 120 | 5760 | 7.00 | 630.4 | 1 | 630.4 | 3352.36 | 0.000209288 | 0.0879 | 0.17581 |
| Averages | | 6.94 | 795.11 | 1.00 | 795.11 | 4228.25 | 0.000263970 | 0.1097 | 0.1768 |
| | | | | | | | Total Emission in pounds: | | 9.1950 |

**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.: A-201282-W-1

2. Page 1 of

3. Generator's Name and Mailing Address: TIDDACE'S QUICK STOP
1984 THURGOOD MARSHALL BLVD.
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: 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:
HERR, INC.
303 S. MAULTSBY ST.
WHITEVILLE, NC 28472

10. US EPA ID Number: NCR-000139816

E. State Facility's ID

F. Facility's Phone: 910-640-2607

| 11. WASTE DESCRIPTION | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt./Vol. |
|---|---|---|---|---|
| a. NON-REG. PETROLEUM CONTACT WATER | | TT | 4,142 T/L | GAL. |
| b. | | 948 | 40" | |
| c. | | | | |
| d. | | | | |

GENERATOR

G. Additonal Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

A-201282-W-1

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 |
|---|---|---|---|---|
| David Bower | | 10 | 21 | 20 |

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Date Month | Day | Year |
|---|---|---|---|---|
| DALE FOWLER | Dale Fowler | 10 | 21 | 20 |

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 |
|---|---|---|---|---|
| TRAN COX | | 10 | 21 | 20 |

# 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.: TISPACK'S QUICK STOP

Manifest Document No.: A-201282-W -2

2. Page 1 of

3. Generator's Name and Mailing Address: 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: HERR 303 Malatsby St Whiteville NC 28472

10. US EPA ID Number:

E. State Facility's ID:

F. Facility's Phone: 910-640-2607

| 11. WASTE DESCRIPTION | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt./Vol. |
|---|---|---|---|---|
| a. HH1 | | XX | 5,372 | GAL |
| b. [illegible]8 | [illegible] | | 52" | |
| c. 948 | | | | |
| d. | | | | |

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

A-201282-W - 2

**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: David Beaver

Signature: [signature]

Date: Month 10 Day 22 Year 20

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DALE FOWLER

Signature: Dale Fowler

Date: Month 10 Day 22 Year 20

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: [signature]

Date: Month 10 Day 22 Year 20

GENERATOR

TRANSPORTER

FACILITY

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.: A-20/282-W-3

2. Page 1 of

3. Generator's Name and Mailing Address: TISPALES QUICK STOP, 1989 Thurgood Marshall Blvd, Kingstree, SC

4. Generator's Phone ( )

5. Transporter 1 Company Name | 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: 303 Malutsby 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. HH | | TT | 7,106 T/L | GAL |
| b. 946 | | | 56 4 | |
| c. | | | | |
| d. | | | | |

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information: A-20/282-W-3

**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: David Boover | Signature | Date: Month 10 Day 23 Year 20

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DALE FOWLER | Signature | Date: Month 10 Day 23 Year 20

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 10 Day 23 Year 20

NON-HAZARDOUS WASTE

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Rev. 3/95

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 | | |

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 | | |

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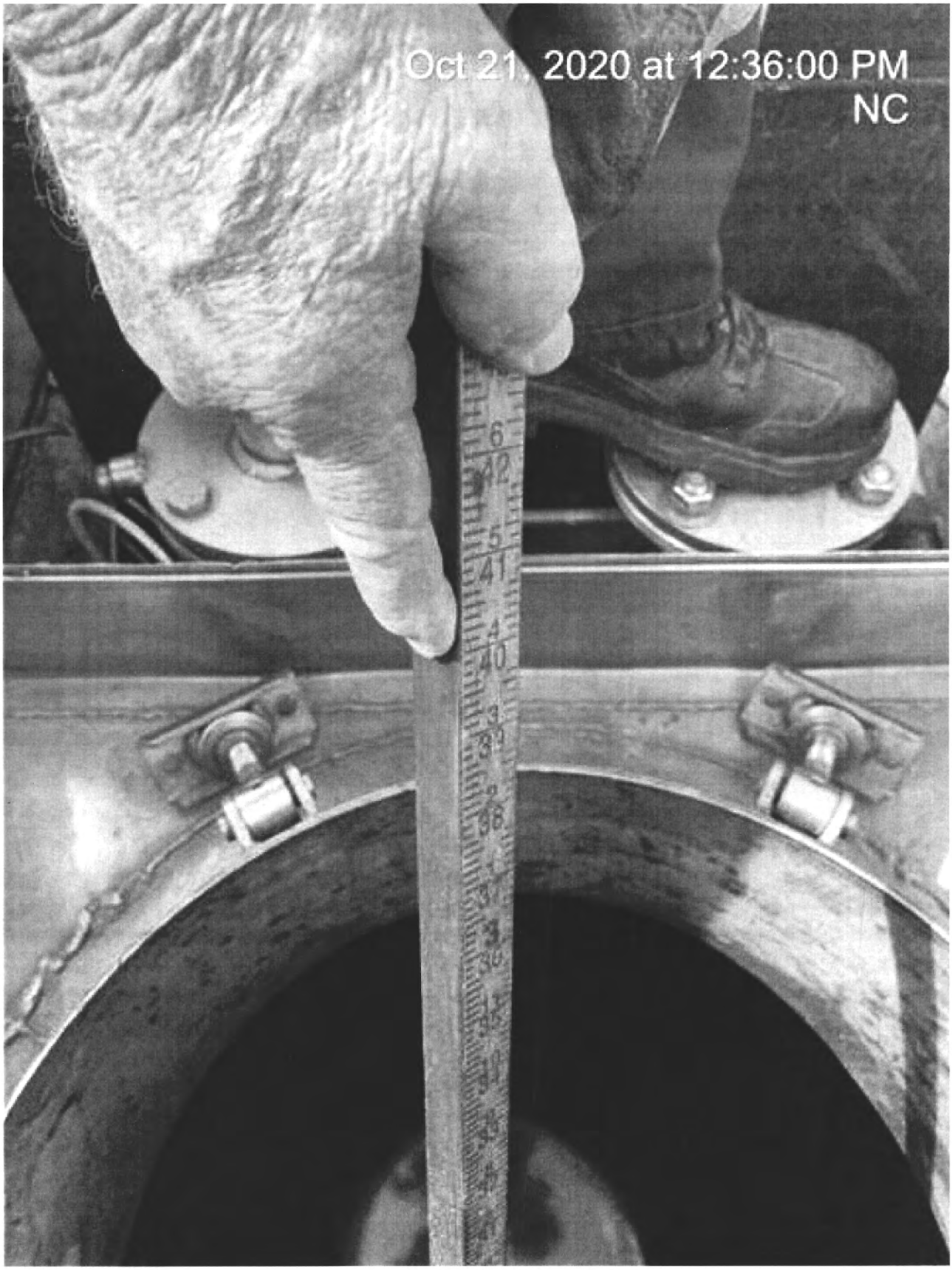
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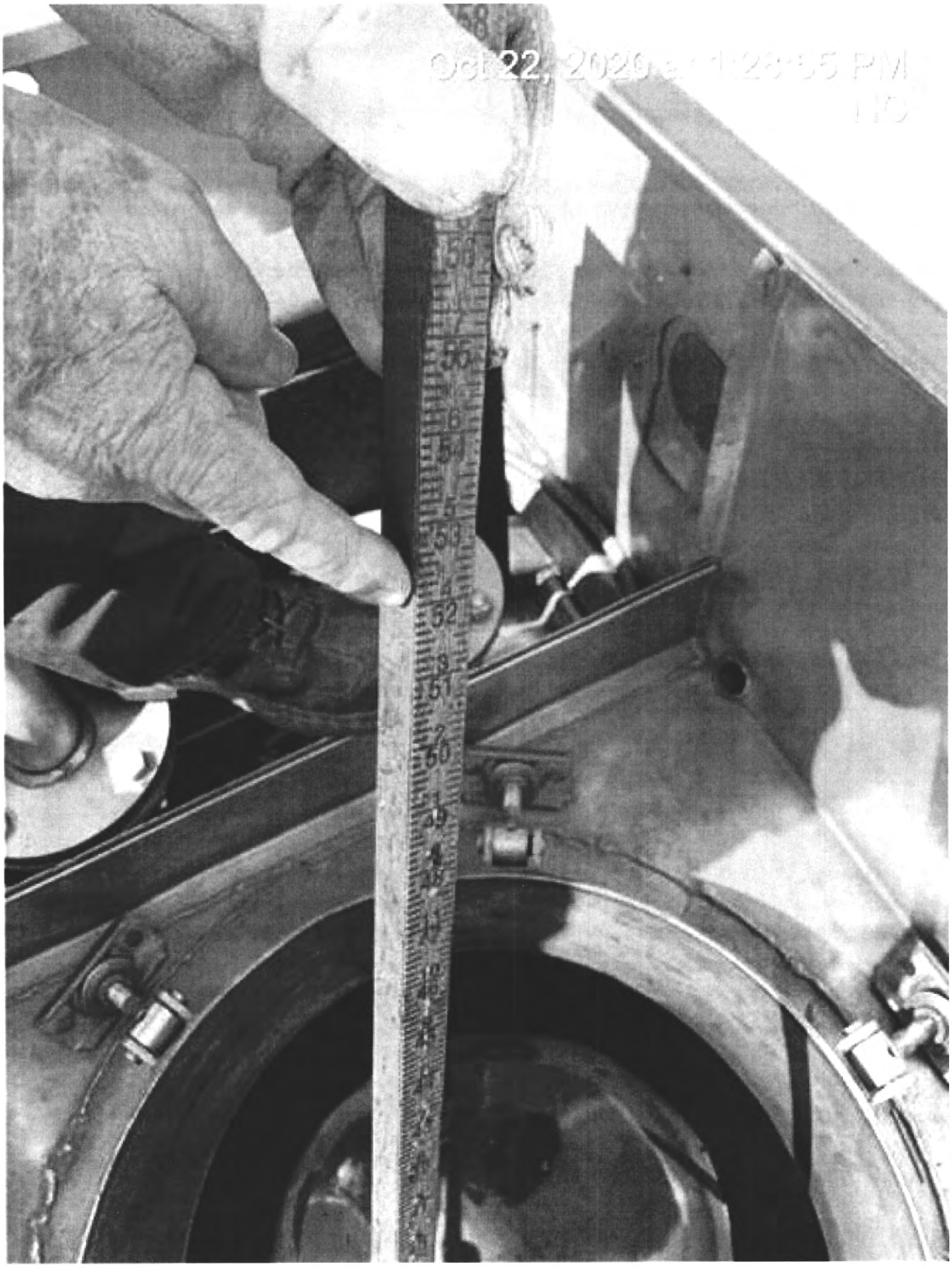

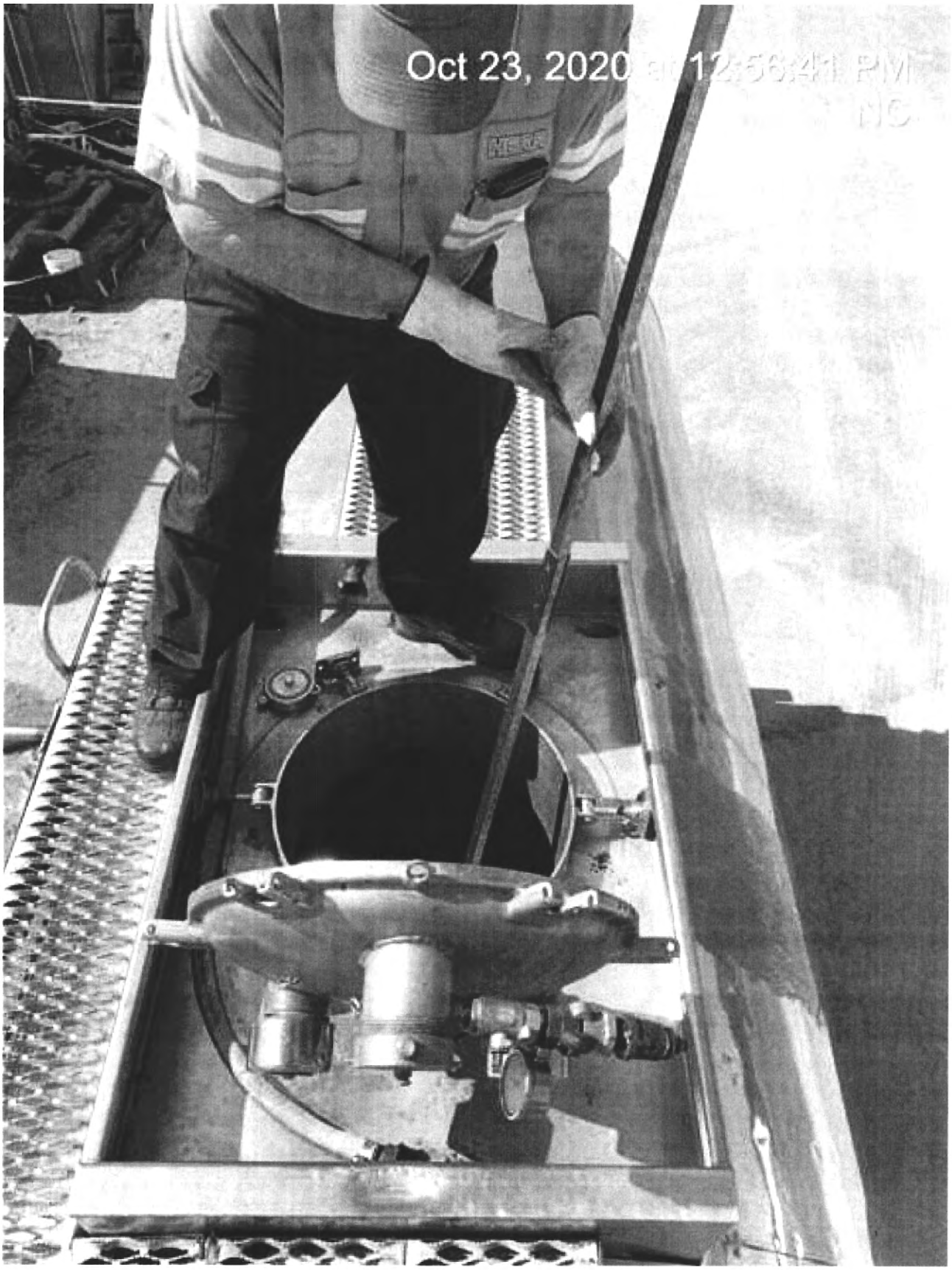
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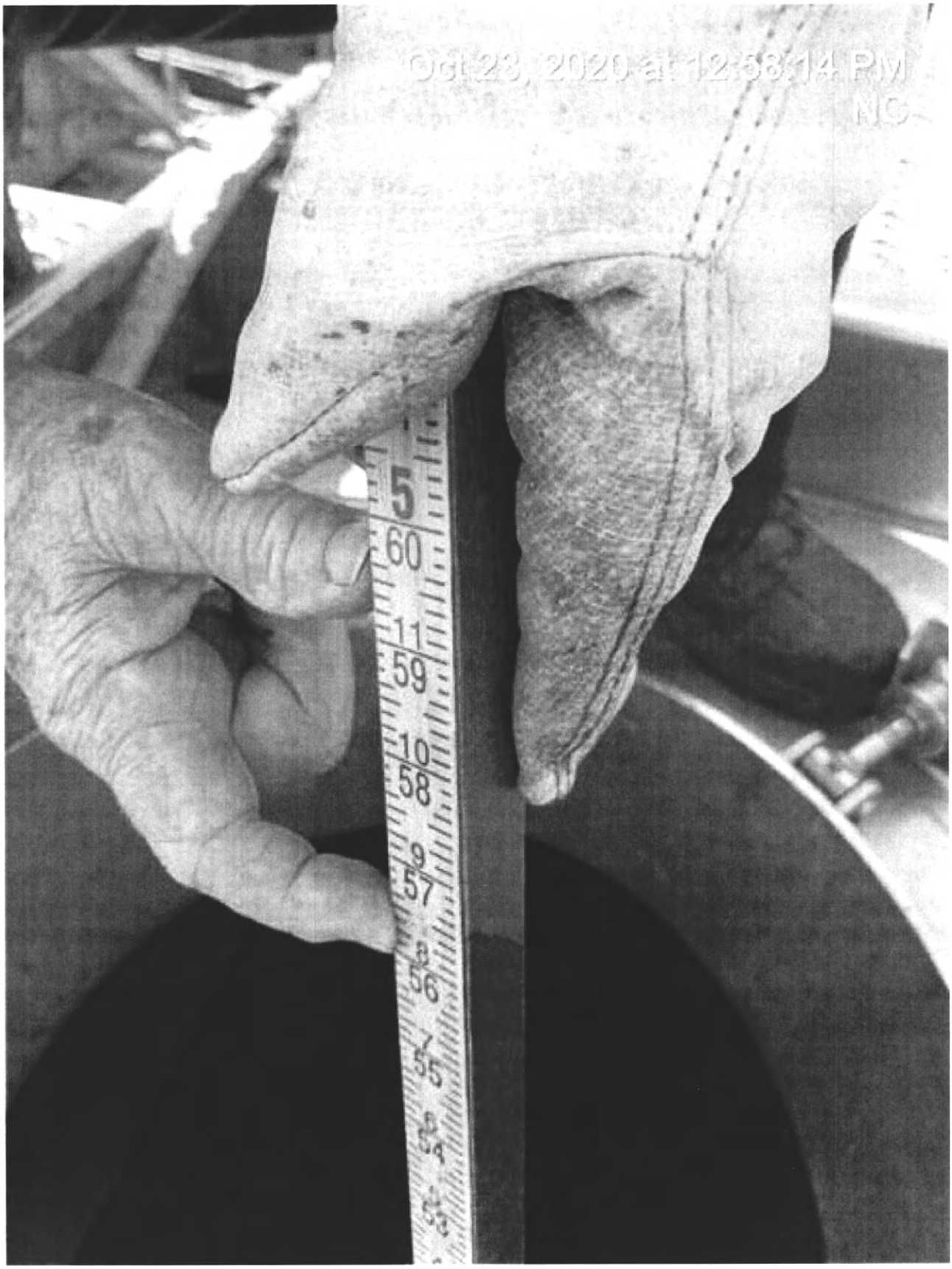
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dhec
Healthy People. Healthy Communities.

DEC 2 1 2020

UST DOCKETING 75

MARTY EASLER
196 RICHBURG RD
GREELEYVILLE SC 29056

Re: **Site-Specific Work Plan Request for Groundwater Sampling**
Tisdales Quick Stop, 1989 Thurgood Marshall Boulevard (Highway 527), Kingstree, SC
UST Permit #18686
Release reported March 30, 2001
AFVR Report received November 20, 2020
Williamsburg County

Dear Mr. Easler:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report submitted by your contractor. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels.

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 R.61-92, implementation of groundwater sampling is necessary. The groundwater sampling must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan, and in compliance with all applicable regulations. A copy of the UST QAPP is available at SCDHEC.gov/Environment/Land-Waste/Underground-Storage-Tanks/Release-Assessment-Clean/Quality-Assurance.

Groundwater samples should be collected from all monitoring wells associated with this release along with all water supply wells within a 1,000 foot radius of the site. Samples should be analyzed for BTEX, Naphthalene, MTBE, 1,2-DCA, the 8 oxygenates, and EDB. Only wells with screens that do not bracket the water table should be purged prior to sampling.

**Your contractor must complete the SSWP 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 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) 898-0500, by fax at (803) 898-0673, or by e-mail at brownaj@dhec.sc.gov.

Sincerely,

Arthur Brown, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Geological Resources, Inc., 3502 Hayes Road, Monroe, NC 28110
Technical file

Geological Resources, Inc.

UST
Arthur
FEB 0 1 2021
DIVISION

UST
76T
DOCKETING

January 6, 2021

Mr. Arthur Brown
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. 21-004
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. Brown:

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

W. Scott Ball
Senior Project Manager

JOHN M. BROWN
REGISTERED
1116
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

John M. Brown, P.G.
License #1116

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

UST
FEB 0 1 2021
DIVISION

To: Arthur Brown (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
Current Use of Property: Abandoned 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 (8260D)
- ☑ Oxygenates (8260D)
- ☑ EDB (8011)
- ☐ PAH (8270E)
- ☐ Lead
- ☐ 8 RCRA Metals
- ☐ TPH
- ☐ pH
- ☐ BOD
- ☐ Nitrate
- ☐ Sulfate
- ☐ Other
- ☐ Methane
- ☐ Ethanol
- ☐ Dissolved Iron

Drinking Water Supply Wells:

- ☑ BTEXNMDCA (524.2)
- ☑ Oxygenates & Ethanol (8260D)
- ☐ Mecury (200.8 245.1 or 245.2)
- ☐ RCRA Metals (200.8)
- ☑ EDB (504.1)

Soil:

- ☐ BTEXNM
- ☐ PAH
- ☐ Lead
- ☐ 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 | 3 Field Blank |
| 37 Monitoring Wells | ____ 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: ____ 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
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 of SSWP Field Work Completion: 12 days from approval of SSWP

Report Submittal: 60 days from approval of SSWP # 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: 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 MW-4, MW-5R, MW-6 through MW-10, MW-11R, MW-12R, MW-13 through MW-15, MW-16R, MW-17R, MW-18R, MW-19 through MW-31, MW-1A through MW-4A, TW-1, TW-2 and water supply wells WSW-1 through WSW-3. Monitoring wells with buried screens will be purged prior to sampling. The appropriate number of duplicate samples, field blanks and trip blanks will be collected/submitted. Monitoring well samples will be submitted for analyses of BTEX, MTBE, naphthalene, 1,2-DCA and 8 oxygenates using Method 8260 and EDB using Method 8011. WSW samples will be submitted for analyses of BTEX, MTBE, naphthalene and 1,2-DCA by Method 524.2, 8 oxygenates by Method 8260 and EDB by Method 504.1. Purge water from historically contaminated wells will be containerized.

**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 ACQAP? (Yes/No) If no, indicate driller information below.

Name of Well Driller: _____

SCLLR Certification Number: _____

No 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

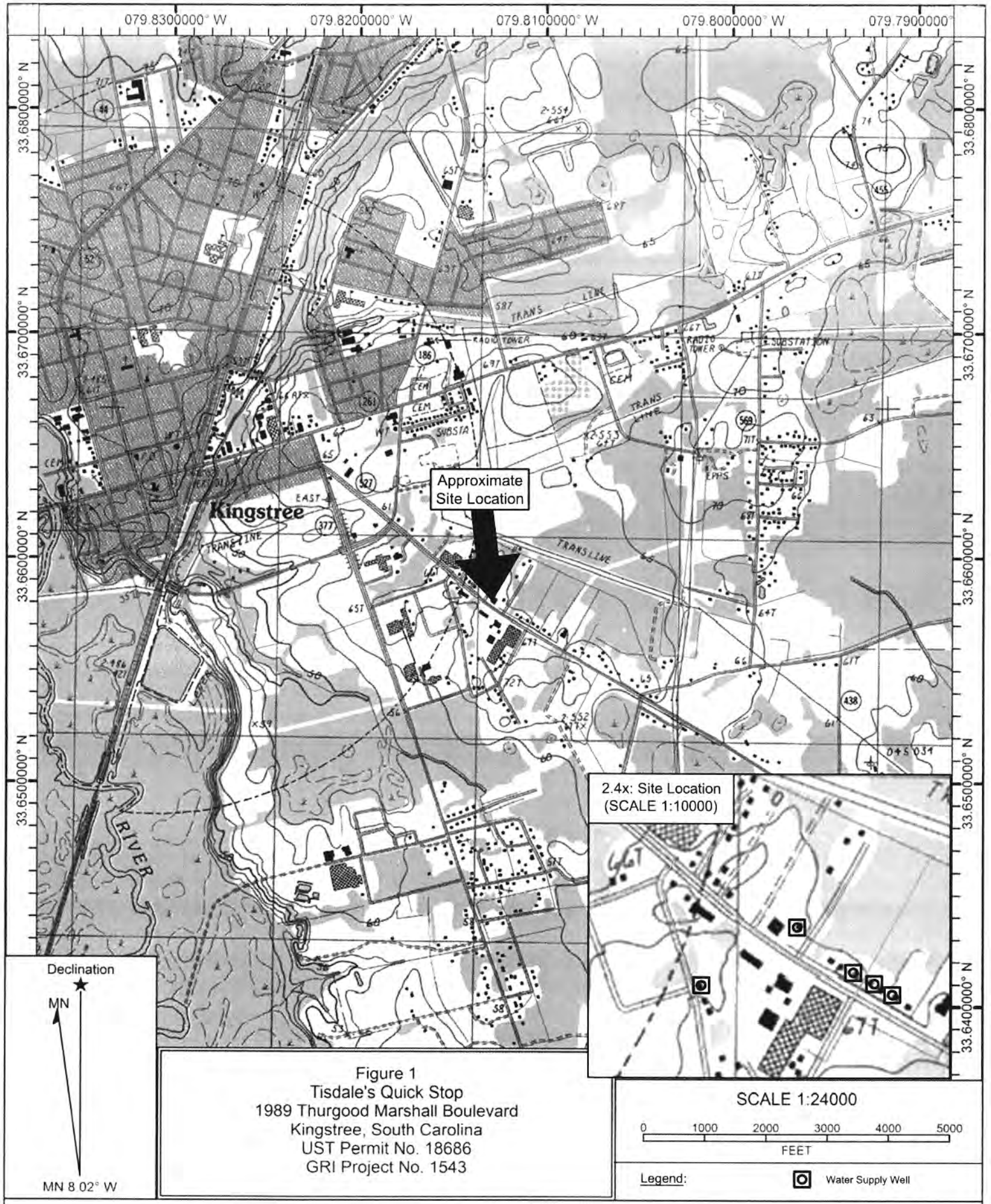



Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit No. 18686
GRI Project No. 1543

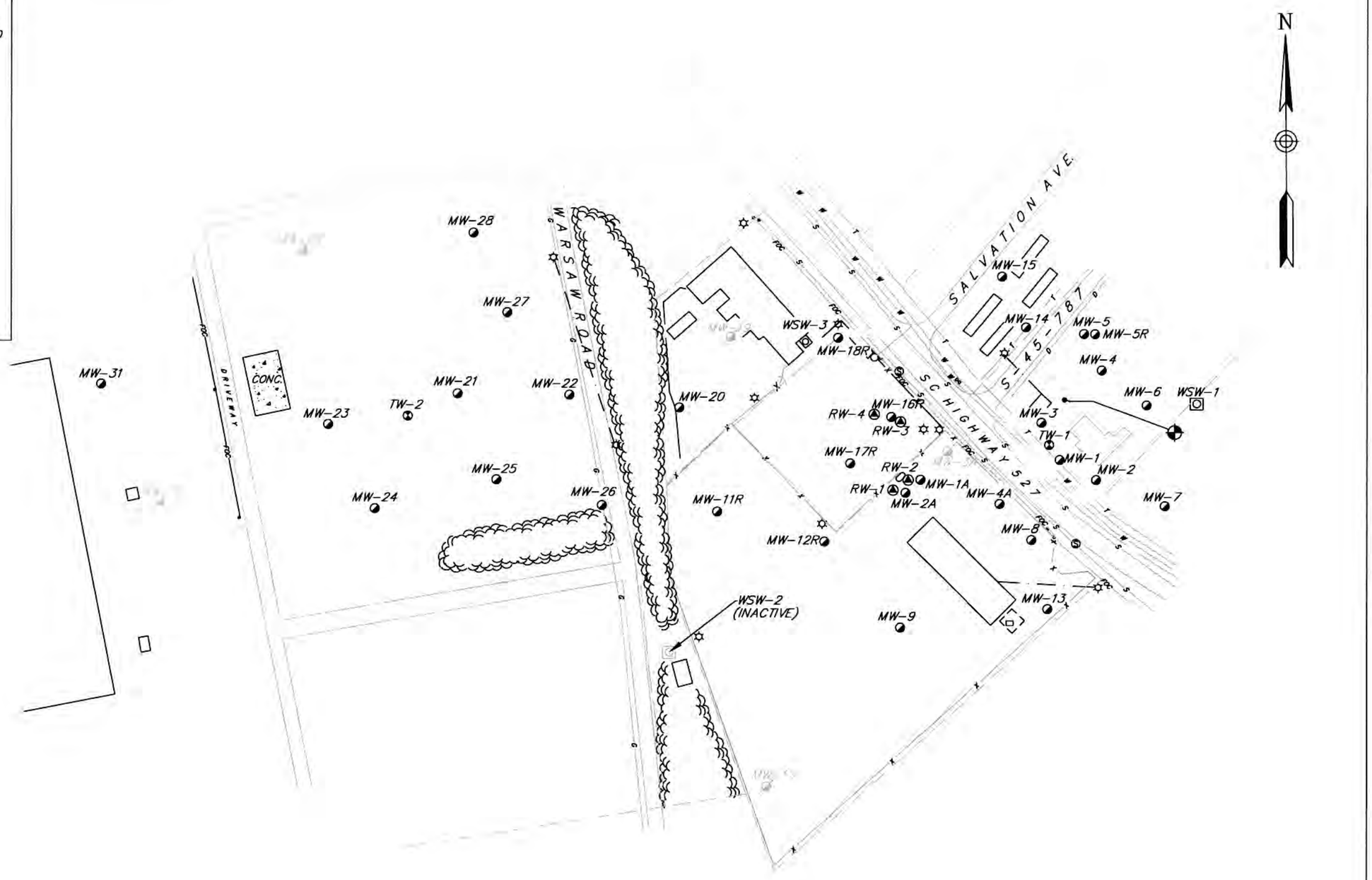
Name: Topographic Map
Date: 08/08/16
Scale: 1 inch = 2,000 ft.

Map Center Location: 033.6579897° N 079.8127613° W

Generated by Geological Resources, Inc.

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- 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
- RECOVERY WELL




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: | 08/12/2020 | Drawn by: | DTH | Figure: | 2 |
|---|---|---|---|---|---|

C:\Users\DARHOWARD\Desktop\New folder (2)\1543\1543 Base Map.dwg, Model, 8/12/2020 9:11:33 AM, DARHOWARD

dhec
Healthy People. Healthy Communities.

**ASSESSMENT COMPONENT COST AGREEMENT**
**SOUTH CAROLINA**
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
January 1, 2020

**Facility Name:** Tisdale's Quick Stop

GRI Prop. 21-004

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

| ITEM | QUANTITY | UNIT | UNIT PRICE | | TOTAL |
|---|---|---|---|---|---|
| A. **Plan Preparation** | | | | | |
| 1. Site-specific Work Plan | 1 | each | $160.05 | | $160.05 |
| 2. Tax Map | | each | $74.69 | | $0.00 |
| 3. Tier II or Comp. Plan /QAPP Appendix B | | each | $250.00 | | $0.00 |
| B. **Receptor Survey *** | | each | $587.92 | | $0.00 |
| C. **Survey (500 ft x 500 ft)** | | | | | |
| 1. Comprehensive Survey | | each | $1,109.68 | | $0.00 |
| Subsurface Geophysical Survey | | | | | |
| 2. < 10 meters below grade | | each | $1,387.10 | | $0.00 |
| 3. > 10 meters below grade | | each | $2,464.77 | | $0.00 |
| 4. Geophysical UST or Drum Survey | | each | $970.97 | | $0.00 |
| D. **Mob/Demob** | | | | | |
| 1. Equipment | | each | $1,088.34 | | $0.00 |
| 2. Personnel | 2 | each | $451.34 | | $902.68 |
| 3. Adverse Terrain Vehicle | | each | $533.50 | | $0.00 |
| E.. **Soil Borings (hand auger)*** | | foot | $5.34 | | $0.00 |
| F. **Soil Borings (requiring equipment, push technology, etc) or Field Screening (including water ssample, soil sample, soil gas sample, etc.)*** | | | | | |
| 1. Standard | | per foot | $16.01 | | $0.00 |
| 2. Fractured Rock | | per foot | $21.55 | | $0.00 |
| G. **Soil Leachability Model** | | each | $64.02 | | $0.00 |
| H. **Abandonment (per foot)*** | | | | | |
| 1. 2" diameter or less | | per foot | $3.31 | | $0.00 |
| 2. Greater than 2" to 6" diameter | | per foot | $4.80 | | $0.00 |
| 3. Dug/Bored well (up to 6 feet diameter) | | per foot | $16.00 | | $0.00 |
| I. **Well Installation (per foot)*** | | | | | |
| 1. Water Table (hand augered) | | per foot | $11.31 | | $0.00 |
| 2. Water Table (drill rig) 2" Diameter | | per foot | $40.55 | | $0.00 |
| 3. Telescoping | | per foot | $53.35 | | $0.00 |
| 4. Rock Drilling | | per foot | $61.89 | | $0.00 |
| 5. 2" Rock Coring | | per foot | $32.97 | | $0.00 |
| 6. Rock Multi-sampling ports/screens | | per foot | $35.64 | | $0.00 |
| 7. Recovery Well (4" diameter) | | per foot | $48.02 | | $0.00 |
| 8. Pushed Pre-packed screen (1.25" dia) | | per foot | $16.01 | | $0.00 |
| 9. Rotosonic (2" diameter) | | per foot | $46.95 | | $0.00 |
| 10. Re-develop Existing Well | | per foot | $11.74 | | $0.00 |

| | | | | | |
|---|---|---|---|---|---|
| J. **Groundwater Sample Collection / Gauge Depth to Water or Product *** | | | | | |
| 1. Groundwater Purge | 2 | per well | $64.02 | | $128.04 |
| 2. Air or Vapors | | sample | $12.80 | | $0.00 |
| 3. Water Supply Sample or Duplicate | 3 | sample | $23.47 | | $70.41 |
| 4. Groundwater No Purge or Duplicate or Grab | 37 | sample | $29.88 | | $1,105.56 |
| 5. Gauge Well only | | sample | $7.47 | | $0.00 |
| 6. Sample Below Product | | sample | $12.80 | | $0.00 |
| 7. Passive Diffusion Bag | | sample | $27.74 | | $0.00 |
| 8. Field Blank | 3 | sample | $26.25 | | $78.75 |
| 9. Groundwater (low flow purge) | | sample | $97.10 | | $0.00 |
| 10. Equipment Blank | | sample | $26.25 | | $0.00 |
| **K. Laboratory Analyses-Groundwater** | | | | | |
| 1. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B) | 42 | per sample | $130.17 | | $5,467.14 |
| 2. Lead, Filtered | | per sample | $14.72 | | $0.00 |
| 3. Rush EPA Method 8260B | | per sample | $163.89 | | $0.00 |
| 4. Trimethal, Butyl, and Isopropyl Benzenes | | per sample | $29.88 | | $0.00 |
| 5. PAH's | | per sample | $64.66 | | $0.00 |
| 6. Lead | | per sample | $17.07 | | $0.00 |
| 7. EDB by EPA 8011 | 41 | per sample | $48.23 | | $1,977.43 |
| 8. EDB by EPA Method 8011 Rush | | per sample | $72.77 | | $0.00 |
| 9. 8 RCRA Metals | | per sample | $67.65 | | $0.00 |
| 10. TPH (9070) | | per sample | $43.75 | | $0.00 |
| 11. PH | | per sample | $5.55 | | $0.00 |
| 12. BOD | | per sample | $21.34 | | $0.00 |
| 13. Ethanol | | per sample | $15.79 | | $0.00 |
| **K. Analyses-Drinking Water** | | | | | |
| 14. BTEXNM+1,2 DCA (524.2) | 5 | per sample | $132.36 | | $661.80 |
| 15. 7-OXYGENATES & ETHANOL (8260B) | 5 | per sample | $97.90 | | $489.50 |
| 16. EDB (504.1) | 4 | per sample | $84.83 | | $339.32 |
| 17. RCRA METALS (200.8) | | per sample | $106.70 | | $0.00 |
| K. **Analyses-Soil** | | | | | |
| 18. BTEX + Naphth. | | per sample | $68.29 | | $0.00 |
| 19. PAH's | | per sample | $68.33 | | $0.00 |
| 20. 8 RCRA Metals | | per sample | $60.18 | | $0.00 |
| 21. TPH-DRO (3550C/8015C) | | per sample | $42.68 | | $0.00 |
| 22. TPH- GRO (5035B/8015C) | | per sample | $38.37 | | $0.00 |
| 23. Grain size/hydrometer | | per sample | $110.97 | | $0.00 |
| 24. Total Organic Carbon | | per sample | $32.65 | | $0.00 |
| K. **Analyses-Air** | | | | | |
| 25. BTEX + Naphthalene | | per sample | $230.47 | | $0.00 |
| K. **Analyses-Free Phase Product** | | | | | |
| 26. Hydrocarbon Fuel Identification | | per sample | $380.92 | | $0.00 |
| L. **Aquifer Characterization*** | | | | | |
| 1. Pumping Test | | per hour | $24.54 | | $0.00 |
| 2. Slug Test | | per test | $203.80 | | $0.00 |
| 3. Fractured Rock | | per test | $106.70 | | $0.00 |

| | | | | | |
|---|---|---|---|---|---|
| M. **Free Product Recovery Rate Test*** | | each | $40.55 | | $0.00 |
| N. **Fate/Transport Modeling** | | | | | |
| 1. Mathematical Model | | each | $106.70 | | $0.00 |
| 2. Computer Model | | each | $106.70 | | $0.00 |
| O. **Risk Evaluation** | | | | | |
| 1. Tier I Risk Evaluation | | each | $320.10 | | $0.00 |
| 2. Tier II Risk Evaluation | | each | $106.70 | | $0.00 |
| P. **Subsequent Survey*** | | each | $260.00 | | $0.00 |
| Q. **Disposal (gallons or tons)*** | | | | | |
| 1. Wastewater | 100 | gallon | $0.60 | | $60.00 |
| 2. Free Product | | gallon | $0.53 | | $0.00 |
| 3. Soil Treatment/Disposal | | ton | $64.02 | | $0.00 |
| 4. Drilling fluids | | gallon | $0.45 | | $0.00 |
| R. **Miscellaneous (attach receipts)** | | | | | |
| | | each | $0.00 | | $0.00 |
| | | each | $0.00 | | $0.00 |
| | | each | $0.00 | | $0.00 |
| T. **Tier I Assessment (Use DHEC 3665 form)** | | | | | |
| 1. Southeast Region | | standard | $11,026.00 | | $0.00 |
| 2. All Other Counties | | standard | $12,093.00 | | $0.00 |
| **U. IGWA (Use DHEC 3666 form)** | | | | | |
| 1. Southeast Region | | standard | $3,803.00 | | $0.00 |
| 2. All Other Counties | | standard | $4,123.00 | | $0.00 |
| 22. **Corrective Action (Use DHEC 3667 form)** | | PFP Bid | | | $0.00 |
| W. **Aggressive Fluid & Vapor Recovery (AFVR)** | | | | | |
| 1. 8-hour Event* | | per event | $1,467.13 | | $0.00 |
| 2. 24-hour Event* | | per event | $4,081.28 | | $0.00 |
| 3. 48-hour Event* | | per event | $6,706.10 | | $0.00 |
| 4. 96-hour Event* | | per event | $13,409.52 | | $0.00 |
| 5. Off-gas Treatment 8 hour | | per event | $130.71 | | $0.00 |
| 6. Off-gas Treatment 24 hour | | per event | $257.68 | | $0.00 |
| 7. Off-gas Treatment 48 hour | | per event | $348.91 | | $0.00 |
| 8. Off-gas Treatment 96 hour | | per event | $832.26 | | $0.00 |
| 9. Off-gas Treatment 8 hour (w/chlorinated compounds) | | per event | $430.00 | | $0.00 |
| 10. Off-gas Treatment 24 hour (w/chlorinated compounds) | | per event | $500.00 | | $0.00 |
| 11. Off-gas Treatment 48 hour (w/chlorinated compounds) | | per event | $1,000.00 | | $0.00 |
| 12. Off-gas Treatment 96 hour (w/chlorinated compounds) | | per event | $2,000.00 | | $0.00 |
| 13. AFVR Effluent Disposal(w/chlorinated compounds) | | gallon | $0.50 | | $0.00 |
| 14. AFVR Site Reconnaissance | | each | $216.87 | | $0.00 |
| 15. Additional Hook-ups | | each | $27.48 | | $0.00 |
| 16. AFVR Effluent Disposal | | gallon | $0.47 | | $0.00 |
| 17. AFVR Mobilization/Demobilization | | each | $417.73 | | $0.00 |

| | | | | | |
|---|---|---|---|---|---|
| X. **Granulated Activated Carbon (GAC) filter system installation & service:** | | | | | |
| 1. New GAC System Installation* | | each | $2,027.30 | | $0.00 |
| 2. Refurbished GAC Sys. Install* | | each | $960.30 | | $0.00 |
| 3. Filter replacement/removal* | | each | $373.45 | | $0.00 |
| 4. GAC System removal, cleaning, & refurbishment* | | each | $293.43 | | $0.00 |
| 5. GAC System housing* | | each | $266.75 | | $0.00 |
| 6. In-line particulate filter | | each | $160.05 | | $0.00 |
| 7. Additional piping & fittings | | foot | $1.60 | | $0.00 |
| Y. **Well Repair** | | | | | |
| 1. Additional Copies of the Report Delivered | | each | $53.35 | | $0.00 |
| 2. Repair 2x2 MW pad* | | each | $53.35 | | $0.00 |
| 3. Repair 4x4 MW pad* | | each | $93.90 | | $0.00 |
| 4. Replace well vault* | | each | $125.91 | | $0.00 |
| 5. Replace well cover bolts | | each | $2.77 | | $0.00 |
| 6. Replace locking well cap & lock | | each | $16.00 | | $0.00 |
| 7. Replace/Repair stick-up* | | each | $142.98 | | $0.00 |
| 8. Convert Flush-mount to Stick-up* | | each | $160.05 | | $0.00 |
| 9. Convert Stick-up to Flush-mount* | | each | $138.71 | | $0.00 |
| 10. Replace missing/illegible well ID plate | | each | $12.80 | | $0.00 |
| **S. Report Prep & Project Management** | 12% | percent | $11,440.68 | | $1,372.88 |
| **TOTAL** | | | | | $12,813.56 |

DHEC D-4074 (1-2020) *The appropriate mobilization cost can be added to complete these tasks, as necessary

dhec
Healthy People. Healthy Communities.

MAR 16 2021

MARTY EASLER
196 RICHBURG RD
GREELEYVILLE SC 29056

Re: **Site Specific Work Plan Approval and Groundwater Sampling Notice to Proceed**
Tisdales Quick Stop, 1989 Thurgood Marshall Boulevard, Kingstree, SC
UST Permit #18686; CA #63171
Release #1 reported March 30, 2001
Site Specific Work Plan received February 1, 2021
Williamsburg County

Dear Mr. Easler:

The Underground Storage Tank Management Division (UST 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 compliance with the most recent revision of the UST QAPP, your contractor's Annual Contractor Quality Assurance Plan, and all applicable regulations. A copy of the current revision of the UST QAPP is available at scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance.

The groundwater sampling event should begin immediately upon receipt of this letter. The Cost Agreement number shown above has been approved for the amount shown on the enclosed cost agreement form.

**The contractor must provide notification to the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes to the schedule, the UST Project Manager must be contacted within 24 hours of those changes.**

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. **The Monitoring Report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the UST Division within sixty (60) days of the date of this correspondence.** 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 the SUPERB Account cannot compensate any costs that are not pre-approved. 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 UST 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 UST 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 a DHEC-certified site rehabilitation contractor as required by the SUPERB Site Rehabilitation and Fund Access Regulation, R.61-98.

The UST 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 by phone at (803) 898-0500, by fax at (803) 898-0673, or by e-mail at brownaj@dhec.sc.gov.

Sincerely,

Arthur Brown, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

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

# Approved Cost Agreement 63171

Facility: 18686 TISDALES QUICK STOP
BROWNAJ
PO Number:

| Task / Description | Categories | Item | Description | Qty / Pct | Unit Price | Amount |
|---|---|---|---|---|---|---|
| A PLAN PREPARATION | | | | | | |
| | | 1 | SITE SPECIFIC WORK PLAN | 1.0000 | $160.050 | 160.05 |
| D MOB/DEMOB | | | | | | |
| | | 2 | PERSONNEL | 2.0000 | $451.340 | 902.68 |
| J SAMPLE COLLECTION | | | | | | |
| | | 1 | GROUND WATER PURGE | 2.0000 | $64.020 | 128.04 |
| | | 3 | WATER SUPPLY SAMPLE/ DUPLICATE | 3.0000 | $23.470 | 70.41 |
| | | 4 | GROUNDWATER NO-PURGE/DUPL/GRAB | 37.0000 | $29.880 | 1,105.56 |
| | | 8 | FIELD BLANK | 3.0000 | $26.250 | 78.75 |
| K ANALYSES | | | | | | |
| | DW DRINKING WATER | 14 | BTEXNM+1,2 DCA (524.2) WSW | 5.0000 | $132.360 | 661.80 |
| | | 15 | OXYGENATES & ETHANOL 8260B WSW | 5.0000 | $97.900 | 489.50 |
| | | 16 | EDB (504.1) WSW | 4.0000 | $84.830 | 339.32 |
| | GW GROUNDWATER | 1 | BTEXNM+OXYGS+1,2-DCA+ETH-8260B | 42.0000 | $130.170 | 5,467.14 |
| | | 7 | EDB BY EPA 8011 | 41.0000 | $48.230 | 1,977.43 |
| Q DISPOSAL | | | | | | |
| | | 1 | WASTEWATER | 100.0000 | $0.600 | 60.00 |
| S REPORT PROJECT MANAGEMENT | | | | | | |
| | | S | REPORT PREP & PROJ. MANAGEMENT | 0.1200 | $11,440.680 | 1,372.88 |
| | | | | **Total Amount** | | 12,813.56 |

**Geological Resources, Inc.**

June 2, 2021

Mr. Arthur Brown
SCDHEC
UST Management Division
Bureau of Land & Waste Management
2600 Bull Street
Columbia, SC 29201

Re: Ground Water Monitoring Report
May 2021
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County
South Carolina
UST Permit Number: 18686
GRI Project No: 1543

Dear Mr. Brown,

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**

Geological Resources, Inc.

UST
JUN 04 2021
DIVISION

Ground Water Monitoring Report
May 2021
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County
South Carolina
UST Permit Number: 18686
GRI Project Number: 1543

Prepared for:

Mr. Marty Easler
196 Richburg Road
Greeleyville, South Carolina 29056

June 2, 2021

JOHN M. BROWN
REGISTERED
No. 1116
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

John M. Brown, P.G.
License No. 1116

W. Scott Ball
Project Manager

**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**
**Class 1 UST Site Rehabilitation Contractor #74**

**ACRONYMS**

ACM: Asbestos Containing Materials

AFVR: Aggressive Fluid-Vapor Recovery

AS: Air Sparging

AST: Aboveground Storage Tank

ASTM: American Society for Testing and Materials

BGS: Below Ground Surface

BLWM: Bureau of Land and Waste Management

CA: Cost Agreement

CAP: Corrective Action Plan

CFR: Code of Federal Regulations

COC: Chain of Custody

CoC: Chemical of Concern

DPE: Dual Phase Extraction

DRO: Total Petroleum Hydrocarbons Diesel Range Organics

EPA: Environmental Protection Agency

ER: Engineering Report

ESA: Environmental Site Assessment

GC: Gas Chromatograph

GRI: Geological Resources, Inc.

GRO: Total Petroleum Hydrocarbons Gasoline Range Organics

IGWA: Initial Ground Water Assessment

MCL: Maximum Contaminant Level

MDL: Method Detection Limit

MNA: Monitored Natural Attenuation

NAPL: Non-Aqueous Phase Liquid, "Free Product"

NPDES: National Pollutant Discharge Elimination System

OVA: Organic Vapor Analyzer

PAHs: Polynuclear Aromatic Hydrocarbons

QA: Quality Assurance

QAPP: Quality Assurance Project Plan

QC: Quality Control

QMP: Quality Management Plan

RBSL: Risk-Based Screening Level

SCDHEC: South Carolina Department of Health and Environmental Control

SCDOT: South Carolina Department of Transportation

SOP: Standard Operating Procedure

SPCC: Spill Prevention Control and Countermeasures

SSTL: Site Specific Target Level

SSWP: Site Specific Work Plan

SVE: Soil Vapor Extraction

SVOCs: Semi-Volatile Organic Compounds

SWPPP: Stormwater Pollution Prevention Plan

TCLP: Toxicity Characteristic Leaching Procedure (EPA Method SW-846 1311)

TOC: Top of Casing

TPH: Total Petroleum Hydrocarbons

USGS: United States Geological Survey

UST: Underground Storage Tank

UVF: Ultraviolet Fluorescence

VOCs: Volatile Organic Compounds

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Appendix C: Disposal Manifest
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## 1. INTRODUCTION

### 1.1 Project Background

This report presents the results of ground water sampling activities conducted in April 2021 at the Tisdale's Quick Stop site, located at 1989 Thurgood Marshall Boulevard in Kingstree, Williamsburg County, South Carolina (**Figure 1**). The activities were conducted in accordance with the Site Specific Work Plan Approval and Groundwater Sampling Notice to Proceed dated March 16, 2021 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 facility and convenience store. Adjacent properties are currently used for residential and commercial purposes.

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. According to the SCDHEC 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 USTs and one 1,000 gallon diesel UST were removed in March 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.

Five water supply wells (WSW-1 through WSW-5) were identified within 1,000 feet of the source area during a receptor survey conducted in January 2002. WSW-1 is located on an adjacent property approximately 170 feet northeast of the on-site source area. Water supply well WSW-2 is located approximately 650 feet to the southwest of the source area. Currently, WSW-2 is inoperable. Water supply wells WSW-3 through WSW-5 are located to the southeast of the source area on single family residential properties fronting the north side of Highway 527. Each of these properties has access to the municipal water supply, and the wells are not in use or are used for irrigation purposes only. No surface water bodies were identified within a 1,000-foot radius of the site.

Four recovery wells (RW-1 through RW-4) were installed in the area of highest contaminant concentrations in January 2019. Two 96-hour AFVR events were conducted in February 2019 on MW-2A, MW-16R, RW-1, RW-2, RW-3 and RW-4 to reduce concentrations of chemicals of concern. The last comprehensive ground water sampling event conducted at the site occurred in July 2020. This report summarizes the April 2021 ground water monitoring results. Please refer to earlier submittals for additional information regarding previous assessment activities.

### 1.2 Regional Geology/Hydrogeology

The site is located in Williamsburg County in the Lower Coastal Plain Physiographic Province of South Carolina. The Coastal Plain is an extensive geologic province that roughly parallels the Atlantic Ocean and continues northward and southward through the neighboring states. In South Carolina, the Coastal Plain is expressed physiographically in three regional belts: the Upper Coastal Plain, the Middle Coastal Plain and the Lower Coastal Plain. The surface deposits in the Coastal Plain are generally characterized by a recurrent sequence of clean fine to medium sand, muddy fine sand, and clean to muddy, medium to coarse sand or gravelly sand. These textures represent changes in depositional environments from beach, to backbarrier, to river respectively.

The major aquifer systems in the Middle and Lower Coastal Plain are the Middendorf Aquifer System, the Black Creek Aquifer System, the Tertiary Aquifer System and the Surficial Aquifer System. The surficial aquifer system consists mostly of beds of unconsolidated sand, shelly sand and shell. In places, clay beds are sufficiently thick and continuous to divide the system into two or three aquifers; however, the system is mostly undivided. Complex interbedding of fine-and coarse-grained textured rocks is typical of the system. The thickness of the surficial aquifer system is typically less than 50 feet and thickens coastward. The rocks that comprise the surficial aquifer system range from late Miocene to Holocene in age.

## 2. SITE INFORMATION

- **Site Identification**
  - Site Name: Tisdale's Quick Stop
  - Location of Source Area: 1989 Thurgood Marshall Boulevard
    Kingstree, SC 29526
    Williamsburg County
    33.6579897°N, 79.8127613°W (Topographical Map)
  - UST Permit Number: 18686
  - Land Use: Commercial

- **Information about Contacts Associated with the Leaking UST System**

**UST Owner/Operator**
Marty Easler
196 Richburg Road
Greeleyville, SC 29056
(843) 372-2502

**Property Owner**
Andy McKnight (Life)
316 McCullough Loop
Kingstree, SC 29566
(843) 382-2474

**Analytical Laboratory**
SGS North America, Inc.
4405 Vineland Road, Suite C-15
Orlando, FL 32811
State Certification No. 96038001
(407) 425-6700

**Site Rehabilitation Contractor**
Geological Resources, Inc.
3502 Hayes Road
Monroe, NC 28110
704-845-4010
Class 1, Certification Number 74

- **Information about Release**
  - Release was discovered March 30, 2001
  - An unknown amount of product was released from a leaking UST system
  - Two 550 gallon gasoline USTs and one 1,000 gallon diesel UST were removed March 1, 2001.

## 3. ASSESSMENT INFORMATION

### 3.1 Site Geology/Hydrogeology

Based on information obtained during the site assessment activities, the material encountered during subsurface exploration consisted of various silts, clays and sands to depths of approximately 51 feet, the maximum depth investigated.

Twenty five Type III monitoring wells (MW-1 through MW-3, MW-5R, MW-8, MW-9, MW-11R, MW-12R, MW-13, MW-14, MW-15, MW-16R, MW-17R, MW-18R, MW-21, MW-23 through MW-28, MW-31, MW-1A, MW-2A and MW-4A), two telescoping monitoring well (TW-1 and TW-2) and two water supply wells (WSW-1 and WSW-3) were gauged, purged and/or sampled on April 12 and April 13, 2021. Please note, monitoring wells MW-3A, MW-4, MW-6, MW-7, MW-10, MW-19, MW-20, MW-22, MW-29 and MW-30 could not be located, therefore, they were not gauged or sampled. Free product was not observed in any of the monitoring wells during the April 2021 gauging activities.

The depths to ground water in the Type III monitoring wells at the site, measured on April 12, 2021 ranged from 8.91 feet to 13.63 feet below the top of casings. The depths to ground water in telescoping wells TW-1 and TW-2 were 12.02 feet and 10.71 feet, respectively. Ground water elevations in the Type III monitoring wells relative to a temporary benchmark of 100.00 ranged from 83.42 to 88.00 feet. Based on this data, the general direction of ground water flow in the Type III wells was toward the west. The ground water elevations in telescoping wells TW-1 and TW-2 were 86.98 feet and 84.58 feet, respectively. The shallow horizontal hydraulic gradient calculated across the site was less than 0.005 feet/foot. The vertical hydraulic gradient between paired wells MW-1/TW-1 was 0.03 feet/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 is included as **Figure 3**. A summary of ground water gauging data for the April 2021 sampling event is presented in **Table 1**. A summary of the April 2021 gauging data is shown below:

| Well No. | Top of Casing Elevation (ft) | Depth to Ground Water (ft) | Ground Water Elevation (ft) | Constructed Well Depth (ft) | Screened Interval (ft) |
|---|---|---|---|---|---|
| MW-1 | 98.80 | 10.80 | 88.00 | 20 | 10-20 |
| MW-2 | 98.81 | 11.01 | 87.80 | 25 | 10-25 |
| MW-3 | 98.75 | 10.93 | 87.82 | 25 | 10-25 |
| MW-5R | 98.23 | 10.65 | 87.58 | 25 | 10-25 |
| MW-8 | 98.14 | 10.75 | 87.39 | 22 | 12-22 |
| MW-9 | 98.50 | 11.77 | 86.73 | 22 | 12-22 |
| MW-11R | 95.13 | 9.51 | 85.62 | 20 | 5-20 |
| MW-12R | 96.04 | 9.76 | 86.28 | 20 | 5-20 |
| MW-13 | 98.97 | 11.51 | 87.46 | 25 | 10-25 |
| MW-14 | 98.37 | 10.97 | 87.40 | 25 | 10-25 |
| MW-15 | 99.53 | 12.53 | 87.00 | 25 | 10-25 |
| MW-16R | 97.98 | 11.16 | 86.82 | 25 | 10-25 |
| MW-17R | 96.90 | 10.61 | 86.29 | 25 | 10-25 |
| MW-18R | 99.36 | 13.37 | 85.99 | 25 | 10-25 |
| MW-21 | 95.68 | 11.06 | 84.62 | 23 | 8-23 |
| MW-23 | 95.78 | 11.46 | 84.32 | 24 | 9-24 |
| MW-24 | 93.85 | 9.31 | 84.54 | 23 | 8-23 |
| MW-25 | 94.28 | 9.42 | 84.86 | 23 | 8-23 |
| MW-26 | 93.92 | 8.91 | 85.01 | 21 | 6-21 |
| MW-27 | 98.18 | 13.27 | 84.91 | 25 | 10-25 |
| MW-28 | 98.43 | 13.63 | 84.80 | 25 | 10-25 |
| MW-31 | 95.95 | 12.53 | 83.42 | 20 | 10-20 |
| MW-1A | 97.17 | 10.64 | 86.53 | Unknown | Unknown |
| MW-2A | 97.28 | 10.93 | 86.35 | Unknown | Unknown |
| MW-4A | 98.07 | 11.01 | 87.06 | Unknown | Unknown |
| TW-1 | 99.00 | 12.02 | 86.98 | 46 | 41-46 |

| Well No. | Top of Casing Elevation (ft) | Depth to Ground Water (ft) | Ground Water Elevation (ft) | Constructed Well Depth (ft) | Screened Interval (ft) |
|---|---|---|---|---|---|
| TW-2 | 95.29 | 10.71 | 84.58 | 51 | 46-51 |

### 3.2 Ground Water Quality

Field readings (pH, specific conductivity, temperature, dissolved oxygen, and turbidity) were collected from the purged wells after each well volume was removed and recorded on field data information sheets. Ground water samples collected from the monitoring wells were analyzed for the following compounds: BTEX, MTBE, naphthalene, 1, 2-DCA and 8 oxygenates by EPA Method 8260D and EDB by Method 8011. The ground water samples collected from the water supply wells were submitted for analyses of BTEX, MTBE, naphthalene, and 1, 2-DCA by Method 524.2, 8 oxygenates by Method 8260D, and EDB by Method 504.1.

Concentrations of benzene, toluene, xylenes, MTBE and/or naphthalene that exceeded the RBSLs were reported in the ground water samples collected from MW-1, MW-2, MW-16R, MW-1A, MW-2A, and MW-4A. Concentrations of the oxygenate TAA that exceeded the action level were reported in ground water samples collected from MW-1, MW-2, MW-16R, MW-1A, MW-2A and MW-4A. No detectable concentrations of requested method constituents were reported in the samples collected from water supply well samples WSW-1 or WSW-3. A summary of the April 2021 ground water sampling data is shown below:

| Well No. | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | Naphthalene | 1,2-DCA |
|---|---|---|---|---|---|---|---|
| RBSL (µg/l) | 5 | 1,000 | 700 | 10,000 | 40 | 25 | 5 |
| MW-1 | **1,230** | **2,040** | 53.4 | 2,640 | **53.1** | **117 J** | <16 |
| MW-2 | **1,990** | 434 | 329 | 1,380 | 8.5 J | **139** | <7.8 |
| MW-3 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-5R | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-8 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-9 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-11R | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-12R | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-13 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-14 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-15 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-16R | **162** | **1,190** | 488 | 3,370 | <4.6 | **85.1 J** | <6.2 |
| MW-17R | 3.2 | 3.7 | 5.6 | 75.6 | 2.1 | 2.2 J | <0.31 |
| MW-18R | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-23 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-24 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-25 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-26 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-27 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-28 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |

| Well No. | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | Naphthalene | 1,2-DCA |
|---|---|---|---|---|---|---|---|
| MW-31 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-1A | **132** | 116 | 3.5 | 344 | <0.46 | 6.4 J | <0.62 |
| MW-2A | **3,300** | **8,950** | 526 | 8,970 | <46 | **253 J** | <62 |
| MW-4A | **5,590** | **17,300** | 584 | **10,100** | <57 | <250 | <78 |
| TW-1 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| TW-2 | <0.31 | <0.30 | <0.36 | <0.72 | 1.6 | <1.0 | <0.31 |
| WSW-1 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 |
| WSW-3 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 |

A Ground Water Quality Map based on data from the April 2021 sampling event has been included as **Figure 4**. Summaries of ground water analytical results are presented in **Table 2** and **Table 3**. A complete laboratory analytical report has been included as **Appendix A**. Field Data Information Sheets are attached as **Appendix B**. A disposal manifest for the purge water generated during the April 2021 sampling event is included as **Appendix C**.

## 4. 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 sampled with dedicated disposable bailers. All field measurement equipment was properly decontaminated between sampling locations. Duplicate samples from monitoring wells MW-1 (DUP A), MW-4A (DUP B) and from water supply well WSW-1 (DUP C), and field blanks were collected during the sampling activities. Laboratory provided trip blanks were included in the sample cooler. Laboratory results for each sample and their respective duplicate sample showed the same compounds at similar concentrations. Estimated concentrations of TBA which did not exceed action levels were reported in the water supply well field and trip blanks. No other detectable concentrations of requested method constituents were reported in the field blanks or trip blanks. All applicable items on the Contractor Checklist were reviewed and verified. A copy of the Contractor Checklist is included as **Appendix D**.

## 5. CONCLUSIONS AND RECOMMENDATIONS

- Twenty five Type III monitoring wells, two telescoping monitoring wells and two water supply wells were gauged, purged and/or sampled on April 12 and April 13, 2021.
- The depths to ground water in the Type III monitoring wells ranged from 8.91 feet to 13.63 feet below the top of casings. The depths to ground water in telescoping wells TW-1 and TW-2 were 12.02 feet and 10.71 feet, respectively. Ground water flow in the Type III wells was toward the west with a hydraulic gradient of 0.005 feet per foot and a vertical gradient of 0.03 feet per foot downward.
- Concentrations of benzene, toluene, xylenes, MTBE and/or naphthalene that exceeded the RBSLs were reported in the ground water samples collected from MW-1, MW-2, MW-16R, MW-1A, MW-2A, and MW-4A. Concentrations of the oxygenate TAA that exceeded the action level were reported in ground water samples MW-1, MW-2, MW-16R, MW-1A, MW-2A and MW-4A.
- GRI makes the following recommendations:

- Additional AFVR events should be conducted to reduce concentrations of chemicals of concern.
- Due to the presence of nearby water supply wells, ground water sampling events should continue at the site as directed by SCDHEC.

## 6. 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**

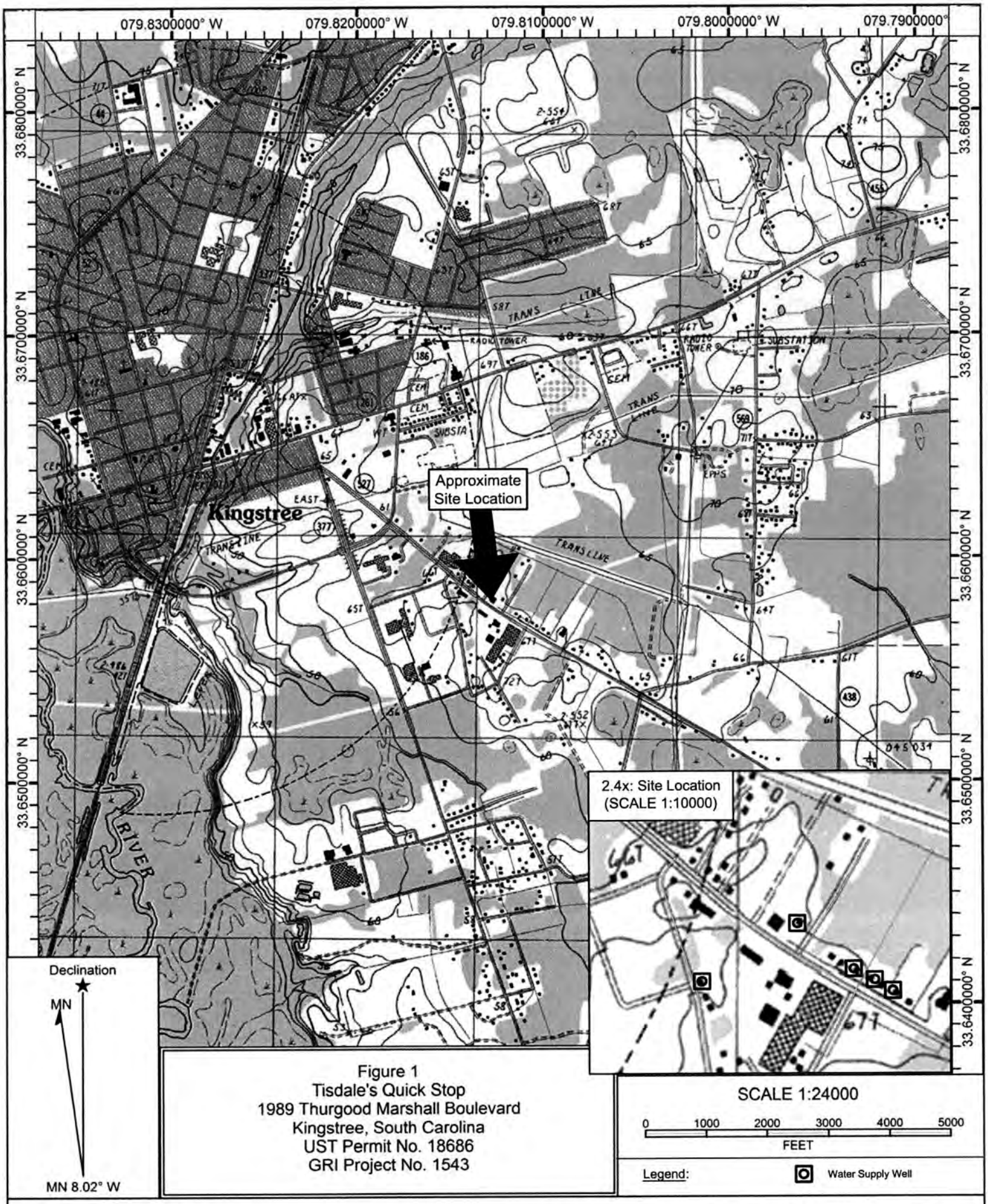



Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit No. 18686
GRI Project No. 1543

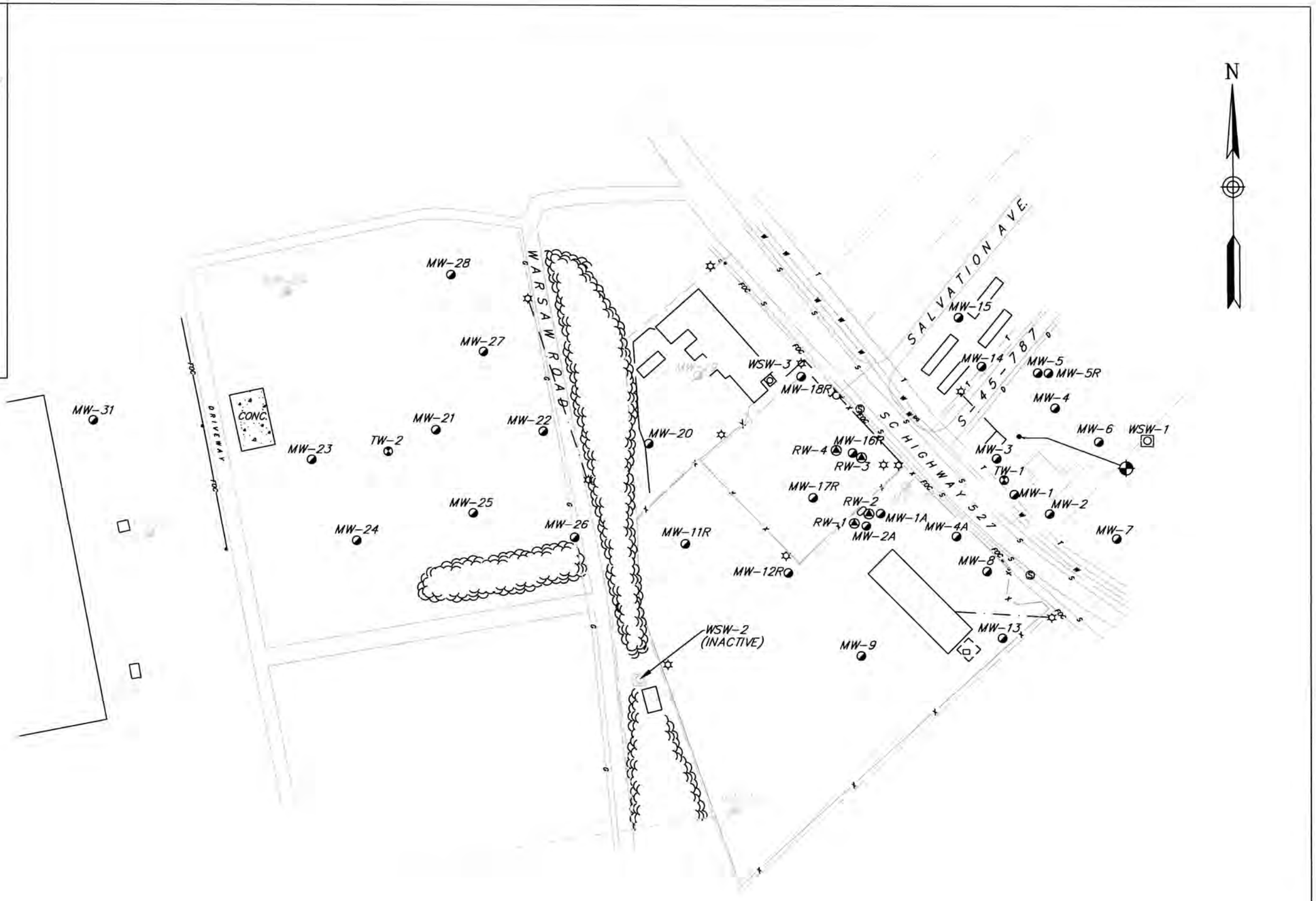
Name: Topographic Map
Date: 08/08/16
Scale: 1 inch = 2,000 ft.

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
- RECOVERY WELL




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

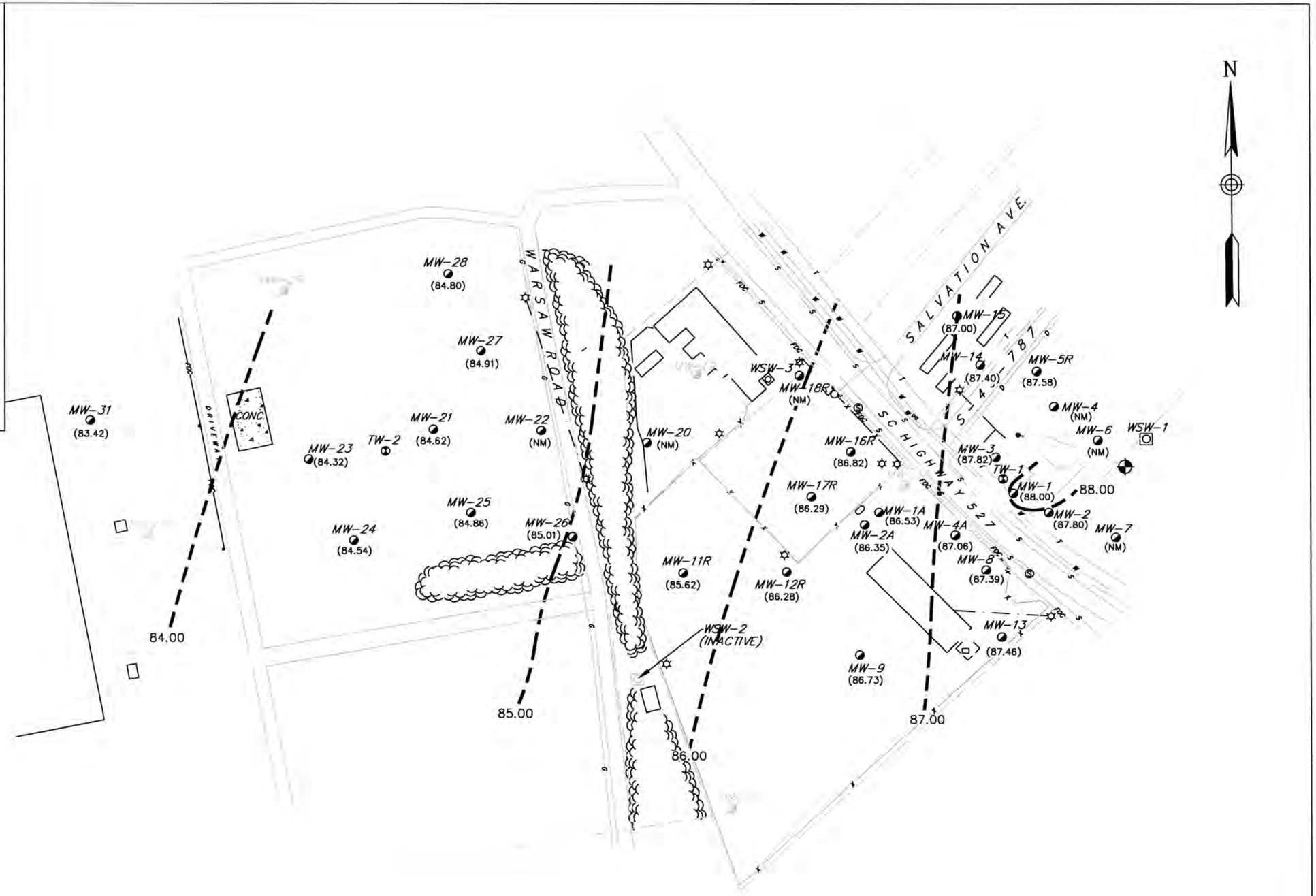
1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County, SC

| Date: | 08/12/2020 | Drawn by: | DTH | Figure: | 2 |
|---|---|---|---|---|---|

C:\Users\DARHOWARD\Desktop\New folder (2)\1543\1543 Base Map.dwg, Model, 8/12/2020 9:11:33 AM, DARHOWARD

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 (04/13/2021)

Tisdale's Quick Stop
UST Permit No. 18686
GRI Project No. 1543

1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County, SC

| Date: | 05/31/2021 | Drawn by: | DTH | Figure: | 3 |
|---|---|---|---|---|---|

## 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

| | |
|---|---|
| **1,230** | BENZENE |
| **2,040** | TOLUENE |
| 53.4 | ETHYLBENZENE |
| 2,640 | XYLENES |
| **53.1** | MTBE |
| **117 J** | NAPHTHALENE |

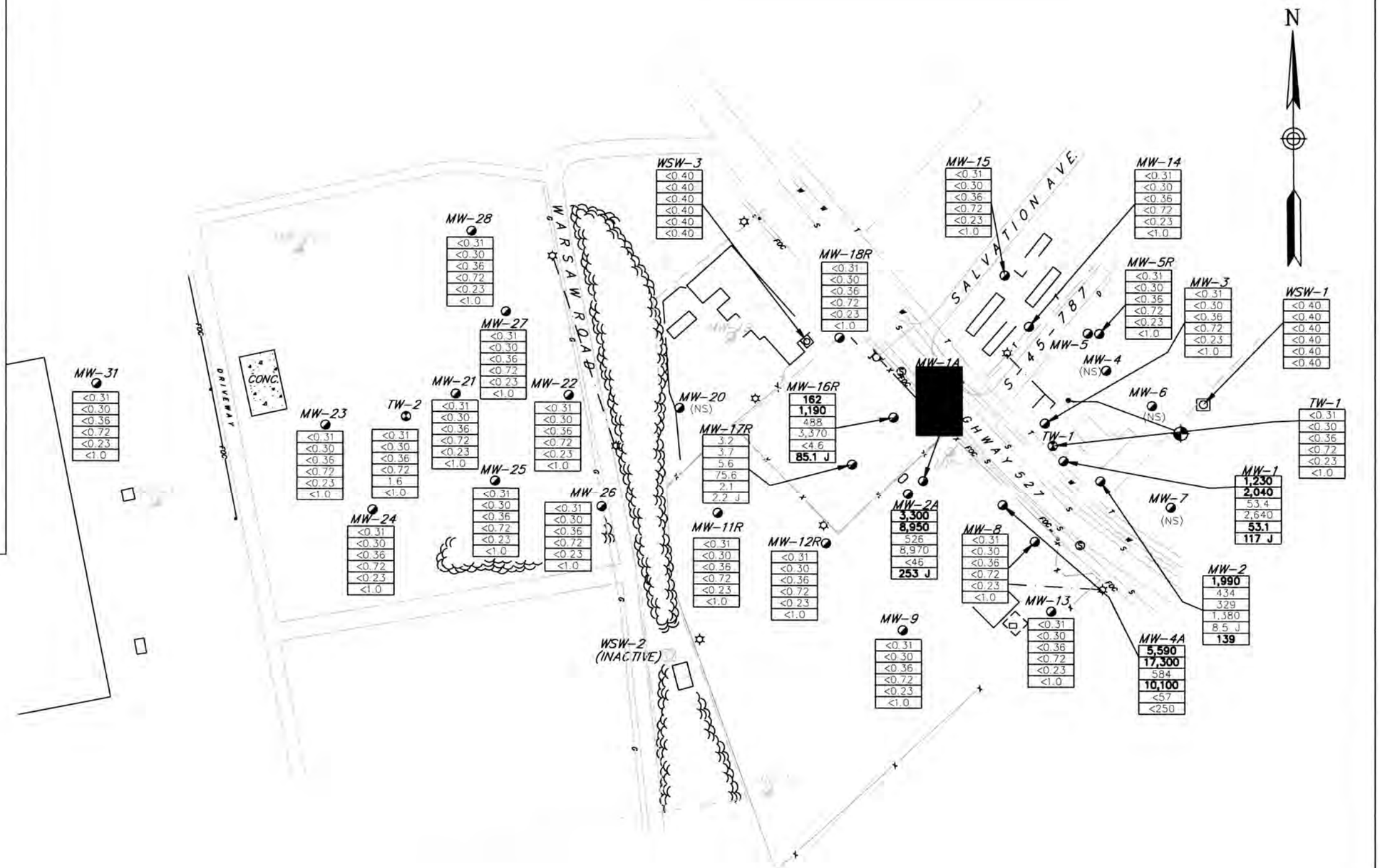
CONCENTRATIONS IN µg/L

<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.

0 50 100 200

( IN FEET )
1 inch = 100 ft

GROUND WATER QUALITY MAP (04/13/21)

Tisdale's Quick Stop
UST Permit No. 18686
GRI Project No. 1543

1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County, SC

| Date: | 05/31/2021 | 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 | | |
| | 07/16/20 | | 12.63 | --- | 86.17 | | |
| | 04/13/21 | | 10.80 | --- | 88.00 | | |
| 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 | | |
| | 07/16/20 | | 12.88 | --- | 85.93 | | |
| | 04/13/21 | | 11.01 | --- | 87.80 | | |

**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 | | |
| | 07/16/20 | | 12.77 | --- | 85.98 | | |
| | 04/13/21 | | 10.93 | --- | 87.82 | | |
| 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 | | |
| | 07/16/20 | | 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-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 |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 10.65 | — | 87.58 | | |
| 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 | | |
| | 07/16/20 | | NM | — | NM | | |
| | 04/13/21 | | 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-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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | NM | NM | NM | | |
| 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 | | |
| | 07/16/20 | | 12.46 | --- | 85.68 | | |
| | 04/13/21 | | 10.75 | --- | 87.39 | | |

**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-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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 11.77 | --- | 86.73 | | |
| 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 | | |

**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 | NM | | |
| MW-11R | 04/18/18 | 95.13 | 11.94 | --- | 83.19 | 20 | 5-20 |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 9.51 | --- | 85.62 | | |
| 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 | NM | | |
| MW-12R | 04/18/18 | 96.04 | 12.33 | --- | 83.71 | 20 | 5-20 |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 9.76 | --- | 86.28 | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 11.51 | --- | 87.46 | | |

**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-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 | | |
| | 07/16/20 | | 12.76 | --- | 85.61 | | |
| | 04/13/21 | | 10.97 | --- | 87.40 | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 12.53 | --- | 87.00 | | |

**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 | NM | | |
| MW-16R | 04/18/18 | 97.98 | 13.83 | --- | 84.15 | 25 | 10-25 |
| | 07/16/20 | | 12.75 | --- | 85.23 | | |
| | 04/13/21 | | 11.16 | --- | 86.82 | | |
| 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 | NM | | |
| MW-17R | 04/18/18 | 96.90 | 13.10 | --- | 83.80 | 25 | 10-25 |
| | 07/16/20 | | 12.22 | --- | 84.68 | | |
| | 04/13/21 | | 10.61 | --- | 86.29 | | |
| 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 | NM | | |
| MW-18R | 04/18/18 | 99.36 | 15.86 | --- | 83.50 | 25 | 10-25 |
| | 07/16/20 | | NM | --- | NM | | |
| | 04/13/21 | | 13.37 | --- | 85.99 | | |

**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 | | |
| | 04/13/21 | | 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 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-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 | 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 11.06 | --- | 84.62 | | |
| 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 | | |
| | 07/16/20 | | 13.17 | --- | 83.45 | | |
| | 04/13/21 | | 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-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 | | |
| | 07/16/20 | | 12.99 | --- | 82.79 | | |
| | 04/13/21 | | 11.46 | --- | 84.32 | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 9.31 | --- | 84.54 | | |

**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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 9.42 | --- | 84.86 | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 8.91 | --- | 85.01 | | |

**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-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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 13.27 | --- | 84.91 | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 13.63 | --- | 84.80 | | |

**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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 12.53 | --- | 83.42 | | |
| 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 | | |
| | 07/16/20 | | 12.22 | --- | 84.95 | | |
| | 04/13/21 | | 10.64 | --- | 86.53 | | |

**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-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 | | |
| | 07/16/20 | | 12.36 | --- | 84.92 | | |
| | 04/13/21 | | 10.93 | --- | 86.35 | | |
| 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 | | |
| | 07/16/20 | | 12.69 | --- | 85.38 | | |
| | 04/13/21 | | 11.01 | --- | 87.06 | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 12.02 | --- | 86.98 | | |

**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 | | |
| | 07/16/20 | | 12.22 | --- | 83.07 | | |
| | 04/13/21 | | 10.71 | --- | 84.58 | | |

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; gauging not request by SCDHEC.
- 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 |
| | 07/16/20 | 101 | 437 | 98.7 | 654 | <1.1 | 45.7 | <1.6 | <0.0096 |
| | 04/13/21 | 1,230 | 2,040 | 53.4 | 2,640 | 53.1 | 117 J | <16 | <0.0050 |
| 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 |
| | 07/16/20 | 214 | 820 | 179 | 1,210 | <2.3 | 86.1 | <3.1 | <0.0095 |
| | 04/13/21 | 1,240 | 2,000 | 53.4 | 2,590 | 56.2 | 120 J | <16 | <0.0050 |
| 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 |
| | 07/16/20 | 1,100 | 390 | 197 | 937 | <4.6 | 68.8 J | <6.2 | <0.0093 |
| | 04/13/21 | 1,990 | 434 | 329 | 1,380 | 8.5 J | 139 | <7.8 | <0.0050 |
| MW-2 DUP | 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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0095 |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| MW-3 DUP | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | 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-5R | 04/18/18 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| MW-6 | 01/17/03 | <1.0 | <1.0 | 1.9 | 3.8 | <1.0 | 7.0 | - | <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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |

**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-8 | 11/06/13 | 0.33 J | <0.20 | <0.29 | <0.50 | <0.21 | <1.0 | <0.22 | NR |
| DUP | 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 |
| | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| 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 |
| MW-11R | 04/18/18 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |

**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 |
| MW-12R | 04/18/18 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0093 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | 2.4 | <1.0 | <0.31 | <0.0049 |
| 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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | 0.013 J |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |

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**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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| 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 |
| MW-16R | 04/18/18 | **16,300** | **59,700** | **6,460** | **34,900** | **56.7 J** | **1,320** | <62 | **0.21** |
| | 07/16/20 | **209** | **4,420** | 652 | 5,340 | <11 | **54.9 J** | <16 | <0.0094 |
| | 04/13/21 | **162** | **1,190** | 488 | 3,370 | <4.6 | **85.1 J** | <6.2 | <0.0050 |
| 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 |
| | 07/16/20 | **26.2** | 325 | 87.1 | 387 | 4.3 J | 13.6 J | <1.6 | <0.0094 |
| | 04/13/21 | 3.2 | 3.7 | 5.6 | 75.6 | 2.1 | 2.2 J | <0.31 | <0.0051 |
| 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-18R | 04/18/18 | 1.9 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0093 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |

**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 | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |

**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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | 0.58 J | <1.0 | <0.31 | 0.028 |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | 4.6 | <1.0 | <0.31 | <0.0095 |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0051 |

**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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |

**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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| 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 |
| | 07/16/20 | **869** | **2,180** | 50.5 | 1,840 | <5.7 | <25 | <7.8 | <0.0093 |
| | 04/13/21 | **132** | 116 | 3.5 | 344 | <0.46 | 6.4 J | <0.62 | <0.0050 |
| 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** |
| | 07/16/20 | **3,970** | **9,330** | 571 | 5,290 | <11 | **272** | <16 | <0.0094 |
| | 04/13/21 | **3,300** | **8,950** | 526 | 8,970 | <46 | **253 J** | <62 | 0.0094 J |
| MW-2A DUP | 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** |
| | 07/16/20 | **3,560** | **10,800** | 289 | 4,560 | <46 | <200 | <62 | <0.0095 |
| | 04/13/21 | **5,590** | **17,300** | 584 | **10,100** | <57 | <250 | <78 | 0.0086 J |
| MW-4A DUP | 06/24/15 | **8,140** | **37,100** | **2,460** | **19,900** | 7.4 | **867 J** | 1.6 | **0.16** |
| | 04/13/21 | **5,250** | **15,900** | 544 | 9,680 | <46 | <200 | <62 | 0.013 J |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |

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**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 |
| | 07/16/20 | 1.5 | <0.30 | <0.36 | <0.72 | 0.67 J | <1.0 | <0.31 | <0.0092 |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | 1.6 | <1.0 | <0.31 | <0.0050 |
| 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 |
| | 07/16/20 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0042 |
| | 04/13/21 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0038 |
| WSW-1 DUP | 04/19/18 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.0040 |
| | 07/16/20 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <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 |
| | 07/16/20 | 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 |
| | 07/16/20 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.042 |
| | 04/13/21 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0039 |
| WSW-3 DUP | 03/08/17 | <0.080 | <0.070 | <0.060 | <0.32 | <0.10 | <0.050 | <0.12 | <0.0086 |
| | 04/13/21 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0039 |

**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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0096 |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| 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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | NR |
| | 04/13/21 | <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 | 1 | <0.0087 |
| | 04/19/18 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.0040 |
| | 07/16/20 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0040 |
| | 04/13/21 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0039 |
| 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 |
| | 07/16/20 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | NR |
| | 04/13/21 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | NR |

Notes:
- Analyses for selected volatile organic compounds (VOCs) by EPA Method 82608; 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; sampling not requested by SCDHEC.
- 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 | <2,300 | <20 | **12,200** | <22 | <880 | <400 |
| | 06/24/15 | <20 | <1,000 | <3,500 | <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 |
| | 07/16/20 | <1.2 | <50 | <410 | <1.2 | **265** | <1.2 | <27 | <25 |
| | 04/13/21 | <12 | <500 | <4,100 | <12 | **4,710** | <12 | <270 | <250 |
| 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 |
| | 07/16/20 | <2.4 | <100 | <820 | <2.4 | **427** | <2.4 | <53 | <50 |
| | 04/13/21 | <12 | <500 | <4,100 | <12 | **5,330** | <12 | <270 | <250 |
| 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 |
| | 07/16/20 | <4.8 | <200 | <1,600 | <4.7 | **703** | <4.9 | <110 | <100 |
| | 04/13/21 | <6.0 | <250 | <2,000 | <5.9 | **5,880** | <6.1 | <130 | <130 |
| MW-2 DUP | 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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| MW-3 DUP | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | 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-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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| MW-8 | 11/06/13 | <0.25 | <20 | <21 | <0.55 | <5.0 | <0.49 | <4.7 | <5.0 |
| DUP | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | 0.76 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 |
| | 04/18/18 | <0.24 | <10 | <82 | <0.24 | 6.0 J | <0.24 | <5.3 | <5.0 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <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-16R | 04/18/18 | <48 | <2,000 | <16,000 | <47 | **20,100** | <49 | <1,100 | <1,000 |
| | 07/16/20 | <12 | <500 | <4,100 | <12 | <260 | <12 | <270 | <250 |
| | 04/13/21 | <4.8 | <200 | <1,600 | <4.7 | **376 J** | <4.9 | <110 | <100 |
| MW-17R | 04/18/18 | <4.8 | <200 | <1,600 | 11.6 J | **4,690** | 11.0 J | <110 | <100 |
| | 07/16/20 | <1.2 | <50 | <410 | <1.2 | <26 | <1.2 | <27 | <25 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | 13.2 J | <0.24 | <5.3 | <5.0 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <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-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 | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | 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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <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 |
| | 04/18/18 | 0.51 J | <10 | <82 | 0.67 J | **1,150** | 2.8 | 48.1 | <5.0 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | 103 | 0.29 J | <5.3 | <5.0 |
| | 04/13/21 | <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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <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 |
| | 04/18/18 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <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 |

**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 |
| | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <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 |
| | 07/16/20 | <6.0 | <250 | <2,000 | <5.9 | **979** | <6.1 | <130 | <130 |
| | 04/13/21 | <0.48 | <20 | <160 | <0.47 | **1,100** | <0.49 | <11 | <10 |

**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 |
| | 04/18/18 | 39.1 J | <1,000 | <8,200 | <24 | **43,700** | 87.0 J | <530 | <500 |
| | 07/16/20 | <12 | <500 | <4,100 | <12 | **5,160** | 14.2 J | <270 | <250 |
| | 04/13/21 | <48 | <2,000 | <16,000 | <47 | **4,010** | <49 | <1,100 | <1,000 |
| MW-2A DUP | 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 |

**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-3A DUP | 03/09/17 | <120 | <5,000 | <41,000 | <120 | **15,700** | <120 | <2,700 | <2,500 |
| 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 |
| | 07/16/20 | <48 | <2,000 | <16,000 | <47 | **2,120 J** | <49 | <1,100 | <1,000 |
| | 04/13/21 | <60 | <2,500 | <20,000 | <59 | **2,510 J** | <61 | <1,300 | <1,300 |
| MW-4A DUP | 06/24/15 | <0.20 | <10 | <35 | 6.1 | **4,840** | 22.6 | <5.4 | <4.0 |
| | 04/13/21 | <48 | <2,000 | <16,000 | <47 | **2,670 J** | <49 | <1,100 | <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 |
| | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | 29.0 | <0.25 | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | 52.1 | <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 |
| | 07/16/20 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 04/13/21 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| WSW-1 DUP | 04/19/18 | <0.40 | <8.0 | <40 | <0.40 | <8.0 | <0.42 | <8.0 | <2.0 |
| | 07/16/20 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <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 |
| | 07/16/20 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 04/13/21 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <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 |
| WSW-3 | 03/08/17 | <0.40 | <8.0 | <40 | <0.40 | <8.0 | <0.40 | <8.0 | <2.0 |
| DUP | 04/13/21 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| 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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | <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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | <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 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 04/13/21 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | 0.96 J | <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 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 04/13/21 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | 1.8 J | <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; sampling not requested by SCDHEC.
- FP: Free Product.
- Concentrations in bold face type exceeded the Action Level.

# APPENDICES

**APPENDIX A**

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: FA84768**

**Sampling Date: 04/13/21**

**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: 114**

**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**

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# Sample Summary

## GRI (Geological Resources Inc.)

Job No: FA84768

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 |
|---|---|---|---|---|---|---|---|
| FA84768-1 | 04/13/21 | 12:10 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-1 |
| FA84768-2 | 04/13/21 | 12:19 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-2 |
| FA84768-3 | 04/13/21 | 12:28 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-3 |
| FA84768-4 | 04/13/21 | 12:37 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-5R |
| FA84768-5 | 04/13/21 | 10:06 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-8 |
| FA84768-6 | 04/13/21 | 10:18 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-9 |
| FA84768-7 | 04/13/21 | 09:46 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-11R |
| FA84768-8 | 04/13/21 | 09:55 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-12R |
| FA84768-9 | 04/13/21 | 10:27 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-13 |
| FA84768-10 | 04/13/21 | 12:56 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-14 |
| FA84768-11 | 04/13/21 | 12:46 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-15 |
| FA84768-12 | 04/13/21 | 11:53 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-16R |

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

# Sample Summary
(continued)

GRI (Geological Resources Inc.)

Job No: FA84768

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 |
|---|---|---|---|---|---|---|---|
| FA84768-13 | 04/13/21 | 12:02 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-17R |
| FA84768-14 | 04/13/21 | 11:44 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-18R |
| FA84768-15 | 04/13/21 | 14:51 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-21 |
| FA84768-16 | 04/13/21 | 15:02 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-23 |
| FA84768-17 | 04/13/21 | 15:13 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-24 |
| FA84768-18 | 04/13/21 | 15:46 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-25 |
| FA84768-19 | 04/13/21 | 15:58 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-26 |
| FA84768-20 | 04/13/21 | 15:35 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-27 |
| FA84768-21 | 04/13/21 | 15:24 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-28 |
| FA84768-22 | 04/13/21 | 14:40 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-31 |
| FA84768-23 | 04/13/21 | 10:41 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-1A |
| FA84768-24 | 04/13/21 | 10:55 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-2A |
| FA84768-25 | 04/13/21 | 11:09 | DJKP | 04/14/21 | AQ | Ground Water | 18686 MW-4A |

# Sample Summary
(continued)

GRI (Geological Resources Inc.)

Job No: FA84768

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 |
|---|---|---|---|---|---|---|---|
| FA84768-26 | 04/13/21 | 11:34 | DJKP | 04/14/21 | AQ | Ground Water | 18686 TW-1 |
| FA84768-27 | 04/13/21 | 14:29 | DJKP | 04/14/21 | AQ | Ground Water | 18686 TW-2 |
| FA84768-28 | 04/13/21 | 12:00 | DJKP | 04/14/21 | AQ | Ground Water | 18686 DUP-A |
| FA84768-29 | 04/13/21 | 12:01 | DJKP | 04/14/21 | AQ | Ground Water | 18686 DUP-B |
| FA84768-30 | 04/13/21 | 13:00 | DJKP | 04/14/21 | AQ | Field Blank Water | 18686 FB |
| FA84768-31 | 04/13/21 | 08:00 | DJKP | 04/14/21 | AQ | Trip Blank Water | 18686 TB |
| FA84768-32 | 04/13/21 | 16:09 | DJKP | 04/14/21 | DW | Drinking Water | 18686 WSW-1 |
| FA84768-33 | 04/13/21 | 16:21 | DJKP | 04/14/21 | DW | Drinking Water | 18686 WSW-3 |
| FA84768-34 | 04/13/21 | 12:02 | DJKP | 04/14/21 | DW | Drinking Water | 18686 DUP-C |
| FA84768-35 | 04/13/21 | 13:01 | DJKP | 04/14/21 | DW | Drinking Water FB | 18686 WSW FB |
| FA84768-36 | 04/13/21 | 08:01 | DJKP | 04/14/21 | DW | Drinking Water TB | 18686 WSW TB |

# Summary of Hits

Job Number: FA84768
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 04/13/21

| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| FA84768-1 | 18686 MW-1 | | | | | |
| Benzene | | 1230 | 50 | 16 | ug/l | SW846 8260D |
| Toluene | | 2040 | 50 | 15 | ug/l | SW846 8260D |
| Ethylbenzene | | 53.4 | 50 | 18 | ug/l | SW846 8260D |
| Xylene (total) | | 2640 | 150 | 36 | ug/l | SW846 8260D |
| Methyl Tert Butyl Ether | | 53.1 | 50 | 11 | ug/l | SW846 8260D |
| Naphthalene | | 117 J | 250 | 50 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol | | 4710 | 1000 | 260 | ug/l | SW846 8260D |
| FA84768-2 | 18686 MW-2 | | | | | |
| Benzene | | 1990 | 25 | 7.8 | ug/l | SW846 8260D |
| Toluene | | 434 | 25 | 7.5 | ug/l | SW846 8260D |
| Ethylbenzene | | 329 | 25 | 8.9 | ug/l | SW846 8260D |
| Xylene (total) | | 1380 | 75 | 18 | ug/l | SW846 8260D |
| Methyl Tert Butyl Ether | | 8.5 J | 25 | 5.7 | ug/l | SW846 8260D |
| Naphthalene | | 139 | 130 | 25 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol | | 5880 | 500 | 130 | ug/l | SW846 8260D |
| FA84768-3 | 18686 MW-3 | | | | | |
| No hits reported in this sample. | | | | | | |
| FA84768-4 | 18686 MW-5R | | | | | |
| No hits reported in this sample. | | | | | | |
| FA84768-5 | 18686 MW-8 | | | | | |
| No hits reported in this sample. | | | | | | |
| FA84768-6 | 18686 MW-9 | | | | | |
| No hits reported in this sample. | | | | | | |
| FA84768-7 | 18686 MW-11R | | | | | |
| No hits reported in this sample. | | | | | | |
| FA84768-8 | 18686 MW-12R | | | | | |
| No hits reported in this sample. | | | | | | |

# Summary of Hits

Job Number: FA84768
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 04/13/21

| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| FA84768-9 | 18686 MW-13 | | | | | |
| Methyl Tert Butyl Ether | | 2.4 | 1.0 | 0.23 | ug/l | SW846 8260D |
| Tert-Amyl Methyl Ether | | 0.76 J | 2.0 | 0.24 | ug/l | SW846 8260D |
| FA84768-10 | 18686 MW-14 | | | | | |
| No hits reported in this sample. | | | | | | |
| FA84768-11 | 18686 MW-15 | | | | | |
| No hits reported in this sample. | | | | | | |
| FA84768-12 | 18686 MW-16R | | | | | |
| Benzene | | 162 | 20 | 6.2 | ug/l | SW846 8260D |
| Toluene | | 1190 | 20 | 6.0 | ug/l | SW846 8260D |
| Ethylbenzene | | 488 | 20 | 7.1 | ug/l | SW846 8260D |
| Xylene (total) | | 3370 | 60 | 14 | ug/l | SW846 8260D |
| Naphthalene | | 85.1 J | 100 | 20 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol | | 376 J | 400 | 110 | ug/l | SW846 8260D |
| FA84768-13 | 18686 MW-17R | | | | | |
| Benzene | | 3.2 | 1.0 | 0.31 | ug/l | SW846 8260D |
| Toluene | | 3.7 | 1.0 | 0.30 | ug/l | SW846 8260D |
| Ethylbenzene | | 5.6 | 1.0 | 0.36 | ug/l | SW846 8260D |
| Xylene (total) | | 75.6 | 3.0 | 0.72 | ug/l | SW846 8260D |
| Methyl Tert Butyl Ether | | 2.1 | 1.0 | 0.23 | ug/l | SW846 8260D |
| Naphthalene | | 2.2 J | 5.0 | 1.0 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol | | 13.2 J | 20 | 5.3 | ug/l | SW846 8260D |
| FA84768-14 | 18686 MW-18R | | | | | |
| No hits reported in this sample. | | | | | | |
| FA84768-15 | 18686 MW-21 | | | | | |
| No hits reported in this sample. | | | | | | |
| FA84768-16 | 18686 MW-23 | | | | | |
| No hits reported in this sample. | | | | | | |

# Summary of Hits

Job Number: FA84768
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 04/13/21

| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| FA84768-17 | 18686 MW-24 | | | | | |
| No hits reported in this sample. | | | | | | |
| FA84768-18 | 18686 MW-25 | | | | | |
| No hits reported in this sample. | | | | | | |
| FA84768-19 | 18686 MW-26 | | | | | |
| No hits reported in this sample. | | | | | | |
| FA84768-20 | 18686 MW-27 | | | | | |
| No hits reported in this sample. | | | | | | |
| FA84768-21 | 18686 MW-28 | | | | | |
| No hits reported in this sample. | | | | | | |
| FA84768-22 | 18686 MW-31 | | | | | |
| No hits reported in this sample. | | | | | | |
| FA84768-23 | 18686 MW-1A | | | | | |
| Benzene [a] | | 132 | 2.0 | 0.62 | ug/l | SW846 8260D |
| Toluene [a] | | 116 | 2.0 | 0.60 | ug/l | SW846 8260D |
| Ethylbenzene [a] | | 3.5 | 2.0 | 0.71 | ug/l | SW846 8260D |
| Xylene (total) [a] | | 344 | 6.0 | 1.4 | ug/l | SW846 8260D |
| Naphthalene [a] | | 6.4 J | 10 | 2.0 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol [a] | | 1100 | 40 | 11 | ug/l | SW846 8260D |
| FA84768-24 | 18686 MW-2A | | | | | |
| Benzene [a] | | 3300 | 200 | 62 | ug/l | SW846 8260D |
| Toluene [a] | | 8950 | 200 | 60 | ug/l | SW846 8260D |
| Ethylbenzene [a] | | 526 | 200 | 71 | ug/l | SW846 8260D |
| Xylene (total) [a] | | 8970 | 600 | 140 | ug/l | SW846 8260D |
| Naphthalene [a] | | 253 J | 1000 | 200 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol [a] | | 4010 | 4000 | 1100 | ug/l | SW846 8260D |
| FA84768-25 | 18686 MW-4A | | | | | |
| Benzene [a] | | 5590 | 250 | 78 | ug/l | SW846 8260D |

# Summary of Hits

Job Number: FA84768
Account: GRI (Geological Resources Inc.)
Project: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Collected: 04/13/21

| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| Toluene [a] | | 17300 | 250 | 75 | ug/l | SW846 8260D |
| Ethylbenzene [a] | | 584 | 250 | 89 | ug/l | SW846 8260D |
| Xylene (total) [a] | | 10100 | 750 | 180 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol [a] | | 2510 J | 5000 | 1300 | ug/l | SW846 8260D |
| FA84768-26 | 18686 TW-1 | | | | | |
| No hits reported in this sample. | | | | | | |
| FA84768-27 | 18686 TW-2 | | | | | |
| Methyl Tert Butyl Ether [a] | | 1.6 | 1.0 | 0.23 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol [a] | | 52.1 | 20 | 5.3 | ug/l | SW846 8260D |
| FA84768-28 | 18686 DUP-A | | | | | |
| Benzene [a] | | 1240 | 50 | 16 | ug/l | SW846 8260D |
| Toluene [a] | | 2000 | 50 | 15 | ug/l | SW846 8260D |
| Ethylbenzene [a] | | 53.4 | 50 | 18 | ug/l | SW846 8260D |
| Xylene (total) [a] | | 2590 | 150 | 36 | ug/l | SW846 8260D |
| Methyl Tert Butyl Ether [a] | | 56.2 | 50 | 11 | ug/l | SW846 8260D |
| Naphthalene [a] | | 120 J | 250 | 50 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol [a] | | 5330 | 1000 | 260 | ug/l | SW846 8260D |
| FA84768-29 | 18686 DUP-B | | | | | |
| Benzene [a] | | 5250 | 200 | 62 | ug/l | SW846 8260D |
| Toluene [a] | | 15900 | 200 | 60 | ug/l | SW846 8260D |
| Ethylbenzene [a] | | 544 | 200 | 71 | ug/l | SW846 8260D |
| Xylene (total) [a] | | 9680 | 600 | 140 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol [a] | | 2670 J | 4000 | 1100 | ug/l | SW846 8260D |
| FA84768-30 | 18686 FB | | | | | |
| No hits reported in this sample. | | | | | | |
| FA84768-31 | 18686 TB | | | | | |
| No hits reported in this sample. | | | | | | |

(a) Sample analyzed beyond hold time; reported results are considered minimum values.

## Sample Results

### Report of Analysis

# Report of Analysis



| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-1 | | |
| Lab Sample ID: | FA84768-1 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5E27718.D | 50 | 04/27/21 10:35 | SO | n/a | n/a | V5E1274 |
| 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 | 1230 | 50 | 16 | ug/l | |
| 108-88-3 | Toluene | 2040 | 50 | 15 | ug/l | |
| 100-41-4 | Ethylbenzene | 53.4 | 50 | 18 | ug/l | |
| 1330-20-7 | Xylene (total) | 2640 | 150 | 36 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 53.1 | 50 | 11 | ug/l | |
| 91-20-3 | Naphthalene | 117 | 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 | 2500 | 500 | ug/l | |
| 64-17-5 | Ethyl Alcohol | ND | 10000 | 4100 | ug/l | |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | 100 | 12 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | 4710 | 1000 | 260 | ug/l | |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | 100 | 12 | ug/l | |
| 75-65-0 | Tert-Butyl Alcohol | ND | 1000 | 270 | ug/l | |
| 762-75-4 | Tert-Butyl Formate [a] | ND | 1000 | 250 | 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 | 113% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 96% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 83-118% |

(a) Associated BS recovery outside control limits high; 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

SGS North America Inc.

# Report of Analysis



| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-2 | | |
| Lab Sample ID: | FA84768-2 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5E27719.D | 25 | 04/27/21 10:58 | SO | n/a | n/a | V5E1274 |
| 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 | 1990 | 25 | 7.8 | ug/l | |
| 108-88-3 | Toluene | 434 | 25 | 7.5 | ug/l | |
| 100-41-4 | Ethylbenzene | 329 | 25 | 8.9 | ug/l | |
| 1330-20-7 | Xylene (total) | 1380 | 75 | 18 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 8.5 | 25 | 5.7 | ug/l | J |
| 91-20-3 | Naphthalene | 139 | 130 | 25 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 25 | 7.8 | ug/l | |
| 108-20-3 | Di-Isopropyl Ether | ND | 25 | 6.0 | ug/l | |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | ND | 1300 | 250 | ug/l | |
| 64-17-5 | Ethyl Alcohol | ND | 5000 | 2000 | ug/l | |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | 50 | 5.9 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | 5880 | 500 | 130 | ug/l | |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | 50 | 6.1 | ug/l | |
| 75-65-0 | Tert-Butyl Alcohol | ND | 500 | 130 | ug/l | |
| 762-75-4 | Tert-Butyl Formate [a] | ND | 500 | 130 | 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 | 112% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 96% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 83-118% |

(a) Associated BS recovery outside control limits high; 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-3 | | |
| Lab Sample ID: | FA84768-3 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5E27720.D | 1 | 04/27/21 11:21 | SO | n/a | n/a | V5E1274 |
| 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 | 104% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 113% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 94% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 83-118% |

(a) Associated BS recovery outside control limits high; 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

SGS North America Inc.

# Report of Analysis



| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-5R | | |
| Lab Sample ID: | FA84768-4 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop: 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5E27721.D | 1 | 04/27/21 11:44 | SO | n/a | n/a | V5E1274 |
| 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 | 104% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 114% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 96% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 83-118% |

(a) Associated BS recovery outside control limits high; 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-8 | | |
| Lab Sample ID: | FA84768-5 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5E27722.D | 1 | 04/27/21 12:07 | SO | n/a | n/a | V5E1274 |
| 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 | 106% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 114% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 94% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 83-118% |

(a) Associated BS recovery outside control limits high; 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

SGS North America Inc.

# Report of Analysis



| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-9 | | |
| Lab Sample ID: | FA84768-6 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5E27723.D | 1 | 04/27/21 12:31 | SO | n/a | n/a | V5E1274 |
| 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 | 103% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 113% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 96% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 83-118% |

(a) Associated BS recovery outside control limits high; 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-11R | | |
| Lab Sample ID: | FA84768-7 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5E27724.D | 1 | 04/27/21 12:54 | SO | n/a | n/a | V5E1274 |
| 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 | 103% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 114% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 96% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 83-118% |

(a) Associated BS recovery outside control limits high; 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

SGS North America Inc.

# Report of Analysis



| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-12R | | |
| Lab Sample ID: | FA84768-8 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5E27725.D | 1 | 04/27/21 13:17 | SO | n/a | n/a | V5E1274 |
| 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 | 105% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 115% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 94% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 83-118% |

(a) Associated BS recovery outside control limits high; 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

SGS North America Inc.

# Report of Analysis



| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-13 | | |
| Lab Sample ID: | FA84768-9 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5E27726.D | 1 | 04/27/21 13:40 | SO | n/a | n/a | V5E1274 |
| 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 | 2.4 | 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 | ND | 20 | 5.3 | ug/l | |
| 994-05-8 | Tert-Amyl Methyl Ether | 0.76 | 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 | 105% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 115% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 95% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 83-118% |

(a) Associated BS recovery outside control limits high; 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-14 | | |
| Lab Sample ID: | FA84768-10 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop: 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5E27727.D | 1 | 04/27/21 14:03 | SO | n/a | n/a | V5E1274 |
| 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 | 106% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 117% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 92% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 83-118% |

(a) Associated BS recovery outside control limits high; 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-15 | | |
| Lab Sample ID: | FA84768-11 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5E27728.D | 1 | 04/27/21 14:26 | SO | n/a | n/a | V5E1274 |
| 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 | 106% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 117% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 96% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 83-118% |

(a) Associated BS recovery outside control limits high; 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

SGS North America Inc.

# Report of Analysis



| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-16R | | |
| Lab Sample ID: | FA84768-12 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5E27729.D | 20 | 04/27/21 14:50 | SO | n/a | n/a | V5E1274 |
| 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 | 162 | 20 | 6.2 | ug/l | |
| 108-88-3 | Toluene | 1190 | 20 | 6.0 | ug/l | |
| 100-41-4 | Ethylbenzene | 488 | 20 | 7.1 | ug/l | |
| 1330-20-7 | Xylene (total) | 3370 | 60 | 14 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 20 | 4.6 | ug/l | |
| 91-20-3 | Naphthalene | 85.1 | 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 | ND | 4000 | 1600 | ug/l | |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | 40 | 4.7 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | 376 | 400 | 110 | ug/l | J |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | 40 | 4.9 | ug/l | |
| 75-65-0 | Tert-Butyl Alcohol | ND | 400 | 110 | ug/l | |
| 762-75-4 | Tert-Butyl Formate [a] | ND | 400 | 100 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 107% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 118% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 96% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 83-118% |

(a) Associated BS recovery outside control limits high; 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-17R | | |
| Lab Sample ID: | FA84768-13 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5E27730.D | 1 | 04/27/21 15:13 | SO | n/a | n/a | V5E1274 |
| 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 | 3.2 | 1.0 | 0.31 | ug/l | |
| 108-88-3 | Toluene | 3.7 | 1.0 | 0.30 | ug/l | |
| 100-41-4 | Ethylbenzene | 5.6 | 1.0 | 0.36 | ug/l | |
| 1330-20-7 | Xylene (total) | 75.6 | 3.0 | 0.72 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 2.1 | 1.0 | 0.23 | ug/l | |
| 91-20-3 | Naphthalene | 2.2 | 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 | 13.2 | 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 | 106% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 94% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 83-118% |

(a) Associated BS recovery outside control limits high; 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-18R | | |
| Lab Sample ID: | FA84768-14 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop: 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5E27731.D | 1 | 04/27/21 15:36 | SO | n/a | n/a | V5E1274 |
| 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 | 105% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 115% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 95% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 83-118% |

(a) Associated BS recovery outside control limits high; 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-21 | | |
| Lab Sample ID: | FA84768-15 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5E27732.D | 1 | 04/27/21 15:59 | SO | n/a | n/a | V5E1274 |
| 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 | 106% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 95% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 83-118% |

(a) Associated BS recovery outside control limits high; 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: | FA84768-16 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5E27733.D | 1 | 04/27/21 16:22 | SO | n/a | n/a | V5E1274 |
| 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 | 107% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 118% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 92% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 83-118% |

(a) Associated BS recovery outside control limits high; 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

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| Client Sample ID: | 18686 MW-24 | | |
| Lab Sample ID: | FA84768-17 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5E27734.D | 1 | 04/27/21 16:45 | SO | n/a | n/a | V5E1274 |
| 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 | 106% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 119% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 96% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 83-118% |

(a) Associated BS recovery outside control limits high; 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-25 | | |
| Lab Sample ID: | FA84768-18 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5E27735.D | 1 | 04/27/21 17:09 | SO | n/a | n/a | V5E1274 |
| 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 | 107% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 119% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 94% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 83-118% |

(a) Associated BS recovery outside control limits high; 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-26 | | |
| Lab Sample ID: | FA84768-19 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5E27736.D | 1 | 04/27/21 17:31 | SO | n/a | n/a | V5E1274 |
| 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 | 107% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 119% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 95% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 83-118% |

(a) Associated BS recovery outside control limits high; 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-27 | | |
| Lab Sample ID: | FA84768-20 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5E27737.D | 1 | 04/27/21 17:54 | SO | n/a | n/a | V5E1274 |
| 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 | 107% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 119% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 95% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 83-118% |

(a) Associated BS recovery outside control limits high; 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-28 | | |
| Lab Sample ID: | FA84768-21 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| 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] | 5E27753.D | 1 | 04/28/21 00:05 | SO | n/a | n/a | V5E1275 |
| 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 [b] | ND | 20 | 5.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 107% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 121% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 95% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 83-118% |

(a) Sample analyzed beyond hold time; reported results are considered minimum values.
(b) Associated BS recovery outside control limits high; 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-31 | | |
| Lab Sample ID: | FA84768-22 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| 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] | 5E27754.D | 1 | 04/28/21 00:28 | SO | n/a | n/a | V5E1275 |
| 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 [b] | ND | 20 | 5.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 108% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 123% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 96% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 83-118% |

(a) Sample analyzed beyond hold time; reported results are considered minimum values.
(b) Associated BS recovery outside control limits high; 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-1A | | |
| Lab Sample ID: | FA84768-23 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| 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] | 5E27755.D | 2 | 04/28/21 00:52 | SO | n/a | n/a | V5E1275 |
| 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 | 132 | 2.0 | 0.62 | ug/l | |
| 108-88-3 | Toluene | 116 | 2.0 | 0.60 | ug/l | |
| 100-41-4 | Ethylbenzene | 3.5 | 2.0 | 0.71 | ug/l | |
| 1330-20-7 | Xylene (total) | 344 | 6.0 | 1.4 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 2.0 | 0.46 | ug/l | |
| 91-20-3 | Naphthalene | 6.4 | 10 | 2.0 | ug/l | J |
| 107-06-2 | 1,2-Dichloroethane | ND | 2.0 | 0.62 | ug/l | |
| 108-20-3 | Di-Isopropyl Ether | ND | 2.0 | 0.48 | ug/l | |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | ND | 100 | 20 | ug/l | |
| 64-17-5 | Ethyl Alcohol | ND | 400 | 160 | ug/l | |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | 4.0 | 0.47 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | 1100 | 40 | 11 | ug/l | |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | 4.0 | 0.49 | ug/l | |
| 75-65-0 | Tert-Butyl Alcohol | ND | 40 | 11 | ug/l | |
| 762-75-4 | Tert-Butyl Formate [b] | ND | 40 | 10 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 107% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 121% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 94% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | | 83-118% |

(a) Sample analyzed beyond hold time; reported results are considered minimum values.
(b) Associated BS recovery outside control limits high; 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-2A | | |
| Lab Sample ID: | FA84768-24 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| 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] | 5E27756.D | 200 | 04/28/21 01:15 | SO | n/a | n/a | V5E1275 |
| 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 | 3300 | 200 | 62 | ug/l | |
| 108-88-3 | Toluene | 8950 | 200 | 60 | ug/l | |
| 100-41-4 | Ethylbenzene | 526 | 200 | 71 | ug/l | |
| 1330-20-7 | Xylene (total) | 8970 | 600 | 140 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 200 | 46 | ug/l | |
| 91-20-3 | Naphthalene | 253 | 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 | 4010 | 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 | 106% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 122% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 95% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 83-118% |

(a) Sample analyzed beyond hold time; reported results are considered minimum values.
(b) Associated BS recovery outside control limits high; 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-4A | | |
| Lab Sample ID: | FA84768-25 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| 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] | 5E27757.D | 250 | 04/28/21 01:38 | SO | n/a | n/a | V5E1275 |
| 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 | 5590 | 250 | 78 | ug/l | |
| 108-88-3 | Toluene | 17300 | 250 | 75 | ug/l | |
| 100-41-4 | Ethylbenzene | 584 | 250 | 89 | ug/l | |
| 1330-20-7 | Xylene (total) | 10100 | 750 | 180 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 250 | 57 | ug/l | |
| 91-20-3 | Naphthalene | ND | 1300 | 250 | ug/l | |
| 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 | 2510 | 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 [b] | ND | 5000 | 1300 | 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 | 117% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 95% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 83-118% |

(a) Sample analyzed beyond hold time; reported results are considered minimum values.
(b) Associated BS recovery outside control limits high; 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 TW-1 | | |
| Lab Sample ID: | FA84768-26 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| 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] | 5E27758.D | 1 | 04/28/21 02:01 | SO | n/a | n/a | V5E1275 |
| 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 [b] | ND | 20 | 5.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 106% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 119% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 90% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 83-118% |

(a) Sample analyzed beyond hold time; reported results are considered minimum values.
(b) Associated BS recovery outside control limits high; 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 TW-2 | | |
| Lab Sample ID: | FA84768-27 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| 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] | 5E27759.D | 1 | 04/28/21 02:24 | SO | n/a | n/a | V5E1275 |
| 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 | 1.6 | 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 | 52.1 | 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 [b] | ND | 20 | 5.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 106% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 118% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 94% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 83-118% |

(a) Sample analyzed beyond hold time; reported results are considered minimum values.
(b) Associated BS recovery outside control limits high; 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 DUP-A | | |
| Lab Sample ID: | FA84768-28 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| 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] | 5E27760.D | 50 | 04/28/21 02:48 | SO | n/a | n/a | V5E1275 |
| 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 | 1240 | 50 | 16 | ug/l | |
| 108-88-3 | Toluene | 2000 | 50 | 15 | ug/l | |
| 100-41-4 | Ethylbenzene | 53.4 | 50 | 18 | ug/l | |
| 1330-20-7 | Xylene (total) | 2590 | 150 | 36 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 56.2 | 50 | 11 | ug/l | |
| 91-20-3 | Naphthalene | 120 | 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 | 2500 | 500 | ug/l | |
| 64-17-5 | Ethyl Alcohol | ND | 10000 | 4100 | ug/l | |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | 100 | 12 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | 5330 | 1000 | 260 | ug/l | |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | 100 | 12 | ug/l | |
| 75-65-0 | Tert-Butyl Alcohol | ND | 1000 | 270 | ug/l | |
| 762-75-4 | Tert-Butyl Formate [b] | ND | 1000 | 250 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 106% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 118% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 96% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 83-118% |

(a) Sample analyzed beyond hold time; reported results are considered minimum values.
(b) Associated BS recovery outside control limits high; 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 DUP-B | | |
| Lab Sample ID: | FA84768-29 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Ground Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| 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] | 5E27761.D | 200 | 04/28/21 03:11 | SO | n/a | n/a | V5E1275 |
| 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 | 5250 | 200 | 62 | ug/l | |
| 108-88-3 | Toluene | 15900 | 200 | 60 | ug/l | |
| 100-41-4 | Ethylbenzene | 544 | 200 | 71 | ug/l | |
| 1330-20-7 | Xylene (total) | 9680 | 600 | 140 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 200 | 46 | ug/l | |
| 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 | 2670 | 4000 | 1100 | ug/l | J |
| 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 | 106% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 118% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 96% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 83-118% |

(a) Sample analyzed beyond hold time; reported results are considered minimum values.
(b) Associated BS recovery outside control limits high; 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 FB | | |
| Lab Sample ID: | FA84768-30 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Field Blank Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5E27748.D | 1 | 04/27/21 22:09 | SO | n/a | n/a | V5E1275 |
| 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 | 106% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 94% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 83-118% |

(a) Associated BS recovery outside control limits high; 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 TB | | |
| Lab Sample ID: | FA84768-31 | Date Sampled: | 04/13/21 |
| Matrix: | AQ - Trip Blank Water | Date Received: | 04/14/21 |
| Method: | SW846 8260D | Percent Solids: | n/a |
| Project: | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5E27747.D | 1 | 04/27/21 21:46 | SO | n/a | n/a | V5E1275 |
| 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 | 106% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 95% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 83-118% |

(a) Associated BS recovery outside control limits high; 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

## Subcontract Lab Data

### Report of Analysis

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# Report of Analysis

**SGS North America Inc. - Orlando**
4405 Vineland Rd
Suite C-15
Orlando, FL 32811
Attention: Muna Mohammed

Project Name: FA84768X

Lot Number:**WD17012**

Date Completed:04/27/2021

04/28/2021 12:47 PM
Approved and released by:
Project Manager II: **Lucas Odom**

The electronic signature above is the equivalent of a handwritten signature.
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Pace Analytical Services, LLC (*formerly Shealy Environmental Services, Inc.*)
106 Vantage Point Drive West Columbia, SC 29172
Tel: 803-791-9700 Fax: 803-791-9111 www.pacelabs.com

## Case Narrative
## SGS North America Inc. - Orlando
**Lot Number: WD17012**

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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 The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

EDB by Microextraction

Samples -024, -025, and -029 have been qualified with a "P" as the relative percent difference between the two GC columns exceeds method criteria. Per SCDHEC, the lesser of the two values has been reported.

## Sample Summary
## SGS North America Inc. - Orlando
### Lot Number: WD17012

| Sample Number | Sample ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| 001 | 18686 MW-1 | Aqueous | 04/13/2021 1210 | 04/17/2021 |
| 002 | 18686 MW-2 | Aqueous | 04/13/2021 1219 | 04/17/2021 |
| 003 | 18686 MW-3 | Aqueous | 04/13/2021 1228 | 04/17/2021 |
| 004 | 18686 MW-5R | Aqueous | 04/13/2021 1237 | 04/17/2021 |
| 005 | 18686 MW-8 | Aqueous | 04/13/2021 1006 | 04/17/2021 |
| 006 | 18686 MW-9 | Aqueous | 04/13/2021 1018 | 04/17/2021 |
| 007 | 18686 MW-11R | Aqueous | 04/13/2021 0946 | 04/17/2021 |
| 008 | 18686 MW-12R | Aqueous | 04/13/2021 0955 | 04/17/2021 |
| 009 | 18686 MW-13 | Aqueous | 04/13/2021 1027 | 04/17/2021 |
| 010 | 18686 MW-14 | Aqueous | 04/13/2021 1256 | 04/17/2021 |
| 011 | 18686 MW-15 | Aqueous | 04/13/2021 1246 | 04/17/2021 |
| 012 | 18686 MW-16R | Aqueous | 04/13/2021 1153 | 04/17/2021 |
| 013 | 18686 MW-17R | Aqueous | 04/13/2021 1202 | 04/17/2021 |
| 014 | 18686 MW-18R | Aqueous | 04/13/2021 1144 | 04/17/2021 |
| 015 | 18686 MW-21 | Aqueous | 04/13/2021 1451 | 04/17/2021 |
| 016 | 18686 MW-23 | Aqueous | 04/13/2021 1502 | 04/17/2021 |
| 017 | 18686 MW-24 | Aqueous | 04/13/2021 1513 | 04/17/2021 |
| 018 | 18686 MW-25 | Aqueous | 04/13/2021 1546 | 04/17/2021 |
| 019 | 18686 MW-26 | Aqueous | 04/13/2021 1558 | 04/17/2021 |
| 020 | 18686 MW-27 | Aqueous | 04/13/2021 1535 | 04/17/2021 |
| 021 | 18686 MW-28 | Aqueous | 04/13/2021 1524 | 04/17/2021 |
| 022 | 18686 MW-31 | Aqueous | 04/13/2021 1340 | 04/17/2021 |
| 023 | 18686 MW-1A | Aqueous | 04/13/2021 1041 | 04/17/2021 |
| 024 | 18686 MW-2A | Aqueous | 04/13/2021 1055 | 04/17/2021 |
| 025 | 18686 MW-4A | Aqueous | 04/13/2021 1109 | 04/17/2021 |
| 026 | 18686 TW-1 | Aqueous | 04/13/2021 1134 | 04/17/2021 |
| 027 | 18686 TW-2 | Aqueous | 04/13/2021 1429 | 04/17/2021 |
| 028 | 18686 DUP-A | Aqueous | 04/13/2021 1200 | 04/17/2021 |
| 029 | 18686 DUP-B | Aqueous | 04/13/2021 1201 | 04/17/2021 |
| 030 | 18686 FB | Aqueous | 04/13/2021 1300 | 04/17/2021 |

(30 samples)

## Detection Summary
## SGS North America Inc. - Orlando
### Lot Number: WD17012

| Sample | Sample ID | Matrix | Parameter | Method | Result | Q | Units | Page |
|---|---|---|---|---|---|---|---|---|
| 024 | 18686 MW-2A | Aqueous | 1,2-Dibromoethane (EDB) | 8011 | 0.0094 | JP | ug/L | 28 |
| 025 | 18686 MW-4A | Aqueous | 1,2-Dibromoethane (EDB) | 8011 | 0.0086 | JP | ug/L | 29 |
| 029 | 18686 DUP-B | Aqueous | 1,2-Dibromoethane (EDB) | 8011 | 0.013 | JP | ug/L | 33 |

(3 detections)

4

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando** Laboratory ID: **WD17012-001**

Description: **18686 MW-1** Matrix: **Aqueous**

Date Sampled: **04/13/2021 1210**

Date Received: **04/17/2021**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/24/2021 0838 | JPB | 04/20/2021 1519 | 89632 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0050 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 119 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 MW-2**
Date Sampled: **04/13/2021 1219**
Date Received: **04/17/2021**

Laboratory ID: **WD17012-002**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/24/2021 0849 | JPB | 04/20/2021 1519 | 89632 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0050 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 118 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 MW-3**
Date Sampled: **04/13/2021 1228**
Date Received: **04/17/2021**

Laboratory ID: **WD17012-003**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/24/2021 0859 | JPB | 04/20/2021 1519 | 89632 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0050 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 118 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 MW-5R**
Date Sampled: **04/13/2021 1237**
Date Received: **04/17/2021**

Laboratory ID: **WD17012-004**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/24/2021 0910 | JPB | 04/20/2021 1519 | 89632 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0049 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 118 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando** Laboratory ID: **WD17012-005**
Description: **18686 MW-8** Matrix: **Aqueous**
Date Sampled: **04/13/2021 1006**
Date Received: **04/17/2021**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/24/2021 0921 | JPB | 04/20/2021 1519 | 89632 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0050 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 115 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 MW-9**
Date Sampled: **04/13/2021 1018**
Date Received: **04/17/2021**

Laboratory ID: **WD17012-006**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/24/2021 0931 | JPB | 04/20/2021 1519 | 89632 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0050 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 112 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 MW-11R**
Date Sampled: **04/13/2021 0946**
Date Received: **04/17/2021**

Laboratory ID: **WD17012-007**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/24/2021 0942 | JPB | 04/20/2021 1519 | 89632 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0049 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 120 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 MW-12R**
Date Sampled: **04/13/2021 0955**
Date Received: **04/17/2021**

Laboratory ID: **WD17012-008**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/24/2021 0953 | JPB | 04/20/2021 1519 | 89632 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0050 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 114 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Laboratory ID: **WD17012-009**
Description: **18686 MW-13**
Matrix: **Aqueous**
Date Sampled: **04/13/2021 1027**
Date Received: **04/17/2021**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/24/2021 1004 | JPB | 04/20/2021 1519 | 89632 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0049 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 115 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 MW-14**
Date Sampled: **04/13/2021 1256**
Date Received: **04/17/2021**

Laboratory ID: **WD17012-010**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/24/2021 1014 | JPB | 04/20/2021 1519 | 89632 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0049 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 114 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Laboratory ID: **WD17012-011**
Description: **18686 MW-15**
Matrix: **Aqueous**
Date Sampled: **04/13/2021 1246**
Date Received: **04/17/2021**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/24/2021 1025 | JPB | 04/20/2021 1519 | 89632 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0049 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 122 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 MW-16R**
Date Sampled: **04/13/2021 1153**
Date Received: **04/17/2021**

Laboratory ID: **WD17012-012**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/24/2021 1036 | JPB | 04/20/2021 1519 | 89632 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0050 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 122 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 MW-17R**
Date Sampled: **04/13/2021 1202**
Date Received: **04/17/2021**

Laboratory ID: **WD17012-013**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/24/2021 1047 | JPB | 04/20/2021 1519 | 89632 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0051 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 114 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 MW-18R**
Date Sampled: **04/13/2021 1144**
Date Received: **04/17/2021**

Laboratory ID: **WD17012-014**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/24/2021 1057 | JPB | 04/20/2021 1519 | 89632 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0050 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 115 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 MW-21**
Date Sampled: **04/13/2021 1451**
Date Received: **04/17/2021**

Laboratory ID: **WD17012-015**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/24/2021 1108 | JPB | 04/20/2021 1519 | 89632 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0049 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 114 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 MW-23**
Date Sampled: **04/13/2021 1502**
Date Received: **04/17/2021**

Laboratory ID: **WD17012-016**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/24/2021 1119 | JPB | 04/20/2021 1519 | 89632 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0050 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 112 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Laboratory ID: **WD17012-017**
Description: **18686 MW-24**
Matrix: **Aqueous**
Date Sampled: **04/13/2021 1513**
Date Received: **04/17/2021**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/27/2021 0819 | JPB | 04/21/2021 0920 | 89706 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0051 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 106 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 MW-25**
Date Sampled: **04/13/2021 1546**
Date Received: **04/17/2021**

Laboratory ID: **WD17012-018**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/27/2021 0840 | JPB | 04/21/2021 0920 | 89706 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0049 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 108 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando** Laboratory ID: **WD17012-019**

Description: **18686 MW-26** Matrix: **Aqueous**

Date Sampled: **04/13/2021 1558**

Date Received: **04/17/2021**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/27/2021 0902 | JPB | 04/21/2021 0920 | 89706 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0049 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 108 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 MW-27**
Date Sampled: **04/13/2021 1535**
Date Received: **04/17/2021**

Laboratory ID: **WD17012-020**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/27/2021 0912 | JPB | 04/21/2021 0920 | 89706 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0049 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 112 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 MW-28**
Date Sampled: **04/13/2021 1524**
Date Received: **04/17/2021**
Laboratory ID: **WD17012-021**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/27/2021 0923 | JPB | 04/21/2021 0920 | 89706 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0049 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 110 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 MW-31**
Date Sampled: **04/13/2021 1340**
Date Received: **04/17/2021**

Laboratory ID: **WD17012-022**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/27/2021 0934 | JPB | 04/21/2021 0920 | 89706 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0049 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 106 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Laboratory ID: **WD17012-023**
Description: **18686 MW-1A**
Matrix: **Aqueous**
Date Sampled: **04/13/2021 1041**
Date Received: **04/17/2021**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/27/2021 0944 | JPB | 04/21/2021 0920 | 89706 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0050 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 112 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 MW-2A**
Date Sampled: **04/13/2021 1055**
Date Received: **04/17/2021**

Laboratory ID: **WD17012-024**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/27/2021 0955 | JPB | 04/21/2021 0920 | 89706 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| **1,2-Dibromoethane (EDB)** | **106-93-4** | **8011** | **0.0094** | **JP** | **0.020** | **0.0050** | **ug/L** | **1** |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 108 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando** Laboratory ID: **WD17012-025**

Description: **18686 MW-4A** Matrix: **Aqueous**

Date Sampled: **04/13/2021 1109**

Date Received: **04/17/2021**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/27/2021 1006 | JPB | 04/21/2021 0920 | 89706 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | 0.0086 | JP | 0.020 | 0.0049 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 111 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 TW-1**
Date Sampled: **04/13/2021 1134**
Date Received: **04/17/2021**

Laboratory ID: **WD17012-026**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/27/2021 1017 | JPB | 04/21/2021 0920 | 89706 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0050 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 108 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 TW-2**
Date Sampled: **04/13/2021 1429**
Date Received: **04/17/2021**

Laboratory ID: **WD17012-027**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/27/2021 1028 | JPB | 04/21/2021 0920 | 89706 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0050 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 108 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 DUP-A**
Date Sampled: **04/13/2021 1200**
Date Received: **04/17/2021**

Laboratory ID: **WD17012-028**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/27/2021 1039 | JPB | 04/21/2021 0920 | 89706 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0050 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 111 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando** Laboratory ID: **WD17012-029**

Description: **18686 DUP-B** Matrix: **Aqueous**

Date Sampled: **04/13/2021 1201**

Date Received: **04/17/2021**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/27/2021 1050 | JPB | 04/21/2021 0920 | 89706 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| **1,2-Dibromoethane (EDB)** | **106-93-4** | **8011** | **0.013** | **JP** | **0.020** | **0.0050** | **ug/L** | **1** |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 112 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 FB**
Date Sampled: **04/13/2021 1300**
Date Received: **04/17/2021**

Laboratory ID: **WD17012-030**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 8011 | 8011 | 1 | 04/27/2021 1102 | JPB | 04/21/2021 0920 | 89706 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8011 | ND | | 0.020 | 0.0050 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 109 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

4

# Chain of Custody
# and
# Miscellaneous Documents

Page 1 of 3

# CHAIN OF CUSTODY

SGS North America Inc. - Orlando
4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com/ehsusa

SGS

Project Information

Client / Reporting Information

Company Name: SGS North America Inc.
Street Address: 4405 Vineland Rd, Suite C-15
City: Orlando State: FL Zip: 32811
Project Contact: muna.mohammed@sgs.com Email:
Phone #: 407-425-6700 Fax #:
Sample(s) Name(s): DJKP

Project Name: Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
Street:
City: State:
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)

WD17012

LJO

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

| Sample # | Field ID / Point of Collection | Medium/Matrix | Date | Time | Sampled By | Matrix | # of Samples | HCl | NaOH | HNO3 | HNO3 | NONE | DI/WW | MEOH | ENCORE | VR011EDB | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1X | 18686 MW-1 | | 4/13/21 | 12:10:00 PM | DJKP | AQ | 2 | X | | | | | | | | X | |
| 2X | 18686 MW-2 | | 4/13/21 | 12:19:00 PM | DJKP | AQ | 2 | X | | | | | | | | X | |
| 3X | 18686 MW-3 | | 4/13/21 | 12:28:00 PM | DJKP | AQ | 2 | X | | | | | | | | X | |
| 4X | 18686 MW-5R | | 4/13/21 | 12:37:00 PM | DJKP | AQ | 2 | X | | | | | | | | X | |
| 5X | 18686 MW-8 | | 4/13/21 | 10:06:00 AM | DJKP | AQ | 2 | X | | | | | | | | X | |
| 6X | 18686 MW-9 | | 4/13/21 | 10:18:00 AM | DJKP | AQ | 2 | X | | | | | | | | X | |
| 7X | 18686 MW-11R | | 4/13/21 | 9:46:00 AM | DJKP | AQ | 2 | X | | | | | | | | X | |
| 8X | 18686 MW-12R | | 4/13/21 | 9:55:00 AM | DJKP | AQ | 2 | X | | | | | | | | X | |
| 9X | 18686 MW-13 | | 4/13/21 | 10:27:00 AM | DJKP | AQ | 2 | X | | | | | | | | X | |
| 10X | 18686 MW-14 | | 4/13/21 | 12:58:00 PM | DJKP | AQ | 2 | X | | | | | | | | X | |
| 11X | 18686 MW-15 | | 4/13/21 | 12:46:00 PM | DJKP | AQ | 2 | X | | | | | | | | X | |
| 12X | 18686 MW-16R | | 4/13/21 | 11:55:00 AM | DJKP | AQ | 2 | X | | | | | | | | X | |

Comments / Special Instructions

Send to Shealy- Saturday Delivery

Turnaround Time (Business days)
- [ ] Standard 10 Day (business)
- [ ] 5 Business Days RUSH
- [ ] 3 Business Days RUSH
- [ ] 2 Business Days RUSH
- [ ] 1 Business Day EMERGENCY
- [x] other Due 4/21/2021

Approval By (SGS PM) / Date:

Date Deliverable Information
- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] REDT1 (Level 3)
- [ ] FULT1 (Level 4)
- [ ] Commercial "C"
- [ ] State Forms
- [ ] EDD Format
- [ ] Other
- [ ] [x] CL

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Emergency & Rush T/A data available via Lablink. Approval needed for RUSH/Emergency TAT

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

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

| Relinquished by Sampler | Date Time | Received By | Relinquished By | Date Time | Received By |
|---|---|---|---|---|---|
| 1 [signature] | 4/16/21 1700 | 2 | 2 | | 2 |
| 3 | | 3 | 4 | | 4 |
| 5 Fedex | 4/17/21 0930 | 6 [signature] | | | |

Custody Seal # [x] Intact [ ] Not Intact
Presented where applicable [ ] Temp. Tj.
Order [x] Cooler Temp 5.3°C

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

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SGS

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FA84768

4

SGS

# CHAIN OF CUSTODY

SGS North America Inc. - Orlando
4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com/ehsusa



FULLEX Tracking #
SGS Quote #
Bottle Order Control #
EDS Job # FA84768X

**Client / Reporting Information**

Company Name: SGS North America Inc.
Street Address: 4405 Vineland Rd, Suite C-15
City: Orlando State: FL Zip: 32811
Project Contact: E-mail: mona.mohammed@sgs.com
Phone #: 407-425-6700 Fax #:
Sampler(s) Name(s): DJKP Phone:

**Project Information**

Project Name: Tisdale's Quick Stop; 1999 Thurgood Marshall Blvd, Kingston, SC
Street:
City: State:
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)**

WD17012

LJO

**Matrix Codes**

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OI - Oil
UO - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank

| Lab Sample # | Field ID / Point of Collection | MECH/Oil Vial # | Collection Date | Collection Time | Sampled by | Matrix | # of bottles | HCl | NaOH | HNO3 | H2SO4 | NONE | Oil Wash | MEOH | ENCORE | VS011EDS | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13X | 18686 MW-17R | | 4/13/21 | 12:02:00 PM | DJKP | AQ | 2 | X | | | | | | | | X | |
| 14X | 18686 MW-18R | | 4/13/21 | 11:44:00 AM | DJKP | AQ | 2 | X | | | | | | | | X | |
| 15X | 18686 MW-21 | | 4/13/21 | 2:51:00 PM | DJKP | AQ | 2 | X | | | | | | | | X | |
| 16X | 18686 MW-23 | | 4/13/21 | 3:02:00 PM | DJKP | AQ | 2 | X | | | | | | | | X | |
| 17X | 18686 MW-24 | | 4/13/21 | 3:13:00 PM | DJKP | AQ | 2 | X | | | | | | | | X | |
| 18X | 18686 MW-25 | | 4/13/21 | 3:46:00 PM | DJKP | AQ | 2 | X | | | | | | | | X | |
| 19X | 18686 MW-26 | | 4/13/21 | 3:58:00 PM | DJKP | AQ | 2 | X | | | | | | | | X | |
| 20X | 18686 MW-27 | | 4/13/21 | 3:35:00 PM | DJKP | AQ | 2 | X | | | | | | | | X | |
| 21X | 18686 MW-28 | | 4/13/21 | 3:24:00 PM | DJKP | AQ | 2 | X | | | | | | | | X | |
| 22X | 18686 MW-31 | | 4/13/21 | 2:40:00 PM | DJKP | AQ | 2 | X | | | | | | | | X | |
| 23X | 18686 MW-1A | | 4/13/21 | 10:41:00 AM | DJKP | AQ | 2 | X | | | | | | | | X | |
| 24X | 18686 MW-2A | | 4/13/21 | 10:55:00 AM | DJKP | AQ | 2 | X | | | | | | | | X | |

Turnaround Time (Business days)

Approved By (SGS PM) / Date:

- [ ] Standard 10 Day (business)
- [ ] 5 Business Days RUSH
- [ ] 3 Business Days RUSH
- [ ] 2 Business Days RUSH
- [ ] 1 Business Day EMERGENCY
- [X] other Due 4/21/2021

Emergency & Rush TA data available via Lablink. Approval needed for RUSH/Emergency TAT

**Data Deliverable Information**

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] RECT1 (Level 3)
- [ ] FULT1 (Level 4)
- [ ] Commercial "C"
- [ ] State Forms
- [ ] EDD Format
- [ ] Other
- [ ] 
- [X] CL

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Send to Shealy- Saturday Delivery

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

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 | | 1 | 2 | | 2 |
| Relinquished by Sampler: | Date Time: | Received By: | Relinquished By: | Date Time: | Received By: |
| 3 | | 3 | 4 | | 4 |
| Relinquished by: 5 fedex | Date Time: 4/17/21 0950 | Received By: 5 M Haney | Custody Seal # | [X] Intact [ ] Not Intact | Preserved where applicable [ ] Thermo [X] Ok Cooler Temp. 5.3°C |

MLE# 4/17/21

CHAIN OF CUSTODY

SGS North America Inc. - Orlando
4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL: 407-425-6700 FAX: 407-425-0707
www.sgs.com/ehsusa

Page 3 of 3

Client / Reporting Information

Company Name: SGS North America Inc.
Street Address: 4405 Vineland Rd, Suite C-15
City: Orlando State: FL Zip: 32811
Project Contact: E-mail: mara.mammone@sga.com
Phone #: 407-425-6700 Fax #:

Project Information

Project Name: Tabby's Quick Stop, 1838 Hungood Marshall Blvd, Kingston, SC
Street:
City: State: Zip:
Company Name: Billing Information (if different from Report to)
Street Address:
City: State: Zip:
Project #
Client Purchase Order #
Project Manager:

Requested Analysis (see TEST CODE sheet)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OL - Oil
LIQ - Other Liquid
AIR - Air
SCL - Other Solid
WP - Wipe
FB - Field Blank
EB - Equip Blank
TB - Trip Blank

LAB USE ONLY

WD17012

LIQ

VB011LDB

| Sample Id | Field ID / Point of Collection | Collected: Date | Time | Sampled By | Matrix | # of bottles | HCl | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25X | 16686 MW-4A | 4/13/21 | 11:05:00 AM | DJKP | AQ | 2 | X | | | | | | | |
| 26X | 16685 TW-1 | 4/13/21 | 11:34:00 AM | DJKP | AQ | 5 | X | | | | | | | |
| 27X | 18588 TW-2 | 4/13/21 | 2:28:00 PM | DJKP | AQ | 2 | X | | | | | | | |
| 28X | 18588 DUP-A | 4/13/21 | 12:00:00 PM | DJKP | AQ | 2 | X | | | | | | | |
| 29X | 19686 DUP-B | 4/13/21 | 12:01:00 PM | DJKP | AQ | 2 | X | | | | | | | |
| 30X | 18586 FB | 4/13/21 | 1:00:00 PM | DJKP | AQ | 2 | X | | | | | | | |

Container Preservation Type

Cooler Temperature on Receipt

Comments / Special Instructions

Turnaround Time (Business days)

Approved by (SGS PM) / Date:

- ☐ Standard 10 Day (business)
- ☐ 5 business Days RUSH
- ☐ 3 Business Days RUSH
- ☐ 2 Business Days RUSH
- ☐ 1 Business Day EMERGENCY
- ☐ other Due 4/21/2021

Emergency & Rush TA data available via Lablink. Approp. must be received for Rush/Emergency TAT

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

| Relinquished by Sampler: | Date Time: | Received By: | 1 |
|---|---|---|---|
| Relinquished By: | Date Time: | Received By: | 2 |
| Relinquished By: | Date Time: | Received By: | 3 |
| Relinquished By: | Date Time: | Received By: | 4 |
| Relinquished by: | Date Time: | Received By: | 5 |
| Relinquished by: | Date Time: | Received for lab by: | 6 |

Custody Seal # ☐ Intact ☐ Not Intact

Preserved where applicable ☐ On Ice ☐ Cooler Temp. 5.3 °C

All bottles ☐ Thermometer ID

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Pace Analytical

Samples Receipt Checklist (SRC) (ME0018C-15)
Issuing Authority: Pace ENV - WCOL

Revised:9/29/2020
Page 1 of 1

# Sample Receipt Checklist (SRC)

Client: SGS  Cooler Inspected by/date: MEH / 4/17/2021  Lot #: WI117012

Means of receipt: ☐ Pace ☐ 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: NA  Chlorine Strip ID: NA  Tested by: NA

Original temperature upon receipt / Derived (Corrected) temperature upon receipt  %Solid Snap-Cup ID: 21-443

5.5 / 5.3 °C  NA / NA °C  NA / NA °C  NA / NA °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/625.1/608.3 (< 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 listed on the container label? If yes, Quote # |

**Sample Preservation** (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA ____ were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: $H_2SO_4$, $HNO_3$, HCl, NaOH using SR # NA.

Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA ____ were received with bubbles >6 mm in diameter.

Samples(s) NA ____ 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: NA

SR barcode labels applied by: MEH  Date: 4/17/2021

Comments:

Pace Analytical®

4

# Report of Analysis

**SGS North America Inc. - Orlando**
4405 Vineland Rd
Suite C-15
Orlando, FL 32811
Attention: Muna Mohammed

Project Name: FA84768X

Lot Number:**WD16020**

Date Completed:04/27/2021

04/28/2021 10:40 AM
Approved and released by:
Project Manager II: **Lucas Odom**

The electronic signature above is the equivalent of a handwritten signature.
This report shall not be reproduced, except in its entirety, without the written approval of Pace Analytical Services, LLC.

Pace Analytical Services, LLC (*formerly Shealy Environmental Services, Inc.*)
106 Vantage Point Drive West Columbia, SC 29172
Tel: 803-791-9700 Fax: 803-791-9111 www.pacelabs.com

## Case Narrative
## SGS North America Inc. - Orlando
**Lot Number: WD16020**

4

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 The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

## Sample Summary
## SGS North America Inc. - Orlando
### Lot Number: WD16020

| Sample Number | Sample ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| 001 | 18686 WSW-1 | Aqueous | 04/13/2021 1609 | 04/16/2021 |
| 002 | 18686 WSW-3 | Aqueous | 04/13/2021 1621 | 04/16/2021 |
| 003 | 18686 DUP-C | Aqueous | 04/13/2021 1202 | 04/16/2021 |
| 004 | 18686 WSW FB | Aqueous | 04/13/2021 1301 | 04/16/2021 |
| 005 | 18686 WSW TB | Aqueous | 04/13/2021 0801 | 04/16/2021 |

(5 samples)

## Detection Summary

## SGS North America Inc. - Orlando

### Lot Number: WD16020

| Sample | Sample ID | Matrix | Parameter | Method | Result | Q | Units | Page |
|---|---|---|---|---|---|---|---|---|
| 004 | 18686 WSW FB | Aqueous | tert-butyl alcohol (TBA) | 8260D | 0.96 | J | ug/L | 15 |
| 005 | 18686 WSW TB | Aqueous | tert-butyl alcohol (TBA) | 8260D | 1.8 | J | ug/L | 18 |

(2 detections)

4

# Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**
Description: **18686 WSW-1**
Date Sampled: **04/13/2021 1609**
Date Received: **04/16/2021**

Laboratory ID: **WD16020-001**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 524.2 | 524.2 | 1 | 04/26/2021 1134 | BWS | | 90239 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Ethylbenzene | 100-41-4 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Naphthalene | 91-20-3 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Toluene | 108-88-3 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Xylenes (total) | 1330-20-7 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| Bromofluorobenzene | | 93 | 70-130 |
| 1,2-Dichlorobenzene-d4 | | 98 | 70-130 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando** Laboratory ID: **WD16020-001**

Description: **18686 WSW-1** Matrix: **Aqueous**

Date Sampled: **04/13/2021 1609**

Date Received: **04/16/2021**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260D | 1 | 04/19/2021 1223 | JDF | | 89529 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| tert-Amyl alcohol (TAA) | 75-85-4 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| tert-Amyl methyl ether (TAME) | 994-05-8 | 8260D | ND | | 10 | 0.42 | ug/L | 1 |
| tert-Butyl formate (TBF) | 762-75-4 | 8260D | ND | | 5.0 | 2.0 | ug/L | 1 |
| Diisopropyl ether (IPE) | 108-20-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| 3,3-Dimethyl-1-butanol | 624-95-3 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| Ethanol | 64-17-5 | 8260D | ND | | 100 | 52 | ug/L | 1 |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| tert-butyl alcohol (TBA) | 75-65-0 | 8260D | ND | | 20 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 104 | 70-130 |
| Toluene-d8 | | 107 | 70-130 |
| Bromofluorobenzene | | 104 | 70-130 |

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
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
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 WSW-1**
Date Sampled: **04/13/2021 1609**
Date Received: **04/16/2021**

Laboratory ID: **WD16020-001**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 504.1 | 504.1 | 1 | 04/21/2021 1941 | JPB | 04/21/2021 0920 | 89701 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 504.1 | ND | | 0.019 | 0.0038 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 100 | 57-137 |

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
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S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando** Laboratory ID: **WD16020-002**
Description: **18686 WSW-3** Matrix: **Aqueous**
Date Sampled: **04/13/2021 1621**
Date Received: **04/16/2021**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 524.2 | 524.2 | 1 | 04/26/2021 1159 | BWS | | 90239 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Ethylbenzene | 100-41-4 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Naphthalene | 91-20-3 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Toluene | 108-88-3 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Xylenes (total) | 1330-20-7 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| Bromofluorobenzene | | 96 | 70-130 |
| 1,2-Dichlorobenzene-d4 | | 96 | 70-130 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**
Description: **18686 WSW-3**
Date Sampled: **04/13/2021 1621**
Date Received: **04/16/2021**

Laboratory ID: **WD16020-002**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260D | 1 | 04/19/2021 1247 | JDF | | 89529 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| tert-Amyl alcohol (TAA) | 75-85-4 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| tert-Amyl methyl ether (TAME) | 994-05-8 | 8260D | ND | | 10 | 0.42 | ug/L | 1 |
| tert-Butyl formate (TBF) | 762-75-4 | 8260D | ND | | 5.0 | 2.0 | ug/L | 1 |
| Diisopropyl ether (IPE) | 108-20-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| 3,3-Dimethyl-1-butanol | 624-95-3 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| Ethanol | 64-17-5 | 8260D | ND | | 100 | 52 | ug/L | 1 |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| tert-butyl alcohol (TBA) | 75-65-0 | 8260D | ND | | 20 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 107 | 70-130 |
| Toluene-d8 | | 109 | 70-130 |
| Bromofluorobenzene | | 107 | 70-130 |

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 WSW-3**
Date Sampled: **04/13/2021 1621**
Date Received: **04/16/2021**

Laboratory ID: **WD16020-002**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 504.1 | 504.1 | 1 | 04/21/2021 1953 | JPB | 04/21/2021 0920 | 89701 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 504.1 | ND | | 0.019 | 0.0039 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 103 | 57-137 |

4

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
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# Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**
Description: **18686 DUP-C**
Date Sampled: **04/13/2021 1202**
Date Received: **04/16/2021**

Laboratory ID: **WD16020-003**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 524.2 | 524.2 | 1 | 04/26/2021 1223 | BWS | | 90239 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Ethylbenzene | 100-41-4 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Naphthalene | 91-20-3 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Toluene | 108-88-3 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Xylenes (total) | 1330-20-7 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| Bromofluorobenzene | | 91 | 70-130 |
| 1,2-Dichlorobenzene-d4 | | 96 | 70-130 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**
Description: **18686 DUP-C**
Date Sampled: **04/13/2021 1202**
Date Received: **04/16/2021**

Laboratory ID: **WD16020-003**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260D | 1 | 04/19/2021 1311 | JDF | | 89529 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| tert-Amyl alcohol (TAA) | 75-85-4 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| tert-Amyl methyl ether (TAME) | 994-05-8 | 8260D | ND | | 10 | 0.42 | ug/L | 1 |
| tert-Butyl formate (TBF) | 762-75-4 | 8260D | ND | | 5.0 | 2.0 | ug/L | 1 |
| Diisopropyl ether (IPE) | 108-20-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| 3,3-Dimethyl-1-butanol | 624-95-3 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| Ethanol | 64-17-5 | 8260D | ND | | 100 | 52 | ug/L | 1 |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| tert-butyl alcohol (TBA) | 75-65-0 | 8260D | ND | | 20 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 106 | 70-130 |
| Toluene-d8 | | 108 | 70-130 |
| Bromofluorobenzene | | 109 | 70-130 |

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 DUP-C**
Date Sampled: **04/13/2021 1202**
Date Received: **04/16/2021**

Laboratory ID: **WD16020-003**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 504.1 | 504.1 | 1 | 04/21/2021 2005 | JPB | 04/21/2021 0920 | 89701 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 504.1 | ND | | 0.019 | 0.0039 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 102 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando** Laboratory ID: **WD16020-004**

Description: **18686 WSW FB** Matrix: **Aqueous**

Date Sampled: **04/13/2021 1301**

Date Received: **04/16/2021**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 524.2 | 524.2 | 1 | 04/26/2021 1044 | BWS | | 90239 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Ethylbenzene | 100-41-4 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Naphthalene | 91-20-3 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Toluene | 108-88-3 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Xylenes (total) | 1330-20-7 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| Bromofluorobenzene | | 98 | 70-130 |
| 1,2-Dichlorobenzene-d4 | | 96 | 70-130 |

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**
Description: **18686 WSW FB**
Date Sampled: **04/13/2021 1301**
Date Received: **04/16/2021**

Laboratory ID: **WD16020-004**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260D | 1 | 04/19/2021 1335 | JDF | | 89529 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| tert-Amyl alcohol (TAA) | 75-85-4 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| tert-Amyl methyl ether (TAME) | 994-05-8 | 8260D | ND | | 10 | 0.42 | ug/L | 1 |
| tert-Butyl formate (TBF) | 762-75-4 | 8260D | ND | | 5.0 | 2.0 | ug/L | 1 |
| Diisopropyl ether (IPE) | 108-20-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| 3,3-Dimethyl-1-butanol | 624-95-3 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| Ethanol | 64-17-5 | 8260D | ND | | 100 | 52 | ug/L | 1 |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| **tert-butyl alcohol (TBA)** | **75-65-0** | **8260D** | **0.96** | **J** | **20** | **0.40** | **ug/L** | **1** |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 107 | 70-130 |
| Toluene-d8 | | 108 | 70-130 |
| Bromofluorobenzene | | 105 | 70-130 |

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **18686 WSW FB**
Date Sampled: **04/13/2021 1301**
Date Received: **04/16/2021**

Laboratory ID: **WD16020-004**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 504.1 | 504.1 | 1 | 04/21/2021 2017 | JPB | 04/21/2021 0920 | 89701 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 504.1 | ND | | 0.020 | 0.0039 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 104 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**
Description: **18686 WSW TB**
Date Sampled: **04/13/2021 0801**
Date Received: **04/16/2021**

Laboratory ID: **WD16020-005**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 524.2 | 524.2 | 1 | 04/26/2021 1109 | BWS | | 90239 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Ethylbenzene | 100-41-4 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Naphthalene | 91-20-3 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Toluene | 108-88-3 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |
| Xylenes (total) | 1330-20-7 | 524.2 | ND | | 0.50 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| Bromofluorobenzene | | 90 | 70-130 |
| 1,2-Dichlorobenzene-d4 | | 95 | 70-130 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**
Description: **18686 WSW TB**
Date Sampled: **04/13/2021 0801**
Date Received: **04/16/2021**

Laboratory ID: **WD16020-005**
Matrix: **Aqueous**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260D | 1 | 04/19/2021 1400 | JDF | | 89529 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| tert-Amyl alcohol (TAA) | 75-85-4 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| tert-Amyl methyl ether (TAME) | 994-05-8 | 8260D | ND | | 10 | 0.42 | ug/L | 1 |
| tert-Butyl formate (TBF) | 762-75-4 | 8260D | ND | | 5.0 | 2.0 | ug/L | 1 |
| Diisopropyl ether (IPE) | 108-20-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| 3,3-Dimethyl-1-butanol | 624-95-3 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| Ethanol | 64-17-5 | 8260D | ND | | 100 | 52 | ug/L | 1 |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| **tert-butyl alcohol (TBA)** | **75-65-0** | **8260D** | **1.8** | **J** | **20** | **0.40** | **ug/L** | **1** |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 105 | 70-130 |
| Toluene-d8 | | 107 | 70-130 |
| Bromofluorobenzene | | 105 | 70-130 |

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

# Chain of Custody
# and
# Miscellaneous Documents

SGS

# CHAIN OF CUSTODY

SGS North America Inc. - Orlando
4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL 407-425-6700 FAX: 407-425-0707
www.sgs.com/chemusa

Page 1 of 2

FEDEX Tracking # | Sample Order Control # | SGS Quote # | SGS Job # FA84768X

| Client / Reporting Information | Project Information | Requested Analysis ( see TEST CODE sheet) |
|---|---|---|
| Company Name: SGS North America Inc. | Project Name: FA84768X | |
| Street Address: 4405 Vineland Rd, Suite C-15 | Street | Billing Information ( if different from Report to) |
| City: Orlando State: FL Zip: 32811 | City: State: SC | Company Name |
| Project Contact: E-mail: muna.mohamed@sgs.com | Project # | Street Address |
| Phone #: 407-425-6700 Fax # | Client Purchase Order # | City State Zip |
| Sampler(s) Name(s): DJKP Phone | Project Manager | Attention |

WD16020

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 Sample # | Field ID / Point of Collection | MEOH/DI Vial # | Collection Date | Collection Time | Sampled by | Matrix | # of bottles | HCl | NaOH | HNO3 | H2SO4 | NONE | DI Water | MEOH | ENCORE | | V8260D/ V8260DOXYG; V8260DOXYB | V8260BTEX, MTBE, NAPHTH, 1,2-DCA; V8260BTEX, MTBE, NAPHTH, 1,2-DCA; V8260DOXYB | | | | | | | | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32X | 18686 WSW-1 | | 4/13/21 | 4:09:00 PM | DJKP | DW | 5 | 6 | | | | | | | | 3 | X | | | | | | | | | |
| 33X | 18686 WSW-3 | | 4/13/21 | 4:21:00 PM | DJKP | DW | 9 | 6 | | | | | | | | 3 | X | | | | | | | | | |
| 34X | 18686 DUP-C | | 4/13/21 | 12:02:00 PM | DJKP | DW | 9 | 6 | | | | | | | | 3 | X | | | | | | | | | |
| 35X | 18686 WSW FB | | 4/13/21 | 1:01:00 PM | DJKP | DW | 9 | 6 | | | | | | | | 3 | X | | | | | | | | | |
| 36X | 18686 WSW TB | | 4/13/21 | 8:01:00 AM | DJKP | DW | 7 | 4 | | | | | | | | 3 | | X | | | | | | | | |

Turnaround Time ( Business days)

- [ ] Standard 10 Day (business)
- [ ] 5 Business Days RUSH
- [ ] 3 Business Days RUSH
- [ ] 2 Business Days RUSH
- [ ] 1 Business Day EMERGENCY
- [X] other 7

Approved By (SGS PM): / Date:

Emergency & Rush T/A data available via Lablink. Approval needed for RUSH/Emergency TAT

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [X] Commercial "B" ( Level 2)
- [ ] REDT1 ( Level 3)
- [ ] FULT1 ( Level 4)
- [ ] Commercial "C"
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions: Shealy

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

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 [signature] | 4/15/21 | 1 | 2 | | 2 |
| Relinquished by Sampler: | Date/Time: | Received By: | Relinquished By: | Date/Time: | Received By: |
| 3 | 1700 | 3 | 4 | | 4 |
| Relinquished by: 5 FedEx | Date/Time: 4/16/21 0940 | Received By: 6 [signature] | Custody Seal # | Intact / Not Intact | Preserved where applicable / Thermometer ID |

On Ice ☑ Cooler Temp 6.0°C

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

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SGS

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FA84768

4

Pace Analytical

Samples Receipt Checklist (SRC) (ME0018C-15)
Issuing Authority: Pace ENV - WCOL

Revised:9/29/2020
Page 1 of 1

# Sample Receipt Checklist (SRC)

Client: SGS  Cooler Inspected by/date: MEH / 04/16/2021  Lot #: WD16020

Means of receipt: ☐ Pace ☐ 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: NA  Chlorine Strip ID: NA  Tested by: NA

Original temperature upon receipt / Derived (Corrected) temperature upon receipt  %Solid Snap-Cup ID: NA

6.0 / 6.0 °C  NA / NA °C  NA / NA °C  NA / NA °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/625.1/608.3 (< 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 listed on the container label? If yes, Quote # NA |

**Sample Preservation** (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA.
Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) FB(7), TB(4) _____ were received with bubbles >6 mm in diameter.

Samples(s) NA _____ 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: NA.

SR barcode labels applied by: MEH Date: 04/16/2021

Comments:

## Misc. Forms



# Custody Documents and Other Forms

**Includes the following where applicable:**

- Chain of Custody

SC DHEC

# SGS North America Inc - Orlando
## Chain of Custody

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

SGS

SGS - ORLANDO JOB #: FA84768

PAGE 1 OF 3

SGS - ORLANDO Quote #

SKIFF #

**Client / Reporting Information**

Company Name: Geological Resources Inc.
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: Kyle Perry Sampler 2: DJ Johnson

**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 Orlando Sample # | Field ID / Point of Collection | Collection Date | Collection Time | Sampled By | Matrix | Total # of Bottles | Other | None | NO | NaOH | HNO3 | H2SO4 | NaOH+ZNA | DI Water | MeOH | BTEX, MTBE, naphthalene, 1,2-DCA, 2oxygenates-8260 | EDB 8011 | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 18686 - MW-1 | 4/13/21 | 1210 | DJ | GW | 5 | | | | | | | | | | X | X | |
| 2 | 18686 - MW-2 | 4/13/21 | 1219 | DJ | GW | 5 | | | | | | | | | | X | X | |
| 3 | 18686 - MW-3 | 4/13/21 | 1228 | KP | GW | 5 | | | | | | | | | | X | X | |
| 4 | 18686 - MW-5R | 4/13/21 | 1237 | KP | GW | 5 | | | | | | | | | | X | X | |
| 5 | 18686 - MW-8 | 4/13/21 | 1006 | KP | GW | 5 | | | | | | | | | | X | X | |
| 6 | 18686 - MW-9 | 4/13/21 | 1018 | DJ | GW | 5 | | | | | | | | | | X | X | |
| 7 | 18686 - MW-11R | 4/13/21 | 0946 | DJ | GW | 5 | | | | | | | | | | X | X | |
| 8 | 18686 - MW-12R | 4/13/21 | 0955 | KP | GW | 5 | | | | | | | | | | X | X | |
| 9 | 18686 - MW-13 | 4/13/21 | 1027 | DJ | GW | 5 | | | | | | | | | | X | X | |
| 10 | 18686 - MW-14 | 4/13/21 | 1256 | KP | GW | 5 | | | | | | | | | | X | X | |
| 11 | 18686 - MW-15 | 4/13/21 | 1246 | KP | GW | 5 | | | | | | | | | | X | X | |
| 12 | 18686 - MW-16R | 4/13/21 | 1153 | KP | GW | 5 | | | | | | | | | | 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

INITIAL ASSESSMENT: [signature]

LABEL VERIFICATION: PH

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

**Comments / Remarks**

SC DHEC UST Management 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] | 4/13/21 1730 | 2 FedEx 1009 6378 7919 1009 6378 7920 | 3 Fedex | 4/14/21 | 4 [signature] 1000 |
| 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): 0.6 IR #4

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

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FA84768: Chain of Custody
Page 1 of 4

SC DHEC

# SGS North America Inc - Orlando
## Chain of Custody

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www.sgs.com

SGS

FA84768

SGS - ORLANDO JOB # :

PAGE 2 OF 3

SGS - ORLANDO Quote #

SKIFF #

**Client / Reporting Information**

Company Name: Geological Resources Inc.
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: Kyle Perry Sampler 2: DJ Johnson

**Project Information**

Project Name: Tisdale's Quick Stop
Street: 1989 Thurgood Marshall Blvd.
City: Kingstree State: SC
Project #: 1513
~~Fax #~~: UST Permit # 18686
Client Purchase Order #

**Analytical Information**

| SGS Orlando Sample # | Field ID / Point of Collection | Collection Date | Collection Time | Sampled By | Matrix | Total # of Bottles | Other | None | Ice | NaOH | HNO3 | H2SO4 | NaOH+ZnA | DI Water | MeOH | BTEX, MTBE, naphthalene, 1,2-DCA, 8 oxygenates - 8260 | EDB - 8011 | Lab Use Only |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 18686 - MW-17R | 4/13/21 | 1702 | KP | GW | 5 | | | | | | | | | | X | X | |
| 14 | 18686 - MW-18R | 4/13/21 | 1144 | DJ | GW | 5 | | | | | | | | | | X | X | |
| 15 | 18686 - MW-21 | 4/13/21 | 1451 | DJ | GW | 5 | | | | | | | | | | X | X | |
| 16 | 18686 - MW-23 | 4/13/21 | 1502 | DJ | GW | 5 | | | | | | | | | | X | X | |
| 17 | 18686 - MW-24 | 4/13/21 | 1513 | DJ | GW | 5 | | | | | | | | | | X | X | |
| 18 | 18686 - MW-25 | 4/13/21 | 1546 | KP | GW | 5 | | | | | | | | | | X | X | |
| 19 | 18686 - MW-26 | 4/13/21 | 1558 | KP | GW | 5 | | | | | | | | | | X | X | |
| 20 | 18686 - MW-27 | 4/13/21 | 1535 | DJ | GW | 5 | | | | | | | | | | X | X | |
| 21 | 18686 - MW-28 | 4/13/21 | 1524 | KP | GW | 5 | | | | | | | | | | X | X | |
| 22 | 18686 - MW-31 | 4/13/21 | 1440 | KP | GW | 5 | | | | | | | | | | X | X | |
| 23 | 18686 - MW-1A (HOT) | 4/13/21 | 1041 | KP | GW | 5 | | | | | | | | | | X | X | |
| 24 | 18686 - MW-2H (HOT) | 4/13/21 | 1055 | KP | GW | 5 | | | | | | | | | | 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

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

**Comments / Remarks**

SC DHEC UST Management 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] | 4/13/21 1730 | 2 FedEx 1009 6378 7919 1009 6378 7920 | 3 Fedex | 4/14/21 | 4 [signature] 1000 |
| 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

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Page 2 of 4

SC DHEC

# SGS North America Inc - Orlando
## Chain of Custody

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www.sgs.com

**SGS - ORLANDO JOB # :** FA84768

PAGE 3 OF 3

**SGS - ORLANDO Quote #** | **SKIFF #**

### Client / Reporting Information

Company Name: Geological Resources Inc.
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: Kyle Perry Sampler 2: DJ Jonnsen

### 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

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 Orlando Sample # | Field ID / Point of Collection | Collection DATE | Collection TIME | Sampled By | Matrix | Total # of Bottles | Container Information | BTEX, MTBE, Naphthalene, 1,2-DCA, Ethanol - 8260 | EDD - 8011 | BTEX, MTBE, Naphthalene, 1,2-DCA - 8260 | 8 Oxygenates - 8260 | EDD - 5001 | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 18686 - MW-4A (HOT) | 4/13/21 | 1109 | KP | GW | 5 | | X | X | | | | |
| 26 | 18686 - TW-1 | 4/13/21 | 1124 | DJ | GW | 5 | | X | X | | | | |
| 27 | 18686 - TW-2 | 4/13/21 | 1129 | DJ | GW | 5 | | X | X | | | | |
| 28 | 18686 - DUP-A | 4/13/21 | 1200 | KP | GW | 5 | | X | X | | | | |
| 29 | 18686 - DUP-B (HOT) | 4/13/21 | 1201 | KP | GW | 5 | | X | X | | | | |
| 30 | 18686 - FB | 4/13/21 | 1300 | KP | WW | 5 | | X | X | | | | |
| 31 | 18686 - TB | 4/13/21 | 0800 | KP | WW | 2 | | X | | | | | |
| 32 | 18686 - WSW-1 | 4/13/21 | 1609 | KP | OW | 9 | | | | X | X | X | |
| 33 | 18686 - WSW-3 | 4/13/21 | 1621 | DJ | OW | 9 | | | | X | X | X | |
| 34 | 18686 - DUP-C | 4/13/21 | 1702 | DJ | OW | 9 | | | | X | X | X | |
| 35 | 18686 - WSW FB | 4/13/21 | 1301 | KP | WW | 9 | | | | X | X | X | |
| 36 | 18686 - WSW TB | 4/13/21 | 0801 | KP | WW | 4 | | | | 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 T/A Data Available VIA Email or Lablink

### Data Deliverable Information

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

### Comments / Remarks

SC DHEC UST Management 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] | 4/13/21 1730 | 2 FedEx 1009 6378 7919 1009 6378 7120 | 3 Fedex | 4/14/21 | 4 [signature] 200 1000 |
| 5 | Relinquished by/Affiliation | Date Time: | 6 Received By/Affiliation | 7 Relinquished By/Affiliation | Date Time: | 8 Received By/Affiliation |

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

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

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# SGS Sample Receipt Summary

**Job Number:** FA84768 **Client:** GEOLOGICAL RESOURCES **Project:** TISDALE'S QUICK STOP

**Date / Time Received:** 4/14/2021 10:00:00 AM **Delivery Method:** FEDEX **Airbill #'s:** 100963787920

**Therm ID:** IR 1; **Therm CF:** -1.8; **# of Coolers:** 1

**Cooler Temps (Raw Measured) °C:** Cooler 1: (2.4);

**Cooler Temps (Corrected) °C:** Cooler 1: (0.6);

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

| Trip Blank Information | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Trip Blank present / cooler | ☑ | | ☐ | ☐ |
| 2. Trip Blank listed on COC | ☑ | | ☐ | ☐ |
| | **W** | **or** | **S** | **N/A** |
| 3. Type Of TB Received | ☑ | | ☐ | ☐ |

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

**Misc. Information**

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

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments SAMPLES 31, 35, AND 36 RECEIVED WITH HEADSPACE.

SM001
Rev. Date 05/24/17

Technician: BRYANG Date: 4/14/2021 10:00:00 A Reviewer: _____ Date: _____

5.1
5

FA84768: Chain of Custody
Page 4 of 4

## 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: FA84768
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 |
|---|---|---|---|---|---|---|---|
| V5E1274-MB | 5E27717.D | 1 | 04/27/21 | SO | n/a | n/a | V5E1274 |



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

FA84768-1, FA84768-2, FA84768-3, FA84768-4, FA84768-5, FA84768-6, FA84768-7, FA84768-8, FA84768-9, FA84768-10, FA84768-11, FA84768-12, FA84768-13, FA84768-14, FA84768-15, FA84768-16, FA84768-17, FA84768-18, FA84768-19, FA84768-20

| 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 | 105% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 114% | 79-125% |
| 2037-26-5 | Toluene-D8 | 95% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | 83-118% |

# Method Blank Summary

Job Number: FA84768
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 |
|---|---|---|---|---|---|---|---|
| V5E1275-MB | 5E27746.D | 1 | 04/27/21 | SO | n/a | n/a | V5E1275 |



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

FA84768-21, FA84768-22, FA84768-23, FA84768-24, FA84768-25, FA84768-26, FA84768-27, FA84768-28, FA84768-29, FA84768-30, FA84768-31

| 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 | 102% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 113% | 79-125% |
| 2037-26-5 | Toluene-D8 | 95% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | 83-118% |

# Blank Spike Summary



Job Number: FA84768
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 |
|---|---|---|---|---|---|---|---|
| V5E1274-BS | 5E27714.D | 1 | 04/27/21 | SO | n/a | n/a | V5E1274 |



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

FA84768-1, FA84768-2, FA84768-3, FA84768-4, FA84768-5, FA84768-6, FA84768-7, FA84768-8, FA84768-9, FA84768-10, FA84768-11, FA84768-12, FA84768-13, FA84768-14, FA84768-15, FA84768-16, FA84768-17, FA84768-18, FA84768-19, FA84768-20

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 25 | 24.1 | 96 | 81-122 |
| 107-06-2 | 1,2-Dichloroethane | 25 | 26.3 | 105 | 75-125 |
| 108-20-3 | Di-Isopropyl Ether | 25 | 23.8 | 95 | 68-123 |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | 1250 | 1020 | 82 | 55-126 |
| 64-17-5 | Ethyl Alcohol | 500 | 603 | 121 | 46-145 |
| 100-41-4 | Ethylbenzene | 25 | 23.5 | 94 | 81-121 |
| 637-92-3 | Ethyl Tert Butyl Ether | 25 | 23.1 | 92 | 71-120 |
| 1634-04-4 | Methyl Tert Butyl Ether | 25 | 24.2 | 97 | 72-117 |
| 91-20-3 | Naphthalene | 25 | 25.1 | 100 | 63-132 |
| 75-85-4 | Tert-Amyl Alcohol | 250 | 207 | 83 | 65-124 |
| 994-05-8 | Tert-Amyl Methyl Ether | 25 | 23.5 | 94 | 73-122 |
| 75-65-0 | Tert-Butyl Alcohol | 250 | 223 | 89 | 63-129 |
| 762-75-4 | Tert-Butyl Formate | 125 | 225 | 180* | 46-130 |
| 108-88-3 | Toluene | 25 | 22.2 | 89 | 80-120 |
| 1330-20-7 | Xylene (total) | 75 | 73.5 | 98 | 80-126 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 109% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 117% | 79-125% |
| 2037-26-5 | Toluene-D8 | 97% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 83-118% |

* = Outside of Control Limits.

# Blank Spike Summary

Job Number: FA84768
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 |
|---|---|---|---|---|---|---|---|
| V5E1275-BS | 5E27743.D | 1 | 04/27/21 | SO | n/a | n/a | V5E1275 |



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

FA84768-21, FA84768-22, FA84768-23, FA84768-24, FA84768-25, FA84768-26, FA84768-27, FA84768-28, FA84768-29, FA84768-30, FA84768-31

| 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 | 26.2 | 105 | 75-125 |
| 108-20-3 | Di-Isopropyl Ether | 25 | 23.2 | 93 | 68-123 |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | 1250 | 971 | 78 | 55-126 |
| 64-17-5 | Ethyl Alcohol | 500 | 464 | 93 | 46-145 |
| 100-41-4 | Ethylbenzene | 25 | 23.4 | 94 | 81-121 |
| 637-92-3 | Ethyl Tert Butyl Ether | 25 | 23.1 | 92 | 71-120 |
| 1634-04-4 | Methyl Tert Butyl Ether | 25 | 23.8 | 95 | 72-117 |
| 91-20-3 | Naphthalene | 25 | 24.1 | 96 | 63-132 |
| 75-85-4 | Tert-Amyl Alcohol | 250 | 210 | 84 | 65-124 |
| 994-05-8 | Tert-Amyl Methyl Ether | 25 | 23.3 | 93 | 73-122 |
| 75-65-0 | Tert-Butyl Alcohol | 250 | 208 | 83 | 63-129 |
| 762-75-4 | Tert-Butyl Formate | 125 | 210 | 168* | 46-130 |
| 108-88-3 | Toluene | 25 | 22.0 | 88 | 80-120 |
| 1330-20-7 | Xylene (total) | 75 | 72.4 | 97 | 80-126 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 107% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 113% | 79-125% |
| 2037-26-5 | Toluene-D8 | 96% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | 83-118% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



Job Number: FA84768
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 |
|---|---|---|---|---|---|---|---|
| FA84768-1MS | 5E27738.D | 50 | 04/27/21 | SO | n/a | n/a | V5E1274 |
| FA84768-1MSD | 5E27739.D | 50 | 04/27/21 | SO | n/a | n/a | V5E1274 |
| FA84768-1 | 5E27718.D | 50 | 04/27/21 | SO | n/a | n/a | V5E1274 |

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

FA84768-1, FA84768-2, FA84768-3, FA84768-4, FA84768-5, FA84768-6, FA84768-7, FA84768-8, FA84768-9, FA84768-10, FA84768-11, FA84768-12, FA84768-13, FA84768-14, FA84768-15, FA84768-16, FA84768-17, FA84768-18, FA84768-19, FA84768-20

| CAS No. | Compound | FA84768-1 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 | 1230 | | 1250 | 2470 | 99 | 1250 | 2460 | 98 | 0 | 81-122/14 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 1250 | 1500 | 120 | 1250 | 1450 | 116 | 3 | 75-125/14 |
| 108-20-3 | Di-Isopropyl Ether | ND | | 1250 | 1310 | 105 | 1250 | 1280 | 102 | 2 | 68-123/16 |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | ND | | 62500 | 51800 | 83 | 62500 | 55500 | 89 | 7 | 55-126/17 |
| 64-17-5 | Ethyl Alcohol | ND | | 25000 | 38500 | 154* | 25000 | 39100 | 156* | 2 | 46-145/30 |
| 100-41-4 | Ethylbenzene | 53.4 | | 1250 | 1330 | 102 | 1250 | 1320 | 101 | 1 | 81-121/14 |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | | 1250 | 1280 | 102 | 1250 | 1250 | 100 | 2 | 71-120/14 |
| 1634-04-4 | Methyl Tert Butyl Ether | 53.1 | | 1250 | 1360 | 105 | 1250 | 1340 | 103 | 1 | 72-117/14 |
| 91-20-3 | Naphthalene | 117 | J | 1250 | 1470 | 108 | 1250 | 1500 | 111 | 2 | 63-132/25 |
| 75-85-4 | Tert-Amyl Alcohol | 4710 | | 12500 | 15700 | 88 | 12500 | 16500 | 94 | 5 | 65-124/23 |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | | 1250 | 1220 | 98 | 1250 | 1200 | 96 | 2 | 73-122/13 |
| 75-65-0 | Tert-Butyl Alcohol | ND | | 12500 | 12400 | 99 | 12500 | 12600 | 101 | 2 | 63-129/27 |
| 762-75-4 | Tert-Butyl Formate | ND | | 6250 | 12000 | 192* | 6250 | 11300 | 181* | 6 | 46-130/33 |
| 108-88-3 | Toluene | 2040 | | 1250 | 3090 | 84 | 1250 | 3060 | 82 | 1 | 80-120/14 |
| 1330-20-7 | Xylene (total) | 2640 | | 3750 | 6550 | 104 | 3750 | 6530 | 104 | 0 | 80-126/15 |

| CAS No. | Surrogate Recoveries | MS | MSD | FA84768-1 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 110% | 109% | 104% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 120% | 116% | 113% | 79-125% |
| 2037-26-5 | Toluene-D8 | 96% | 96% | 96% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | 97% | 96% | 83-118% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



Job Number: FA84768
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 |
|---|---|---|---|---|---|---|---|
| FA84768-25MS | 5E27762.D | 250 | 04/28/21 | SO | n/a | n/a | V5E1275 |
| FA84768-25MSD | 5E27763.D | 250 | 04/28/21 | SO | n/a | n/a | V5E1275 |
| FA84768-25 [a] | 5E27757.D | 250 | 04/28/21 | SO | n/a | n/a | V5E1275 |



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

FA84768-21, FA84768-22, FA84768-23, FA84768-24, FA84768-25, FA84768-26, FA84768-27, FA84768-28, FA84768-29, FA84768-30, FA84768-31

| CAS No. | Compound | FA84768-25 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 | 5590 | | 6250 | 11900 | 101 | 6250 | 11800 | 99 | 1 | 81-122/14 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 6250 | 7370 | 118 | 6250 | 7200 | 115 | 2 | 75-125/14 |
| 108-20-3 | Di-Isopropyl Ether | ND | | 6250 | 6470 | 104 | 6250 | 6410 | 103 | 1 | 68-123/16 |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | ND | | 313000 | 296000 | 95 | 313000 | 296000 | 95 | 0 | 55-126/17 |
| 64-17-5 | Ethyl Alcohol | ND | | 125000 | 127000 | 102 | 125000 | 105000 | 84 | 19 | 46-145/30 |
| 100-41-4 | Ethylbenzene | 584 | | 6250 | 7000 | 103 | 6250 | 7000 | 103 | 0 | 81-121/14 |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | | 6250 | 6280 | 100 | 6250 | 6280 | 100 | 0 | 71-120/14 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 6250 | 6420 | 103 | 6250 | 6490 | 104 | 1 | 72-117/14 |
| 91-20-3 | Naphthalene | ND | | 6250 | 6710 | 107 | 6250 | 6820 | 109 | 2 | 63-132/25 |
| 75-85-4 | Tert-Amyl Alcohol | 2510 | J | 62500 | 59400 | 91 | 62500 | 61200 | 94 | 3 | 65-124/23 |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | | 6250 | 6020 | 96 | 6250 | 6060 | 97 | 1 | 73-122/13 |
| 75-65-0 | Tert-Butyl Alcohol | ND | | 62500 | 54500 | 87 | 62500 | 55100 | 88 | 1 | 63-129/27 |
| 762-75-4 | Tert-Butyl Formate | ND | | 31300 | 58300 | 187* | 31300 | 59000 | 189* | 1 | 46-130/33 |
| 108-88-3 | Toluene | 17300 | | 6250 | 22800 | 88 | 6250 | 22400 | 82 | 2 | 80-120/14 |
| 1330-20-7 | Xylene (total) | 10100 | | 18800 | 30100 | 107 | 18800 | 29900 | 106 | 1 | 80-126/15 |

| CAS No. | Surrogate Recoveries | MS | MSD | FA84768-25 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 108% | 108% | 105% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 120% | 119% | 117% | 79-125% |
| 2037-26-5 | Toluene-D8 | 97% | 96% | 95% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | 98% | 97% | 83-118% |

(a) Sample analyzed beyond hold time; reported results are considered minimum values.

* = Outside of Control Limits.

**APPENDIX B**

Field Data Information Sheets

dhec

# Underground Storage Tank Management Division
## Field Data Information Sheet – Monitoring Well Gauging

### Site Information

| | | |
|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop |
| County: Williamsburg | Project Manager: Arthur Brown | Field Personnel: Kyle P. / DJ Johnson |

### 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 | 20.17 | 10-20 | – | 10.80 | – | Y | N | Y | 0/2 | Y |
| MW-2 | 25.07 | 10-25 | – | 11.01 | – | Y | N | Y | 0/2 | N |
| MW-3 | 25.21 | 10-25 | – | 10.93 | – | Y | N | Y | 0/2 | N |
| MW-5R | 24.62 | 10-25 | – | 10.65 | – | Y | N | Y | 2/2 | N |
| ~~MW-5R~~ MW-4 | NF | 10-25 | – | – | – | – | – | – | – | NF |
| MW-6 | NF | 11.5-21.5 | – | – | – | – | – | – | – | NF |
| MW-7 | NF | 12-22 | – | – | – | – | – | – | – | NF |
| MW-8 | 21.17 | 12-22 | – | 10.75 | – | Y | N | buried | 0/3 | N |
| MW-9 | 21.25 | 12-22 | – | 11.77 | – | Y | N | Y | 0/3 | N |
| MW-10 | NF | 10-25 | – | – | – | – | – | – | – | NF |
| MW-11R | 20.04 | 5-20 | – | 9.51 | – | Y | N | Y | 2/2 | N |
| MW-12R | 19.65 | 5-20 | – | 9.76 | – | Y | N | Y | 1/2 | N |
| MW-13 | 24.02 | 10-25 | – | 11.51 | – | Y | N | Y | 0/3 | N |

Notes: _____

Signature: _____

dhec

# Underground Storage Tank Management Division
## Field Data Information Sheet – Monitoring Well Gauging

**Site Information**

| | | |
|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop |
| County: Williamsburg | Project Manager: Arthur Brown | Field Personnel: Kyle P. / DJ Johnson |

**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-14 | 23.62 | 10-25 | - | 10.97 | - | Y | N | Y | 0/3 | N |
| MW-15 | 24.02 | 10-25 | - | 12.53 | - | Y | N | Y | 0/3 | N |
| MW-16R | 24.73 | 10-25 | - | 11.16 | - | Y | N | Y | 2/2 | Y |
| MW-17R | 24.95 | 10-25 | - | 10.61 | - | Y | N | Y | 2/2 | N |
| MW-18R | 25.30 | 10-25 | - | 13.37 | - | Y | N | Y | 2/2 | Y |
| MW-19 | NA | 10-25 | - | - | - | - | - | - | - | NA |
| MW-20 | NA | 10-25 | - | - | - | - | - | - | - | NA |
| MW-~~22~~ 22 | NF | ~~8-23~~ 10-25 | - | - | - | - | ~~NP~~ | ~~Buried~~ | ~~0/3~~ | NE |
| MW-~~21~~ 21 | 21.30 | ~~10-25~~ 8-23 | - | 11.06 | - | Y | N | Buried | 0/3 | |
| MW-23 | 23.32 | 9-24 | - | 11.46 | - | Y | N | Buried | 0/3 | Y |
| MW-24 | 20.86 | 8-23 | - | 9.31 | - | Y | N | Y | 0/3 | N |
| MW-25 | 20.96 | 8-23 | - | 9.42 | - | Y | N | Y | 0/3 | N |
| MW-26 | 19.48 | 6-21 | - | 8.91 | - | Y | N | Buried | 0/3 | Y |

Notes: _____

Signature: _____

dhec

# Underground Storage Tank Management Division
# Field Data Information Sheet – Monitoring Well Gauging

## Site Information

| | | |
|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop |
| County: Williamsburg | Project Manager: Arthur Brown | Field Personnel: Kyle P. / DJ Johnson |

## 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-27 | 24.52 | 10-25 | – | 13.27 | – | Y | N | Y | 0/3 | N |
| MW-28 | 21.47 | 10-25 | – | 13.63 | – | Y | N | Y | 0/3 | N |
| MW-29 | NF | 10-25 | – | – | – | – | – | – | – | NF |
| MW-30 | NF | 7-22 | – | – | – | – | – | – | – | NF |
| MW-31 | 20.21 | 10-20 | – | 12.53 | – | Y | N | cracked | 0/2 | N |
| MW-1A | 21.25 | UnKnown | – | 10.64 | – | Y | N | Y | 0/3 | N |
| MW-2A | 20.81 | UnKnown | – | 10.93 | – | Y | N | Y | 0/3 | Y |
| MW-3A | NF | UnKnown | – | – | – | – | – | – | – | NF |
| MW-4A | 20.76 | UnKnown | – | 11.01 | – | Y | N | Y | 0/3 | Y |
| TW-1 | 42.62 | 41-46 | – | 12.02 | – | Y | N | Y | 0/3 | Y |
| TW-2 | 44.50 | 46-51 | – | 10.71 | – | Y | N | buried | 0/3 | N |
| | | | | | | | | | | |
| | | | | | | | | | | |

Notes: _____

Signature: _____

2.

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~(pH, Specific Conductivity, Temperature)~~ | 11B100638 | pH 4.0: (Y) or N | pH 7.0: (Y) or N | pH 10.0 (Y) or N | S.C.: (Y) or N |
| ~~(Dissolved Oxygen)~~ YSI 556 | | Y or N | | | |
| ~~(Turbidity)~~ Hach 2100Q | 16030C048560 | 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.): 20.17 | |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 10.80 | Free Product Thickness (ft.): — | |
| Length of water column (LWC=TWD-DGW)(ft.): 9.37 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals) — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1209 | | | | | | | |
| pH (S.U.) | 5.94 | | | | | | | |
| Specific Conductivity (µS/cm) | 129.6 | | | | | | | |
| Water Temperature (°C) | 22.48 | | | | | | | |
| Turbidity (NTU) | 41.7 | | | | | | | |
| Dissolved Oxygen (mg/L) | 4.74 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kyle Perry | Sampling Time: 1210 | Duplicate: (Y) or N | If yes, Duplicate Time: 1200 |

Notes: Historically Hot!
No Purge.

Signature: Kyle Perry

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# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 556~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) YSI 556 | | Y or N | | | |
| ~~Hach~~ (Turbidity) Hach 2100Q | 16030C045860 | 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.): 25.07 | |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 11.01 | Free Product Thickness (ft.): — | |
| Length of water column (LWC = TWD-DGW)(ft.): 14.06 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals) — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1215 | | | | | | | |
| pH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kyle Perry | Sampling Time: 1219 | Duplicate: (Y) or N | If yes, Duplicate Time |

Notes: Historically Hot!

No Purge.

Shredder - no parameters taken

Signature: Kyle Perry

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# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~(pH, Specific Conductivity, Temperature)~~ | 11B100638 | pH 4.0: (Y) or N | pH 7.0: (Y) or N | pH 10.0 (Y) or N | S.C.: (Y) or N |
| ~~(Dissolved Oxygen)~~ YSI 556 | | Y or N | | | |
| ~~(Turbidity)~~ Hach 2100Q | 160300048860 | 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<br>Private WSW Public WSW | Screened Interval (ft.): 10 to 25 | | Total Well Depth (TWD) (ft.): 25.21 |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 10.93 | | Free Product Thickness (ft.): — |
| Length of water column (LWC = TWD - DGW)(ft.): 14.28 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): — |

### Purging Data

| | Initial | 1st Vol | 2nd Vol | 3rd Vol | 4th Vol | 5th Vol | Prod | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1227 | | | | | | | |
| pH (s.u.) | 5.18 | | | | | | | |
| Specific Conductivity (µS/cm) | 66.0 | | | | | | | |
| Water Temperature (°C) | 21.09 | | | | | | | |
| Turbidity (NTU) | 79.2 | | | | | | | |
| Dissolved Oxygen (mg/L) | 3.58 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kyle Perry | Sampling Time: 1228 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Historically Hot!
No Purge

Signature: Kyle Perry

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~pH, Specific Conductivity, Temperature~~ | 11B100638 | pH 4.0: (Y) or N | pH 7.0: (Y) or N | pH 10.0 (Y) or N | S.C. (Y) or N |
| ~~Dissolved Oxygen~~ YSI 556 | | Y or N | | | |
| ~~Turbidity~~ Hach 2100Q | 16030C048860 | 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 Bailer Pump |

X MW IW RW Other
Private WSW Public WSW

| Screened Interval (ft.) | Total Well Depth (TWD) (ft.) |
|---|---|
| 10 to 25 | |

| 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |
|---|---|---|---|
| | | | — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| pH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| Sampled By | Sampling Time | Duplicate: Y or (N) | If yes, Duplicate Time: |
|---|---|---|---|
| Kyle Perry | | | |

Notes:
Not Found.

Signature: Kyle Perry

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# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| | | | | |
|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | |
| ~~YSI 556~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) YSI 556 | | Y or N | | | |
| ~~Hach~~ (Turbidity) Hach 2100Q | 16030C048860 | 0.0 NTU: (Y) or N | 1.0 NTU (Y) or N | 10.0 NTU: (Y) or N | |

### Well Information

| | | | | |
|---|---|---|---|---|
| Well ID: MW-52 | 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<br>Private WSW Public WSW | Screened Interval (ft.): 10 to 25 | | Total Well Depth (TWD) (ft.): 24.62 | |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 10.65 | | Free Product Thickness (ft.): — | |
| Length of water column (LWC = TWD-DGW)(ft.): 13.97 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals) | 5 casing volumes: (5*CV)(gals): — | |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1236 | | | | | | | |
| pH (s.u.) | 5.81 | | | | | | | |
| Specific Conductivity (µS/cm) | 128.6 | | | | | | | |
| Water Temperature (°C) | 19.03 | | | | | | | |
| Turbidity (NTU) | 302.2 | | | | | | | |
| Dissolved Oxygen (mg/L) | 1.57 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kyle Perry | Sampling Time: 1237 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: No Purge.

Signature: Kyle Perry

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 556~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) YSI 556 | | Y or N | | | |
| ~~Hach 2100Q~~ (Turbidity) Hach 2100Q | 16030C048860 | 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-6 | 2" | | X Bailer Pump |

X MW IW RW Other
Private WSW Public WSW

| Screened Interval (ft.) | Total Well Depth (TWD) (ft.) |
|---|---|
| 11.5 to 21.5 | |

| 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |
|---|---|---|---|
| | | | — |

### Purging Data

| | Initial | 1st Vol | 2nd Vol | 3rd Vol | 4th Vol | 5th Vol | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time: (military) | | | | | | | | |
| pH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| Sampled By: Kyle Perry | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time: |
|---|---|---|---|

Notes:

Not Found.

Signature: Kyle Perry

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~Turbidity~~ (pH, Specific Conductivity, Temperature) | 11B100638 | pH 4.0: (Y) or N | pH 7.0 (Y) or N | pH 10.0 (Y) or N | S.C.: (Y) or N |
| ~~Turbidity~~ (Dissolved Oxygen) YSI 556 | | Y or N | | | |
| ~~Turbidity~~ (Turbidity) Hach 2100Q | 160300048860 | 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<br>Private WSW Public WSW | Screened Interval (ft.): 12 to 22 | | 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol | 5th Vol | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| pH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kyle Perry | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Not Found

Signature: Kyle Perry

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# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 556~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) YSI 556 | | Y or N | | | |
| ~~LaMotte~~ (Turbidity) Hach 2100Q | 16030C048860 | 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-5 | 2" | | X Bailer Pump |

X MW IW RW Other
Private WSW Public WSW

| Screened Interval (ft.) | Total Well Depth (TWD) (ft.) |
|---|---|
| 12 to 22 | 21.17 |

| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): | Free Product Thickness (ft.): |
|---|---|---|
| — | 10.75 | — |

| Length of water column (LWC = TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |
|---|---|---|---|
| 10.42 | 1.75 | 5.25 | — |

### Purging Data

| | Initial | 1st Vol | 2nd Vol | 3rd Vol | 4th Vol | 5th Vol | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | 1.75 | 3.50 | 5.25 | | | | |
| Time (military) | 0954 | 0957 | 1001 | 1005 | | | | |
| pH (s.u.) | 6.32 | 6.23 | 5.98 | 5.67 | | | | |
| Specific Conductivity (µS/cm) | 110.0 | 84.0 | 67.0 | 58.0 | | | | |
| Water Temperature (°C) | 19.80 | 19.89 | 20.30 | 20.21 | | | | |
| Turbidity (NTU) | 164.1 | 247.3 | 304.8 | 223.1 | | | | |
| Dissolved Oxygen (mg/L) | 1.31 | 2.97 | 2.85 | 2.70 | | | | |

### Sampling Data

| Sampled By: Kyle Perry | Sampling Time: 1006 | Duplicate: Y or (N) | If yes, Duplicate Time: |
|---|---|---|---|

Notes:

Signature: Kyle Perry

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# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration. | | | |
|---|---|---|---|---|---|
| ~~Hanna~~ (pH, Specific Conductivity, Temperature) | 11B100638 | pH 4.0: (Y) or N | pH 7.0 (Y) or N | pH 10.0 (Y) or N | S.C.: (Y) or N |
| ~~Hanna~~ (Dissolved Oxygen) YSI 556 | | Y or N | | | |
| ~~Hanna~~ (Turbidity) Hach 2100Q | 160300048860 | 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.) | Total Well Depth (TWD) (ft.) |
|---|---|
| 12 to 22 | 21.25 |

| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): | Free Product Thickness (ft.): |
|---|---|---|
| — | 11.77 | — |

| Length of water column (LWC = TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |
|---|---|---|---|
| 9.48 | 1.50 | 4.50 | — |

### Purging Data

| | Initial | 1st Vol | 2nd Vol | 3rd Vol | 4th Vol | 5th Vol | Dtw | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | 1.50 | 3.0 | 4.50 | | | | |
| Time (military) | 1600 | 1009 | 1013 | 1017 | | | | |
| pH (s.u.) | 6.46 | 6.14 | 5.74 | 5.69 | | | | |
| Specific Conductivity (µS/cm) | 530 | 570 | 54.0 | 52.0 | | | | |
| Water Temperature (°C) | 20.01 | ~~423.7~~ 20.04 | ~~431.2~~ 20.00 | 20.01 | | | | |
| Turbidity (NTU) | 42.5 | 423.7 | 431.2 | 395.0 | | | | |
| Dissolved Oxygen (mg/L) | 6.02 | 6.00 | 6.13 | 5.97 | | | | |

### Sampling Data

| Sampled By | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time |
|---|---|---|---|
| Kyle Perry | 1018 | | |

Notes:

Signature: Kyle Perry

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 556~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) YSI 556 | | Y or N | | | |
| ~~Hach~~ (Turbidity) Hach 2100Q | 16030C048860 | 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 Bailer Pump |
| X MW IW RW Other<br>Private WSW Public WSW | | Screened Interval (ft.): 10 to 25 | 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| pH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| Sampled By: Kyle Perry | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time: |
|---|---|---|---|

Notes:

Not Found.

Signature: Kyle Perry

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| | | | | |
|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | |
| ~~pH, Specific Conductivity, Temperature~~ (pH, Specific Conductivity, Temperature) | 11B100638 | pH 4.0: (Y) or N | pH 7.0 (Y) or N | pH 10.0 (Y) or N | S.C. (Y) or N |
| ~~Dissolved Oxygen~~ (Dissolved Oxygen) YSI 556 | | Y or N | | | |
| ~~Turbidity~~ (Turbidity) Hach 2100Q | 160300048860 | 0.0 NTU: (Y) or N | 1.0 NTU: (Y) or N | 10.0 NTU: (Y) or N | |

### Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-11R | 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<br>Private WSW Public WSW | Screened Interval (ft.): 5 to 20 | Total Well Depth (TWD) (ft.): 76.04 | |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 9.51 | Free Product Thickness (ft.): — | |
| Length of water column (LWC = TWD-DGW)(ft.): 10.53 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals) | 5 casing volumes (5*CV)(gals) — |

### Purging Data

| | Initial | 1st Vol | 2nd Vol | 3rd Vol | 4th Vol | 5th Vol | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | ~~0954~~ 0945 | | | | | | | |
| pH (s.u.) | 7.13 | | | | | | | |
| Specific Conductivity (µS/cm) | 53.6 | | | | | | | |
| Water Temperature (°C) | 19.49 | | | | | | | |
| Turbidity (NTU) | 132.4 | | | | | | | |
| Dissolved Oxygen (mg/L) | 5.13 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kyle Perry | Sampling Time: ~~0955~~ KP 0946 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: No Purge

Signature: Kyle Perry

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ S. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 556~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) YSI 556 | | Y or N | | | |
| ~~LaMotte~~ (Turbidity) Hach 2100Q | 16030C048860 | 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-12R | 2" | | X Bailer Pump |

X MW IW RW Other
Private WSW Public WSW

| Screened Interval (ft.) | Total Well Depth (TWD) (ft.) |
|---|---|
| 5 to 20 | 19.65 |

| Depth to Free Product (DFP) (ft.) | Depth to Groundwater (DGW) (ft.) | Free Product Thickness (ft.) |
|---|---|---|
| — | 9.76 | — |

| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes: (5*CV)(gals) |
|---|---|---|---|
| 9.89 | | | — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol | 5th Vol | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 25 | | | | | | | |
| Time (military) | KP ~~0953~~ 0954 | | | | | | | |
| pH (s.u.) | 6.72 | | | | | | | |
| Specific Conductivity (µS/cm) | 160.0 | | | | | | | |
| Water Temperature (°C) | 19.27 | | | | | | | |
| Turbidity (NTU) | 229.3 | | | | | | | |
| Dissolved Oxygen (mg/L) | 2.23 | | | | | | | |

### Sampling Data

| Sampled By | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time: |
|---|---|---|---|
| Kyle Perry | KP 0955 | | |

Notes: No Purge.

Signature: Kyle Perry

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# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 556~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) YSI 556 | | Y or N | | | |
| ~~Hach~~ (Turbidity) Hach 2100Q | 16030C048860 | 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 | 24.02 |

| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): | Free Product Thickness (ft.): |
|---|---|---|
| — | 11.51 | — |

| Length of water column (LWC = TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals) | 5 casing volumes (5*CV)(gals) |
|---|---|---|---|
| 12.51 | | | — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1036 | | | | | | | |
| pH (s.u.) | 6.22 | | | | | | | |
| Specific Conductivity (µS/cm) | 165.0 | | | | | | | |
| Water Temperature (°C) | 19.40 | | | | | | | |
| Turbidity (NTU) | 168.8 | | | | | | | |
| Dissolved Oxygen (mg/L) | 3.47 | | | | | | | |

### Sampling Data

| Sampled By | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time |
|---|---|---|---|
| Kyle Perry | 1037 | | |

Notes:
No Purge

Signature: Kyle Perry

33

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ S. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~(pH, Specific Conductivity, Temperature)~~ | 11B100638 | pH 4.0: (Y) or N | pH 7.0 (Y) or N | pH 10.0 (Y) or N | S.C.: (Y) or N |
| ~~(Dissolved Oxygen)~~ YSI 556 | | Y or N | | | |
| ~~(Turbidity)~~ Hach 2100Q | 160300048860 | 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: X Bailer Pump |
|---|---|---|---|
| MW-14 | 2" | | |

X MW IW RW Other
Private WSW Public WSW

| Screened Interval (ft.) | Total Well Depth (TWD) (ft.) |
|---|---|
| 10 to 25 | 23.62 |

| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.) | Free Product Thickness (ft.) |
|---|---|---|
| — | 10.97 | — |

| Length of water column (LWC = TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals) | 5 casing volumes (5*CV)(gals) |
|---|---|---|---|
| 12.65 | | | — |

### Purging Data

| | Initial | 1st Vol | 2nd Vol | 3rd Vol | 4th Vol | 5th Vol | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1255 | | | | | | | |
| pH (S.U.) | 5.45 | | | | | | | |
| Specific Conductivity (µS/cm) | 1730 | | | | | | | |
| Water Temperature (°C) | 18.49 | | | | | | | |
| Turbidity (NTU) | 489.7 | | | | | | | |
| Dissolved Oxygen (mg/L) | 2.46 | | | | | | | |

### Sampling Data

| Sampled By | Sampling Time | Duplicate: Y or (N) | If yes, Duplicate Time |
|---|---|---|---|
| Kyle Perry | 1256 | | |

Notes: No Purge.

Signature: Kyle Perry

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# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | | |
|---|---|---|---|---|
| Date: 04/15/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. | |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° | |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI EXO~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) YSI 556 | | Y or N | | | |
| ~~Hach 2100Q~~ (Turbidity) Hach 2100Q | 160300048860 | 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-15 | 2" | | X Bailer | Pump |
| X MW IW RW Other | | Screened Interval (ft.) 10 to 25 | Total Well Depth (TWD) (ft.) 24.02 | |
| Private WSW Public WSW | | | | |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 12.53 | | Free Product Thickness (ft.): — | |
| Length of water column (LWC = TWD-DGW)(ft.): 11.49 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals) — | |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1245 | | | | | | | |
| pH (s.u.) | 5.78 | | | | | | | |
| Specific Conductivity (µS/cm) | ~~761~~ 61.0 | | | | | | | |
| Water Temperature (°C) | 20.42 | | | | | | | |
| Turbidity (NTU) | ~~32~~ ~~MP~~ 62.1 | | | | | | | |
| Dissolved Oxygen (mg/L) | 5.50 | | | | | | | |

### Sampling Data

| Sampled By: Kyle Perry | Sampling Time: 1246 | Duplicate: Y or (N) | If yes, Duplicate Time: |
|---|---|---|---|

Notes: No Purge.

Signature: Kyle Perry

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| | | | | |
|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | |
| ~~YSI 556~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) YSI 556 | | Y or N | | | |
| ~~Hach~~ (Turbidity) Hach 2100Q | 16030C048860 | 0.0 NTU: (Y) or N | 1.0 NTU (Y) or N | 10.0 NTU (Y) or N | |

### Well Information

| | | | | |
|---|---|---|---|---|
| Well ID: MW-16R | 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<br>Private WSW Public WSW | Screened Interval (ft.): 10 to 25 | | Total Well Depth (TWD) (ft.): 24.73 | |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 11.16 | | Free Product Thickness (ft.): — | |
| Length of water column (LWC = TWD-DGW)(ft.): 13.57 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals) | 5 casing volumes (5*CV)(gals) — | |

### Purging Data

| | Initial | 1st Vol | 2nd Vol | 3rd Vol | 4th Vol | 5th Vol | Dest | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1152 | | | | | | | |
| pH (s.u.) | 5.83 | | | | | | | |
| Specific Conductivity (µS/cm) | 364.0 | | | | | | | |
| Water Temperature (°C) | 20.18 | | | | | | | |
| Turbidity (NTU) | 214.0 | | | | | | | |
| Dissolved Oxygen (mg/L) | 1.46 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kyle Perry | Sampling Time: 1153 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Historically Hot!

NC Purge.

Signature: Kyle Perry

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~Hydac~~ (pH, Specific Conductivity, Temperature) | 11B100638 | pH 4.0: (Y) or N | pH 7.0 (Y) or N | pH 10.0 (Y) or N | S.C. (Y) or N |
| ~~Hydac~~ (Dissolved Oxygen) YSI 556 | | Y or N | | | |
| ~~Hydac~~ (Turbidity) Hach 2100Q | 16030C048860 | 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: X Bailer Pump |
|---|---|---|---|
| MW-17R | 2" | | |

X MW IW RW Other
Private WSW Public WSW

| Screened Interval (ft.) | Total Well Depth (TWD) (ft.) | Depth to Free Product (DFP) (ft.) | Depth to Groundwater (DGW) (ft.) | Free Product Thickness (ft.) |
|---|---|---|---|---|
| 10 to 25 | ~~24.43~~ 24.95 | — | 10.61 | — |

| Length of water column (LWC = TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals) | 5 casing volumes (5*CV)(gals) |
|---|---|---|---|
| 14.34 | | | — |

### Purging Data

| | Initial | 1st Vol | 2nd Vol. | 3rd Vol | 4th Vol. | 5th Vol | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1701 | | | | | | | |
| pH (s.u.) | 5.35 | | | | | | | |
| Specific Conductivity (µS/cm) | 71.0 | | | | | | | |
| Water Temperature (°C) | 19.93 | | | | | | | |
| Turbidity (NTU) | 219.3 | | | | | | | |
| Dissolved Oxygen (mg/L) | 1.53 | | | | | | | |

### Sampling Data

| Sampled By | Sampling Time | Duplicate: Y or (N) | If yes, Duplicate Time |
|---|---|---|---|
| Kyle Perry | 1702 | | |

Notes: Historically Hot!
No Purge.

Signature: Kyle Perry

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# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI/ID~~ (pH, Specific Conductivity, Temperature) | 11B100638 | pH 4.0: (Y) or N | pH 7.0 (Y) or N | pH 10.0 (Y) or N | S.C.: (Y) or N |
| ~~YSI/ID~~ (Dissolved Oxygen) YSI 556 | | Y or N | | | |
| ~~LaMotte~~ (Turbidity) Hach 2100Q | 16030C048860 | 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-18R | 2" | | X Bailer Pump |

X MW IW RW Other
Private WSW Public WSW

| Screened Interval (ft.) | Total Well Depth (TWD) (ft.) |
|---|---|
| 10 to 25 | 25.30 |

| Depth to Free Product (DFP) (ft.) | Depth to Groundwater (DGW) (ft.) | Free Product Thickness (ft.) |
|---|---|---|
| — | 13.37 | — |

| Length of water column (LWC = TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |
|---|---|---|---|
| 11.93 | | | — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol | 5th Vol | Pred. | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1143 | | | | | | | |
| pH (s.u.) | 5.18 | | | | | | | |
| Specific Conductivity (µS/cm) | 67.0 | | | | | | | |
| Water Temperature (°C) | 21.77 | | | | | | | |
| Turbidity (NTU) | 58.2 | | | | | | | |
| Dissolved Oxygen (mg/L) | 3.15 | | | | | | | |

### Sampling Data

| Sampled By: Kyle Perry | Sampling Time: 1144 | Duplicate: Y or (N) | If yes, Duplicate Time: |
|---|---|---|---|

Notes: No Purge

Signature: Kyle Perry

3A

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 556~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) YSI 556 | | Y or N | | | |
| ~~Hach 2100Q~~ (Turbidity) Hach 2100Q | 16030C048860 | 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

| Screened Interval (ft.) | Total Well Depth (TWD) (ft.) |
|---|---|
| 10 to 25 | |

| 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*C)(gals): | 3 casing volumes 3*CV)(gals) | 5 casing volumes (5*CV)(gals) |
|---|---|---|---|
| | | | — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol | 5th Vol | Dried | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| pH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| Sampled By | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time: |
|---|---|---|---|
| Kyle Perry | | | |

Notes: Not Accessible.

Signature: Kyle Perry

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 63~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) YSI 556 | | Y or N | | | |
| ~~Hach~~ (Turbidity) Hach 2100Q | 16030C048860 | 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-20 | 2" | | X Bailer Pump |
| X MW IW RW Other | | | |
| Private WSW Public WSW | | | |

| Screened Interval (ft.) | Total Well Depth (TWD) (ft.) | Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.) | Free Product Thickness (ft.) |
|---|---|---|---|---|
| 10 to 25 | | — | | — |

| Length of water column (LWC = TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals) |
|---|---|---|---|
| | | | — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| pH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| Sampled By | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time: |
|---|---|---|---|
| Kyle Perry | | | |

Notes: Not Accessible.

Signature: Kyle Perry

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 556~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) YSI 556 | | Y or N | | | |
| ~~Hach 2100Q~~ (Turbidity) Hach 2100Q | 16030C048860 | 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 Bailer Pump |

X MW IW RW Other
Private WSW Public WSW

| Screened Interval (ft.) | Total Well Depth (TWD) (ft.) |
|---|---|
| 8 to 23 | 21.30 |

| Depth to Free Product (DFP) (ft.) | Depth to Groundwater (DGW) (ft.) | Free Product Thickness (ft.) |
|---|---|---|
| — | 11.06 | — |

| Length of water column (LWC = TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |
|---|---|---|---|
| 10.24 | | | — |

### Purging Data

| | Initial | 1st Vol | 2nd Vol | 3rd Vol | 4th Vol | 5th Vol | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1456 | | | | | | | |
| pH (s.u.) | 5.01 | | | | | | | |
| Specific Conductivity (µS/cm) | 29.0 | | | | | | | |
| Water Temperature (°C) | 20.72 | | | | | | | |
| Turbidity (NTU) | 71.1 | | | | | | | |
| Dissolved Oxygen (mg/L) | 6.78 | | | | | | | |

### Sampling Data

| Sampled By: Kyle Perry | Sampling Time: 1451 | Duplicate: Y or (N) | If yes, Duplicate Time: |
|---|---|---|---|

Notes: No Purge

Signature: Kyle Perry

dhec

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/3/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI/ID~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) YSI 556 | | Y or N | | | |
| ~~Hach~~ (Turbidity) Hach 2100Q | 16030C048860 | 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-22 | 2" | | X Bailer Pump |

X MW IW RW Other
Private WSW Public WSW

| Screened Interval (ft.) | Total Well Depth (TWD) (ft.) |
|---|---|
| 10 to 25 | |

| 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals) |
|---|---|---|---|
| | | | — |

### Purging Data

| | Initial | 1st Vol | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol | Pred | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| pH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| Sampled By: Kyle Perry | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time: |
|---|---|---|---|

Notes: Not Found

Signature: Kyle Perry

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~pH~~ (pH, Specific Conductivity, Temperature) | 11B100638 | pH 4.0: (Y) or N | pH 7.0 (Y) or N | pH 10.0 (Y) or N | S.C. (Y) or N |
| ~~DO~~ (Dissolved Oxygen) YSI 556 | | Y or N | | | |
| ~~Turbidity~~ (Turbidity) Hach 2100Q | 160300048860 | 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.): 22.32 | |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 11.46 | Free Product Thickness (ft.): — | |
| Length of water column (LWC = TWD-DGW)(ft.): 10.86 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol | Dried | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1501 | | | | | | | |
| pH (s.u.) | 4.58 | | | | | | | |
| Specific Conductivity (µS/cm) | 440 | | | | | | | |
| Water Temperature (°C) | 20.78 | | | | | | | |
| Turbidity (NTU) | 352.5 | | | | | | | |
| Dissolved Oxygen (mg/l) | 2.14 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kyle Perry | Sampling Time: 1502 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: No Purge.

Signature: Kyle Perry

dhec

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny / Cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: |
|---|---|---|
| ~~YSI 63~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) USI 556 | | Y or N |
| ~~LaMotte~~ (Turbidity) Hach 2100Q | 16030C048860 | 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.): 20.86 |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 9.31 | | Free Product Thickness (ft.): — |
| Length of water column (LWC=TWD-DGW)(ft.): 11.55 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals) | 5 casing volumes (5*CV)(gals): — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1512 | | | | | | | |
| PH (s.u.) | 5.05 | | | | | | | |
| Specific Conductivity (µS/cm) | 330 | | | | | | | |
| Water Temperature (°C) | 20.42 | | | | | | | |
| Turbidity (NTU) | 148.4 | | | | | | | |
| Dissolved Oxygen (mg/L) | 5.47 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kyle Perry | Sampling Time: 1513 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes:

No Purge.

Signature: [signature]

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 556~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) YSI 556 | | Y or N | | | |
| ~~Hach~~ (Turbidity) Hach 2100Q | 16030C048860 | 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<br>Private WSW Public WSW | Screened Interval (ft.): 8 to 23 | Total Well Depth (TWD) (ft.): 20.96 | |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 9.42 | Free Product Thickness (ft.): — | |
| Length of water column (LWC = TWD-DGW)(ft.): 11.54 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals) | 5 casing volumes (5*CV)(gals): — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol | 5th Vol | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1545 | | | | | | | |
| pH (s.u.) | 5.24 | | | | | | | |
| Specific Conductivity (µS/cm) | 48.0 | | | | | | | |
| Water Temperature (°C) | 20.29 | | | | | | | |
| Turbidity (NTU) | 158.7 | | | | | | | |
| Dissolved Oxygen (mg/L) | 1.57 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kyle Perry | Sampling Time: 1546 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: No Purge.

Signature: Kyle Perry

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~Hydac~~ (pH, Specific Conductivity, Temperature) | 11B100638 | pH 4.0: (Y) or N | pH 7.0 (Y) or N | pH 10.0 (Y) or N | S.C.: (Y) or N |
| ~~Hydac~~ (Dissolved Oxygen) YSI 556 | | Y or N | | | |
| ~~Hydac~~ (Turbidity) Hach 2100Q | 16030C048860 | 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.) | Total Well Depth (TWD) (ft.) |
|---|---|
| 6 to 21 | 19.48 |

| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): | Free Product Thickness (ft.): |
|---|---|---|
| — | 8.91 | — |

| Length of water column (LWC = TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |
|---|---|---|---|
| 10.57 | | | — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Dup. | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1557 | | | | | | | |
| pH (s.u.) | 5.36 | | | | | | | |
| Specific Conductivity (µS/cm) | 49.0 | | | | | | | |
| Water Temperature (°C) | 19.47 | | | | | | | |
| Turbidity (NTU) | 178.3 | | | | | | | |
| Dissolved Oxygen (mg/L) | 1.90 | | | | | | | |

### Sampling Data

| Sampled By: Kyle Perry | Sampling Time: 1558 | Duplicate: Y or (N) | If yes, Duplicate Time: |
|---|---|---|---|

Notes: No Purge.

Signature: Kyle Perry

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 556~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) YSI 556 | | Y or N | | | |
| ~~Hach~~ (Turbidity) Hach 2100Q | 16030C048860 | 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: X Bailer / Pump |
|---|---|---|---|
| MW-27 | 2" | | |

X MW / IW / RW / Other
Private WSW / Public WSW

| Screened Interval (ft.) | Total Well Depth (TWD) (ft.) |
|---|---|
| 10 to 25 | 14.52 |

| Depth to Free Product (DFP) (ft.) | Depth to Groundwater (DGW) (ft.) | Free Product Thickness (ft.) |
|---|---|---|
| — | 3.27 | — |

| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |
|---|---|---|---|
| 11.25 | | | — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Dup. | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1534 | | | | | | | |
| PH (s.u.) | 4.72 | | | | | | | |
| Specific Conductivity (µS/cm) | 470 | | | | | | | |
| Water Temperature (°C) | 20.73 | | | | | | | |
| Turbidity (NTU) | 79.0 | | | | | | | |
| Dissolved Oxygen (mg/L) | 5.02 | | | | | | | |

### Sampling Data

| Sampled By: Kyle Perry | Sampling Time: 1535 | Duplicate: Y or (N) | If yes, Duplicate Time: |
|---|---|---|---|

Notes: No Purge.

Signature: Kyle Perry

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | | |
|---|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. | |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° | |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 63~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) YSI 556 | | Y or N | | | |
| ~~Hach~~ (Turbidity) Hach 2100Q | 16030C048860 | 0.0 NTU: (Y) or N | 1.0 NTU (Y) or N | 100 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-28 | 2" | | X Bailer Pump |

X MW IW RW Other
Private WSW Public WSW

| Screened Interval (ft.) | Total Well Depth (TWD) (ft.) |
|---|---|
| 10 to 25 | 21.47 |

| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): | Free Product Thickness (ft.): |
|---|---|---|
| — | 13.63 | — |

| Length of water column (LWC = TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals) | 5 casing volumes (5*CV)(gals) |
|---|---|---|---|
| 7.84 | | | — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1523 | | | | | | | |
| pH (s.u.) | 4.68 | | | | | | | |
| Specific Conductivity (µS/cm) | 180.0 | | | | | | | |
| Water Temperature (°C) | 21.78 | | | | | | | |
| Turbidity (NTU) | 84.3 | | | | | | | |
| Dissolved Oxygen (mg/L) | 6.23 | | | | | | | |

### Sampling Data

| Sampled By: Kyle Perry | Sampling Time: 1524 | Duplicate: Y or (N) | If yes, Duplicate Time: |
|---|---|---|---|

Notes: No Purge.

Signature: Kyle Perry

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# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 63~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) YSI 556 | | Y or N | | | |
| ~~Turbidity~~ (Turbidity) Hach 2100Q | 16030C048860 | 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 Pumping/Sample Collection: |
|---|---|---|---|
| MW-29 | 2" | | X Bailer Pump |

X MW IW RW Other
Private WSW Public WSW

| Screened Interval (ft.) | Total Well Depth (TWD) (ft.) |
|---|---|
| 10 to 25 | |

| 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |
|---|---|---|---|
| | | | — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Field | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| pH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| Sampled By: Kyle Perry | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time: |
|---|---|---|---|

Notes:
Not found.

Signature: Kyle Perry

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/ 2 /2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ S. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration. | | | |
|---|---|---|---|---|---|
| ~~pH/ORP~~ (pH, Specific Conductivity, Temperature) | 11B100638 | pH 4.0 (Y) or N | pH 7.0 (Y) or N | pH 10.0 (Y) or N | S.C. (Y) or N |
| ~~pH/DO~~ (Dissolved Oxygen) YSI 556 | | Y or N | | | |
| ~~Turbidity~~ (Turbidity) Hach 2100Q | 16030C048860 | 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-30 | 2" | | X Bailer Pump |

X MW IW RW Other
Private WSW Public WSW

| Screened Interval (ft.) | Total Well Depth (TWD) (ft.) |
|---|---|
| 7 to 22 | |

| 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*C)(gals): | 3 casing volumes 3*CV)(gals) | 5 casing volumes (5*CV)(gals) |
|---|---|---|---|
| | | | — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| pH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| Sampled By: Kyle Perry | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time: |
|---|---|---|---|

Notes:
Not Found.

Signature: Kyle Perry

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| | | | | |
|---|---|---|---|---|
| Meter Name | Serial #: | Calibration: | | |
| ~~YSI 556~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) YSI 556 | | Y or N | | |
| ~~Hach~~ (Turbidity) Hach 2100Q | 16030C048860 | 0.0 NTU: (Y) or N | 1.0 NTU (Y) or N | 10.0 NTU (Y) or N |

### Well Information

| | | | | |
|---|---|---|---|---|
| Well ID: MW-3i | 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<br>Private WSW Public WSW | | Screened Interval (ft.): 10 to 20 | | Total Well Depth (TWD) (ft.): 20.21 |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 12.53 | | | Free Product Thickness (ft.): — |
| Length of water column (LWC = TWD-DGW)(ft.): 7.68 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals) | | 5 casing volumes (5*CV)(gals): — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol | 5th Vol | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1439 | | | | | | | |
| pH (s.u.) | 4.79 | | | | | | | |
| Specific Conductivity (µS/cm) | 47.0 | | | | | | | |
| Water Temperature (°C) | 21.56 | | | | | | | |
| Turbidity (NTU) | 106.5 | | | | | | | |
| Dissolved Oxygen (mg/L) | 6.15 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kyle Perry | Sampling Time: 1440 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: No Purge.

Signature: Kyle Perry

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 556~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) YSI 556 | | Y or N | | | |
| ~~LaMotte~~ (Turbidity) Hach 2100Q | 16030C048860 | 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-1A | 2" | | X Bailer Pump |

X MW IW RW Other
Private WSW Public WSW

| Screened Interval (ft.) | Total Well Depth (TWD) (ft.) | Depth to Free Product (DFP) (ft.) | Depth to Groundwater (DGW) (ft.) | Free Product Thickness (ft.) |
|---|---|---|---|---|
| to Unknown | 21.25 | — | 10.64 | — |

| Length of water column (LWC = TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals) |
|---|---|---|---|
| 10.61 | 1.75 | 5.25 | — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol | 3rd Vol. | 4th Vol. | 5th Vol | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | 1.75 | 3.50 | 5.25 | | | | |
| Time (military) | 1029 | | | | | | | |
| pH (s.u.) | 6.33 | | | | | | | |
| Specific Conductivity (µS/cm) | 164.0 | | | | | | | |
| Water Temperature (°C) | 19.21 | | | | | | | |
| Turbidity (NTU) | 157.2 | | | | | | | |
| Dissolved Oxygen (mg/L) | 1.84 | | | | | | | |

### Sampling Data

Sampled By: Kyle Perry | Sampling Time: 1041 | Duplicate: Y or (N) | If yes, Duplicate Time:

Notes: Historically Hot!
Sheen developed - no parameters taken after initial volume

Signature: Kyle Perry

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny / Cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI 556~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) YSI 556 | | Y or N | | | |
| ~~Turbidity~~ (Turbidity) Hach 2100Q | 16030C048860 | 0.0 NTU: (Y) or N | 1.0 NTU: (Y) or N | 10.0 NTU: (Y) or N | |

### Well Information

| Well ID | Well Diameter (IL): | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: |
|---|---|---|---|
| MW-2A | 2" | | X Bailer Pump |

X MW IW RW Other
Private WSW Public WSW

| Screened Interval (ft) | Total Well Depth (TWD) (ft) | Depth to Free Product (DFP) (ft.) | Depth to Groundwater (DGW) (ft) | Free Product Thickness (ft) |
|---|---|---|---|---|
| ~~10~~ Unknown | 20.81 | — | 10.93 | — |

| Length of water column (LWC=TWD-DGW)(ft): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals) | 5 casing volumes (5*CV)(gals) |
|---|---|---|---|
| 9.88 | 1.50 | 4.50 | — |

### Purging Data

| | Initial | 1st Vol | 2nd Vol | 3rd Vol | 4th Vol | 5th Vol | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | 1.50 | 3.0 | 4.50 | | | | |
| Time (military) | | | | | | | | |
| pH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| Sampled By | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time |
|---|---|---|---|
| Kyle Perry | 1055 | | |

Notes: Historically Hot!

Sheen Tester - no parameters taken.

Signature: Kyle Perry

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration. | | | |
|---|---|---|---|---|---|
| ~~YSI 556~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) YSI 556 | | Y or N | | | |
| ~~Hach~~ (Turbidity) Hach 2100Q | 16030C048860 | 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<br>Private WSW Public WSW | Screened Interval (ft.): ~~to~~ Unknown | 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Dry | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| pH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

Sampled By: Kyle Perry | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time:

Notes: Historically Hot!

Duct Found.

Signature: Kyle Perry

2

dhec

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny / Cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~[illegible]~~ (pH, Specific Conductivity, Temperature) | 11B100638 | pH 4.0: (Y) or N | pH 7.0: (Y) or N | pH 10.0: (Y) or N | S.C.: (Y) or N |
| ~~[illegible]~~ (Dissolved Oxygen) USI 556 | | Y or N | | | |
| ~~[illegible]~~ (Turbidity) Hach 2100Q | 16030C048860 | 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~~ unknown | Total Well Depth (TWD) (ft.): 70.76 |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 11.01 | | Free Product Thickness (ft.): — |
| Length of water column (LWC=TWD-DGW)(ft.): 9.75 | 1 casing volume (CV=LWC*C)(gals): 1.50 | 3 casing volumes 3*CV)(gals): 4.50 | 5 casing volumes (5*CV)(gals): — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | 1.50 | 3.0 | 4.50 | | | | |
| Time (military) | | | | | | | | |
| [illegible] | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kyle Perry | Sampling Time: 1109 | Duplicate: (Y) or N | If yes, Duplicate Time: 1201 |

Notes: Historically Hot!

Sheen/odor - no parameters taken.

Signature: [signature]



SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P. / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~Hach~~ (pH, Specific Conductivity, Temperature) | 11B100638 | pH 4.0: (Y) or N | pH 7.0: (Y) or N | pH 10.0 (Y) or N | S.C (Y) or N |
| ~~Hach~~ (Dissolved Oxygen) YSI 556 | | Y or N | | | |
| ~~Hach~~ (Turbidity) Hach 2100Q | 16030CC48860 | 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 |
| MW IW RW X Other TW=telescoping well<br>Private WSW Public WSW | Screened Interval (ft.): 41 to 46 | | Total Well Depth (TWD) (ft.): 42.62 |
| Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 12.02 | | Free Product Thickness (ft.): — |
| Length of water column (LWC=TWD-DGW)(ft.): 30.60 | 1 casing volume (CV=LWC*C)(gals): 5.0 | 3 casing volumes 3*CV)(gals): 15.0 | 5 casing volumes (5*CV)(gals): — |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | 5.0 | 10.0 | 15.0 | | | | |
| Time (military) | 1112 | 1119 | 1126 | 1133 | | | | |
| pH (s.u.) | 5.50 | 5.52 | 5.40 | 5.41 | | | | |
| Specific Conductivity (µS/cm) | 86.0 | 86.0 | 85.0 | 86.0 | | | | |
| Water Temperature (°C) | 21.80 | 21.39 | 20.99 | 21.25 | | | | |
| Turbidity (NTU) | 70.9 | 34.7 | 26.4 | 24.1 | | | | |
| Dissolved Oxygen (mg/L) | 2.11 | 1.44 | 1.09 | 1.65 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kyle Perry | Sampling Time: 1134 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes:

Signature: Kyle Perry

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 04/13/2021 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Kyle P / DJ J. |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny / cloudy | Ambient Air Temp (°F): 55 - 90° |

### Quality Assurance

| Meter Name | Serial #: | Calibration: | | | |
|---|---|---|---|---|---|
| ~~YSI/ID~~ (pH, Specific Conductivity, Temperature) | 11B100638 | 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) YSI 556 | | Y or N | | | |
| ~~LaMotte~~ (Turbidity) Hach 2100Q | 16030C048860 | 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 |
| MW IW RW X Other TW=telescoping well<br>Private WSW Public WSW | Screened Interval (ft.): 46 to 51 | | Total Well Depth (TWD) (ft.): 114.50 |
| Depth to Free Product (DFP) (ft.): – | Depth to Groundwater (DGW) (ft.): 10.71 | | Free Product Thickness (ft.): – |
| Length of water column (LWC = TWD-DGW)(ft.): 33.79 | 1 casing volume (CV=LWC*C)(gals): 5.50 | 3 casing volumes 3*CV)(gals): 16.50 | 5 casing volumes (5*CV)(gals): – |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | 5.50 | 11.0 | 16.50 | | | | |
| Time (military) | 1408 | 1414 | 1421 | 1428 | | | | |
| pH (s.u.) | 5.34 | 5.29 | 5.37 | 5.42 | | | | |
| Specific Conductivity (µS/cm) | 28.0 | 48.0 | 117.0 | 119.0 | | | | |
| Water Temperature (°C) | 21.42 | 20.93 | ~~23.62~~ 21.45 | 21.17 | | | | |
| Turbidity (NTU) | 106.1 | 147.2 | 191.2 | 209.8 | | | | |
| Dissolved Oxygen (mg/L) | 3.93 | 3.27 | ~~LP 6.45~~ 2.39 | 2.51 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Kyle Perry | Sampling Time: 1429 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Historically Hot!

Signature: Kyle Perry

**APPENDIX C**

Disposal Manifest

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

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator ID Number | 2. Page 1 of 1 | 3. Emergency Response Phone 910-640-2607 | 4. Waste Tracking Number W210553W#3 |
|---|---|---|---|---|

**GENERATOR**

5. Generator's Name and Mailing Address: **Tisdale's Quick Stop**, **1989 Thurgood Marshall Blvd**, **Kingstree, SC 29556**
Generator's Phone: **(704)845-4010**

Generator's Site Address (if different than mailing address): **3502 Hayes Road**, **Monroe, NC 28110**

6. Transporter 1 Company Name: **Hazmat Emergency Response & Remediation** — U.S. EPA ID Number: **NCR000319816**

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: **Hazmat Emergency Response & Remediation Inc.**, **303 South Maultsby Street**, **Whiteville, NC 28472**
Facility's Phone: **(910) 640-2607** — U.S. EPA ID Number: **NCR000319816**

| | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | |
|---|---|---|---|---|---|---|
| 1. | NON D.O.T., Regulated Material, (Purge Water) | 1 | DM | ~~16.5~~ 54 | G | |
| 2. | | | | | | |
| 3. | | | | | | |
| 4. | | | | | | |

13. Special Handling Instructions and Additional Information

1.) 1 x 55 DM

**HERR Job # W210553-W**

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Samuel Bowers — Signature: [signature] — Month: 5 Day: 12 Year: 21

**INT'L**

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Chris Pridgen — Signature: Chris Pridgen — Month: 05 Day: 12 Year: 21

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

**DESIGNATED FACILITY**

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Ryan Cox — Signature: [signature] — Month: 5 Day: 12 Year: 21

**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 4) | X | | |
| 40 | Has the site potentiometric map been provided? (Figure 3) | 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? | | | X |
| 44 | Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix A) | X | | |
| 45 | Is the laboratory performing the analyses properly certified? | X | | |
| 46 | Has the tax map been included with all necessary elements? | | | X |
| 47 | Have the soil boring/field screening logs been provided? | | | X |
| 48 | Have the well completion logs and SCDHEC Form 1903 been provided? | | | X |
| 49 | Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? | | | X |
| 50 | Have the disposal manifests been provided? (Appendix C) | X | | |
| 51 | Has a copy of the local zoning regulations been provided? | | | X |
| 52 | Has all fate and transport modeling been provided? | | | X |
| 53 | Have copies of all access agreements obtained by the contractor been provided? | | | 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? (Appendix D) | X | | |

Explanation for missing or incomplete information

Geological Resources, Inc.

UST 79T DOCKETING

January 6, 2003

Mr. Konstantine Akhvlediani
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201-1708

RECEIVED
JAN 08 2003
UNDERGROUND STORAGE
TANK PROGRAM

Re: Tier II ACCA Addendum
Tisdale Quick Stop
Kingstree, Williamsburg County
UST Permit #: 18686
CA #: 15924
GRI Proposal #: 02-148-EC

Dear Mr. Akhvlediani:

Per your request in a telephone conversation on January 2, 2003, please find enclosed an ACCA Addendum to CA #: 15924 to conduct additional assessment activities at the above referenced site. The requested additions to the current Tier II ACCA are as follows:

- An additional 725 feet of field screening footage are requested. A total of 846 feet were originally approved. However, 1,459 feet were used to delineate the horizontal extent of the contaminant plume. An estimated 88 feet will be needed to collect laboratory confirmed field screening samples along the down-gradient edge of the plume prior to monitoring well installation.
- An additional 725 feet of abandonment is requested.
- An additional 360 feet of drilled monitoring well footage is requested. A total of 250 feet were originally approved and 109.5 feet have already been used, leaving 140.5 feet. The additional well footage will be used to install a total of 20 Type III monitoring wells to total depths of 25 feet each.
- An additional 51 feet of telescoping well footage is requested to install one telescoping monitoring well to define the vertical extent of the down-gradient portion of the contaminant plume.
- An additional 17 ground water sample collections are requested: A total of 16 were originally approved. The total of 33 samples will include the four monitoring wells installed during IGWA and Tier I Assessment activities (MW-1 through MW-4), the five monitoring wells installed thus far under the current Tier II cost agreement (MW-5 through MW-9), the source area telescoping well (TW-1), the on-site water supply well (WSW-1), the additional 20 proposed Type III monitoring wells, the proposed down-gradient telescoping well and the recently identified water supply well (WSW-2) located approximately 50 feet west of FSP-39.
- An additional 17 Method 8260B and Method 8011 ground water sample analyses are requested: A total of 16 were originally approved.
- One additional lead ground water sample analysis is requested for WSW-2.

4913 Albemarle Road Suite 101 Charlotte, NC 28205
Phone: (704) 563-1663 / (888) 870-4133 Fax: (704) 563-1662
www.geologicalresourcesinc.com

- An estimated 4 rush BTEX analyses are requested for confirmatory analyses of ground water samples collected from temporary wells installed at the down-gradient edge of the plume.
- An additional 14 nitrate and sulfate ground water sample analyses are requested; 16 were originally approved. The total of 30 will be used to sample all monitoring wells associated with the release. The two water supply well samples will not be analyzed for nitrate or sulfate.
- Given the horizontal extent of the contaminant plume, two additional slug tests are requested to ensure accurate aquifer data for modeling purposes.
- An additional 10 wastewater drums are requested for for the purging and sampling of the additional monitoring wells.
- An additional 25 soil drums are requested for soil generated during monitoring well installation.
- Due to the extent of the contaminant plume, 2 additional comprehensive surveys have been requested to accurately survey the locations of screening points, monitoring wells and other physical features in the area of the plume and to measure top of casing elevations.

Please do not hesitate to contact the undersigned at (704) 563-1663 if you have any comments or questions concerning this project.

Sincerely,
Geological Resources, Inc.

Mark Filardi
Project Geologist

John F. Hess, Jr., P.G.
Senior Geologist

enclosures

cc: file

## ASSESSMENT COMPONENT COST AGREEMENT

**SOUTH CAROLINA**
**Department of Health and Environmental Control**
**Bureau of Underground Storage Tank Management**
**State Underground Petroleum Environmental Response Bank**

UST Facility Name: Tisdale Quick Stop
UST Permit#: 18686 CA#: 15924

| ITEM | QUANTITY | UNIT | UNIT PRICE | TOTAL |
|---|---|---|---|---|
| 1. Plan* | | | | |
| A. Plan Preparation | | x | $100.00 | $0.00 |
| B. Tax Maps | | x | $50.00 | $0.00 |
| 2. Receptor Survey* | | x | $500.00 | $0.00 |
| 3. Comprehensive Survey | 2 | x | $1,000.00 | $2,000.00 |
| 4. Mob/Demob (List component #) | | | | |
| A. Equipment (6,9B) | 2 | x | $500.00 | $1,000.00 |
| B. Personnel (6,9B) | 2 | x | $250.00 | $500.00 |
| 5. Soil Borings (hand auger)* | | feet x | $14.00 | $0.00 |
| 6. Soil Borings (drilled) | (includes collection and quantification) | | | |
| and Field Screening* | 725 | feet x | $17.00 | $12,325.00 |
| 7. Soil Leachability Model | | x | $200.00 | $0.00 |
| 8. Abandonment* | 725 | feet x | $4.00 | $2,900.00 |
| 9. Well Installation | (includes drilling costs) | | | |
| A. Water Table (hand auger) | | feet x | $20.00 | $0.00 |
| B. Water Table (drilled) | 360 | feet x | $38.00 | $13,680.00 |
| C. Telescoping | 51 | feet x | $58.00 | $2,958.00 |
| D. Rock Drilling | | feet x | $58.00 | $0.00 |
| 10. Ground-water sample collection* | 17 | samples x | $55.00 | $935.00 |
| A. Ground-water | | samples x | | |
| B. Air/Vapor | | samples x | | |
| 11. Analyses - Groundwater | (See Analytical Methadology for analyses) | | | |
| A. BTEX + Napth. + MTBE | 17 | samples x | $100.00 | $1,700.00 |
| B. Rush BTEX Analysis | 4 | samples x | $90.00 | $360.00 |
| C. BTEX + Napth + MTBE Trimethylbenzene | | samples x | $135.00 | $0.00 |
| D. PAH's | | samples x | $120.00 | $0.00 |
| E. Lead | 1 | samples x | $20.00 | $20.00 |
| F. EDB | 17 | samples x | $55.00 | $935.00 |
| G. 8 RCRA Metals | | samples x | $140.00 | $0.00 |
| H. TPH (9070) | | samples x | $55.00 | $0.00 |
| I. pH | | samples x | $10.00 | $0.00 |
| J. BOD | | samples x | $40.00 | $0.00 |
| K. Nitrate | 16 | samples x | $20.00 | $320.00 |
| L. Sulfate | 16 | samples x | $20.00 | $320.00 |
| M. Ferrous Iron | | samples x | $20.00 | $0.00 |
| N. Methane | | samples x | $110.00 | $0.00 |
| O. Organic Lead | | samples x | $100.00 | $0.00 |
| P. 8 Oxygenates | | samples x | $85.00 | |
| Analyses - Soil | | | | |
| O. BTEX + Napth. | | samples x | $100.00 | $0.00 |
| P. PAH's | | samples x | $120.00 | $0.00 |
| Q. 8 RCRA Metals | | samples x | $150.00 | $0.00 |
| R. TPH (9071) | | samples x | $60.00 | $0.00 |
| S. TPH (3550) | | samples x | $65.00 | $0.00 |
| T. TPH (5035) | | samples x | $65.00 | $0.00 |
| U. Grain size/hydrometer | | samples x | $75.00 | $0.00 |
| V. Total Organic Carbon | | samples x | $35.00 | $0.00 |

| ASSESSMENT COMPONENT COST PROPOSAL | | | | |
|---|---|---|---|---|
| 12. Aquifer Characterization* | | | | |
| A. Pumping Test | | hours x | $120.00 | $0.00 |
| B. Slug Test | 2 | tests x | $150.00 | $300.00 |
| 13. Free Product Recovery Rate Test* | | tests x | $120.00 | $0.00 |
| 14. Fate/Transport Modeling | | | | |
| A. Mathematical Model | | models x | $300.00 | $0.00 |
| B. Computer Model | | models x | $500.00 | $0.00 |
| 15. Risk Evaluation | | | | |
| A. Tier I | | x | $300.00 | $0.00 |
| B. Tier II | | x | $500.00 | $0.00 |
| 16. Subsequent Survey* | | x | $260.00 | $0.00 |
| 17. Disposal | | | | |
| A. Wastewater | | | | |
| 1. Purging/Sampling | 10 | drums x | $90.00 | $900.00 |
| 2. Pumping Test | | gallons x | $0.60 | $0.00 |
| B. Free Product | | drums x | $110.00 | $0.00 |
| C. Soil (Treatment/Disposal)* | | tons x | $50.00 | $0.00 |
| | 25 | drums x | $50.00 | $1,250.00 |
| 18. Miscellaneous* | | | | |
| | | x | | $0.00 |
| | | x | | $0.00 |
| | | x | | $0.00 |
| | | x | | $0.00 |
| 19. Report/Project Management | | | (SUBTOTAL) | $42,403.00 |
| and Coordination | $42,403.00 | x | 0.15 | $6,360.45 |
| 20. Total | | | | $48,763.45 |

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

dhec
Healthy People. Healthy Communities.

AUG 31 2021

MARTY EASLER
196 RICHBURG RD
GREELEYVILLE SC 29056

Re: **Aggressive Fluid and Vapor Recovery Notice to Proceed**
Tisdales Quick Stop, 1989 Thurgood Marshall Boulevard, Kingstree, SC
UST Permit #18686; CA #64312
Release reported March 30, 2001
Monitoring Report received June 4, 2021
Williamsburg County

Dear Mr. Easler:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the above referenced report which documents free-phase product (FPP) or Chemicals of Concern (CoC) in the subsurface as a result of the above referenced release.

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations R.61-92, an Aggressive Fluid and Vapor Recovery (AFVR) event may proceed immediately upon receipt of this letter as outlined in this directive and the current revision of the UST Quality Assurance Program Plan (QAPP). One 96-hour event utilizing recovery and monitoring wells RW-1, RW-2, and MW-2A should be performed. The stingers should be lowered to an elevation just above the air/product interface and then adjusted throughout the event to maximize the recovery of petroleum hydrocarbons and minimize fluid recovery. Off-gas treatment will be necessary. For the most updated AFVR procedures, refer to Section B1.IV.g of the UST QAPP. **Any variance from the procedures will be approved on a site specific basis and should be submitted to the UST Division in writing.**

**Please notify the Project Manager as soon as the event has been scheduled.**

**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.

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 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 CoC concentrations, based on laboratory analysis, are below Risk Based Screening Levels, 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 the UST Permit number above. Should you have any questions, please contact me by phone at (803) 898-0500, by fax at (803) 898-0673, or by email at brownaj@dhec.sc.gov.

Sincerely,

Arthur Brown, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

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

# Approved Cost Agreement 64312

Facility: 18686 TISDALES QUICK STOP
BROWNAJ
PO Number:

| Task / Description | Categories | Item Description | Qty / Pct | Unit Price | Amount |
|---|---|---|---|---|---|
| S REPORT PROJECT MANAGEMENT | | | | | |
| | | S REPORT PREP & PROJ. MANAGEMENT | 0.1200 | $24,276.380 | 2,913.17 |
| W AFVR | | | | | |
| | | 14 AFVR SITE RECONNAISSANCE | 1.0000 | $216.870 | 216.87 |
| | | 16 AFVR EFFLUENT DISPOSAL | 20,000.0000 | $0.470 | 9,400.00 |
| | | 17 AFVR MOB - DEMOB | 1.0000 | $417.730 | 417.73 |
| | | 4 96 HOUR EVENT | 1.0000 | $13,409.520 | 13,409.52 |
| | | 8 OFF GAS TREATMENT 96 HOUR | 1.0000 | $832.260 | 832.26 |
| | | | **Total Amount** | | 27,189.55 |

**Geological Resources, Inc.**

UST DOCKETING

RECEIVED
OCT 28 2021
UST DIVISION

October 25, 2021

Mr. Arthur Brown, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Re: AFVR Report
Tisdale's Quick Stop (Former)
1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County
UST Permit #18686
Cost Agreement #64312
GRI Project No. 1543

Dear Mr. Brown:

The purpose of this report is to present the results of aggressive fluid and vapor recovery (AFVR) activities conducted in October 2021 at the above referenced site (**Figure 1**). The activities were conducted in accordance with the requirements outlined in correspondence from the SCDHEC dated August 31, 2021 and addressed to Mr. Marty Easler. The purpose of the activities was to conduct a 96-hour AFVR event on recovery wells RW-1 and RW-2 and monitoring well MW-2A. The following Figures, Tables and Appendix have been included:

| | |
|---|---|
| Figure 1: | Site Location Map |
| Figure 2: | Site Map |
| Table 1: | AFVR Event Chronology (10/4/2021 – 10/8/2021) |
| Table 2 : | Summary of AFVR Event Gauging Data (10/4/2021 – 10/8/2021) |
| Appendix A: | AFVR Report, Calculations, Disposal Manifests/Stick Readings, Tank Charts, Photographs |

On October 4, 2021, the AFVR contractor, Hazmat Emergency Response and Remediation, Inc. (HERR), arrived on-site to conduct a 96-hour AFVR event. The AFVR event was conducted on recovery wells RW-1 and RW-2 and monitoring well MW-2A. General weather conditions were sunny and fair with an ambient air temperature of approximately 73°F at the time of system start-up. Prior to system startup,

no free product was detected in recovery wells RW-1 and RW-2 or monitoring well MW-2A. Depths to water measured in RW-1, RW-2 and MW-2A prior to system startup were 11.33, 11.24 and 11.39 feet, respectively. Monitoring wells MW-1A and MW-17R were used as observation wells during the 96-hour event. Fluid recovery activities using a vacuum truck with a maximum vacuum rating of 25 in. Hg and a capacity of 325 cubic feet per minute were conducted for 96 hours on RW-1, RW-2 and MW-2A. During the event, the vacuum at recovery wells RW-1 and RW-2 remained steady at 24 in. Hg; the vacuum at monitoring well MW-2A remained steady at 26 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 19,209 gallons of liquid was removed during the event. Based on data collected during the AFVR event, an estimated total of 23.608 pounds (approximately 3.777 gallons) of product was removed in the vapor phase. No measurable free product was present in the tanker or the vacuumed wells (RW-1, RW-2 and MW-2A) at the conclusion of the event.

Please do not hesitate to contact the undersigned at (704) 845-4010 if you have any questions or require additional information.

Sincerely,

W. Scott Ball

W. Scott Ball
Project Manager

John M. Brown, No. 1116
Licensed Professional Geologist

Enclosures

cc: Mr. Marty Easler
file

# FIGURES

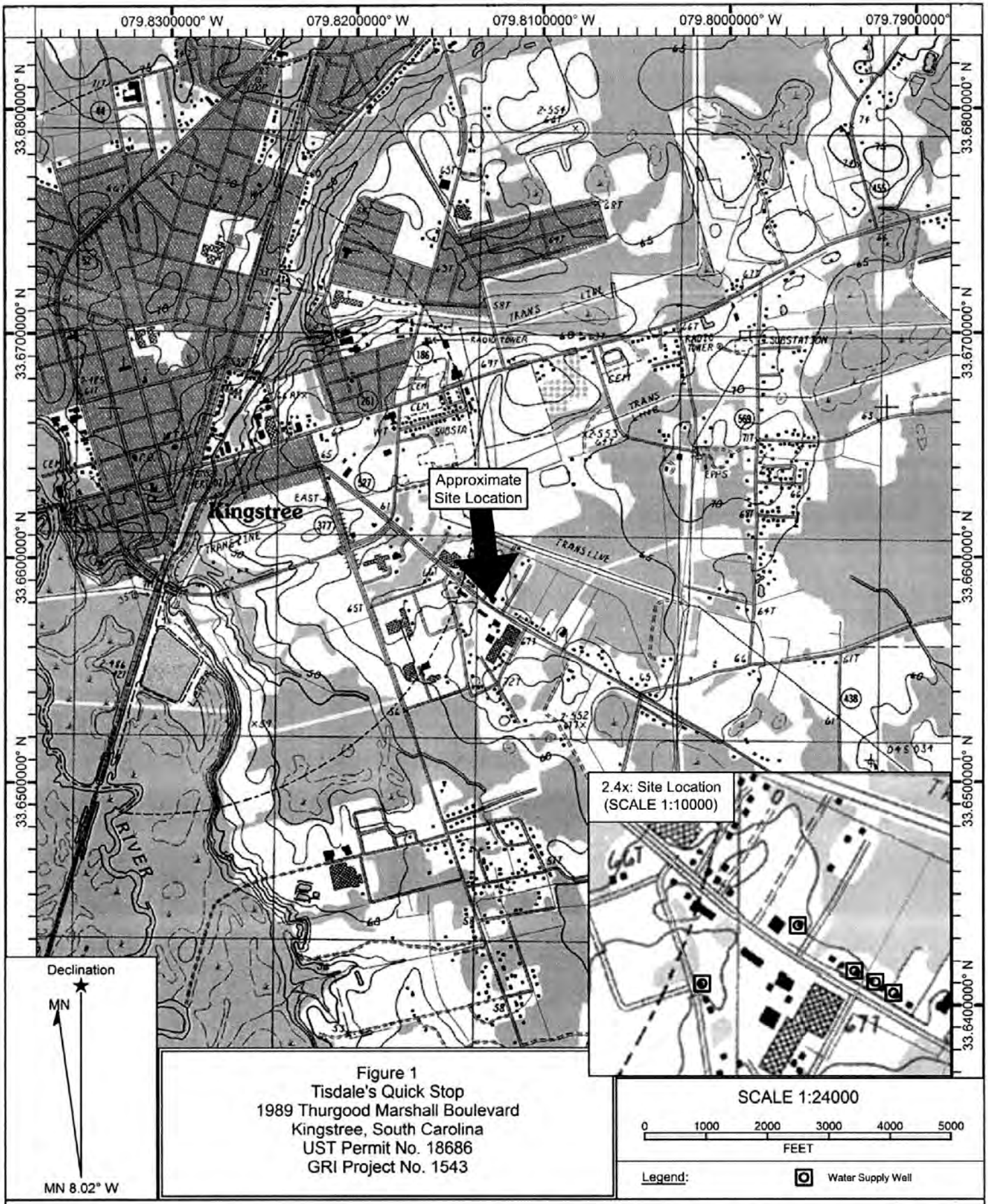



Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit No. 18686
GRI Project No. 1543

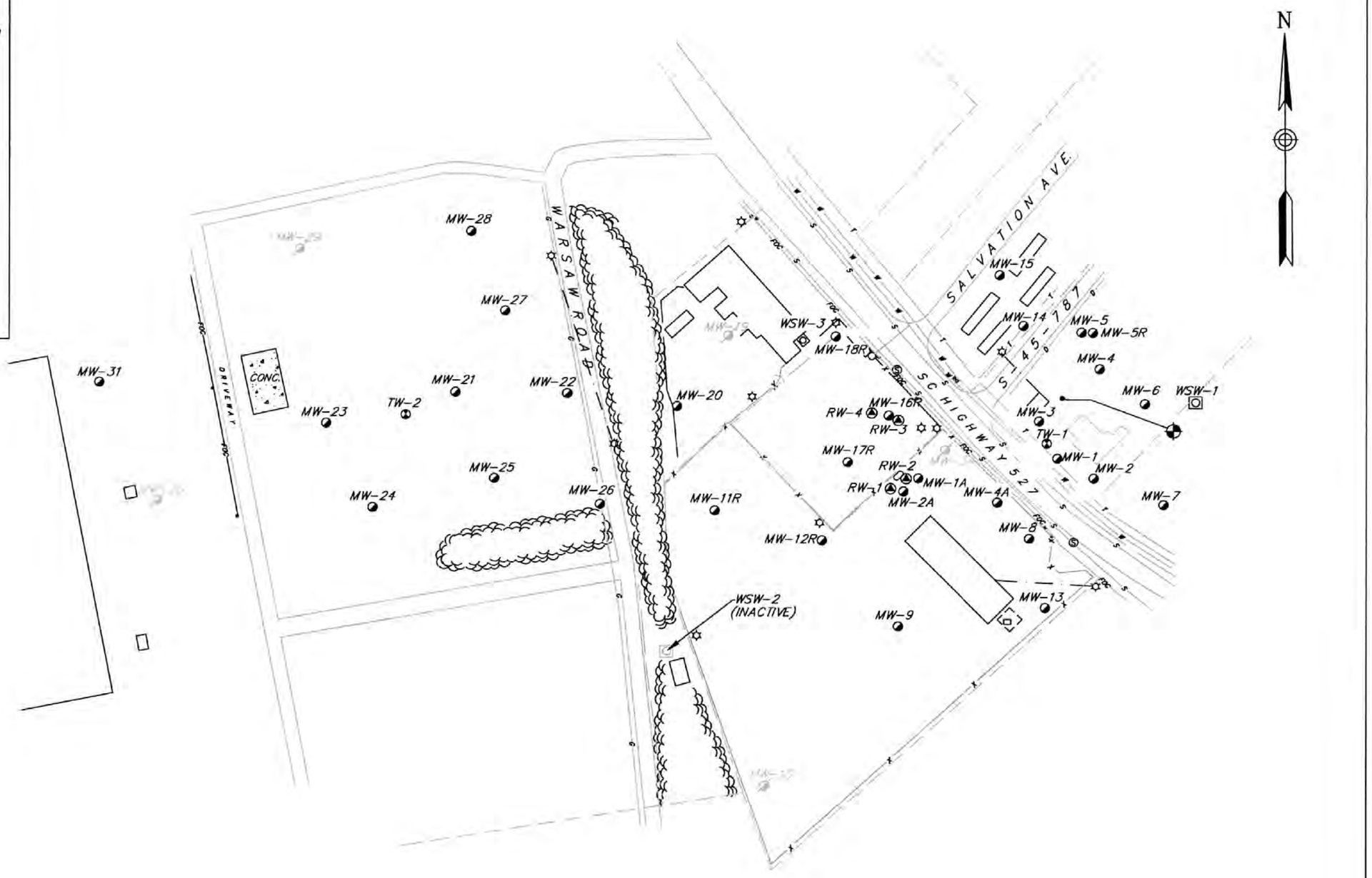
Name: Topographic Map
Date: 08/08/16
Scale: 1 inch = 2,000 ft.

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
- RECOVERY WELL




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: | 01/23/19 | Drawn by: | DTH | Figure: | 2 |
|---|---|---|---|---|---|

# TABLES

**TABLE 1**
**AFVR EVENT CHRONOLOGY**
**OCTOBER 4 - 8, 2021**
**TISDALE'S QUICK STOP**
**UST PERMIT #18686**

| Task | Hours | Personnel | Equipment | Company |
|---|---|---|---|---|
| Gauge Liquid Levels in RW-1, RW-2 and MW-2A | 7:30 10/4/2021 | Vacuum Truck Operator | Interface Probe | HERR |
| Vacuum Truck Setup for Fluid Removal in RW-1, RW-2 and MW-2A | 7:45 - 8:00 10/4/2021 | Vacuum Truck Operator | Vacuum Truck | HERR |
| Fluid Recovery in RW-1, RW-2 and MW-2A | 8:00 10/4/2021 - 8:00 10/8/2021 | Vacuum Truck Operator | Vacuum Truck | HERR |
| Gauge Liquid Levels in RW-1, RW-2 and MW-2A | 8:15 10/8/2021 | Vacuum Truck Operator | Interface Probe | HERR |

**TABLE 2**
**SUMMARY OF AFVR EVENT GAUGING DATA**
**OCTOBER 4 - 8, 2021**
**TISDALE'S QUICK STOP**
**UST PERMIT #18686**

| Well No. | Date | Time | Depth to Free Product | Depth to Ground Water | Free Product Thickness |
|---|---|---|---|---|---|
| RW-1 | 10/4/2021 | 7:30 | --- | 11.33 | --- |
| RW-2 | | 7:31 | --- | 11.24 | --- |
| MW-2A | | 7:32 | --- | 11.39 | --- |
| RW-1 | 10/8/2021 | 8:15 | --- | 11.55 | --- |
| RW-2 | | 8:16 | --- | 11.62 | --- |
| MW-2A | | 8:17 | --- | 11.59 | --- |

Note:
• Data reported in feet.

# APPENDIX

**APPENDIX A**

**AFVR Report, Calculations, Disposal Manifests/Stick Readings, Tank Charts, Photographs**

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, October 22, 2021

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 October 4-8, 2021. Included is the documentation for the event. The 96-hour event was conducted on monitoring wells RW-1, RW-2, and MW-2A.

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

Sincerely,

Ryan Cox
HERR, Inc.

Tisdale's Quick Stop
Kingstree, SC
October 4-8, 2021

## AFVR

HERR mobilized personnel and equipment to Tisdale's Quick Stop on 10/04/21. The ambient temperature was 73 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).
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 23.608 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 19,209 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

| 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 |
|---|---|---|---|---|---|---|
| RW-1 | N/A | 11.33 | N/A | 11.55 | | |
| RW-2 | N/A | 11.24 | N/A | 11.62 | | |
| MW-2A | N/A | 11.39 | N/A | 11.59 | | |
| | | | | | | |
| | | | | | 19,209 Gallons | |

# 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 |
|---|---|---|---|---|---|---|
| 10/4/2021 8:00 | 1172 | 204.3 | 330 | 73.7 | 68.1 | |
| 8:30 | 1244 | 226.7 | 341 | 74.8 | 71.4 | |
| 9:00 | 1239 | 239.8 | 339 | 75.1 | 70.7 | |
| 9:30 | 1486 | 246.7 | 347 | 75.9 | 68.2 | |
| 10:00 | 1541 | 278.4 | 341 | 77.6 | 68.5 | |
| 10:30 | 1480 | 290.1 | 349 | 78.1 | 65.4 | |
| 11:00 | 1503 | 268.3 | 347 | 78.8 | 66.3 | |
| 11:30 | 1564 | 260.8 | 344 | 79.3 | 67.1 | |
| P12:00 | 1537 | 249.3 | 353 | 79.9 | 66.9 | |
| 12:30 | 1511 | 247.7 | 359 | 81.4 | 67.4 | |
| 1:00 | 1519 | 264.4 | 357 | 81.8 | 67.8 | |
| 1:30 | 1503 | 280.7 | 344 | 81.9 | 69.3 | |
| 2:00 | 1484 | 273.4 | 341 | 82.4 | 69.9 | |
| 2:30 | 1480 | 316.1 | 339 | 82.5 | 70.1 | |
| 3:00 | 1522 | 301.7 | 348 | 82.8 | 68.4 | |
| 3:30 | 1529 | 291.8 | 357 | 82.7 | 67.7 | |
| 4:00 | 1564 | 309.6 | 361 | 81.9 | 67.1 | |
| 5:00 | 1598 | 302.3 | 363 | 80.6 | 66.6 | |
| 6:00 | 1627 | 284.8 | 360 | 78.4 | 66.8 | |
| 7:00 | 1643 | 291.1 | 357 | 77.6 | 67.1 | |
| 8:00 | 1671 | 346.2 | 359 | 75.4 | 67.3 | |
| 9:00 | 1664 | 327.8 | 350 | 73.6 | 69.4 | |
| 10:00 | 1682 | 320.4 | 355 | 71.5 | 69.8 | |
| 11:00 | 1671 | 335.2 | 353 | 69.5 | 70.7 | |
| A12:00 | 1648 | 292.2 | 354 | 66.8 | 68.5 | |
| 10/5/21 A8:00 | 1577 | 277.6 | 360 | 71.8 | 65.7 | |
| 10:00 | 1564 | 294.8 | 367 | 77.6 | 68.2 | |
| P12:00 | 1682 | 311.1 | 365 | 80.8 | 66.3 | |
| 2:00 | 1655 | 283.9 | 358 | 82.3 | 69.8 | |
| 4:00 | 1671 | 267.4 | 355 | 79.6 | 66.1 | |
| 6:00 | 1680 | 270.6 | 359 | 77.1 | 63.6 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 8:00 | 1576 | 257.6 | 358 | 73.6 | 64.2 | |
| 10:00 | 1562 | 263.7 | 363 | 70.4 | 68.2 | |
| A12:00 | 1541 | 261.9 | 357 | 70.9 | 65.0 | |
| 10/6/21 A8:00 | 1623 | 310.9 | 364 | 69.8 | 73.8 | |
| 10:00 | 1584 | 306.4 | 371 | 74.7 | 70.7 | |
| P12:00 | 1722 | 310.7 | 366 | 79.3 | 76.4 | |
| 2:00 | 1784 | 322.8 | 369 | 80.1 | 79.9 | |
| 4:00 | 1669 | 312.6 | 362 | 77.6 | 81.3 | |
| 6:00 | 1637 | 293.1 | 363 | 75.4 | 73.6 | |
| 8:00 | 1584 | 280.9 | 366 | 71.7 | 70.7 | |
| 10:00 | 1551 | 278.6 | 369 | 69.3 | 64.8 | |
| A12:00 | 1617 | 272.6 | 363 | 68.5 | 67.2 | |
| 10/7/21 A8:00 | 1667 | 289.7 | 370 | 68.7 | 70.1 | |
| 10:00 | 1724 | 321.4 | 364 | 72.3 | 72.4 | |
| P12:00 | 1749 | 326.1 | 367 | 77.8 | 68.6 | |
| 2:00 | 1501 | 208.2 | 360 | 81.2 | 69.1 | |
| 4:00 | 1574 | 229.6 | 364 | 79.7 | 71.4 | |
| 6:00 | 1562 | 230.4 | 362 | 76.3 | 72.9 | |
| 8:00 | 1507 | 201.7 | 363 | 75.9 | 77.6 | |
| 10:00 | 1498 | 213.4 | 361 | 74.1 | 75.3 | |
| A12:00 | 1455 | 193.5 | 357 | 72.6 | 73.4 | |
| 10/8/21 A8:00 | 1426 | 190.8 | 364 | 74.7 | 71.7 | |

# Aggressive Fluid/Vapor Recovery Notes

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

| | RW-1 | RW-2 | MW-2A | | 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 |
| 10/4/2021 8:00 | 24 | 24 | 26 | | 12 / 12 / 12 | | | |
| 8:30 | 24 | 24 | 26 | | | | | |
| 9:00 | 24 | 24 | 26 | | | | | |
| 9:30 | 24 | 24 | 26 | | | | | |
| 10:00 | 24 | 24 | 26 | | | | | |
| 10:30 | 24 | 24 | 26 | | | | | |
| 11:00 | 24 | 24 | 26 | | | | | |
| 11:30 | 24 | 24 | 26 | | | | | |
| P12:00 | 24 | 24 | 26 | | | | | |
| 12:30 | 24 | 24 | 26 | | | | | |
| 1:00 | 24 | 24 | 26 | | | | | |
| 1:30 | 24 | 24 | 26 | | | | | |
| 2:00 | 24 | 24 | 26 | | | | | |
| 2:30 | 24 | 24 | 26 | | | | | |
| 3:00 | 24 | 24 | 26 | | | | | |
| 3:30 | 24 | 24 | 26 | | | | | |
| 4:00 | 24 | 24 | 26 | | | | | |
| 5:00 | 24 | 24 | 26 | | | | | |
| 6:00 | 24 | 24 | 26 | | | | | |
| 7:00 | 24 | 24 | 26 | | | | | |
| 8:00 | 24 | 24 | 26 | | | | | |
| 9:00 | 24 | 24 | 26 | | | | | |
| 10:00 | 24 | 24 | 26 | | | | | |
| 11:00 | 24 | 24 | 26 | | | | | |
| A12:00 | 24 | 24 | 26 | | | | | |
| 10/5/21 A8:00 | 24 | 24 | 26 | | | | | |
| 10:00 | 24 | 24 | 26 | | | | | |
| P12:00 | 24 | 24 | 26 | | | | | |
| 2:00 | 24 | 24 | 26 | | | | | |
| 4:00 | 24 | 24 | 26 | | | | | |
| 6:00 | 24 | 24 | 26 | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 8:00 | 24 | 24 | 26 | | | | | |
| 10:00 | 24 | 24 | 26 | | | | | |
| A12:00 | 24 | 24 | 26 | | | | | |
| 10/6/21 A8:00 | 24 | 24 | 26 | | | | | |
| 10:00 | 24 | 24 | 26 | | | | | |
| P12:00 | 24 | 24 | 26 | | | | | |
| 2:00 | 24 | 24 | 26 | | | | | |
| 4:00 | 24 | 24 | 26 | | | | | |
| 6:00 | 24 | 24 | 26 | | | | | |
| 8:00 | 24 | 24 | 26 | | | | | |
| 10:00 | 24 | 24 | 26 | | | | | |
| A12:00 | 24 | 24 | 26 | | | | | |
| 10/7/21 A8:00 | 24 | 24 | 26 | | | | | |
| 10:00 | 24 | 24 | 26 | | | | | |
| P12:00 | 24 | 24 | 26 | | | | | |
| 2:00 | 24 | 24 | 26 | | | | | |
| 4:00 | 24 | 24 | 26 | | | | | |
| 6:00 | 24 | 24 | 26 | | | | | |
| 8:00 | 24 | 24 | 26 | | | | | |
| 10:00 | 24 | 24 | 26 | | | | | |
| A12:00 | 24 | 24 | 26 | | | | | |
| 10/8/21 A8:00 | 24 | 24 | 26 | | | | | |

# Aggressive Fluid/Vapor Recovery Notes

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

| | MW-1A | | MW-17R | | | | | |
|---|---|---|---|---|---|---|---|---|
| Time | Water Level | Vacuum Influence at Well (in. Hg) | Water Level | Vacuum Influence at Well (in. Hg) | Water Level | Vacuum Influence at Well (in. Hg) | Water Level | Vacuum Influence at Well (in. Hg) |
| 10/4/2021 8:00 | 11.14 | 0.12 | 11.01 | 0.10 | | | | |
| 8:30 | | 0.12 | | 0.10 | | | | |
| 9:00 | | 0.12 | | 0.10 | | | | |
| 9:30 | | 0.12 | | 0.10 | | | | |
| 10:00 | | 0.12 | | 0.10 | | | | |
| 10:30 | | 0.12 | | 0.10 | | | | |
| 11:00 | | 0.12 | | 0.10 | | | | |
| 11:30 | | 0.12 | | 0.10 | | | | |
| P12:00 | | 0.12 | | 0.10 | | | | |
| 12:30 | | 0.12 | | 0.10 | | | | |
| 1:00 | | 0.12 | | 0.10 | | | | |
| 1:30 | | 0.12 | | 0.10 | | | | |
| 2:00 | | 0.12 | | 0.10 | | | | |
| 2:30 | | 0.12 | | 0.10 | | | | |
| 3:00 | | 0.12 | | 0.10 | | | | |
| 3:30 | | 0.12 | | 0.10 | | | | |
| 4:00 | | 0.12 | | 0.10 | | | | |
| 5:00 | | 0.12 | | 0.10 | | | | |
| 6:00 | | 0.12 | | 0.10 | | | | |
| 7:00 | | 0.12 | | 0.10 | | | | |
| 8:00 | | 0.12 | | 0.10 | | | | |
| 9:00 | | 0.12 | | 0.10 | | | | |
| 10:00 | | 0.12 | | 0.10 | | | | |
| 11:00 | | 0.12 | | 0.10 | | | | |
| A12:00 | | 0.12 | | 0.10 | | | | |
| 10/5/21 A8:00 | | 0.12 | | 0.10 | | | | |
| 10:00 | | 0.12 | | 0.10 | | | | |
| P12:00 | | 0.12 | | 0.10 | | | | |
| 2:00 | | 0.12 | | 0.10 | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4:00 | | 0.12 | | 0.10 | | | | |
| 6:00 | | 0.12 | | 0.10 | | | | |
| 8:00 | | 0.12 | | 0.10 | | | | |
| 10:00 | | 0.12 | | 0.10 | | | | |
| A12:00 | | 0.12 | | 0.10 | | | | |
| 10/6/21 A8:00 | | 0.12 | | 0.10 | | | | |
| 10:00 | | 0.12 | | 0.10 | | | | |
| P12:00 | | 0.12 | | 0.10 | | | | |
| 2:00 | | 0.12 | | 0.10 | | | | |
| 4:00 | | 0.12 | | 0.10 | | | | |
| 6:00 | | 0.12 | | 0.10 | | | | |
| 8:00 | | 0.12 | | 0.10 | | | | |
| 10:00 | | 0.12 | | 0.10 | | | | |
| A12:00 | | 0.12 | | 0.10 | | | | |
| 10/7/21 A8:00 | | 0.12 | | 0.10 | | | | |
| 10:00 | | 0.12 | | 0.10 | | | | |
| P12:00 | | 0.12 | | 0.10 | | | | |
| 2:00 | | 0.12 | | 0.10 | | | | |
| 4:00 | | 0.12 | | 0.10 | | | | |
| 6:00 | | 0.12 | | 0.10 | | | | |
| 8:00 | | 0.12 | | 0.10 | | | | |
| 10:00 | | 0.12 | | 0.10 | | | | |
| A12:00 | | 0.12 | | 0.10 | | | | |
| 10/8/21 A8:00 | 11.03 | 0.12 | 10.94 | 0.10 | | | | |

# 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) |
| 10/4/21 | 8:00 | 330 | 0.022 | 73.7 | 68.1 | 0.012137650 | 7.10 |
| 10/4/21 | 8:30 | 341 | 0.022 | 74.8 | 71.4 | 0.013226286 | 7.31 |
| 10/4/21 | 9:00 | 339 | 0.022 | 75.1 | 70.7 | 0.013228583 | 7.26 |
| 10/4/21 | 9:30 | 347 | 0.022 | 75.9 | 68.2 | 0.013103054 | 7.42 |
| 10/4/21 | 10:00 | 341 | 0.022 | 77.6 | 68.5 | 0.013942156 | 7.27 |
| 10/4/21 | 10:30 | 349 | 0.022 | 78.1 | 65.4 | 0.013523754 | 7.43 |
| 10/4/21 | 11:00 | 347 | 0.022 | 78.8 | 66.3 | 0.014040844 | 7.38 |
| 10/4/21 | 11:30 | 344 | 0.022 | 79.3 | 67.1 | 0.014454884 | 7.30 |
| 10/4/21 | 12:00 | 353 | 0.022 | 79.9 | 66.9 | 0.014703605 | 7.48 |
| 10/4/21 | 12:30 | 359 | 0.022 | 81.4 | 67.4 | 0.015577550 | 7.58 |
| 10/4/21 | 1:00 | 357 | 0.022 | 81.8 | 67.8 | 0.015882529 | 7.53 |
| 10/4/21 | 1:30 | 344 | 0.022 | 81.9 | 69.3 | 0.016297265 | 7.25 |
| 10/4/21 | 2:00 | 341 | 0.022 | 82.4 | 69.9 | 0.016717922 | 7.18 |
| 10/4/21 | 2:30 | 339 | 0.022 | 82.5 | 70.1 | 0.016822875 | 7.14 |
| 10/4/21 | 3:00 | 348 | 0.022 | 82.8 | 68.4 | 0.016568335 | 7.32 |
| 10/4/21 | 3:30 | 357 | 0.022 | 82.7 | 67.7 | 0.016340004 | 7.52 |
| 10/4/21 | 4:00 | 361 | 0.022 | 81.9 | 67.1 | 0.015766777 | 7.62 |
| 10/4/21 | 5:00 | 363 | 0.022 | 80.6 | 66.6 | 0.014982826 | 7.68 |
| 10/4/21 | 6:00 | 360 | 0.022 | 78.4 | 66.8 | 0.013960029 | 7.66 |
| 10/4/21 | 7:00 | 357 | 0.022 | 77.6 | 67.1 | 0.013650953 | 7.61 |
| 10/4/21 | 8:00 | 359 | 0.022 | 75.4 | 67.3 | 0.012708682 | 7.69 |
| 10/4/21 | 9:00 | 350 | 0.022 | 73.6 | 69.4 | 0.012331641 | 7.53 |
| 10/4/21 | 10:00 | 355 | 0.022 | 71.5 | 69.8 | 0.011539662 | 7.67 |
| 10/4/21 | 11:00 | 353 | 0.022 | 69.5 | 70.7 | 0.010908148 | 7.66 |
| 10/5/21 | 12:00 | 354 | 0.022 | 66.8 | 68.5 | 0.009611791 | 7.73 |
| 10/5/21 | 8:00 | 360 | 0.022 | 71.8 | 65.7 | 0.010962803 | 7.78 |
| 10/5/21 | 10:00 | 367 | 0.022 | 77.6 | 68.2 | 0.013879733 | 7.82 |
| 10/5/21 | 12:00 | 365 | 0.022 | 80.8 | 66.3 | 0.015013648 | 7.72 |
| 10/5/21 | 2:00 | 358 | 0.022 | 82.3 | 69.8 | 0.016637951 | 7.54 |
| 10/5/21 | 4:00 | 355 | 0.022 | 79.6 | 66.1 | 0.014378449 | 7.53 |
| 10/5/21 | 6:00 | 359 | 0.022 | 77.1 | 63.6 | 0.012707837 | 7.67 |
| 10/5/21 | 8:00 | 358 | 0.022 | 73.6 | 64.2 | 0.011390736 | 7.70 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 10/5/21 | 10:00 | 363 | 0.022 | 70.4 | 68.2 | 0.010849630 | 7.86 |
| 10/6/21 | 12:00 | 357 | 0.022 | 70.9 | 65.0 | 0.010512375 | 7.73 |
| 10/6/21 | 8:00 | 364 | 0.022 | 69.8 | 73.8 | 0.011514792 | 7.89 |
| 10/6/21 | 10:00 | 371 | 0.022 | 74.7 | 70.7 | 0.013049261 | 7.95 |
| 10/6/21 | 12:00 | 366 | 0.022 | 79.3 | 76.4 | 0.016511500 | 7.75 |
| 10/6/21 | 2:00 | 369 | 0.022 | 80.1 | 79.9 | 0.017760918 | 7.80 |
| 10/6/21 | 4:00 | 362 | 0.022 | 77.6 | 81.3 | 0.016617006 | 7.69 |
| 10/6/21 | 6:00 | 363 | 0.022 | 75.4 | 73.6 | 0.013924984 | 7.77 |
| 10/6/21 | 8:00 | 366 | 0.022 | 71.7 | 70.7 | 0.011772262 | 7.90 |
| 10/6/21 | 10:00 | 369 | 0.022 | 69.3 | 64.8 | 0.009914087 | 8.02 |
| 10/7/21 | 12:00 | 363 | 0.022 | 68.5 | 67.2 | 0.010004578 | 7.90 |
| 10/7/21 | 8:00 | 370 | 0.022 | 68.7 | 70.1 | 0.010516730 | 8.04 |
| 10/7/21 | 10:00 | 364 | 0.022 | 72.3 | 72.4 | 0.012313023 | 7.85 |
| 10/7/21 | 12:00 | 367 | 0.022 | 77.8 | 68.6 | 0.014057578 | 7.82 |
| 10/7/21 | 2:00 | 360 | 0.022 | 81.2 | 69.1 | 0.015874291 | 7.60 |
| 10/7/21 | 4:00 | 364 | 0.022 | 79.7 | 71.4 | 0.015612502 | 7.71 |
| 10/7/21 | 6:00 | 362 | 0.022 | 76.3 | 72.9 | 0.014218477 | 7.73 |
| 10/7/21 | 8:00 | 363 | 0.022 | 75.9 | 77.6 | 0.014952461 | 7.75 |
| 10/7/21 | 10:00 | 361 | 0.022 | 74.1 | 75.3 | 0.013634393 | 7.74 |
| 10/8/21 | 12:00 | 357 | 0.022 | 72.6 | 73.4 | 0.012616209 | 7.69 |
| 10/8/21 | 8:00 | 364 | 0.022 | 74.7 | 71.7 | 0.013237762 | 7.80 |
| Averages | | 356.89 | 0.022 | 76.37 | 69.52 | 0.013706864 | 7.624 |

**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 | 7.10 | 1172 | 1 | 1172.0 | 6232.49 | 0.000389094 | 0.1656 | 0.0000 |
| 30 | 30 | 7.31 | 1244 | 1 | 1244.0 | 6615.37 | 0.000412998 | 0.1811 | 0.0906 |
| 30 | 60 | 7.26 | 1239 | 1 | 1239.0 | 6588.78 | 0.000411338 | 0.1792 | 0.0896 |
| 30 | 90 | 7.42 | 1486 | 1 | 1486.0 | 7902.29 | 0.000493340 | 0.2197 | 0.1099 |
| 30 | 120 | 7.27 | 1541 | 1 | 1541.0 | 8194.77 | 0.000511599 | 0.2230 | 0.1115 |
| 30 | 150 | 7.43 | 1480 | 1 | 1480.0 | 7870.38 | 0.000491348 | 0.2191 | 0.1096 |
| 30 | 180 | 7.38 | 1503 | 1 | 1503.0 | 7992.69 | 0.000498984 | 0.2208 | 0.1104 |
| 30 | 210 | 7.30 | 1564 | 1 | 1564.0 | 8317.08 | 0.000519235 | 0.2275 | 0.1137 |
| 30 | 240 | 7.48 | 1537 | 1 | 1537.0 | 8173.49 | 0.000510271 | 0.2291 | 0.1146 |
| 30 | 270 | 7.58 | 1511 | 1 | 1511.0 | 8035.23 | 0.000501639 | 0.2282 | 0.1141 |
| 30 | 300 | 7.53 | 1519 | 1 | 1519.0 | 8077.77 | 0.000504295 | 0.2279 | 0.1140 |
| 30 | 330 | 7.25 | 1503 | 1 | 1503.0 | 7992.69 | 0.000498984 | 0.2172 | 0.1086 |
| 30 | 360 | 7.18 | 1484 | 1 | 1484.0 | 7891.65 | 0.000492676 | 0.2123 | 0.1061 |
| 30 | 390 | 7.14 | 1480 | 1 | 1480.0 | 7870.38 | 0.000491348 | 0.2104 | 0.1052 |
| 30 | 420 | 7.32 | 1522 | 1 | 1522.0 | 8093.73 | 0.000505291 | 0.2220 | 0.1110 |
| 30 | 450 | 7.52 | 1529 | 1 | 1529.0 | 8130.95 | 0.000507615 | 0.2289 | 0.1145 |
| 30 | 480 | 7.62 | 1564 | 1 | 1564.0 | 8317.08 | 0.000519235 | 0.2373 | 0.1186 |
| 60 | 540 | 7.68 | 1598 | 1 | 1598.0 | 8497.88 | 0.000530523 | 0.2446 | 0.2446 |
| 60 | 600 | 7.66 | 1627 | 1 | 1627.0 | 8652.10 | 0.000540150 | 0.2482 | 0.2482 |
| 60 | 660 | 7.61 | 1643 | 1 | 1643.0 | 8737.18 | 0.000545462 | 0.2490 | 0.2490 |
| 60 | 720 | 7.69 | 1671 | 1 | 1671.0 | 8886.08 | 0.000554758 | 0.2560 | 0.2560 |
| 60 | 780 | 7.53 | 1664 | 1 | 1664.0 | 8848.86 | 0.000552434 | 0.2494 | 0.2494 |
| 60 | 840 | 7.67 | 1682 | 1 | 1682.0 | 8944.58 | 0.000558410 | 0.2569 | 0.2569 |
| 60 | 900 | 7.66 | 1671 | 1 | 1671.0 | 8886.08 | 0.000554758 | 0.2550 | 0.2550 |
| 60 | 960 | 7.73 | 1648 | 1 | 1648.0 | 8763.77 | 0.000547122 | 0.2538 | 0.2538 |
| 480 | 1440 | 7.78 | 1577 | 1 | 1577.0 | 8386.21 | 0.000523551 | 0.2443 | 1.9544 |
| 120 | 1560 | 7.82 | 1564 | 1 | 1564.0 | 8317.08 | 0.000519235 | 0.2436 | 0.4872 |
| 120 | 1680 | 7.72 | 1682 | 1 | 1682.0 | 8944.58 | 0.000558410 | 0.2587 | 0.5175 |
| 120 | 1800 | 7.54 | 1655 | 1 | 1655.0 | 8801.00 | 0.000549446 | 0.2486 | 0.4972 |
| 120 | 1920 | 7.53 | 1671 | 1 | 1671.0 | 8886.08 | 0.000554758 | 0.2507 | 0.5014 |
| 120 | 2040 | 7.67 | 1680 | 1 | 1680.0 | 8933.94 | 0.000557746 | 0.2565 | 0.5130 |
| 120 | 2160 | 7.70 | 1576 | 1 | 1576.0 | 8380.89 | 0.000523219 | 0.2419 | 0.4837 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 120 | 2280 | 7.86 | 1562 | 1 | 1562.0 | 8306.44 | 0.000518571 | 0.2447 | 0.4893 |
| 120 | 2400 | 7.73 | 1541 | 1 | 1541.0 | 8194.77 | 0.000511599 | 0.2372 | 0.4745 |
| 480 | 2880 | 7.89 | 1623 | 1 | 1623.0 | 8630.83 | 0.000538823 | 0.2550 | 2.0403 |
| 120 | 3000 | 7.95 | 1584 | 1 | 1584.0 | 8423.43 | 0.000525875 | 0.2510 | 0.5020 |
| 120 | 3120 | 7.75 | 1722 | 1 | 1722.0 | 9157.29 | 0.000571690 | 0.2659 | 0.5319 |
| 120 | 3240 | 7.80 | 1784 | 1 | 1784.0 | 9487.00 | 0.000592273 | 0.2770 | 0.5540 |
| 120 | 3360 | 7.69 | 1669 | 1 | 1669.0 | 8875.45 | 0.000554094 | 0.2557 | 0.5114 |
| 120 | 3480 | 7.77 | 1637 | 1 | 1637.0 | 8705.28 | 0.000543470 | 0.2532 | 0.5065 |
| 120 | 3600 | 7.90 | 1584 | 1 | 1584.0 | 8423.43 | 0.000525875 | 0.2493 | 0.4986 |
| 120 | 3720 | 8.02 | 1551 | 1 | 1551.0 | 8247.94 | 0.000514919 | 0.2477 | 0.4954 |
| 120 | 3840 | 7.90 | 1617 | 1 | 1617.0 | 8598.92 | 0.000536831 | 0.2544 | 0.5088 |
| 480 | 4320 | 8.04 | 1667 | 1 | 1667.0 | 8864.81 | 0.000553430 | 0.2671 | 2.1368 |
| 120 | 4440 | 7.85 | 1724 | 1 | 1724.0 | 9167.93 | 0.000572354 | 0.2694 | 0.5388 |
| 120 | 4560 | 7.82 | 1749 | 1 | 1749.0 | 9300.87 | 0.000580653 | 0.2723 | 0.5446 |
| 120 | 4680 | 7.60 | 1501 | 1 | 1501.0 | 7982.05 | 0.000498320 | 0.2274 | 0.4547 |
| 120 | 4800 | 7.71 | 1574 | 1 | 1574.0 | 8370.25 | 0.000522555 | 0.2418 | 0.4836 |
| 120 | 4920 | 7.73 | 1562 | 1 | 1562.0 | 8306.44 | 0.000518571 | 0.2405 | 0.4810 |
| 120 | 5040 | 7.75 | 1507 | 1 | 1507.0 | 8013.96 | 0.000500311 | 0.2327 | 0.4653 |
| 120 | 5160 | 7.74 | 1498 | 1 | 1498.0 | 7966.10 | 0.000497324 | 0.2311 | 0.4622 |
| 120 | 5280 | 7.69 | 1455 | 1 | 1455.0 | 7737.43 | 0.000483048 | 0.2228 | 0.4456 |
| 480 | 5760 | 7.80 | 1426 | 1 | 1426.0 | 7583.22 | 0.000473420 | 0.2216 | 1.7732 |
| Averages | | 7.62 | 1566.49 | 1.00 | 1566.49 | 8330.32 | 0.000520062 | 0.2382 | 0.4454 |
| | | | | | | | Total Emission in pounds: | | 23.6080 |

**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.: A-211150-W-(

2. Page 1 of

3. Generator's Name and Mailing Address: Tisdale's Quick Stop
1985 Thurgood Marshall Hwy
Kinston, 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: 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:
HERR, INC.
303 S. MAULTSBY ST
WHITEVILLE, NC 28472

10. US EPA ID Number: NCR-000139816

E. State Facility's ID

F. Facility's Phone: 910-640-2607

GENERATOR

| 11. WASTE DESCRIPTION | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt./Vol. |
|---|---|---|---|---|
| a. NON-REG. PETROLEUM CONTACT WATER | 1 | ++ | V | GAL. |
| b. | 448 | 43M | 4,484 | |
| c. | | | | |
| d. | | | | |

G. Additonal 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: David Beaver

Signature

Date: Month 10 Day 05 Year 21

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DALE FOWLER

Signature

Date: Month 10 Day 5 Year 21

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 maifest, except as noted in item 19.

Printed/Typed Name: RYAN Cox

Signature

Date: Month 10 Day 5 Year 21

# 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.: A-211150-W-2

2. Page 1 of

3. Generator's Name and Mailing Address: Tisdale Grocery, 1585 Thurgood Marshall Blvd, Kingstree, SC

4. Generator's Phone ( )

5. Transporter 1 Company Name: HERR

6. US EPA ID Number

A. State Transorter'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: HERR, 367 S. MAULTSBY ST, WHITEVILLE NC

10. US EPA ID Number: NCR-000139816

E. State Facility's ID

F. Facility's Phone: 910-640-2607

| 11. WASTE DESCRIPTION | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt./Vol. |
|---|---|---|---|---|
| a. Non Reg Petroleum Contact Water | 1 | TT | 4,910 | T/L GAL |
| b. | | 948 | 474 | |
| c. | | | | |
| d. | | | | |

G. Additonal Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

NON-HAZARDOUS WASTE

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: David Beaver — Signature — Date: Month 10 Day 6 Year 21

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DALE FOWLER — Signature — Date: Month 10 Day 6 Year 21

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 maifest, except as noted in item 19.

Printed/Typed Name: RYAN COX — Signature — Date: Month 10 Day 6 Year 21

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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.: A-211150-W-3

2. Page 1 of

3. Generator's Name and Mailing Address: Tisdales Grocery 1585 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: 305 Maultsby St Whiteville, NC

10. US EPA ID Number: NCR-000139811

E. State Facility's ID

F. Facility's Phone: 910-640-2607

| 11. WASTE DESCRIPTION | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt./Vol. |
|---|---|---|---|---|
| a. Non RCG Petroleum Contact Water | 1 | TT | 4,702 | GAL |
| b. | | 44B | 4451 | |
| c. | | | | |
| d. | | | | |

G. Additonal 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: David Beaver | Signature: DB | Date: Month 10 Day 7 Year 21

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DALE FOSTER | Signature: Dale Foster | Date: Month 10 Day 7 Year 21

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 maifest, except as noted in item 19.

Printed/Typed Name: RYAN COX | Signature | Date: Month 10 Day 7 Year 21

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.: A-211150-W-4

2. Page 1 of

3. Generator's Name and Mailing Address: Tisdales Grocery, 1585 Thurgood Marshall Blvd, Kingstree, SC

4. Generator's Phone ( )

5. Transporter 1 Company Name: HERR

6. US EPA ID Number

A. State Transorter'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: HERR, 303 S. Moultrie St., Whiteville NC 28472 NCR-000135816

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone: 910-640-2607

| 11. WASTE DESCRIPTION | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt./Vol. |
|---|---|---|---|---|
| a. Non Reg Petroleum Contact water | 1 | TT | 5,113 7/2 | GAL |
| b. | | 946 | 42" | |
| c. | | | | |
| d. | | | | |

G. Additonal 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: David Beaver

Signature: [signature]

Date: Month 10 Day 8 Year 21

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DALE FOWLER

Signature: Dale Fowler

Date: Month 10 Day 8 Year 21

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 maifest, except as noted in item 19.

Printed/Typed Name: RYAN COX

Signature: [signature]

Date: Month 10 Day 8 Year 21

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE

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 | | |

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 | | |

dhec
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APR 18 2022

UST 81 Tech DOCKETING

MARTY EASLER
196 RICHBURG RD
GREELEYVILLE SC 29056

Re: **Site-Specific Work Plan Request for Groundwater Sampling**
Tisdales Quick Stop, 1989 Thurgood Marshall Boulevard (Highway 527), Kingstree, SC
UST Permit #18686
Release reported March 30, 2001
AFVR Report received October 28, 2021
Williamsburg County

Dear Mr. Easler:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report submitted by your contractor. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels.

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 R.61-92, implementation of groundwater sampling is necessary. The groundwater sampling must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan, and in compliance with all applicable regulations. A copy of the UST QAPP is available at SCDHEC.gov/Environment/Land-Waste/Underground-Storage-Tanks/Release-Assessment-Clean/Quality-Assurance.

Groundwater samples should be collected from all monitoring wells associated with this release along with all water supply wells within a 1,000 foot radius of the site. Samples should be analyzed for BTEX, Naphthalene, MTBE, 1,2-DCA, the 8 oxygenates, and EDB. Only wells with screens that do not bracket the water table should be purged prior to sampling.

**Your contractor must complete the SSWP 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 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) 898-0500, by fax at (803) 898-0673, or by e-mail at brownaj@dhec.sc.gov.

Sincerely,

Arthur Brown, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Geological Resources, Inc., 3502 Hayes Road, Monroe, NC 28110
Technical file

**Geological Resources, Inc.**

April 28, 2022

RECEIVED
MAY 03 2022
UST DIVISION
UST 82 Geol DOCKETING

Mr. Arthur Brown
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. 22-298
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. Brown:

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

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: Arthur Brown (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
Current Use of Property: Abandoned 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 (8260D)
- ☑ Oxygenates (8260D)
- ☑ EDB (8011)
- ☐ PAH (8270E)
- ☐ Lead
- ☐ 8 RCRA Metals
- ☐ TPH
- ☐ pH
- ☐ BOD
- ☐ Nitrate
- ☐ Sulfate
- ☐ Other
- ☐ Methane
- ☐ Ethanol
- ☐ Dissolved Iron

Drinking Water Supply Wells:

- ☑ BTEXNMDCA (524.2)
- ☑ Oxygenates & Ethanol (8260D)
- ☐ Mecury (200.8 245.1 or 245.2)
- ☐ RCRA Metals (200.8)
- ☑ EDB (504.1)

Soil:

- ☐ BTEXNM
- ☐ Lead
- ☐ PAH
- ☐ 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 | 3 Field Blank |
| 37 Monitoring Wells | ____ 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: ____ 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
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 of SSWP Field Work Completion: 12 days from approval of SSWP

Report Submittal: 60 days from approval of SSWP # 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: 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 MW-4, MW-5R, MW-6 through MW-10, MW-11R, MW-12R, MW-13 through MW-15, MW-16R, MW-17R, MW-18R, MW-19 through MW-31, MW-1A through MW-4A, TW-1, TW-2 and water supply wells WSW-1 through WSW-3. Monitoring wells with buried screens will be purged prior to sampling. The appropriate number of duplicate samples, field blanks and trip blanks will be collected/submitted. Monitoring well samples will be submitted for analyses of BTEX, MTBE, naphthalene, 1,2-DCA and 8 oxygenates using Method 8260 and EDB using Method 8011. WSW samples will be submitted for analyses of BTEX, MTBE, naphthalene and 1,2-DCA by Method 524.2, 8 oxygenates by Method 8260 and EDB by Method 504.1. Purge water from historically contaminated wells will be containerized.

**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 ACQAP? (Yes/No) If no, indicate driller information below.

Name of Well Driller: _____

SCLLR Certification Number: _____

No 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

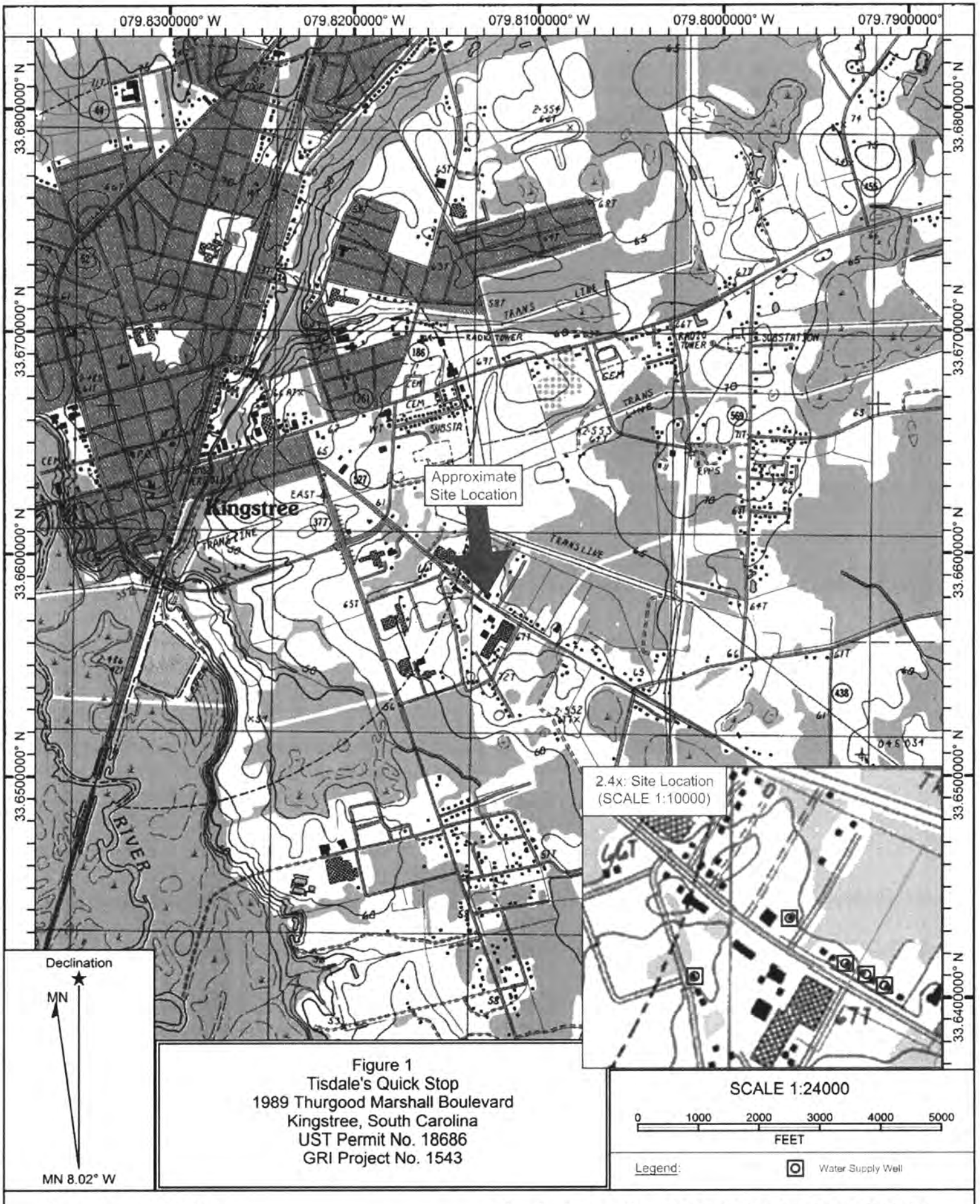



Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit No. 18686
GRI Project No. 1543

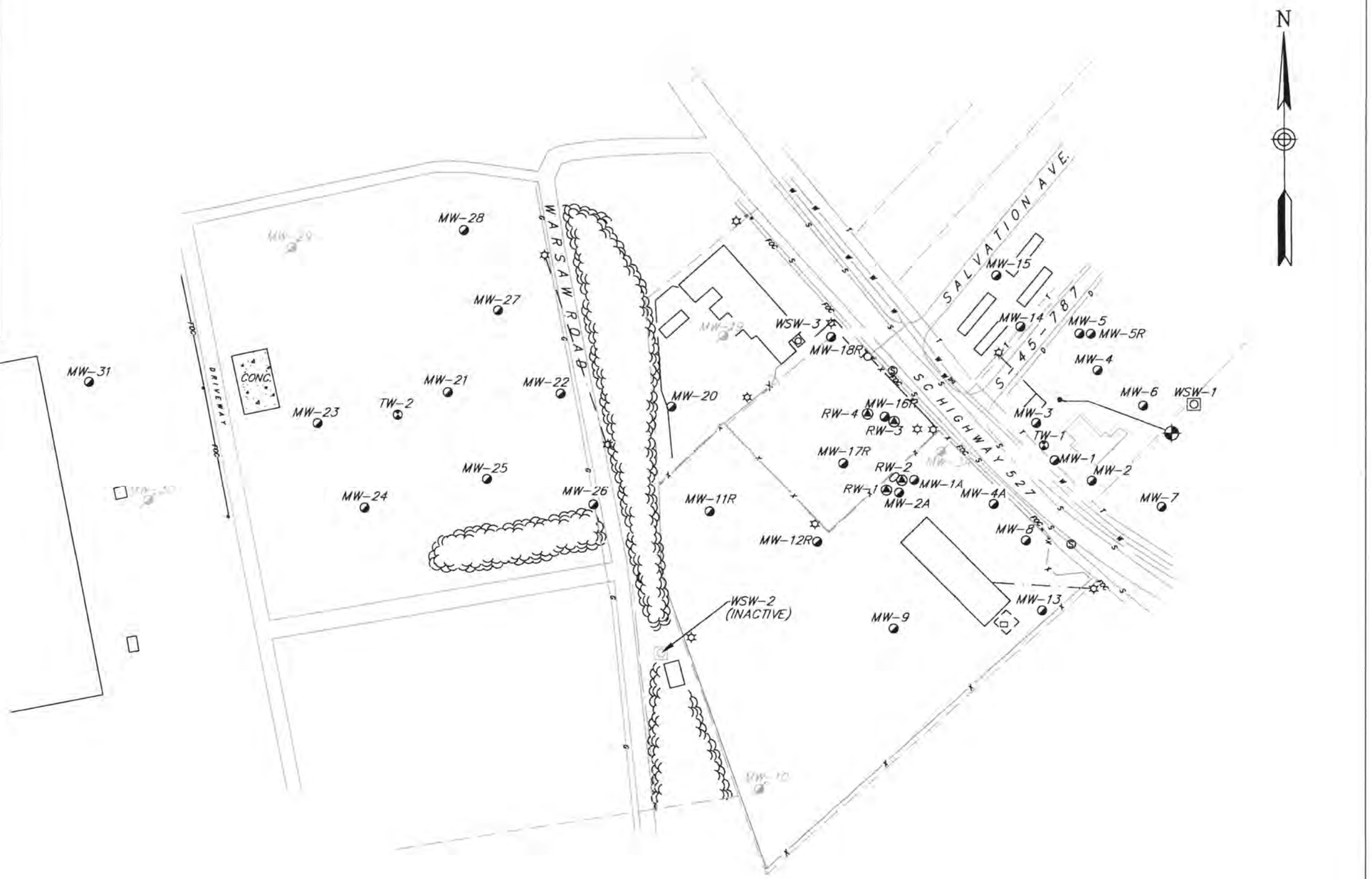
Name: Topographic Map
Date: 08/08/16
Scale: 1 inch = 2,000 ft.

Map Center Location: 033.6579897° N 079.8127613° W

Generated by Geological Resources, Inc.

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- 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
- RECOVERY WELL




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: | 08/12/2020 | Drawn by: | DTH | Figure: | 2 |
|---|---|---|---|---|---|

C:\Users\DARHOWARD\Desktop\New folder (2)\1543\1543 Base Map.dwg, Model, 8/12/2020 9:11:33 AM, DARHOWARD

Healthy People. Healthy Communities.

**ASSESSMENT COMPONENT COST AGREEMENT**
**SOUTH CAROLINA**
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
April 28, 2022

**Facility Name:** **Tisdale's Quick Stop**

GRI Prop. 22-298

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

| ITEM | QUANTITY | UNIT | UNIT PRICE | | TOTAL |
|---|---|---|---|---|---|
| A. **Plan Preparation** | | | | | |
| 1. Site-specific Work Plan | 1 | each | $160.05 | | $160.05 |
| 2. Tax Map | | each | $74.69 | | $0.00 |
| 3. Tier II or Comp. Plan /QAPP Appendix B | | each | $250.00 | | $0.00 |
| B. **Receptor Survey *** | | each | $587.92 | | $0.00 |
| C. **Survey (500 ft x 500 ft)** | | | | | |
| 1. Comprehensive Survey | | each | $1,109.68 | | $0.00 |
| Subsurface Geophysical Survey | | | | | |
| 2. < 10 meters below grade | | each | $1,387.10 | | $0.00 |
| 3. > 10 meters below grade | | each | $2,464.77 | | $0.00 |
| 4. Geophysical UST or Drum Survey | | each | $970.97 | | $0.00 |
| D. **Mob/Demob** | | | | | |
| 1. Equipment | | each | $1,088.34 | | $0.00 |
| 2. Personnel | 2 | each | $451.34 | | $902.68 |
| 3. Adverse Terrain Vehicle | | each | $533.50 | | $0.00 |
| E.. **Soil Borings (hand auger)*** | | foot | $5.34 | | $0.00 |
| F. **Soil Borings (requiring equipment, push technology, etc) or Field Screening (including water ssample, soil sample, soil gas sample, etc.)*** | | | | | |
| 1. Standard | | per foot | $16.01 | | $0.00 |
| 2. Fractured Rock | | per foot | $21.55 | | $0.00 |
| G. **Soil Leachability Model** | | each | $64.02 | | $0.00 |
| H. **Abandonment (per foot)*** | | | | | |
| 1. 2" diameter or less | | per foot | $3.31 | | $0.00 |
| 2. Greater than 2" to 6" diameter | | per foot | $4.80 | | $0.00 |
| 3. Dug/Bored well (up to 6 feet diameter) | | per foot | $16.00 | | $0.00 |
| I. **Well Installation (per foot)*** | | | | | |
| 1. Water Table (hand augered) | | per foot | $11.31 | | $0.00 |
| 2. Water Table (drill rig) 2" Diameter | | per foot | $40.55 | | $0.00 |
| 3. Telescoping | | per foot | $53.35 | | $0.00 |
| 4. Rock Drilling | | per foot | $61.89 | | $0.00 |
| 5. 2" Rock Coring | | per foot | $32.97 | | $0.00 |
| 6. Rock Multi-sampling ports/screens | | per foot | $35.64 | | $0.00 |
| 7. Recovery Well (4" diameter) | | per foot | $48.02 | | $0.00 |
| 8. Pushed Pre-packed screen (1.25" dia) | | per foot | $16.01 | | $0.00 |
| 9. Rotosonic (2" diameter) | | per foot | $46.95 | | $0.00 |
| 10. Re-develop Existing Well | | per foot | $11.74 | | $0.00 |

| | | | | | |
|---|---|---|---|---|---|
| J. **Groundwater Sample Collection / Gauge Depth to Water or Product *** | | | | | |
| 1. Groundwater Purge | 2 | per well | $64.02 | | $128.04 |
| 2. Air or Vapors | | sample | $12.80 | | $0.00 |
| 3. Water Supply Sample or Duplicate | 3 | sample | $23.47 | | $70.41 |
| 4. Groundwater No Purge or Duplicate or Grab | 37 | sample | $29.88 | | $1,105.56 |
| 5. Gauge Well only | | sample | $7.47 | | $0.00 |
| 6. Sample Below Product | | sample | $12.80 | | $0.00 |
| 7. Passive Diffusion Bag | | sample | $27.74 | | $0.00 |
| 8. Field Blank | 3 | sample | $26.25 | | $78.75 |
| 9. Groundwater (low flow purge) | | sample | $97.10 | | $0.00 |
| 10. Equipment Blank | | sample | $26.25 | | $0.00 |
| **K. Laboratory Analyses-Groundwater** | | | | | |
| 1. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B) | 42 | per sample | $130.17 | | $5,467.14 |
| 2. Lead, Filtered | | per sample | $14.72 | | $0.00 |
| 3. Rush EPA Method 8260B | | per sample | $163.89 | | $0.00 |
| 4. Trimethal, Butyl, and Isopropyl Benzenes | | per sample | $29.88 | | $0.00 |
| 5. PAH's | | per sample | $64.66 | | $0.00 |
| 6. Lead | | per sample | $17.07 | | $0.00 |
| 7. EDB by EPA 8011 | 41 | per sample | $48.23 | | $1,977.43 |
| 8. EDB by EPA Method 8011 Rush | | per sample | $72.77 | | $0.00 |
| 9. 8 RCRA Metals | | per sample | $67.65 | | $0.00 |
| 10. TPH (9070) | | per sample | $43.75 | | $0.00 |
| 11. PH | | per sample | $5.55 | | $0.00 |
| 12. BOD | | per sample | $21.34 | | $0.00 |
| 13. Ethanol | | per sample | $15.79 | | $0.00 |
| **K. Analyses-Drinking Water** | | | | | |
| 14. BTEXNM+1,2 DCA (524.2) | 5 | per sample | $132.36 | | $661.80 |
| 15. 7-OXYGENATES & ETHANOL (8260B) | 5 | per sample | $97.90 | | $489.50 |
| 16. EDB (504.1) | 4 | per sample | $84.83 | | $339.32 |
| 17. RCRA METALS (200.8) | | per sample | $106.70 | | $0.00 |
| K. **Analyses-Soil** | | | | | |
| 18. BTEX + Naphth. | | per sample | $68.29 | | $0.00 |
| 19. PAH's | | per sample | $68.33 | | $0.00 |
| 20. 8 RCRA Metals | | per sample | $60.18 | | $0.00 |
| 21. TPH-DRO (3550C/8015C) | | per sample | $42.68 | | $0.00 |
| 22. TPH- GRO (5035B/8015C) | | per sample | $38.37 | | $0.00 |
| 23. Grain size/hydrometer | | per sample | $110.97 | | $0.00 |
| 24. Total Organic Carbon | | per sample | $32.65 | | $0.00 |
| K. **Analyses-Air** | | | | | |
| 25. BTEX + Naphthalene | | per sample | $230.47 | | $0.00 |
| K. **Analyses-Free Phase Product** | | | | | |
| 26. Hydrocarbon Fuel Identification | | per sample | $380.92 | | $0.00 |
| L. **Aquifer Characterization*** | | | | | |
| 1. Pumping Test | | per hour | $24.54 | | $0.00 |
| 2. Slug Test | | per test | $203.80 | | $0.00 |
| 3. Fractured Rock | | per test | $106.70 | | $0.00 |

| | | | | | |
|---|---|---|---|---|---|
| M. **Free Product Recovery Rate Test*** | | each | $40.55 | | $0.00 |
| N. **Fate/Transport Modeling** | | | | | |
| 1. Mathematical Model | | each | $106.70 | | $0.00 |
| 2. Computer Model | | each | $106.70 | | $0.00 |
| O. **Risk Evaluation** | | | | | |
| 1. Tier I Risk Evaluation | | each | $320.10 | | $0.00 |
| 2. Tier II Risk Evaluation | | each | $106.70 | | $0.00 |
| P. **Subsequent Survey*** | | each | $260.00 | | $0.00 |
| Q. **Disposal (gallons or tons)*** | | | | | |
| 1. Wastewater | 100 | gallon | $0.60 | | $60.00 |
| 2. Free Product | | gallon | $0.53 | | $0.00 |
| 3. Soil Treatment/Disposal | | ton | $64.02 | | $0.00 |
| 4. Drilling fluids | | gallon | $0.45 | | $0.00 |
| R. **Miscellaneous (attach receipts)** | | | | | |
| | | each | $0.00 | | $0.00 |
| | | each | $0.00 | | $0.00 |
| | | each | $0.00 | | $0.00 |
| T. **Tier I Assessment (Use DHEC 3665 form)** | | | | | |
| 1. Southeast Region | | standard | $11,026.00 | | $0.00 |
| 2. All Other Counties | | standard | $12,093.00 | | $0.00 |
| **U. IGWA (Use DHEC 3666 form)** | | | | | |
| 1. Southeast Region | | standard | $3,803.00 | | $0.00 |
| 2. All Other Counties | | standard | $4,123.00 | | $0.00 |
| 22. **Corrective Action (Use DHEC 3667 form)** | | PFP Bid | | | $0.00 |
| W. **Aggressive Fluid & Vapor Recovery (AFVR)** | | | | | |
| 1. 8-hour Event* | | per event | $1,467.13 | | $0.00 |
| 2. 24-hour Event* | | per event | $4,081.28 | | $0.00 |
| 3. 48-hour Event* | | per event | $6,706.10 | | $0.00 |
| 4. 96-hour Event* | | per event | $13,409.52 | | $0.00 |
| 5. Off-gas Treatment 8 hour | | per event | $130.71 | | $0.00 |
| 6. Off-gas Treatment 24 hour | | per event | $257.68 | | $0.00 |
| 7. Off-gas Treatment 48 hour | | per event | $348.91 | | $0.00 |
| 8. Off-gas Treatment 96 hour | | per event | $832.26 | | $0.00 |
| 9. Off-gas Treatment 8 hour (w/chlorinated compounds) | | per event | $430.00 | | $0.00 |
| 10. Off-gas Treatment 24 hour (w/chlorinated compounds) | | per event | $500.00 | | $0.00 |
| 11. Off-gas Treatment 48 hour (w/chlorinated compounds) | | per event | $1,000.00 | | $0.00 |
| 12. Off-gas Treatment 96 hour (w/chlorinated compounds) | | per event | $2,000.00 | | $0.00 |
| 13. AFVR Effluent Disposal(w/chlorinated compounds) | | gallon | $0.50 | | $0.00 |
| 14. AFVR Site Reconnaissance | | each | $216.87 | | $0.00 |
| 15. Additional Hook-ups | | each | $27.48 | | $0.00 |
| 16. AFVR Effluent Disposal | | gallon | $0.47 | | $0.00 |
| 17. AFVR Mobilization/Demobilization | | each | $417.73 | | $0.00 |

| | | | | | |
|---|---|---|---|---|---|
| X. **Granulated Activated Carbon (GAC) filter system installation & service:** | | | | | |
| 1. New GAC System Installation* | | each | $2,027.30 | | $0.00 |
| 2. Refurbished GAC Sys. Install* | | each | $960.30 | | $0.00 |
| 3. Filter replacement/removal* | | each | $373.45 | | $0.00 |
| 4. GAC System removal, cleaning, & refurbishment* | | each | $293.43 | | $0.00 |
| 5. GAC System housing* | | each | $266.75 | | $0.00 |
| 6. In-line particulate filter | | each | $160.05 | | $0.00 |
| 7. Additional piping & fittings | | foot | $1.60 | | $0.00 |
| Y. **Well Repair** | | | | | |
| 1. Additional Copies of the Report Delivered | | each | $53.35 | | $0.00 |
| 2. Repair 2x2 MW pad* | | each | $53.35 | | $0.00 |
| 3. Repair 4x4 MW pad* | | each | $93.90 | | $0.00 |
| 4. Replace well vault* | | each | $125.91 | | $0.00 |
| 5. Replace well cover bolts | | each | $2.77 | | $0.00 |
| 6. Replace locking well cap & lock | | each | $16.00 | | $0.00 |
| 7. Replace/Repair stick-up* | | each | $142.98 | | $0.00 |
| 8. Convert Flush-mount to Stick-up* | | each | $160.05 | | $0.00 |
| 9. Convert Stick-up to Flush-mount* | | each | $138.71 | | $0.00 |
| 10. Replace missing/illegible well ID plate | | each | $12.80 | | $0.00 |
| **S. Report Prep & Project Management** | 12% | percent | $11,440.68 | | $1,372.88 |
| **TOTAL** | | | | | $12,813.56 |

DHEC D-4074 (1-2020) *The appropriate mobilization cost can be added to complete these tasks, as necessary

dhec
Healthy People. Healthy Communities.

MARTY EASLER
196 RICHBURG RD
GREELEYVILLE SC 29056

MAY 18 2022

Re: **Site Specific Work Plan Approval and Groundwater Sampling Notice to Proceed**
Tisdales Quick Stop, 1989 Thurgood Marshall Boulevard (Highway 527), Kingstree, SC
UST Permit #18686; CA #65476
Release #1 reported March 30, 2001
Site Specific Work Plan received May 3, 2022
Williamsburg County

Dear Mr. Easler:

The Underground Storage Tank Management Division (UST 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. The groundwater sampling event should begin immediately upon receipt of this letter. All work should be conducted in compliance with the current revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan, and all applicable regulations. The QAPP is available at scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance.

**The contractor must provide notification to the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes to the schedule, the UST Project Manager must be contacted within 24 hours of those changes.**

In accordance with Section IV.A.4.c of the SUPERB Site Rehabilitation & Fund Access Regulation (R.61-98), the contractor shall be required to indemnify the property owner, underground storage tank owner/operator and the State of South Carolina from and against all claims, damages, losses and expenses arising out of or resulting from activity conducted by the contractor, its agents, employees or subcontractors.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. **The Monitoring Report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the UST Division within sixty (60) days of the date of this correspondence.** 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.

Pursuant to S.C. Code Ann. Section 44-2-40(D), "The SUPERB Account and the SUPERB Financial Responsibility Fund shall provide combined coverage for site rehabilitation and third party claims, respectively, not to exceed one million dollars per occurrence". According to UST Division records, approximately $582,050.08 has been expended from the SUPERB Account to date. This scope of work, as recommended by your contractor, is anticipated to cost approximately $12,813.56.

Please note that sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that the SUPERB Account cannot compensate any costs that are not pre-approved. 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 UST 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 UST 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 a DHEC-certified site rehabilitation contractor as required by the SUPERB Site Rehabilitation and Fund Access Regulation, R.61-98.

The UST 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 the UST Permit number above. Should you have any questions, please contact me by phone at (803) 898-0500, by fax at (803) 898-0673, or by email at brownaj@dhec.sc.gov.

Sincerely,

Arthur Brown, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

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

# Approved Cost Agreement 65476

Facility: 18686 TISDALES QUICK STOP
BROWNAJ
PO Number: 92663

| Task / Description | Categories | Item Description | Qty / Pct | Unit Price | Amount |
|---|---|---|---|---|---|
| A PLAN PREPARATION | | | | | |
| | | 1 SITE SPECIFIC WORK PLAN | 1.0000 | $160.050 | 160.05 |
| D MOB/DEMOB | | | | | |
| | | 2 PERSONNEL | 2.0000 | $451.340 | 902.68 |
| J SAMPLE COLLECTION | | | | | |
| | | 1 GROUND WATER PURGE | 2.0000 | $64.020 | 128.04 |
| | | 3 WATER SUPPLY SAMPLE/ DUPLICATE | 3.0000 | $23.470 | 70.41 |
| | | 4 GROUNDWATER NO-PURGE/DUPL/GRAB | 37.0000 | $29.880 | 1,105.56 |
| | | 8 FIELD BLANK | 3.0000 | $26.250 | 78.75 |
| K ANALYSES | | | | | |
| | DW DRINKING WATER | 14 BTEXNM+1,2 DCA (524.2) WSW | 5.0000 | $132.360 | 661.80 |
| | | 15 OXYGENATES & ETHANOL 8260B WSW | 5.0000 | $97.900 | 489.50 |
| | | 16 EDB (504.1) WSW | 4.0000 | $84.830 | 339.32 |
| | GW GROUNDWATER | 1 BTEXNM+OXYGS+1,2-DCA+ETH-8260B | 42.0000 | $130.170 | 5,467.14 |
| | | 7 EDB BY EPA 8011 | 41.0000 | $48.230 | 1,977.43 |
| Q DISPOSAL | | | | | |
| | | 1 WASTEWATER | 100.0000 | $0.600 | 60.00 |
| S REPORT PROJECT MANAGEMENT | | | | | |
| | | S REPORT PREP & PROJ. MANAGEMENT | 0.1200 | $11,440.680 | 1,372.88 |
| | | | | Total Amount | 12,813.56 |

# CD's Information

**Date Received:** 7/15/22

**Permit Number:** 18686

**Project Manager:** Arthur Brown

**Contractor:** GBI

**Description:** GWM rpt

**Docket Number:** 84T **Initials:** _____

**Scanned by:** _____

**Verified by:** _____

Geological Resources, Inc.

July 11, 2022

Mr. Arthur Brown
SCDHEC
UST Management Division
Bureau of Land & Waste Management
2600 Bull Street
Columbia, SC 29201

Re: Ground Water Monitoring Report
June 2022
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County
South Carolina
UST Permit Number: 18686
GRI Project Number: 1543

Dear Mr. Brown,

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**

Geological Resources, Inc.

Ground Water Monitoring Report
June 2022
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County
South Carolina
UST Permit Number: 18686
GRI Project Number: 1543

Prepared for:

Mr. Marty Easler
196 Richburg Road
Greeleyville, South Carolina 29056

July 8, 2022

JOHN M. BROWN REGISTERED No. 1116 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

John M. Brown, P.G.
License No. 1116

W. Scott Ball
Project Manager

**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**
**Class 1 UST Site Rehabilitation Contractor #74**

**ACRONYMS**

ACM: Asbestos Containing Materials

AFVR: Aggressive Fluid-Vapor Recovery

AS: Air Sparging

AST: Aboveground Storage Tank

ASTM: American Society for Testing and Materials

BGS: Below Ground Surface

BLWM: Bureau of Land and Waste Management

CA: Cost Agreement

CAP: Corrective Action Plan

CFR: Code of Federal Regulations

COC: Chain of Custody

CoC: Chemical of Concern

DPE: Dual Phase Extraction

DRO: Total Petroleum Hydrocarbons Diesel Range Organics

EPA: Environmental Protection Agency

ER: Engineering Report

ESA: Environmental Site Assessment

GC: Gas Chromatograph

GRI: Geological Resources, Inc.

GRO: Total Petroleum Hydrocarbons Gasoline Range Organics

IGWA: Initial Ground Water Assessment

MCL: Maximum Contaminant Level

MDL: Method Detection Limit

MNA: Monitored Natural Attenuation

NAPL: Non-Aqueous Phase Liquid, “Free Product”

NPDES: National Pollutant Discharge Elimination System

OVA: Organic Vapor Analyzer

PAHs: Polynuclear Aromatic Hydrocarbons

QA: Quality Assurance

QAPP: Quality Assurance Project Plan

QC: Quality Control

QMP: Quality Management Plan

RBSL: Risk-Based Screening Level

SCDHEC: South Carolina Department of Health and Environmental Control

SCDOT: South Carolina Department of Transportation

SOP: Standard Operating Procedure

SPCC: Spill Prevention Control and Countermeasures

SSTL: Site Specific Target Level

SSWP: Site Specific Work Plan

SVE: Soil Vapor Extraction

SVOCs: Semi-Volatile Organic Compounds

SWPPP: Stormwater Pollution Prevention Plan

TCLP: Toxicity Characteristic Leaching Procedure (EPA Method SW-846 1311)

TOC: Top of Casing

TPH: Total Petroleum Hydrocarbons

USGS: United States Geological Survey

UST: Underground Storage Tank

UVF: Ultraviolet Fluorescence

VOCs: Volatile Organic Compounds

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Figure 4: Ground Water Quality 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: Field Data Information Sheets
Appendix C: Contractor Checklist

## 1. INTRODUCTION

### 1.1 Project Background

This report presents the results of ground water sampling activities conducted in June 2022 at the Tisdale's Quick Stop site, located at 1989 Thurgood Marshall Boulevard in Kingstree, Williamsburg County, South Carolina (**Figure 1**). The activities were conducted in accordance with the Site-Specific Work Plan Approval and Groundwater Sampling Notice to Proceed dated May 18, 2022 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 facility and convenience store. Adjacent properties are currently used for residential and commercial purposes.

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. According to the SCDHEC 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 USTs and one 1,000 gallon diesel UST were removed in March 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.

Five water supply wells (WSW-1 through WSW-5) were identified within 1,000 feet of the source area during a receptor survey conducted in January 2002. WSW-1 is located on an adjacent property approximately 170 feet northeast of the on-site source area. Water supply well WSW-2 is located approximately 650 feet to the southwest of the source area. Currently, WSW-2 is inoperable. Water supply wells WSW-3 through WSW-5 are located to the southeast of the source area on single family residential properties fronting the north side of Highway 527. Each of these properties has access to the municipal water supply, and the wells are not in use or are used for irrigation purposes only. No surface water bodies were identified within a 1,000-foot radius of the site.

Four recovery wells (RW-1 through RW-4) were installed in the area of highest contaminant concentrations in January 2019. Two 96-hour AFVR events were conducted in February 2019 on MW-2A, MW-16R, RW-1, RW-2, RW-3 and RW-4 to reduce concentrations of chemicals of concern. The last comprehensive ground water sampling event conducted at the site occurred in April 2021. This report summarizes the June 2022 ground water monitoring results. Please refer to earlier submittals for additional information regarding previous assessment activities.

### 1.2 Regional Geology/Hydrogeology

The site is located in Williamsburg County in the Lower Coastal Plain Physiographic Province of South Carolina. The Coastal Plain is an extensive geologic province that roughly parallels the Atlantic Ocean and continues northward and southward through the neighboring states. In South Carolina, the Coastal Plain is expressed physiographically in three regional belts: the Upper Coastal Plain, the Middle Coastal Plain and the Lower Coastal Plain. The surface deposits in the Coastal Plain are generally characterized by a recurrent sequence of clean fine to medium sand, muddy fine sand, and clean to muddy, medium to coarse sand or gravelly sand. These textures represent changes in depositional environments from beach, to back barrier, to river respectively.

The major aquifer systems in the Middle and Lower Coastal Plain are the Middendorf Aquifer System, the Black Creek Aquifer System, the Tertiary Aquifer System and the Surficial Aquifer System. The surficial aquifer system consists mostly of beds of unconsolidated sand, shelly sand and shell. In places, clay beds are sufficiently thick and continuous to divide the system into two or three aquifers; however, the system is mostly undivided. Complex interbedding of fine-and coarse-grained textured rocks is typical of the system. The thickness of the surficial aquifer system is typically less than 50 feet and thickens coastward. The rocks that comprise the surficial aquifer system range from late Miocene to Holocene in age.

## 2. SITE INFORMATION

- **Site Identification**
  - Site Name: Tisdale's Quick Stop
  - Location of Source Area: 1989 Thurgood Marshall Boulevard<br>Kingstree, SC 29526<br>Williamsburg County<br>33.6579897°N, 79.8127613°W (Topographical Map)
  - UST Permit Number: 18686
  - Land Use: Commercial

- **Information about Contacts Associated with the Leaking UST System**

**UST Owner/Operator**
Marty Easler
196 Richburg Road
Greeleyville, SC 29056
(843) 372-2502

**Analytical Laboratory**
SGS North America, Inc.
4405 Vineland Road, Suite C-15
Orlando, FL 32811
State Certification No. 96038001
(407) 425-6700

**Site Rehabilitation Contractor**
Geological Resources, Inc.
3502 Hayes Road
Monroe, NC 28110
704-845-4010
Class 1, Certification Number 74

**Property Owner**
Andy McKnight (Life)
316 McCullough Loop
Kingstree, SC 29566
(843) 382-2474

- **Information about Release**
  - Release was discovered March 30, 2001
  - An unknown amount of product was released from a leaking UST system
  - Two 550 gallon gasoline USTs and one 1,000 gallon diesel UST were removed March 1, 2001.

## 3. ASSESSMENT INFORMATION

### 3.1 Site Geology/Hydrogeology

Based on information obtained during the site assessment activities, the material encountered during subsurface exploration consisted of various silts, clays and sands to depths of approximately 51 feet, the maximum depth investigated.

Twenty four Type III monitoring wells (MW-1, MW-2, MW-3, MW-5R, MW-7, MW-8, MW-9, MW-11R, MW-12R, MW-13, MW-14, MW-15, MW-16R, MW-18R, MW-21, MW-23, MW-25 through MW-28, MW-31, MW-1A, MW-2A and MW-4A), two telescoping monitoring wells (TW-1 and TW-2), and two water supply wells (WSW-1 and WSW-3) were gauged, purged and/or sampled on June 6 and June 7, 2022. Please note, monitoring well MW-4 had an obstruction at 13.70 feet BGL and could not be gauged or sampled. Monitoring wells MW-3A, MW-6, MW-10, MW-17R, MW-19, MW-20, MW-22, MW-24, MW-29, and MW-30 were inaccessible or could not be located, therefore, they were neither gauged nor sampled. Measurable free product was not observed in any of the monitoring wells during the June 2022 gauging activities. However, a petroleum sheen was observed at monitoring wells MW-2, MW-1A, MW-2A, and MW-4A.

The depths to ground water in the Type III monitoring wells at the site, measured on June 6, 2022 ranged from 13.38 feet to 18.89 feet below the top of casings. The depths to ground water in telescoping wells TW-1 and TW-2 were 17.04 feet and 15.32 feet, respectively. Ground water elevations in the Type III monitoring wells relative to a temporary benchmark of 100.00 ranged from 79.02 to 82.91 feet. Based on this data, the general direction of ground water flow in the Type III wells was toward the west. The ground water elevations in telescoping wells TW-1 and TW-2 were 81.86 feet and 79.97 feet, respectively. The shallow horizontal hydraulic gradient calculated across the site was approximately 0.005 feet/foot. The vertical hydraulic gradient between paired wells MW-1/TW-1 was 0.035 feet/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 is included as **Figure 3**. A summary of ground water gauging data for the June 2022 sampling event is presented in **Table 1**. A summary of the June 2022 gauging data is shown below:

| **Well No.** | **Top of Casing Elevation** (ft) | **Depth to Ground Water** (ft) | **Ground Water Elevation** (ft) | **Constructed Well Depth** (ft) | **Screened Interval** (ft) |
|---|---|---|---|---|---|
| MW-1 | 98.80 | 15.89 | 82.91 | 20 | 10-20 |
| MW-2 | 98.81 | 16.14 | 82.67 | 25 | 10-25 |
| MW-3 | 98.75 | 15.98 | 82.77 | 25 | 10-25 |
| MW-5R | 98.23 | 15.96 | 82.27 | 25 | 10-25 |
| MW-7 | 98.20 | 15.62 | 82.58 | 22 | 12-22 |
| MW-8 | 98.14 | 15.85 | 82.29 | 22 | 12-22 |
| MW-9 | 98.50 | 16.88 | 81.62 | 22 | 12-22 |
| MW-11R | 95.13 | 14.31 | 80.82 | 20 | 5-20 |
| MW-12R | 96.04 | 14.73 | 81.31 | 20 | 5-20 |
| MW-13 | 98.97 | 16.66 | 82.31 | 25 | 10-25 |
| MW-14 | 98.37 | 15.73 | 82.64 | 25 | 10-25 |
| MW-15 | 99.53 | 17.36 | 82.17 | 25 | 10-25 |
| MW-16R | 97.98 | 16.03 | 81.95 | 25 | 10-25 |
| MW-18R | 99.36 | 18.22 | 81.14 | 25 | 10-25 |
| MW-21 | 95.68 | 15.79 | 79.89 | 23 | 8-23 |
| MW-23 | 95.78 | 15.56 | 80.22 | 24 | 9-24 |
| MW-25 | 94.28 | 14.12 | 80.16 | 23 | 8-23 |
| MW-26 | 93.92 | 13.38 | 80.54 | 21 | 6-21 |
| MW-27 | 98.18 | 18.89 | 79.29 | 25 | 10-25 |
| MW-28 | 98.43 | 18.24 | 80.19 | 25 | 10-25 |
| MW-31 | 95.95 | 16.93 | 79.02 | 20 | 10-20 |
| MW-1A | 97.17 | 15.51 | 81.66 | Unknown | Unknown |

| Well No. | Top of Casing Elevation (ft) | Depth to Ground Water (ft) | Ground Water Elevation (ft) | Constructed Well Depth (ft) | Screened Interval (ft) |
|---|---|---|---|---|---|
| MW-2A | 97.28 | 15.65 | 81.63 | Unknown | Unknown |
| MW-4A | 98.07 | 16.06 | 82.01 | Unknown | Unknown |
| TW-1 | 99.00 | 17.04 | 81.96 | 46 | 41-46 |
| TW-2 | 95.29 | 15.32 | 79.97 | 51 | 46-51 |

### 3.2 Ground Water Quality

Field readings (pH, specific conductivity, temperature, dissolved oxygen, and turbidity) were collected from the purged wells after each well volume was removed and recorded on field data information sheets. Ground water samples collected from the monitoring wells were analyzed for the following compounds: BTEX, MTBE, naphthalene, 1, 2-DCA and 8 oxygenates by EPA Method 8260D and EDB by Method 8011. The ground water samples collected from the water supply wells were submitted for analyses of BTEX, MTBE, naphthalene, and 1, 2-DCA by Method 524.2, 8 oxygenates by Method 8260D, and EDB by Method 504.1.

Concentrations of benzene, toluene, ethylbenzene, xylenes, MTBE and/or naphthalene that exceeded the RBSLs were reported in the ground water samples collected from MW-1, MW-2, MW-3, MW-16R, MW-1A, MW-2A, and MW-4A. Concentrations of the oxygenate TAA that exceeded the action level were reported in ground water samples collected from MW-1, MW-2, MW-16R, MW-2A and MW-4A. No detectable concentrations of requested method constituents were reported in the samples collected from water supply well samples WSW-1 or WSW-3. A summary of the June 2022 ground water sampling data is shown below:

| Well No. | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | Naphthalene | 1,2-DCA |
|---|---|---|---|---|---|---|---|
| **RBSL** (µg/l) | **5** | **1,000** | **700** | **10,000** | **40** | **25** | **5** |
| MW-1 | **2,140** | **4,220** | 322 | 2,500 | <11 | **104 J** | <16 |
| MW-2 | **8,050** | 870 | **721** | 3,260 | <5.7 | **245** | <7.8 |
| MW-3 | **17.2** | 3.6 | 4.0 | 2.3 J | <0.23 | 1.9 J | <0.31 |
| MW-5R | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-7 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-8 | 1.0 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-9 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-11R | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-12R | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-13 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-14 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-15 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-16R | **532** | **3,140** | 322 | 2,480 | <4.6 | **94.4 J** | <6.2 |
| MW-18R | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-23 | <0.31 | <0.30 | <0.36 | <0.72 | 5.6 | <1.0 | <0.31 |
| MW-25 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-26 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-27 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |

| Well No. | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | Naphthalene | 1,2-DCA |
|---|---|---|---|---|---|---|---|
| MW-28 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-31 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| MW-1A | **81.0** | 51.0 | 2.6 | 94.6 | <0.46 | 2.9 J | <0.62 |
| MW-2A | **19,900** | **22,500** | **2,310** | **12,200** | **173 J** | **618 J** | <62 |
| MW-4A | **1,140** | **5,320** | 379 | 7,040 | <23 | **197 J** | <31 |
| TW-1 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 |
| TW-2 | 1.0 | <0.30 | <0.36 | <0.72 | 1.9 | <1.0 | <0.31 |
| WSW-1 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 |
| WSW-3 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 |

A Ground Water Quality Map based on data from the June 2022 sampling event has been included as **Figure 4**. Summaries of ground water analytical results are presented in **Table 2** and **Table 3**. A complete laboratory analytical report has been included as **Appendix A**. Field Data Information Sheets are attached as **Appendix B**.

## 4. 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 (DUP B), MW-4A (DUP A), and from water supply well WSW-1 (DUP C), and field blanks were collected during the sampling activities. Laboratory provided trip blanks were included in the sample cooler. Laboratory results for each sample and their respective duplicate sample showed the same compounds at similar concentrations. No detectable concentrations of requested method constituents were reported in the field blanks or trip blanks. All applicable items on the Contractor Checklist were reviewed and verified. A copy of the Contractor Checklist is included as **Appendix C**.

## 5. CONCLUSIONS AND RECOMMENDATIONS

- Twenty- four Type III monitoring wells, two telescoping monitoring wells, and two water supply wells were gauged, purged and/or sampled on June 6 and June 7, 2022.
- The depths to ground water in the Type III monitoring wells ranged from 13.38 feet to 18.89 feet below the top of casings. The depths to ground water in telescoping wells TW-1 and TW-2 were 17.04 feet and 15.32 feet, respectively. Ground water elevations in the Type III monitoring wells relative to a temporary benchmark of 100.00 ranged from 79.02 to 82.91 feet. Based on this data, the general direction of ground water flow in the Type III wells was toward the west. The ground water elevations in telescoping wells TW-1 and TW-2 were 81.96 feet and 79.97 feet, respectively. The shallow horizontal hydraulic gradient calculated across the site was approximately 0.005 feet/foot. The vertical hydraulic gradient between paired wells MW-1/TW-1 was 0.035 feet/foot downward.
- Concentrations of benzene, toluene, ethylbenzene, xylenes, MTBE and/or naphthalene that exceeded the RBSLs were reported in the ground water samples collected from MW-1, MW-2, MW-3, MW-16R, MW-1A, MW-2A, and MW-4A. Concentrations of the oxygenate TAA that exceeded the action level

were reported in ground water samples collected from MW-1, MW-2, MW-16R, MW-2A, and MW-4A.

- GRI makes the following recommendations:
    - Additional AFVR events should be conducted to reduce concentrations of chemicals of concern.
    - Due to the presence of nearby water supply wells, ground water sampling events should continue at the site as directed by SCDHEC.

## 6. 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**

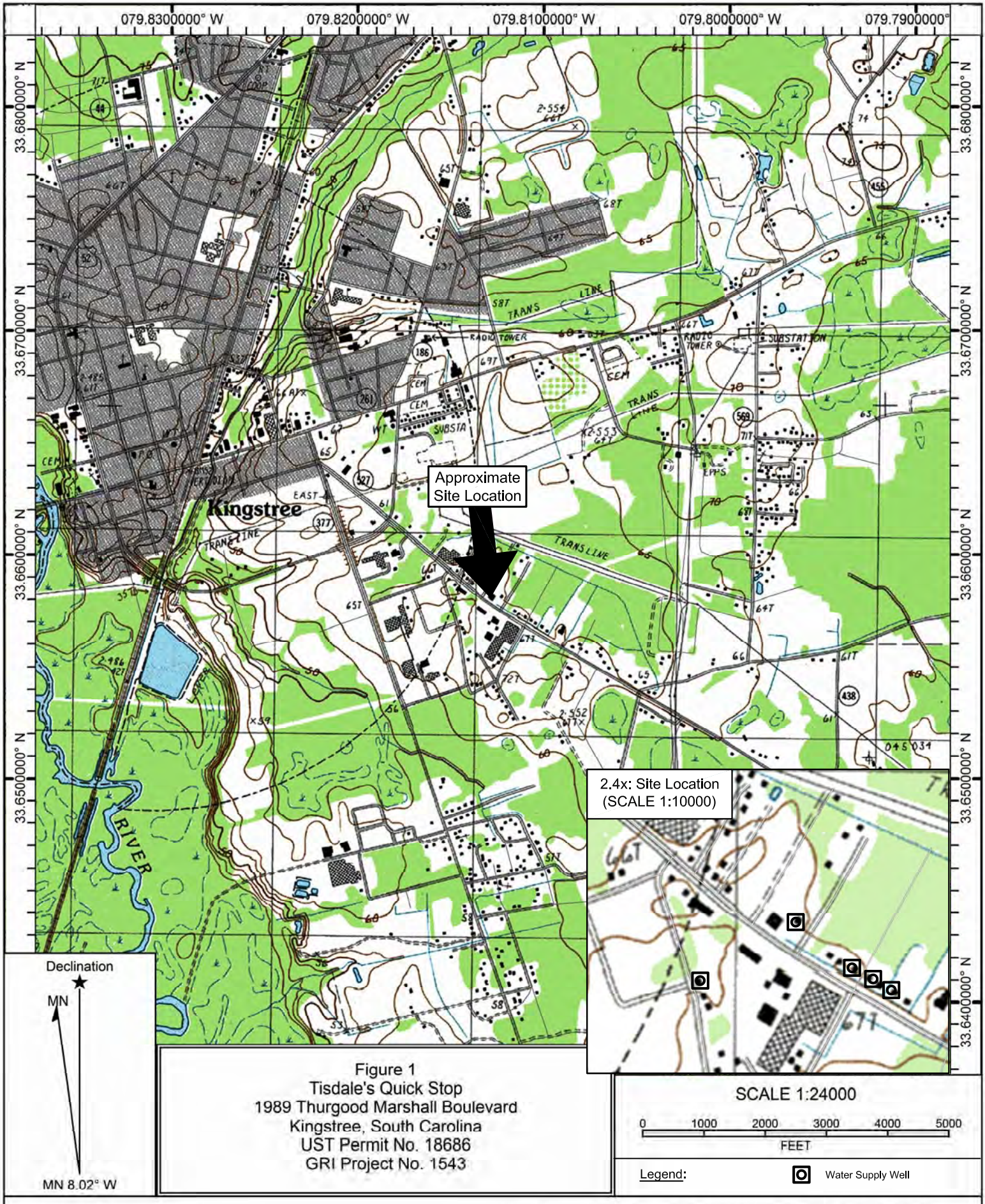



Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit No. 18686
GRI Project No. 1543

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
- RECOVERY WELL

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: 08/12/2020 | Drawn by: DTH | Figure: 2 |
|---|---|---|

C:\Users\DARHOWARD\Desktop\New folder (2)\1543\1543 Base Map.dwg, Model, 8/12/2020 9:11:33 AM, DARHOWARD

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
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND WATER LINE
- PP & OVERHEAD POWER LINE
- UNDERGROUND SEWER LINE
- UNDERGROUND GAS LINE
- UNDERGROUND FIBER OPTIC LINE
- DITCH
- FENCE
- BENCHMARK
- 82.0 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 (06/07/2022)

Tisdale's Quick Stop
UST Permit No. 18686
GRI Project No. 1543

1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County, SC

| Date: | 07/07/2022 | Drawn by: | DTH | Figure: | 3 |
|---|---|---|---|---|---|

## 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

| |
|---|
| **2,140** |
| **4,220** |
| 322 |
| 2,500 |
| <11 |
| **104 J** |

BENZENE
TOLUENE
ETHYLBENZENE
XYLENES
MTBE
NAPHTHALENE

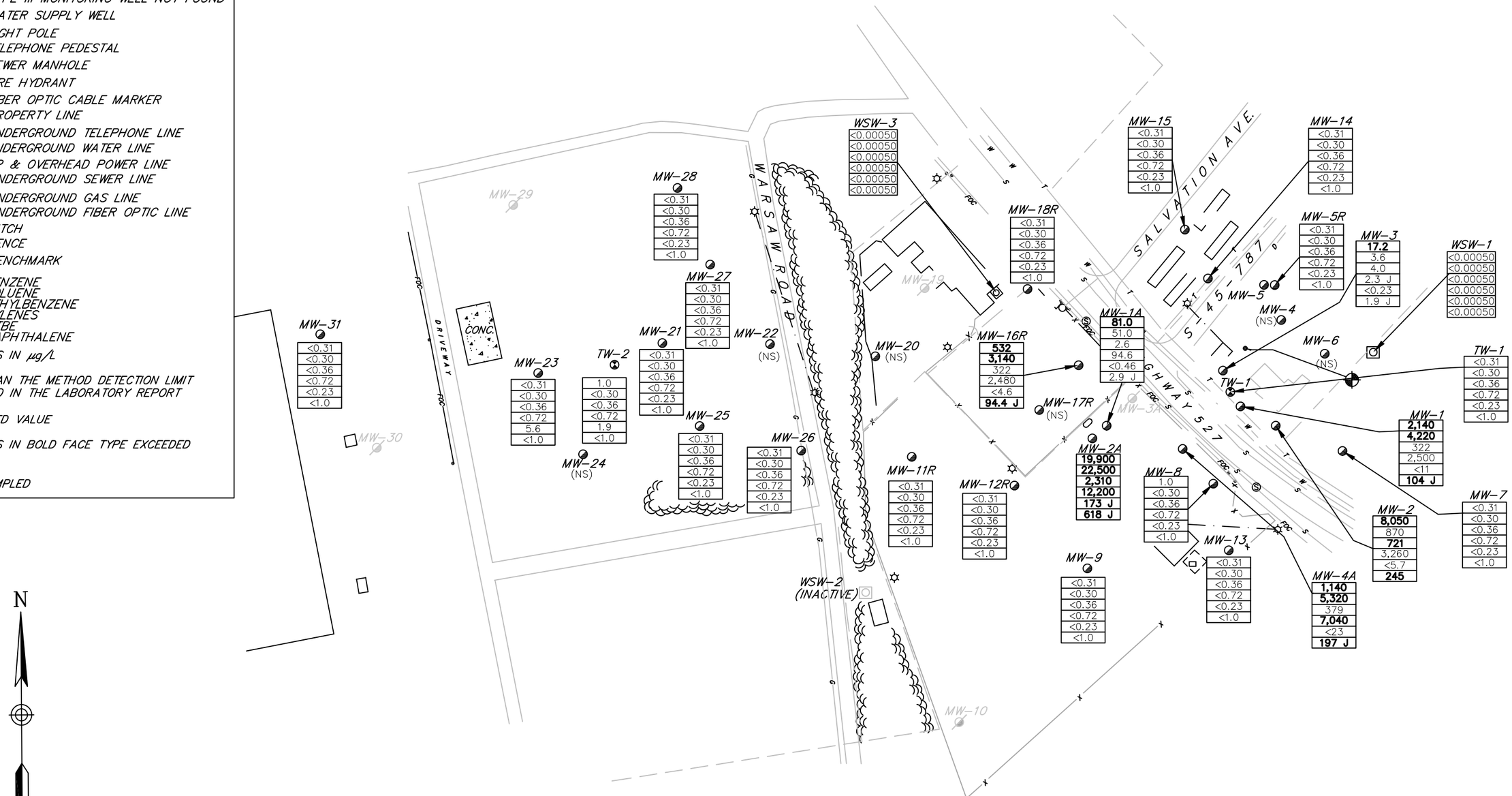
CONCENTRATIONS IN µg/L

<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.

0 50 100 200

( IN FEET )
1 inch = 100 ft

GROUND WATER QUALITY MAP (06/06/2022) & (06/07/2022)

Tisdale's Quick Stop
UST Permit No. 18686
GRI Project No. 1543

1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County, SC

Date: 07/07/2022 | 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 | | |
| | 07/16/20 | | 12.63 | --- | 86.17 | | |
| | 04/13/21 | | 10.80 | --- | 88.00 | | |
| | 06/07/22 | | 15.89 | --- | 82.91 | | |
| 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 | | |
| | 07/16/20 | | 12.88 | --- | 85.93 | | |
| | 04/13/21 | | 11.01 | --- | 87.80 | | |
| | 06/07/22 | | 16.14 | --- | 82.67 | | |

**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-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 | | |
| | 07/16/20 | | 12.77 | --- | 85.98 | | |
| | 04/13/21 | | 10.93 | --- | 87.82 | | |
| | 06/07/22 | | 15.98 | --- | 82.77 | | |
| 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 | | |
| | 07/16/20 | | 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-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 |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 10.65 | --- | 87.58 | | |
| | 06/07/22 | | 15.96 | --- | 82.27 | | |
| 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 | | |
| | 07/16/20 | | NM | --- | NM | | |
| | 04/13/21 | | NM | NM | NM | | |
| | 06/07/22 | | 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-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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | NM | NM | NM | | |
| | 06/07/22 | | 15.62 | --- | 82.58 | | |
| 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 | | |
| | 07/16/20 | | 12.46 | --- | 85.68 | | |
| | 04/13/21 | | 10.75 | --- | 87.39 | | |
| | 06/07/22 | | 15.85 | --- | 82.29 | | |

**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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 11.77 | --- | 86.73 | | |
| | 06/07/22 | | 16.88 | --- | 81.62 | | |
| 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 | | |

**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 | NM | | |
| MW-11R | 04/18/18 | 95.13 | 11.94 | --- | 83.19 | 20 | 5-20 |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 9.51 | --- | 85.62 | | |
| | 06/07/22 | | 14.31 | --- | 80.82 | | |
| 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 | NM | | |
| MW-12R | 04/18/18 | 96.04 | 12.33 | --- | 83.71 | 20 | 5-20 |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 9.76 | --- | 86.28 | | |
| | 06/07/22 | | 14.73 | --- | 81.31 | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 11.51 | --- | 87.46 | | |
| | 06/07/22 | | 16.66 | --- | 82.31 | | |

**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 | | |
| | 07/16/20 | | 12.76 | --- | 85.61 | | |
| | 04/13/21 | | 10.97 | --- | 87.40 | | |
| | 06/07/22 | | 15.73 | --- | 82.64 | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 12.53 | --- | 87.00 | | |
| | 06/07/22 | | 17.36 | --- | 82.17 | | |

**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 | NM | | |
| MW-16R | 04/18/18 | 97.98 | 13.83 | --- | 84.15 | 25 | 10-25 |
| | 07/16/20 | | 12.75 | --- | 85.23 | | |
| | 04/13/21 | | 11.16 | --- | 86.82 | | |
| | 06/07/22 | | 16.03 | --- | 81.95 | | |
| 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 | NM | | |
| MW-17R | 04/18/18 | 96.90 | 13.10 | --- | 83.80 | 25 | 10-25 |
| | 07/16/20 | | 12.22 | --- | 84.68 | | |
| | 04/13/21 | | 10.61 | --- | 86.29 | | |
| | 06/07/22 | | NM | 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 | NM | | |
| MW-18R | 04/18/18 | 99.36 | 15.86 | --- | 83.50 | 25 | 10-25 |
| | 07/16/20 | | NM | --- | NM | | |
| | 04/13/21 | | 13.37 | --- | 85.99 | | |
| | 06/07/22 | | 18.22 | --- | 81.14 | | |

**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 | | |
| | 04/13/21 | | NM | NM | NM | | |
| | 06/07/22 | | 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | NM | NM | NM | | |
| | 06/07/22 | | 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-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 | 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 11.06 | --- | 84.62 | | |
| | 06/07/22 | | 15.79 | --- | 79.89 | | |
| 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 | | |
| | 07/16/20 | | 13.17 | --- | 83.45 | | |
| | 04/13/21 | | NM | NM | NM | | |
| | 06/07/22 | | 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-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 | | |
| | 07/16/20 | | 12.99 | --- | 82.79 | | |
| | 04/13/21 | | 11.46 | --- | 84.32 | | |
| | 06/07/22 | | 15.56 | --- | 80.22 | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 9.31 | --- | 84.54 | | |
| | 06/07/22 | | 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-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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 9.42 | --- | 84.86 | | |
| | 06/07/22 | | 14.12 | --- | 80.16 | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 8.91 | --- | 85.01 | | |
| | 06/07/22 | | 13.38 | --- | 80.54 | | |

**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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 13.27 | --- | 84.91 | | |
| | 06/07/22 | | 18.89 | --- | 79.29 | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 13.63 | --- | 84.80 | | |
| | 06/07/22 | | 18.24 | --- | 80.19 | | |

**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-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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 12.53 | --- | 83.42 | | |
| | 06/07/22 | | 16.93 | --- | 79.02 | | |
| 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 | | |
| | 07/16/20 | | 12.22 | --- | 84.95 | | |
| | 04/13/21 | | 10.64 | --- | 86.53 | | |
| | 06/07/22 | | 15.51 | --- | 81.66 | | |

**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 | | |
| | 07/16/20 | | 12.36 | --- | 84.92 | | |
| | 04/13/21 | | 10.93 | --- | 86.35 | | |
| | 06/07/22 | | 15.65 | --- | 81.63 | | |
| 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 | | |
| | 07/16/20 | | 12.69 | --- | 85.38 | | |
| | 04/13/21 | | 11.01 | --- | 87.06 | | |
| | 06/07/22 | | 16.06 | --- | 82.01 | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 12.02 | --- | 86.98 | | |
| | 06/07/22 | | 17.04 | --- | 81.96 | | |

**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 | | |
| | 07/16/20 | | 12.22 | --- | 83.07 | | |
| | 04/13/21 | | 10.71 | --- | 84.58 | | |
| | 06/07/22 | | 15.32 | --- | 79.97 | | |

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; gauging not request by SCDHEC.
- 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 |
| | 07/16/20 | **101** | 437 | 98.7 | 654 | <1.1 | **45.7** | <1.6 | <0.0096 |
| | 04/13/21 | **1,230** | **2,040** | 53.4 | 2,640 | **53.1** | **117 J** | <16 | <0.0050 |
| | 06/07/22 | **2,140** | **4,220** | 322 | 2,500 | <11 | **104 J** | <16 | <0.0093 |
| 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 |
| | 07/16/20 | **214** | 820 | 179 | 1,210 | <2.3 | **86.1** | <3.1 | <0.0095 |
| | 04/13/21 | **1,240** | **2,000** | 53.4 | 2,590 | **56.2** | **120 J** | <16 | <0.0050 |
| | 06/07/22 | **1,560** | **2,840** | 278 | 2,060 | 32.5 J | **97.5 J** | <16 | <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** |
| | 04/18/18 | **8,520** | **18,000** | **1,520** | 8,740 | <46 | **339 J** | <62 | **0.38** |
| | 07/16/20 | **1,100** | 390 | 197 | 937 | <4.6 | **68.8 J** | <6.2 | <0.0093 |
| | 04/13/21 | **1,990** | 434 | 329 | 1,380 | 8.5 J | **139** | <7.8 | <0.0050 |
| | 06/07/22 | **8,050** | 870 | **721** | 3,260 | <5.7 | **245** | <7.8 | <0.0093 |
| MW-2 DUP | 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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0095 |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/07/22 | **17.2** | 3.6 | 4.0 | 2.3 J | <0.23 | 1.9 J | <0.31 | <0.0093 |
| MW-3 | 06/24/15 | 0.24 J | 14.2 | 16.1 | 112 | <0.30 | 8.1 | <0.20 | <0.0095 |
| DUP | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | 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-5R | 04/18/18 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| MW-6 | 01/17/03 | <1.0 | <1.0 | 1.9 | 3.8 | <1.0 | 7.0 | - | <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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/07/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0095 |
| 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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/07/22 | 1.0 | <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 |
| MW-8 | 11/06/13 | 0.33 J | <0.20 | <0.29 | <0.50 | <0.21 | <1.0 | <0.22 | NR |
| DUP | 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 |
| | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <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 |
| | 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 |
| MW-11R | 04/18/18 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/07/22 | <0.31 | <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-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 |
| MW-12R | 04/18/18 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0093 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0095 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | 2.4 | <1.0 | <0.31 | <0.0049 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| 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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | 0.013 J |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/07/22 | <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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| 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 |
| MW-16R | 04/18/18 | **16,300** | **59,700** | **6,460** | **34,900** | **56.7 J** | **1,320** | <62 | **0.21** |
| | 07/16/20 | **209** | **4,420** | 652 | 5,340 | <11 | **54.9 J** | <16 | <0.0094 |
| | 04/13/21 | **162** | **1,190** | 488 | 3,370 | <4.6 | **85.1 J** | <6.2 | <0.0050 |
| | 06/07/22 | **532** | **3,140** | 322 | 2,480 | <4.6 | **94.4 J** | <6.2 | <0.0092 |
| 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 |
| | 07/16/20 | **26.2** | 325 | 87.1 | 387 | 4.3 J | 13.6 J | <1.6 | <0.0094 |
| | 04/13/21 | 3.2 | 3.7 | 5.6 | 75.6 | 2.1 | 2.2 J | <0.31 | <0.0051 |
| | 06/07/22 | 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 |
| MW-18R | 04/18/18 | 1.9 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0093 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/07/22 | <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-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 | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/06/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/06/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0092 |

**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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | 0.58 J | <1.0 | <0.31 | 0.028 |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/06/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | 4.6 | <1.0 | <0.31 | <0.0095 |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/06/22 | <0.31 | <0.30 | <0.36 | <0.72 | 5.6 | <1.0 | <0.31 | <0.0093 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0051 |
| | 06/06/22 | 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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/06/22 | <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 |
| | 04/18/18 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0095 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/06/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <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 |
| | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/06/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0093 |

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**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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/06/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0095 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0097 |
| 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 |
| | 07/16/20 | **869** | **2,180** | 50.5 | 1,840 | <5.7 | <25 | <7.8 | <0.0093 |
| | 04/13/21 | **132** | 116 | 3.5 | 344 | <0.46 | 6.4 J | <0.62 | <0.0050 |
| | 06/07/22 | **81.0** | 51.0 | 2.6 | 94.6 | <0.46 | 2.9 J | <0.62 | <0.0096 |
| 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** |
| | 07/16/20 | **3,970** | **9,330** | 571 | 5,290 | <11 | **272** | <16 | <0.0094 |
| | 04/13/21 | **3,300** | **8,950** | 526 | 8,970 | <46 | **253 J** | <62 | 0.0094 J |
| | 06/07/22 | **19,900** | **22,500** | **2,310** | **12,200** | **173 J** | **618 J** | <62 | **0.16** |
| MW-2A DUP | 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** |
| | 07/16/20 | **3,560** | **10,800** | 289 | 4,560 | <46 | <200 | <62 | <0.0095 |
| | 04/13/21 | **5,590** | **17,300** | 584 | **10,100** | <57 | <250 | <78 | 0.0086 J |
| | 06/07/22 | **1,140** | **5,320** | 379 | 7,040 | <23 | **197 J** | <31 | <0.0097 |
| MW-4A DUP | 06/24/15 | **8,140** | **37,100** | **2,460** | **19,900** | 7.4 | **867 J** | 1.6 | **0.16** |
| | 04/13/21 | **5,250** | **15,900** | 544 | 9,680 | <46 | <200 | <62 | 0.013 J |
| | 06/07/22 | **974** | **6,100** | 302 | 6,900 | <4.6 | **203** | <6.2 | <0.0094 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/07/22 | <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 |
| | 04/18/18 | **18.3** | <0.30 | <0.36 | <0.72 | 1.4 | <1.0 | <0.31 | <0.0095 |
| | 07/16/20 | 1.5 | <0.30 | <0.36 | <0.72 | 0.67 J | <1.0 | <0.31 | <0.0092 |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | 1.6 | <1.0 | <0.31 | <0.0050 |
| | 06/07/22 | 1.0 | <0.30 | <0.36 | <0.72 | 1.9 | <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 |
| | 04/19/18 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.0040 |
| | 07/16/20 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0042 |
| | 04/13/21 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0038 |
| | 06/07/22 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.0039 |
| WSW-1 DUP | 04/19/18 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.0040 |
| | 07/16/20 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0040 |
| | 06/07/22 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.0039 |
| 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 |
| | 07/16/20 | 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 |
| | 07/16/20 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.042 |
| | 04/13/21 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0039 |
| | 06/07/22 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.0039 |
| WSW-3 DUP | 03/08/17 | <0.080 | <0.070 | <0.060 | <0.32 | <0.10 | <0.050 | <0.12 | <0.0086 |
| | 04/13/21 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0039 |

**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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0096 |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/06/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0093 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| 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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | NR |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | NR |
| | 06/06/22 | <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 | 1 | <0.0087 |
| | 04/19/18 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.0040 |
| | 07/16/20 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0040 |
| | 04/13/21 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0039 |
| | 06/07/22 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.0039 |
| 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 |
| | 07/16/20 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | NR |
| | 04/13/21 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | NR |
| | 06/07/22 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | 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; sampling not requested by SCDHEC.
- 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 | <2,300 | <20 | **12,200** | <22 | <880 | <400 |
| | 06/24/15 | <20 | <1,000 | <3,500 | <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 |
| | 07/16/20 | <1.2 | <50 | <410 | <1.2 | **265** | <1.2 | <27 | <25 |
| | 04/13/21 | <12 | <500 | <4,100 | <12 | **4,710** | <12 | <270 | <250 |
| | 06/07/22 | <12 | <500 | <4,100 | <12 | **4,220** | <12 | <270 | <250 |
| 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 |
| | 07/16/20 | <2.4 | <100 | <820 | <2.4 | **427** | <2.4 | <53 | <50 |
| | 04/13/21 | <12 | <500 | <4,100 | <12 | **5,330** | <12 | <270 | <250 |
| | 06/07/22 | <12 | <500 | <4,100 | <12 | **3,650** | <12 | <270 | <250 |
| 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 |
| | 07/16/20 | <4.8 | <200 | <1,600 | <4.7 | **703** | <4.9 | <110 | <100 |
| | 04/13/21 | <6.0 | <250 | <2,000 | <5.9 | **5,880** | <6.1 | <130 | <130 |
| | 06/07/22 | <6.0 | <250 | <2,000 | <5.9 | **11,300** | <6.1 | 213 J | <130 |
| MW-2 DUP | 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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | 9.1 J | <0.24 | <5.3 | <5.0 |
| MW-3 DUP | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/07/22 | <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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | 0.76 J | <5.3 | <5.0 |
| | 06/07/22 | <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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <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-16R | 04/18/18 | <48 | <2,000 | <16,000 | <47 | **20,100** | <49 | <1,100 | <1,000 |
| | 07/16/20 | <12 | <500 | <4,100 | <12 | <260 | <12 | <270 | <250 |
| | 04/13/21 | <4.8 | <200 | <1,600 | <4.7 | **376 J** | <4.9 | <110 | <100 |
| | 06/07/22 | <4.8 | <200 | <1,600 | <4.7 | **794** | <4.9 | <110 | <100 |
| MW-17R | 04/18/18 | <4.8 | <200 | <1,600 | 11.6 J | **4,690** | 11.0 J | <110 | <100 |
| | 07/16/20 | <1.2 | <50 | <410 | <1.2 | <26 | <1.2 | <27 | <25 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | 13.2 J | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | 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-18R | 04/18/18 | <0.24 | <10 | <82 | <0.24 | 41.3 | <0.24 | <5.3 | <5.0 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <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-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 | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/07/22 | 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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <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 |
| | 04/18/18 | 0.51 J | <10 | <82 | 0.67 J | **1,150** | 2.8 | 48.1 | <5.0 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/06/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | 103 | 0.29 J | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <0.24 | <10 | <82 | <0.24 | 120 | 0.45 J | 5.9 J | <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 |
| | 04/18/18 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <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 |
| | 04/18/18 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <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 |

**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 |
| | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <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 |
| | 07/16/20 | <6.0 | <250 | <2,000 | <5.9 | **979** | <6.1 | <130 | <130 |
| | 04/13/21 | <0.48 | <20 | <160 | <0.47 | **1,100** | <0.49 | <11 | <10 |
| | 06/07/22 | <0.48 | <20 | <160 | <0.47 | 153 | <0.49 | <11 | <10 |

**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 |
| | 04/18/18 | 39.1 J | <1,000 | <8,200 | <24 | **43,700** | 87.0 J | <530 | <500 |
| | 07/16/20 | <12 | <500 | <4,100 | <12 | **5,160** | 14.2 J | <270 | <250 |
| | 04/13/21 | <48 | <2,000 | <16,000 | <47 | **4,010** | <49 | <1,100 | <1,000 |
| | 06/07/22 | <48 | <2,000 | <16,000 | <47 | **36,400** | <49 | <1,100 | <1,000 |
| MW-2A DUP | 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 |

**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-3A DUP | 03/09/17 | <120 | <5,000 | <41,000 | <120 | **15,700** | <120 | <2,700 | <2,500 |
| 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 |
| | 07/16/20 | <48 | <2,000 | <16,000 | <47 | **2,120 J** | <49 | <1,100 | <1,000 |
| | 04/13/21 | <60 | <2,500 | <20,000 | <59 | **2,510 J** | <61 | <1,300 | <1,300 |
| | 06/07/22 | <24 | <1,000 | <8,200 | <24 | **1,190 J** | <24 | <530 | <500 |
| MW-4A DUP | 06/24/15 | <0.20 | <10 | <35 | 6.1 | **4,840** | 22.6 | <5.4 | <4.0 |
| | 04/13/21 | <48 | <2,000 | <16,000 | <47 | **2,670 J** | <49 | <1,100 | <1,000 |
| | 06/07/22 | <4.8 | <200 | <1,600 | <4.7 | **1,100** | <4.9 | <110 | <100 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | 29.0 | <0.25 | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | 52.1 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | 86.2 | <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 |
| | 07/16/20 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 04/13/21 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 06/07/22 | <0.40 | <8.0 | <52 | <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 |
| | 07/16/20 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| WSW-1 DUP C | 06/07/22 | <0.40 | <8.0 | <52 | <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 |
| | 07/16/20 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 04/13/21 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 06/07/22 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <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** |
| WSW-3 | 03/08/17 | <0.40 | <8.0 | <40 | <0.40 | <8.0 | <0.40 | <8.0 | <2.0 |
| DUP | 04/13/21 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| 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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <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 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 04/13/21 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | 0.96 J | <2.0 |
| | 06/07/22 | <0.40 | <8.0 | <52 | <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 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 04/13/21 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | 1.8 J | <2.0 |
| | 06/07/22 | <0.40 | <8.0 | <52 | <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; sampling not requested by SCDHEC.
- FP: Free Product.
- Concentrations in bold face type exceeded the Action Level.

**APPENDICES**

**APPENDIX A**

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: FA96403

Sampling Dates: 06/06/22 - 06/07/22

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: **138**

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), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AL, AK, AR, CT, IA, KY, MA, MI. MS, ND, NH, NV, OK, OR, IL, UT, VT, WA, WI, WV

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June 30, 2022

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

RE: SGS North America Inc. - Orlando job FA96403 Reissue

Dear Mr. Ball,

The final report for job number FA96403 has been edited to reflect requested corrections. These edits have been incorporated into the revised report.

Sample ID has been revised.

SGS North America Inc. - Orlando apologies for any inconvenience this may have caused. Please feel free to contact us if we can be of further assistance.

Sincerely,

SGS North America, Inc. - Orlando

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SGS North America Inc.

# Sample Summary

GRI (Geological Resources Inc.)

**Job No:** FA96403

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 |
|---|---|---|---|---|---|---|---|
| This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the MDL | | | | | | | |
| FA96403-1 | 06/07/22 | 14:25 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-1 |
| FA96403-2 | 06/07/22 | 14:26 | JB | 06/09/22 | AQ | Ground Water | 18686 DUP A |
| FA96403-3 | 06/07/22 | 14:34 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-2 |
| FA96403-4 | 06/07/22 | 14:07 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-3 |
| FA96403-5 | 06/07/22 | 14:00 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-5R |
| FA96403-6 | 06/07/22 | 13:58 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-7 |
| FA96403-7 | 06/07/22 | 09:03 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-8 |
| FA96403-8 | 06/07/22 | 10:08 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-9 |
| FA96403-9 | 06/07/22 | 13:52 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-11R |
| FA96403-10 | 06/07/22 | 10:40 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-12R |
| FA96403-11 | 06/07/22 | 08:55 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-13 |
| FA96403-12 | 06/07/22 | 14:42 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-14 |

# Sample Summary
(continued)

GRI (Geological Resources Inc.)

**Job No:** FA96403

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 |
|---|---|---|---|---|---|---|---|
| FA96403-13 | 06/07/22 | 14:52 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-15 |
| FA96403-14 | 06/07/22 | 11:07 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-16R |
| FA96403-15 | 06/07/22 | 11:16 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-18R |
| FA96403-16 | 06/06/22 | 16:44 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-21 |
| FA96403-17 | 06/06/22 | 16:56 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-23 |
| FA96403-18 | 06/06/22 | 17:07 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-25 |
| FA96403-19 | 06/06/22 | 16:11 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-26 |
| FA96403-20 | 06/06/22 | 16:22 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-27 |
| FA96403-21 | 06/06/22 | 16:30 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-28 |
| FA96403-22 | 06/07/22 | 11:35 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-31 |
| FA96403-23 | 06/07/22 | 09:42 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-1A |
| FA96403-24 | 06/07/22 | 09:55 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-2A |
| FA96403-25 | 06/07/22 | 09:55 | JB | 06/09/22 | AQ | Ground Water | 18686 MW-4A |

# Sample Summary
(continued)

GRI (Geological Resources Inc.)

**Job No:** FA96403

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 |
|---|---|---|---|---|---|---|---|
| FA96403-26 | 06/07/22 | 15:21 | JB | 06/09/22 | AQ | Ground Water | 18686 TW-1 |
| FA96403-27 | 06/07/22 | 12:20 | JB | 06/09/22 | AQ | Ground Water | 18686 TW-2 |
| FA96403-28 | 06/07/22 | 14:26 | JB | 06/09/22 | AQ | Ground Water | 18686 DUP-B |
| FA96403-29 | 06/07/22 | 17:13 | JB | 06/09/22 | AQ | Field Blank Water | 18686 FB-1 |
| FA96403-30 | 06/07/22 | 15:50 | JB | 06/09/22 | AQ | Field Blank Water | 18686 FB-2 |
| FA96403-31 | 06/07/22 | 15:42 | JB | 06/09/22 | DW | Drinking Water | 18686 WSW-1 |
| FA96403-32 | 06/07/22 | 15:37 | JB | 06/09/22 | DW | Drinking Water | 18686 WSW-3 |
| FA96403-33 | 06/07/22 | 15:43 | JB | 06/09/22 | DW | Drinking Water | 18686 WSW-DUP C |
| FA96403-34 | 06/07/22 | 15:53 | JB | 06/09/22 | DW | Drinking Water FB | 18686 WSW-FB |
| FA96403-35 | 06/07/22 | 08:05 | JB | 06/09/22 | DW | Drinking Water TB | 18686 WSW FB |
| FA96403-36 | 06/06/22 | 08:00 | JB | 06/09/22 | AQ | Trip Blank Water | 18686 MW-TB |

# Summary of Hits

**Job Number:** FA96403
**Account:** GRI (Geological Resources Inc.)
**Project:** Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
**Collected:** 06/06/22 thru 06/07/22

| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **FA96403-1** | **18686 MW-1** | | | | | |
| Benzene | | 2140 | 50 | 16 | ug/l | SW846 8260D |
| Toluene | | 4220 | 50 | 15 | ug/l | SW846 8260D |
| Ethylbenzene | | 322 | 50 | 18 | ug/l | SW846 8260D |
| Xylene (total) | | 2500 | 150 | 36 | ug/l | SW846 8260D |
| Naphthalene | | 104 J | 250 | 50 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol | | 4220 | 1000 | 260 | ug/l | SW846 8260D |
| **FA96403-2** | **18686 DUP A** | | | | | |
| Benzene | | 974 | 20 | 6.2 | ug/l | SW846 8260D |
| Toluene | | 6100 | 100 | 30 | ug/l | SW846 8260D |
| Ethylbenzene | | 302 | 20 | 7.1 | ug/l | SW846 8260D |
| Xylene (total) | | 6900 | 300 | 72 | ug/l | SW846 8260D |
| Naphthalene | | 203 | 100 | 20 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol | | 1100 | 400 | 110 | ug/l | SW846 8260D |
| **FA96403-3** | **18686 MW-2** | | | | | |
| Benzene | | 8050 | 100 | 31 | ug/l | SW846 8260D |
| Toluene | | 870 | 25 | 7.5 | ug/l | SW846 8260D |
| Ethylbenzene | | 721 | 25 | 8.9 | ug/l | SW846 8260D |
| Xylene (total) | | 3260 | 75 | 18 | ug/l | SW846 8260D |
| Naphthalene | | 245 | 130 | 25 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol | | 11300 | 500 | 130 | ug/l | SW846 8260D |
| Tert-Butyl Alcohol | | 213 J | 500 | 130 | ug/l | SW846 8260D |
| **FA96403-4** | **18686 MW-3** | | | | | |
| Benzene | | 17.2 | 1.0 | 0.31 | ug/l | SW846 8260D |
| Toluene | | 3.6 | 1.0 | 0.30 | ug/l | SW846 8260D |
| Ethylbenzene | | 4.0 | 1.0 | 0.36 | ug/l | SW846 8260D |
| Xylene (total) | | 2.3 J | 3.0 | 0.72 | ug/l | SW846 8260D |
| Naphthalene | | 1.9 J | 5.0 | 1.0 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol | | 9.1 J | 20 | 5.3 | ug/l | SW846 8260D |
| **FA96403-5** | **18686 MW-5R** | | | | | |
| No hits reported in this sample. | | | | | | |
| **FA96403-6** | **18686 MW-7** | | | | | |
| No hits reported in this sample. | | | | | | |

# Summary of Hits

**Job Number:** FA96403
**Account:** GRI (Geological Resources Inc.)
**Project:** Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
**Collected:** 06/06/22 thru 06/07/22

| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **FA96403-7** | **18686 MW-8** | | | | | |
| Benzene | | 1.0 | 1.0 | 0.31 | ug/l | SW846 8260D |
| **FA96403-8** | **18686 MW-9** | | | | | |
| No hits reported in this sample. | | | | | | |
| **FA96403-9** | **18686 MW-11R** | | | | | |
| No hits reported in this sample. | | | | | | |
| **FA96403-10** | **18686 MW-12R** | | | | | |
| No hits reported in this sample. | | | | | | |
| **FA96403-11** | **18686 MW-13** | | | | | |
| No hits reported in this sample. | | | | | | |
| **FA96403-12** | **18686 MW-14** | | | | | |
| No hits reported in this sample. | | | | | | |
| **FA96403-13** | **18686 MW-15** | | | | | |
| No hits reported in this sample. | | | | | | |
| **FA96403-14** | **18686 MW-16R** | | | | | |
| Benzene | | 532 | 20 | 6.2 | ug/l | SW846 8260D |
| Toluene | | 3140 | 50 | 15 | ug/l | SW846 8260D |
| Ethylbenzene | | 322 | 20 | 7.1 | ug/l | SW846 8260D |
| Xylene (total) | | 2480 | 60 | 14 | ug/l | SW846 8260D |
| Naphthalene | | 94.4 J | 100 | 20 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol | | 794 | 400 | 110 | ug/l | SW846 8260D |
| **FA96403-15** | **18686 MW-18R** | | | | | |
| No hits reported in this sample. | | | | | | |
| **FA96403-16** | **18686 MW-21** | | | | | |
| No hits reported in this sample. | | | | | | |

# Summary of Hits

**Job Number:** FA96403
**Account:** GRI (Geological Resources Inc.)
**Project:** Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
**Collected:** 06/06/22 thru 06/07/22

| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **FA96403-17** | **18686 MW-23** | | | | | |
| Methyl Tert Butyl Ether | | 5.6 | 1.0 | 0.23 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol | | 120 | 20 | 5.3 | ug/l | SW846 8260D |
| Tert-Amyl Methyl Ether | | 0.45 J | 2.0 | 0.24 | ug/l | SW846 8260D |
| Tert-Butyl Alcohol | | 5.9 J | 20 | 5.3 | ug/l | SW846 8260D |
| **FA96403-18** | **18686 MW-25** | | | | | |
| No hits reported in this sample. | | | | | | |
| **FA96403-19** | **18686 MW-26** | | | | | |
| No hits reported in this sample. | | | | | | |
| **FA96403-20** | **18686 MW-27** | | | | | |
| No hits reported in this sample. | | | | | | |
| **FA96403-21** | **18686 MW-28** | | | | | |
| No hits reported in this sample. | | | | | | |
| **FA96403-22** | **18686 MW-31** | | | | | |
| No hits reported in this sample. | | | | | | |
| **FA96403-23** | **18686 MW-1A** | | | | | |
| Benzene [a] | | 81.0 | 2.0 | 0.62 | ug/l | SW846 8260D |
| Toluene [a] | | 51.0 | 2.0 | 0.60 | ug/l | SW846 8260D |
| Ethylbenzene [a] | | 2.6 | 2.0 | 0.71 | ug/l | SW846 8260D |
| Xylene (total) [a] | | 94.6 | 6.0 | 1.4 | ug/l | SW846 8260D |
| Naphthalene [a] | | 2.9 J | 10 | 2.0 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol [a] | | 153 | 40 | 11 | ug/l | SW846 8260D |
| **FA96403-24** | **18686 MW-2A** | | | | | |
| Benzene | | 19900 | 200 | 62 | ug/l | SW846 8260D |
| Toluene | | 22500 | 250 | 75 | ug/l | SW846 8260D |
| Ethylbenzene | | 2310 | 200 | 71 | ug/l | SW846 8260D |
| Xylene (total) | | 12200 | 600 | 140 | ug/l | SW846 8260D |
| Methyl Tert Butyl Ether | | 173 J | 200 | 46 | ug/l | SW846 8260D |
| Naphthalene | | 618 J | 1000 | 200 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol | | 36400 | 4000 | 1100 | ug/l | SW846 8260D |

# Summary of Hits

**Job Number:** FA96403
**Account:** GRI (Geological Resources Inc.)
**Project:** Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
**Collected:** 06/06/22 thru 06/07/22

| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| 1,2-Dibromoethane [b] | | 0.16 | 0.019 | 0.0095 | ug/l | SW846 8011 |
| **FA96403-25** | **18686 MW-4A** | | | | | |
| Benzene | | 1140 | 100 | 31 | ug/l | SW846 8260D |
| Toluene | | 5320 | 100 | 30 | ug/l | SW846 8260D |
| Ethylbenzene | | 379 | 100 | 36 | ug/l | SW846 8260D |
| Xylene (total) | | 7040 | 300 | 72 | ug/l | SW846 8260D |
| Naphthalene | | 197 J | 500 | 100 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol | | 1190 J | 2000 | 530 | ug/l | SW846 8260D |
| **FA96403-26** | **18686 TW-1** | | | | | |
| No hits reported in this sample. | | | | | | |
| **FA96403-27** | **18686 TW-2** | | | | | |
| Benzene | | 1.0 | 1.0 | 0.31 | ug/l | SW846 8260D |
| Methyl Tert Butyl Ether | | 1.9 | 1.0 | 0.23 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol | | 86.2 | 20 | 5.3 | ug/l | SW846 8260D |
| **FA96403-28** | **18686 DUP-B** | | | | | |
| Benzene | | 1560 | 50 | 16 | ug/l | SW846 8260D |
| Toluene | | 2840 | 50 | 15 | ug/l | SW846 8260D |
| Ethylbenzene | | 278 | 50 | 18 | ug/l | SW846 8260D |
| Xylene (total) | | 2060 | 150 | 36 | ug/l | SW846 8260D |
| Methyl Tert Butyl Ether [c] | | 32.5 J | 50 | 11 | ug/l | SW846 8260D |
| Naphthalene | | 97.5 J | 250 | 50 | ug/l | SW846 8260D |
| Tert-Amyl Alcohol | | 3650 | 1000 | 260 | ug/l | SW846 8260D |
| **FA96403-29** | **18686 FB-1** | | | | | |
| No hits reported in this sample. | | | | | | |
| **FA96403-30** | **18686 FB-2** | | | | | |
| No hits reported in this sample. | | | | | | |
| **FA96403-36** | **18686 MW-TB** | | | | | |
| No hits reported in this sample. | | | | | | |

(a) Sample was treated with an anti-foaming agent.
(b) All hits confirmed by dual column analysis.

# Summary of Hits

**Job Number:** FA96403
**Account:** GRI (Geological Resources Inc.)
**Project:** Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC
**Collected:** 06/06/22 thru 06/07/22

| Lab Sample ID | Client Sample ID | Result/ | | | | |
|---|---|---|---|---|---|---|
| Analyte | | Qual | RL | MDL | Units | Method |

(c) Associated BS outside control limits high. Compound was below calibration range in higher dilution.

## Sample Results

Report of Analysis

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 18686 MW-1 | | |
| **Lab Sample ID:** | FA96403-1 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I748907.D | 50 | 06/15/22 20:18 | JL | n/a | n/a | VI2596 |
| 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 | 2140 | 50 | 16 | ug/l | |
| 108-88-3 | Toluene | 4220 | 50 | 15 | ug/l | |
| 100-41-4 | Ethylbenzene | 322 | 50 | 18 | ug/l | |
| 1330-20-7 | Xylene (total) | 2500 | 150 | 36 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 50 | 11 | ug/l | |
| 91-20-3 | Naphthalene | 104 | 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 | 2500 | 500 | ug/l | |
| 64-17-5 | Ethyl Alcohol | ND | 10000 | 4100 | ug/l | |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | 100 | 12 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | 4220 | 1000 | 260 | ug/l | |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | 100 | 12 | ug/l | |
| 75-65-0 | Tert-Butyl Alcohol | ND | 1000 | 270 | 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 | 99% | | 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 | 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-1 | | |
| **Lab Sample ID:** | FA96403-1 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **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 | CC083161.D | 1 | 06/16/22 20:40 | AF | 06/15/22 12:45 | OP91649 | GCC2117 |
| 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 | 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 DUP A | | |
| **Lab Sample ID:** | FA96403-2 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I748908.D | 20 | 06/15/22 20:42 | JL | n/a | n/a | VI2596 |
| Run #2 | I748935.D | 100 | 06/16/22 20:39 | JL | n/a | n/a | VI2597 |

| | 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 | 974 | 20 | 6.2 | ug/l | |
| 108-88-3 | Toluene | 6100 [a] | 100 | 30 | ug/l | |
| 100-41-4 | Ethylbenzene | 302 | 20 | 7.1 | ug/l | |
| 1330-20-7 | Xylene (total) | 6900 [a] | 300 | 72 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 20 | 4.6 | ug/l | |
| 91-20-3 | Naphthalene | 203 | 100 | 20 | ug/l | |
| 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 | ND | 4000 | 1600 | ug/l | |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | 40 | 4.7 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | 1100 | 400 | 110 | ug/l | |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | 40 | 4.9 | ug/l | |
| 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 | 100% | 102% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99% | 101% | 79-125% |
| 2037-26-5 | Toluene-D8 | 100% | 100% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 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

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 18686 DUP A | | |
| **Lab Sample ID:** | FA96403-2 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **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 | CC083162.D | 1 | 06/16/22 20:59 | AF | 06/15/22 12:45 | OP91649 | GCC2117 |
| 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 | 87% | | 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:** | FA96403-3 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I748909.D | 25 | 06/15/22 21:06 | JL | n/a | n/a | VI2596 |
| Run #2 | I748936.D | 100 | 06/16/22 21:03 | JL | n/a | n/a | VI2597 |

| | 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 | 8050 [a] | 100 | 31 | ug/l | |
| 108-88-3 | Toluene | 870 | 25 | 7.5 | ug/l | |
| 100-41-4 | Ethylbenzene | 721 | 25 | 8.9 | ug/l | |
| 1330-20-7 | Xylene (total) | 3260 | 75 | 18 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 25 | 5.7 | ug/l | |
| 91-20-3 | Naphthalene | 245 | 130 | 25 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 25 | 7.8 | ug/l | |
| 108-20-3 | Di-Isopropyl Ether | ND | 25 | 6.0 | ug/l | |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | ND | 1300 | 250 | ug/l | |
| 64-17-5 | Ethyl Alcohol | ND | 5000 | 2000 | ug/l | |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | 50 | 5.9 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | 11300 | 500 | 130 | ug/l | |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | 50 | 6.1 | ug/l | |
| 75-65-0 | Tert-Butyl Alcohol | 213 | 500 | 130 | ug/l | J |
| 762-75-4 | Tert-Butyl Formate | ND | 500 | 130 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | 99% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | 99% | 79-125% |
| 2037-26-5 | Toluene-D8 | 102% | 100% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 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

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 18686 MW-2 | | |
| **Lab Sample ID:** | FA96403-3 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **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 | CC083163.D | 1 | 06/16/22 21:19 | AF | 06/15/22 12:45 | OP91649 | GCC2117 |
| 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 | 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-3 | | |
| **Lab Sample ID:** | FA96403-4 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I748891.D | 1 | 06/15/22 13:55 | JL | n/a | n/a | VI2596 |
| 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 | 17.2 | 1.0 | 0.31 | ug/l | |
| 108-88-3 | Toluene | 3.6 | 1.0 | 0.30 | ug/l | |
| 100-41-4 | Ethylbenzene | 4.0 | 1.0 | 0.36 | ug/l | |
| 1330-20-7 | Xylene (total) | 2.3 | 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 | 1.9 | 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 | 9.1 | 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 | 99% | | 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

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 18686 MW-3 | | |
| **Lab Sample ID:** | FA96403-4 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **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 | CC083164.D | 1 | 06/16/22 21:38 | AF | 06/15/22 12:45 | OP91649 | GCC2117 |
| 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 | 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

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 18686 MW-5R | | |
| **Lab Sample ID:** | FA96403-5 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I748892.D | 1 | 06/15/22 14:18 | JL | n/a | n/a | VI2596 |
| 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 | 99% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 99% | | 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-5R | | |
| **Lab Sample ID:** | FA96403-5 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **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 | CC083165.D | 1 | 06/16/22 21:58 | AF | 06/15/22 12:45 | OP91649 | GCC2117 |
| 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 | 88% | | 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:** | FA96403-6 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I748893.D | 1 | 06/15/22 14:42 | JL | n/a | n/a | VI2596 |
| 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 | 100% | | 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 MW-7 | | |
| **Lab Sample ID:** | FA96403-6 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **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 | CC083166.D | 1 | 06/16/22 22:18 | AF | 06/15/22 12:45 | OP91649 | GCC2117 |
| 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 | 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

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 18686 MW-8 | | |
| **Lab Sample ID:** | FA96403-7 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I748894.D | 1 | 06/15/22 15:07 | JL | n/a | n/a | VI2596 |
| 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 | 0.31 | 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 | 99% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 99% | | 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-8 | | |
| **Lab Sample ID:** | FA96403-7 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **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 | CC083168.D | 1 | 06/16/22 22:57 | AF | 06/15/22 12:45 | OP91649 | GCC2117 |
| 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 | 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-9 | | |
| **Lab Sample ID:** | FA96403-8 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I748895.D | 1 | 06/15/22 15:31 | JL | n/a | n/a | VI2596 |
| 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 | 100% | | 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

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 18686 MW-9 | | |
| **Lab Sample ID:** | FA96403-8 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **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 | CC083169.D | 1 | 06/16/22 23:17 | AF | 06/15/22 12:45 | OP91649 | GCC2117 |
| 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 | 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

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 18686 MW-11R | | |
| **Lab Sample ID:** | FA96403-9 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I748896.D | 1 | 06/15/22 15:55 | JL | n/a | n/a | VI2596 |
| 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 | 101% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 98% | | 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-11R
**Lab Sample ID:** FA96403-9 **Date Sampled:** 06/07/22
**Matrix:** AQ - Ground Water **Date Received:** 06/09/22
**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 | CC083170.D | 1 | 06/16/22 23:36 | AF | 06/15/22 12:45 | OP91649 | GCC2117 |
| 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 | 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

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | 18686 MW-12R | | |
| **Lab Sample ID:** | FA96403-10 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I748897.D | 1 | 06/15/22 16:18 | JL | n/a | n/a | VI2596 |
| 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 | 100% | | 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 MW-12R | | |
| **Lab Sample ID:** | FA96403-10 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **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 | CC083171.D | 1 | 06/16/22 23:56 | AF | 06/15/22 12:45 | OP91649 | GCC2117 |
| 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 | 94% | | 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:** | FA96403-11 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I748898.D | 1 | 06/15/22 16:42 | JL | n/a | n/a | VI2596 |
| 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 | 99% | | 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 MW-13 | | |
| **Lab Sample ID:** | FA96403-11 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **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 | CC083172.D | 1 | 06/17/22 00:15 | AF | 06/15/22 12:45 | OP91649 | GCC2117 |
| 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 | 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-14 | | |
| **Lab Sample ID:** | FA96403-12 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I748899.D | 1 | 06/15/22 17:06 | JL | n/a | n/a | VI2596 |
| Run #2 [a] | I748926.D | 1 | 06/16/22 17:03 | JL | n/a | n/a | VI2597 |

| | 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 | 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 | 124% [b] | 103% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | 100% | 79-125% |
| 2037-26-5 | Toluene-D8 | 99% | 97% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 98% | 83-118% |

(a) Confirmation run for surrogate recoveries.
(b) Outside control limits. Confirmed by reanalysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates 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:** FA96403-12 **Date Sampled:** 06/07/22
**Matrix:** AQ - Ground Water **Date Received:** 06/09/22
**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 | CC083173.D | 1 | 06/17/22 00:35 | AF | 06/15/22 12:45 | OP91649 | GCC2117 |
| 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 | 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-15 | | |
| **Lab Sample ID:** | FA96403-13 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I748900.D | 1 | 06/15/22 17:30 | JL | n/a | n/a | VI2596 |
| 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 | 101% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 99% | | 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-15 | | |
| **Lab Sample ID:** | FA96403-13 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **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 | CC083174.D | 1 | 06/17/22 00:54 | AF | 06/15/22 12:45 | OP91649 | GCC2117 |
| 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 | 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-16R | | |
| **Lab Sample ID:** | FA96403-14 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I748910.D | 20 | 06/15/22 21:30 | JL | n/a | n/a | VI2596 |
| Run #2 | I748937.D | 50 | 06/16/22 21:27 | JL | n/a | n/a | VI2597 |

| | 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 | 532 | 20 | 6.2 | ug/l | |
| 108-88-3 | Toluene | 3140 [a] | 50 | 15 | ug/l | |
| 100-41-4 | Ethylbenzene | 322 | 20 | 7.1 | ug/l | |
| 1330-20-7 | Xylene (total) | 2480 | 60 | 14 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 20 | 4.6 | ug/l | |
| 91-20-3 | Naphthalene | 94.4 | 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 | ND | 4000 | 1600 | ug/l | |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | 40 | 4.7 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | 794 | 400 | 110 | ug/l | |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | 40 | 4.9 | ug/l | |
| 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 | 100% | 101% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | 100% | 79-125% |
| 2037-26-5 | Toluene-D8 | 100% | 101% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | 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

# Report of Analysis



**Client Sample ID:** 18686 MW-16R
**Lab Sample ID:** FA96403-14 **Date Sampled:** 06/07/22
**Matrix:** AQ - Ground Water **Date Received:** 06/09/22
**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 | CC083175.D | 1 | 06/17/22 01:14 | AF | 06/15/22 12:45 | OP91649 | GCC2117 |
| 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 | 89% | | 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-18R | | |
| **Lab Sample ID:** | FA96403-15 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I748901.D | 1 | 06/15/22 17:54 | JL | n/a | n/a | VI2596 |
| 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 | 100% | | 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 MW-18R | | |
| **Lab Sample ID:** | FA96403-15 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **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 | CC083176.D | 1 | 06/17/22 01:33 | AF | 06/15/22 12:45 | OP91649 | GCC2117 |
| 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 | 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-21 | | |
| **Lab Sample ID:** | FA96403-16 | **Date Sampled:** | 06/06/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I748902.D | 1 | 06/15/22 18:18 | JL | n/a | n/a | VI2596 |
| 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 | 99% | | 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

# Report of Analysis



**Client Sample ID:** 18686 MW-21
**Lab Sample ID:** FA96403-16
**Matrix:** AQ - Ground Water
**Method:** SW846 8011 SW846 8011
**Project:** Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

**Date Sampled:** 06/06/22
**Date Received:** 06/09/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | CC083177.D | 1 | 06/17/22 01:53 | AF | 06/15/22 12:45 | OP91649 | GCC2117 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 38.0 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 | 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

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | 18686 MW-23 | | |
| **Lab Sample ID:** | FA96403-17 | **Date Sampled:** | 06/06/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I748903.D | 1 | 06/15/22 18:42 | JL | n/a | n/a | VI2596 |
| 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 | 5.6 | 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 | 120 | 20 | 5.3 | ug/l | |
| 994-05-8 | Tert-Amyl Methyl Ether | 0.45 | 2.0 | 0.24 | ug/l | J |
| 75-65-0 | Tert-Butyl Alcohol | 5.9 | 20 | 5.3 | ug/l | J |
| 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 | 98% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 101% | | 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-23 | | |
| **Lab Sample ID:** | FA96403-17 | **Date Sampled:** | 06/06/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **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 | CC083179.D | 1 | 06/17/22 02:32 | AF | 06/15/22 12:45 | OP91649 | GCC2117 |
| 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 | 93% | | 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:** | FA96403-18 | **Date Sampled:** | 06/06/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I748904.D | 1 | 06/15/22 19:06 | JL | n/a | n/a | VI2596 |
| 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 | 102% | | 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

# Report of Analysis



**Client Sample ID:** 18686 MW-25
**Lab Sample ID:** FA96403-18 **Date Sampled:** 06/06/22
**Matrix:** AQ - Ground Water **Date Received:** 06/09/22
**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 | CC083180.D | 1 | 06/17/22 02:51 | AF | 06/15/22 12:45 | OP91649 | GCC2117 |
| 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 | 89% | | 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:** | FA96403-19 | **Date Sampled:** | 06/06/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I748905.D | 1 | 06/15/22 19:31 | JL | n/a | n/a | VI2596 |
| 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 | 102% | | 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

# Report of Analysis



**Client Sample ID:** 18686 MW-26
**Lab Sample ID:** FA96403-19
**Matrix:** AQ - Ground Water
**Method:** SW846 8011 SW846 8011
**Project:** Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

**Date Sampled:** 06/06/22
**Date Received:** 06/09/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | CC083181.D | 1 | 06/17/22 03:11 | AF | 06/15/22 12:45 | OP91649 | GCC2117 |
| 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 | 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

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | 18686 MW-27 | | |
| **Lab Sample ID:** | FA96403-20 | **Date Sampled:** | 06/06/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I748906.D | 1 | 06/15/22 19:54 | JL | n/a | n/a | VI2596 |
| 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 | 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

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | 18686 MW-27 | | |
| **Lab Sample ID:** | FA96403-20 | **Date Sampled:** | 06/06/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **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 | CC083182.D | 1 | 06/17/22 03:30 | AF | 06/15/22 12:45 | OP91649 | GCC2117 |
| 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 | 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-28 | | |
| **Lab Sample ID:** | FA96403-21 | **Date Sampled:** | 06/06/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2P90059.D | 1 | 06/15/22 17:33 | CF | n/a | n/a | V2P3506 |
| 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 | 107% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 113% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 95% | | 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-28 | | |
| **Lab Sample ID:** | FA96403-21 | **Date Sampled:** | 06/06/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **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 | CC083189.D | 1 | 06/17/22 05:47 | AF | 06/16/22 10:15 | OP91667 | GCC2117 |
| 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 | 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

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | 18686 MW-31 | | |
| **Lab Sample ID:** | FA96403-22 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1P90114.D | 1 | 06/16/22 15:56 | CF | n/a | n/a | V1P3516 |
| 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 | 118% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 91% | | 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-31
**Lab Sample ID:** FA96403-22 **Date Sampled:** 06/07/22
**Matrix:** AQ - Ground Water **Date Received:** 06/09/22
**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 | CC083190.D | 1 | 06/17/22 06:06 | AF | 06/16/22 10:15 | OP91667 | GCC2117 |
| 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 | 93% | | 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:** | FA96403-23 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **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] | 1P90116.D | 2 | 06/16/22 16:36 | CF | n/a | n/a | V1P3516 |
| 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 | 81.0 | 2.0 | 0.62 | ug/l | |
| 108-88-3 | Toluene | 51.0 | 2.0 | 0.60 | ug/l | |
| 100-41-4 | Ethylbenzene | 2.6 | 2.0 | 0.71 | ug/l | |
| 1330-20-7 | Xylene (total) | 94.6 | 6.0 | 1.4 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 2.0 | 0.46 | ug/l | |
| 91-20-3 | Naphthalene | 2.9 | 10 | 2.0 | ug/l | J |
| 107-06-2 | 1,2-Dichloroethane | ND | 2.0 | 0.62 | ug/l | |
| 108-20-3 | Di-Isopropyl Ether | ND | 2.0 | 0.48 | ug/l | |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | ND | 100 | 20 | ug/l | |
| 64-17-5 | Ethyl Alcohol | ND | 400 | 160 | ug/l | |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | 4.0 | 0.47 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | 153 | 40 | 11 | ug/l | |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | 4.0 | 0.49 | ug/l | |
| 75-65-0 | Tert-Butyl Alcohol | ND | 40 | 11 | ug/l | |
| 762-75-4 | Tert-Butyl Formate | ND | 40 | 10 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 106% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 92% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | | 83-118% |

(a) Sample was treated with an anti-foaming agent.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates 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:** | FA96403-23 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **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 | CC083191.D | 1 | 06/17/22 06:26 | AF | 06/16/22 10:15 | OP91667 | GCC2117 |
| 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 | 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

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | 18686 MW-2A | | |
| **Lab Sample ID:** | FA96403-24 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1P90118.D | 200 | 06/16/22 17:11 | CF | n/a | n/a | V1P3516 |
| Run #2 | 2P90159.D | 250 | 06/17/22 15:06 | CF | n/a | n/a | V2P3510 |

| | 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 | 19900 | 200 | 62 | ug/l | |
| 108-88-3 | Toluene | 22500 [a] | 250 | 75 | ug/l | |
| 100-41-4 | Ethylbenzene | 2310 | 200 | 71 | ug/l | |
| 1330-20-7 | Xylene (total) | 12200 | 600 | 140 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 173 | 200 | 46 | ug/l | J |
| 91-20-3 | Naphthalene | 618 | 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 | 36400 | 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 | 107% | 109% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116% | 116% | 79-125% |
| 2037-26-5 | Toluene-D8 | 93% | 93% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | 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

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | 18686 MW-2A | | |
| **Lab Sample ID:** | FA96403-24 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **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] | CC083192.D | 1 | 06/17/22 06:45 | AF | 06/16/22 10:15 | OP91667 | GCC2117 |
| 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 | 0.16 | 0.019 | 0.0095 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 72% | | 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:** | FA96403-25 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2P90161.D | 100 | 06/17/22 15:38 | CF | n/a | n/a | V2P3510 |
| 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 | 1140 | 100 | 31 | ug/l | |
| 108-88-3 | Toluene | 5320 | 100 | 30 | ug/l | |
| 100-41-4 | Ethylbenzene | 379 | 100 | 36 | ug/l | |
| 1330-20-7 | Xylene (total) | 7040 | 300 | 72 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether [a] | ND | 100 | 23 | ug/l | |
| 91-20-3 | Naphthalene | 197 | 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 | 1190 | 2000 | 530 | ug/l | J |
| 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 | 106% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 120% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 90% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | | 83-118% |

(a) Associated BS outside control limits high, 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-4A | | |
| **Lab Sample ID:** | FA96403-25 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **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 | CC083193.D | 1 | 06/17/22 07:05 | AF | 06/16/22 10:15 | OP91667 | GCC2117 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 36.1 ml | 2.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 106-93-4 | 1,2-Dibromoethane | ND | 0.019 | 0.0097 | 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 TW-1 | | |
| **Lab Sample ID:** | FA96403-26 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1P90122.D | 1 | 06/16/22 18:16 | CF | n/a | n/a | V1P3516 |
| 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 | 107% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 118% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 92% | | 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 TW-1 | | |
| **Lab Sample ID:** | FA96403-26 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **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 | CC083195.D | 1 | 06/17/22 07:44 | AF | 06/16/22 10:15 | OP91667 | GCC2117 |
| 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 TW-2 | | |
| **Lab Sample ID:** | FA96403-27 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1P90124.D | 1 | 06/16/22 18:48 | CF | n/a | n/a | V1P3516 |
| 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 | 0.31 | 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 | 86.2 | 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 | 116% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 93% | | 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 TW-2 | | |
| **Lab Sample ID:** | FA96403-27 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **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 | CC083196.D | 1 | 06/17/22 08:03 | AF | 06/16/22 10:15 | OP91667 | GCC2117 |
| 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

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | 18686 DUP-B | | |
| **Lab Sample ID:** | FA96403-28 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2P90163.D | 50 | 06/17/22 16:10 | CF | n/a | n/a | V2P3510 |
| Run #2 [a] | 1P90126.D | 200 | 06/16/22 19:21 | CF | n/a | n/a | V1P3516 |

| | 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 | 1560 | 50 | 16 | ug/l | |
| 108-88-3 | Toluene | 2840 | 50 | 15 | ug/l | |
| 100-41-4 | Ethylbenzene | 278 | 50 | 18 | ug/l | |
| 1330-20-7 | Xylene (total) | 2060 | 150 | 36 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether [b] | 32.5 | 50 | 11 | ug/l | J |
| 91-20-3 | Naphthalene | 97.5 | 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 | 2500 | 500 | ug/l | |
| 64-17-5 | Ethyl Alcohol | ND | 10000 | 4100 | ug/l | |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | 100 | 12 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | 3650 | 1000 | 260 | ug/l | |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | 100 | 12 | ug/l | |
| 75-65-0 | Tert-Butyl Alcohol | ND | 1000 | 270 | 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 | 105% | 111% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 118% | 121% | 79-125% |
| 2037-26-5 | Toluene-D8 | 91% | 92% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 97% | 83-118% |

(a) Confirmation run.
(b) Associated BS outside control limits high. Compound was below calibration range in higher dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates 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:** FA96403-28 **Date Sampled:** 06/07/22
**Matrix:** AQ - Ground Water **Date Received:** 06/09/22
**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 | CC083197.D | 1 | 06/17/22 08:22 | AF | 06/16/22 10:15 | OP91667 | GCC2117 |
| 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 | 87% | | 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 FB-1 | | |
| **Lab Sample ID:** | FA96403-29 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Field Blank Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I748921.D | 1 | 06/16/22 15:02 | JL | n/a | n/a | VI2597 |
| 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 [a] | 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 | 100% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 99% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 83-118% |

(a) Associated CCV outside control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates 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 FB-1
**Lab Sample ID:** FA96403-29 **Date Sampled:** 06/07/22
**Matrix:** AQ - Field Blank Water **Date Received:** 06/09/22
**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 | CC083198.D | 1 | 06/17/22 08:42 | AF | 06/16/22 10:15 | OP91667 | GCC2117 |
| 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 | 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

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | 18686 FB-2 | | |
| **Lab Sample ID:** | FA96403-30 | **Date Sampled:** | 06/07/22 |
| **Matrix:** | AQ - Field Blank Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | I748922.D | 1 | 06/16/22 15:27 | JL | n/a | n/a | VI2597 |
| 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 [a] | 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 | 100% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 99% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | | 83-118% |

(a) Associated CCV outside control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates 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 FB-2
**Lab Sample ID:** FA96403-30
**Matrix:** AQ - Field Blank Water
**Method:** SW846 8011 SW846 8011
**Project:** Tisdale's Quick Stop; 1989 Thurgood Marshall Blvd, Kingston, SC

**Date Sampled:** 06/07/22
**Date Received:** 06/09/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | CC083199.D | 1 | 06/17/22 09:01 | AF | 06/16/22 10:15 | OP91667 | GCC2117 |
| 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 | 89% | | 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-TB | | |
| **Lab Sample ID:** | FA96403-36 | **Date Sampled:** | 06/06/22 |
| **Matrix:** | AQ - Trip Blank Water | **Date Received:** | 06/09/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **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] | 1P90098.D | 1 | 06/16/22 11:36 | CF | n/a | n/a | V1P3516 |
| 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 | 109% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 93% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | | 83-118% |

(a) Sample vial(s) contained bubbles greater than 6mm.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates 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

# Report of Analysis

**SGS North America Inc. - Orlando**
4405 Vineland Rd
Suite C-15
Orlando, FL 32811
Attention: Muna Mohammed

Project Name: FA96403X

Lot Number:**XF15008**

Date Completed:06/23/2022

06/29/2022 4:15 PM
Approved and released by:
Project Manager II: **Lucas Odom**

The electronic signature above is the equivalent of a handwritten signature.
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Pace Analytical Services, LLC (*formerly Shealy Environmental Services, Inc.*)
106 Vantage Point Drive West Columbia, SC 29172
Tel: 803-791-9700 Fax: 803-791-9111 www.pacelabs.com

## Case Narrative
## SGS North America Inc. - Orlando
**Lot Number: XF15008**

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. Where sampling is conducted by the client, results relate to the accuracy of the information provided, and as the samples are received.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation: Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, E. coli and Total coliforms SM 9223 B-2004, Solid Chemical Material: TOC Walkley-Black, Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Fecal Coliform Colilert-18.

If you have any questions regarding this report, please contact the Pace Project Manager listed on the cover page.

**Subcontracted Analysis**
The analysis of 524.2 VOCs has been performed by Pace Huntersville. This data has been ammended to this lot.

## Sample Summary
## SGS North America Inc. - Orlando
### Lot Number: XF15008

| Sample Number | Sample ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| 001 | 18686 WSW-1 | Aqueous | 06/07/2022 1542 | 06/15/2022 |
| 002 | 18686 WSW-3 | Aqueous | 06/07/2022 1537 | 06/15/2022 |
| 003 | 18686 WSW-DUP C | Aqueous | 06/07/2022 1543 | 06/15/2022 |
| 004 | 18686 WSW-FB | Aqueous | 06/07/2022 1553 | 06/15/2022 |
| 005 | 18686 WSW-TB | Aqueous | 06/07/2022 0805 | 06/15/2022 |
| 006 | 18686 WSW-1 | Aqueous | 06/07/2022 1542 | 06/15/2022 |

(6 samples)

## Detection Summary

## SGS North America Inc. - Orlando

Lot Number: XF15008

| Sample | Sample ID | Matrix | Parameter | Method | Result | Q | Units | Page |
|---|---|---|---|---|---|---|---|---|

(0 detections)

# EDB & DBCP by Microextraction

Client: SGS North America Inc. - Orlando
Description: 18686 WSW-1
Date Sampled: 06/07/2022 1542
Date Received: 06/15/2022

Laboratory ID: XF15008-001
Matrix: Aqueous

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 504.1 | 504.1 | 1 | 06/20/2022 1826 | CAW | 06/20/2022 1122 | 45527 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 504.1 | ND | | 0.020 | 0.0039 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 121 | 57-137 |

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: SGS North America Inc. - Orlando
Laboratory ID: XF15008-002
Description: 18686 WSW-3
Matrix: Aqueous
Date Sampled: 06/07/2022 1537
Date Received: 06/15/2022

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260D | 1 | 06/16/2022 0259 | BBW | | 45100 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| tert-Amyl alcohol (TAA) | 75-85-4 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| tert-Amyl methyl ether (TAME) | 994-05-8 | 8260D | ND | | 10 | 0.42 | ug/L | 1 |
| tert-Butyl formate (TBF) | 762-75-4 | 8260D | ND | | 5.0 | 2.0 | ug/L | 1 |
| Diisopropyl ether (IPE) | 108-20-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| 3,3-Dimethyl-1-butanol | 624-95-3 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| Ethanol | 64-17-5 | 8260D | ND | | 100 | 52 | ug/L | 1 |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| tert-butyl alcohol (TBA) | 75-65-0 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 106 | 70-130 |
| Toluene-d8 | | 113 | 70-130 |
| Bromofluorobenzene | | 101 | 70-130 |

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
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
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: SGS North America Inc. - Orlando
Description: 18686 WSW-3
Date Sampled: 06/07/2022 1537
Date Received: 06/15/2022

Laboratory ID: XF15008-002
Matrix: Aqueous

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 504.1 | 504.1 | 1 | 06/20/2022 1838 | CAW | 06/20/2022 1122 | 45527 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 504.1 | ND | S | 0.019 | 0.0039 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 117 | 57-137 |

| | | | | |
|---|---|---|---|---|
| LOQ = Limit of Quantitation | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | DL = Detection Limit | Q = Surrogate failure |
| 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 | L = LCS/LCSD failure |
| H = Out of holding time | W = Reported on wet weight basis | | | S = MS/MSD failure |

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# Volatile Organic Compounds by GC/MS

Client: SGS North America Inc. - Orlando
Laboratory ID: XF15008-003
Description: 18686 WSW-DUP C
Matrix: Aqueous
Date Sampled: 06/07/2022 1543
Date Received: 06/15/2022

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260D | 1 | 06/16/2022 0321 | BBW | | 45100 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| tert-Amyl alcohol (TAA) | 75-85-4 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| tert-Amyl methyl ether (TAME) | 994-05-8 | 8260D | ND | | 10 | 0.42 | ug/L | 1 |
| tert-Butyl formate (TBF) | 762-75-4 | 8260D | ND | | 5.0 | 2.0 | ug/L | 1 |
| Diisopropyl ether (IPE) | 108-20-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| 3,3-Dimethyl-1-butanol | 624-95-3 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| Ethanol | 64-17-5 | 8260D | ND | | 100 | 52 | ug/L | 1 |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| tert-butyl alcohol (TBA) | 75-65-0 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 104 | 70-130 |
| Toluene-d8 | | 113 | 70-130 |
| Bromofluorobenzene | | 99 | 70-130 |

| | | | | |
|---|---|---|---|---|
| LOQ = Limit of Quantitation | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | DL = Detection Limit | Q = Surrogate failure |
| 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 | L = LCS/LCSD failure |
| H = Out of holding time | W = Reported on wet weight basis | | | S = MS/MSD failure |

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# EDB & DBCP by Microextraction

Client: SGS North America Inc. - Orlando
Description: 18686 WSW-DUP C
Date Sampled: 06/07/2022 1543
Date Received: 06/15/2022

Laboratory ID: XF15008-003
Matrix: Aqueous

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 504.1 | 504.1 | 1 | 06/20/2022 1903 | CAW | 06/20/2022 1122 | 45527 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 504.1 | ND | | 0.020 | 0.0039 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 123 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: SGS North America Inc. - Orlando
Description: 18686 WSW-FB
Date Sampled: 06/07/2022 1553
Date Received: 06/15/2022

Laboratory ID: XF15008-004
Matrix: Aqueous

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260D | 1 | 06/15/2022 2316 | BBW | | 45100 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| tert-Amyl alcohol (TAA) | 75-85-4 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| tert-Amyl methyl ether (TAME) | 994-05-8 | 8260D | ND | | 10 | 0.42 | ug/L | 1 |
| tert-Butyl formate (TBF) | 762-75-4 | 8260D | ND | | 5.0 | 2.0 | ug/L | 1 |
| Diisopropyl ether (IPE) | 108-20-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| 3,3-Dimethyl-1-butanol | 624-95-3 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| Ethanol | 64-17-5 | 8260D | ND | | 100 | 52 | ug/L | 1 |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| tert-butyl alcohol (TBA) | 75-65-0 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 106 | 70-130 |
| Toluene-d8 | | 110 | 70-130 |
| Bromofluorobenzene | | 96 | 70-130 |

| | | | | |
|---|---|---|---|---|
| LOQ = Limit of Quantitation | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | DL = Detection Limit | Q = Surrogate failure |
| 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 | L = LCS/LCSD failure |
| H = Out of holding time | W = Reported on wet weight basis | | | S = MS/MSD failure |

# EDB & DBCP by Microextraction

Client: SGS North America Inc. - Orlando
Description: 18686 WSW-FB
Date Sampled: 06/07/2022 1553
Date Received: 06/15/2022

Laboratory ID: XF15008-004
Matrix: Aqueous

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 504.1 | 504.1 | 1 | 06/20/2022 1915 | CAW | 06/20/2022 1122 | 45527 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 106-93-4 | 504.1 | ND | | 0.020 | 0.0039 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | | 115 | 57-137 |

4

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
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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# Volatile Organic Compounds by GC/MS

Client: SGS North America Inc. - Orlando
Laboratory ID: XF15008-005
Description: 18686 WSW-TB
Matrix: Aqueous
Date Sampled: 06/07/2022 0805
Date Received: 06/15/2022

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260D | 1 | 06/15/2022 2339 | BBW | | 45100 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| tert-Amyl alcohol (TAA) | 75-85-4 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| tert-Amyl methyl ether (TAME) | 994-05-8 | 8260D | ND | | 10 | 0.42 | ug/L | 1 |
| tert-Butyl formate (TBF) | 762-75-4 | 8260D | ND | | 5.0 | 2.0 | ug/L | 1 |
| Diisopropyl ether (IPE) | 108-20-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| 3,3-Dimethyl-1-butanol | 624-95-3 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| Ethanol | 64-17-5 | 8260D | ND | | 100 | 52 | ug/L | 1 |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| tert-butyl alcohol (TBA) | 75-65-0 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 106 | 70-130 |
| Toluene-d8 | | 114 | 70-130 |
| Bromofluorobenzene | | 93 | 70-130 |

| | | | | |
|---|---|---|---|---|
| LOQ = Limit of Quantitation | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | DL = Detection Limit | Q = Surrogate failure |
| 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 | L = LCS/LCSD failure |
| H = Out of holding time | W = Reported on wet weight basis | | | S = MS/MSD failure |

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# Volatile Organic Compounds by GC/MS

Client: SGS North America Inc. - Orlando
Laboratory ID: XF15008-006
Description: 18686 WSW-1
Matrix: Aqueous
Date Sampled: 06/07/2022 1542
Date Received: 06/15/2022

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260D | 1 | 06/20/2022 2156 | SDC | | 45610 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|
| tert-Amyl alcohol (TAA) | 75-85-4 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| tert-Amyl methyl ether (TAME) | 994-05-8 | 8260D | ND | | 10 | 0.42 | ug/L | 1 |
| tert-Butyl formate (TBF) | 762-75-4 | 8260D | ND | | 5.0 | 2.0 | ug/L | 1 |
| Diisopropyl ether (IPE) | 108-20-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| 3,3-Dimethyl-1-butanol | 624-95-3 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |
| Ethanol | 64-17-5 | 8260D | ND | | 100 | 52 | ug/L | 1 |
| Ethyl-tert-butyl ether (ETBE) | 637-92-3 | 8260D | ND | | 1.0 | 0.40 | ug/L | 1 |
| tert-butyl alcohol (TBA) | 75-65-0 | 8260D | ND | | 20 | 8.0 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | | 103 | 70-130 |
| Toluene-d8 | | 111 | 70-130 |
| Bromofluorobenzene | | 96 | 70-130 |

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
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
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

# Chain of Custody
# and
# Miscellaneous Documents

CHAIN OF CUSTODY

SGS North America Inc. - Orlando
4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL: 407-425-6700 FAX: 407-425-0707
www.sgs.com/ehs-us

Page 1 of 2

FED-EX Tracking #

Bottle Order Control #

SGS Job #: FA96403X

Client / Reporting Information

Company Name: SGS North America Inc.

Street Address: 4405 Vineland Rd, Suite C-15

City: Orlando State: FL Zip: 32811

Project Contact: muna.mohammad@sgs.com E-mail

Phone #: 407-425-6700 Client Purchase Order #

Sampler(s) Name(s): JB Phone Project Manager

Project Information

Project Name: FA96403X

Street

City: SC State

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)

V8260BTEX, MTBE, NAPHTH, 1,2-DCA; V8260BOXYB

V8260BOXYB, V8260BTEX, MTBE, NAPHTH, 1,2-DCA; V8260BOXYB

XF15008

LAB

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OI - Oil
LIQ - Other Liquids
AIR - Air
SOL - Other Solids
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank

| Sample Number | Field ID / Point of Collection | MEOH Vials | Collected Date | Collected Time | Sampled by | Matrix | # of bottles | Numbered preserved Bottles: HCL, H2SO4, NaOH, HNO3, DI WATER, MEOH, ENCORE | | |

Pace Analytical

Samples Receipt Checklist (SRC) (ME0018C-15)
Issuing Authority: Pace ENV - WCOL

Revised:9/29/2020
Page 1 of 1

# Sample Receipt Checklist (SRC)

Client: SGS  Cooler Inspected by/date: TEC / 06/15/2022  Lot #: XF15908

Means of receipt: ☐ Pace ☐ 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: NA  Chlorine Strip ID: NA  Tested by: NA

Original temperature upon receipt / Derived (Corrected) temperature upon receipt  %Solid Snap-Cup ID: NA

3.7 / 3.7 °C  NA / NA °C  NA / NA °C  NA / NA °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/625.1/608.3 (< 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 listed on the container label? If yes, Quote # |

hltz 06/15/22

**Sample Preservation** (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA.
Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA were received with bubbles >6 mm in diameter.

Samples(s) NA 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: NA.

SR barcode labels applied by: TEC  Date: 06/15/2022

Comments: missing: 6 hcl vials for 001 and 1 hcl vial for 003

SGS

# CHAIN OF CUSTODY

SGS North America Inc. - Orlando
4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com/ehsusa

Page 1 of 2

| | |
|---|---|
| ABC EX Tracking # | Bottle Order Control # |
| SGS Quote # | SGS Job # FA96403X |

**Client / Reporting Information**

| | |
|---|---|
| Company Name | SGS North America Inc. |
| Street Address | 4405 Vineland Rd, Suite C-15 |
| City / State / Zip | Orlando FL 32811 |
| Project Contact / E-mail | mona.mohammed@sgs.com |
| Phone # / Fax # | 407-425-6700 |
| Sampler(s) Name(s) / Phone | JB |

**Project Information**

| | |
|---|---|
| Project Name | FA96403X |
| 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)**

V504EDB; V524BTEX, MTBE, NAFHTH, 1,2-DCA; V5260DXYS,

**Matrix Codes**

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OI - Oil
UQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank

| Item Sampled # | Field ID / Point of Collection | MECH/DI Vial # | Collection Date | Collection Time | Sampled by | Matrix | # of Cont'ns | Number of preserved Bottles: HCl | NaOH | HNO3 | H2SO4 | NONE | DI Water | MEOH | ENCONE | | V504EDB; V524BTEX, MTBE, NAFHTH, 1,2-DCA; V5260DXYS, | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31X | 18686 WSW-1 | | 6/7/22 | 3:42:00 PM | JB | DW | 6 | 3 | | | | | | | | 3 | X | |

XF15008

LJO

**Turnaround Time (Business days)**

- [ ] Standard 10 Day (business)
- [ ] 5 Business Days Rush
- [ ] 3 Business Days RUSH
- [ ] 2 Business Days RUSH
- [ ] 1 Business Day EMERGENCY
- [X] other 7

Approved By (SGS PM) / Date:

Emergency & Rush T/A data available via Lablink. Approval needed for RUSH/Emergency TAT

**Data Deliverable Information**

- [ ] Commercial "A" (Level 1)
- [X] Commercial "B" (Level 2)
- [ ] RED1 (Level 3)
- [ ] FULT1 (Level 4)
- [ ] Commercial "C"
- [ ] State Forms
- [ ] EDD Format
- [ ] Other
- [ ] [ ]

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

**Comments / Special Instructions**

Shealy (PACE) - SEE Lucas Odom
8260 oxygenate vials
Missing vials for job XF15008

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

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 |
|---|---|---|---|---|---|
| Mona Mohammed | 6/6/22 @ 17:00 | 1 | 2 | | 2 |
| 3 | | 3 | 4 | | 4 |
| 5 Fed-Ex | 6/7/22 9:55 | 5 [signature] | | | |

Custody Seal # [ ] Intact [ ] Not intact
Preserved where applicable [ ] Trans. ID
On Ice [X]
Cooler Temp 4.4°C

Pace Analytical

Samples Receipt Checklist (SRC) (ME0018C-15)
Issuing Authority: Pace ENV - WCOL

Revised:9/29/2020
Page 1 of 1

# Sample Receipt Checklist (SRC)

Client: SGS  Cooler inspected by/date: KDRW / 06/17/2022  Lot #: XF15008

Means of receipt: ☐ Pace ☐ 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: NA  Chlorine Strip ID: NA  Tested by: NA

Original temperature upon receipt / Derived (Corrected) temperature upon receipt  %Solid Snap-Cup ID: NA

4.4 / 4.4 °C  NA / NA °C  NA / NA °C  NA / NA °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 ¼ 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/625.1/608.3 (< 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 listed on the container label? If yes, Quote # |

**Sample Preservation** (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA. Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA were received with bubbles >6 mm in diameter.

Samples(s) NA 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: NA.

SR barcode labels applied by: KDRW  Date: 06/17/2022

Comments:

**Pace Analytical Services, LLC**
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

4

June 28, 2022

Lucas Odom
Pace Analytical West Columbia
106 Vantage Point Drive
West Columbia, SC 29172

RE: Project: XF15008 FA96403X
Pace Project No.: 92610655

Dear Lucas Odom:

Enclosed are the analytical results for sample(s) received by the laboratory on June 17, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:
- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sara Poulson
sara.poulson@pacelabs.com
(704)875-9092
Project Manager

Enclosures



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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

## CERTIFICATIONS

Project: XF15008 FA96403X
Pace Project No.: 92610655

**Pace Analytical Services Charlotte**

South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221



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Huntersville, NC 28078
(704)875-9092

## SAMPLE ANALYTE COUNT

Project: XF15008 FA96403X
Pace Project No.: 92610655

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **92610655001** | **18686 WSW-3** | EPA 524.2 | CL | 11 | PASI-C |
| **92610655002** | **18686 WSW-DUP C** | EPA 524.2 | CL | 11 | PASI-C |
| **92610655003** | **18686 WSW-FB** | EPA 524.2 | CL | 11 | PASI-C |
| **92610655004** | **18686 WSW-TB** | EPA 524.2 | CL | 11 | PASI-C |
| **92610655005** | **18686 WSW-1** | EPA 524.2 | LMB | 10 | PASI-C |

PASI-C = Pace Analytical Services - Charlotte



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Huntersville, NC 28078
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## ANALYTICAL RESULTS

Project: XF15008 FA96403X
Pace Project No.: 92610655

**Sample: 18686 WSW-3** **Lab ID: 92610655001** Collected: 06/07/22 15:37 Received: 06/17/22 09:30 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **524.2 MSV SC List** | Analytical Method: EPA 524.2<br>Pace Analytical Services - Charlotte | | | | | | | |
| Benzene | ND | mg/L | 0.00050 | 1 | | 06/21/22 16:55 | 71-43-2 | |
| 1,2-Dichloroethane | ND | mg/L | 0.00050 | 1 | | 06/21/22 16:55 | 107-06-2 | |
| Ethylbenzene | ND | mg/L | 0.00050 | 1 | | 06/21/22 16:55 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | mg/L | 0.00050 | 1 | | 06/21/22 16:55 | 1634-04-4 | |
| Naphthalene | ND | mg/L | 0.00050 | 1 | | 06/21/22 16:55 | 91-20-3 | |
| Toluene | ND | mg/L | 0.00050 | 1 | | 06/21/22 16:55 | 108-88-3 | |
| Xylene (Total) | ND | mg/L | 0.00050 | 1 | | 06/21/22 16:55 | 1330-20-7 | |
| m&p-Xylene | ND | mg/L | 0.0010 | 1 | | 06/21/22 16:55 | 179601-23-1 | |
| o-Xylene | ND | mg/L | 0.00050 | 1 | | 06/21/22 16:55 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 103 | % | 70-130 | 1 | | 06/21/22 16:55 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | 1 | | 06/21/22 16:55 | 460-00-4 | |

## REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

## ANALYTICAL RESULTS

Project: XF15008 FA96403X
Pace Project No.: 92610655

**Sample: 18686 WSW-DUP C** **Lab ID: 92610655002** Collected: 06/07/22 15:43 Received: 06/17/22 09:30 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **524.2 MSV SC List** | Analytical Method: EPA 524.2<br>Pace Analytical Services - Charlotte | | | | | | | |
| Benzene | ND | mg/L | 0.00050 | 1 | | 06/21/22 17:21 | 71-43-2 | |
| 1,2-Dichloroethane | ND | mg/L | 0.00050 | 1 | | 06/21/22 17:21 | 107-06-2 | |
| Ethylbenzene | ND | mg/L | 0.00050 | 1 | | 06/21/22 17:21 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | mg/L | 0.00050 | 1 | | 06/21/22 17:21 | 1634-04-4 | |
| Naphthalene | ND | mg/L | 0.00050 | 1 | | 06/21/22 17:21 | 91-20-3 | |
| Toluene | ND | mg/L | 0.00050 | 1 | | 06/21/22 17:21 | 108-88-3 | |
| Xylene (Total) | ND | mg/L | 0.00050 | 1 | | 06/21/22 17:21 | 1330-20-7 | |
| m&p-Xylene | ND | mg/L | 0.0010 | 1 | | 06/21/22 17:21 | 179601-23-1 | |
| o-Xylene | ND | mg/L | 0.00050 | 1 | | 06/21/22 17:21 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 100 | % | 70-130 | 1 | | 06/21/22 17:21 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 102 | % | 70-130 | 1 | | 06/21/22 17:21 | 460-00-4 | |



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Huntersville, NC 28078
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## ANALYTICAL RESULTS

Project: XF15008 FA96403X
Pace Project No.: 92610655

**Sample: 18686 WSW-FB** **Lab ID: 92610655003** Collected: 06/07/22 15:53 Received: 06/17/22 09:30 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **524.2 MSV SC List** | Analytical Method: EPA 524.2<br>Pace Analytical Services - Charlotte | | | | | | | |
| Benzene | ND | mg/L | 0.00050 | 1 | | 06/21/22 14:19 | 71-43-2 | |
| 1,2-Dichloroethane | ND | mg/L | 0.00050 | 1 | | 06/21/22 14:19 | 107-06-2 | |
| Ethylbenzene | ND | mg/L | 0.00050 | 1 | | 06/21/22 14:19 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | mg/L | 0.00050 | 1 | | 06/21/22 14:19 | 1634-04-4 | |
| Naphthalene | ND | mg/L | 0.00050 | 1 | | 06/21/22 14:19 | 91-20-3 | |
| Toluene | ND | mg/L | 0.00050 | 1 | | 06/21/22 14:19 | 108-88-3 | |
| Xylene (Total) | ND | mg/L | 0.00050 | 1 | | 06/21/22 14:19 | 1330-20-7 | |
| m&p-Xylene | ND | mg/L | 0.0010 | 1 | | 06/21/22 14:19 | 179601-23-1 | |
| o-Xylene | ND | mg/L | 0.00050 | 1 | | 06/21/22 14:19 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 99 | % | 70-130 | 1 | | 06/21/22 14:19 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | 1 | | 06/21/22 14:19 | 460-00-4 | |



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Huntersville, NC 28078
(704)875-9092

## ANALYTICAL RESULTS

Project: XF15008 FA96403X
Pace Project No.: 92610655

**Sample: 18686 WSW-TB** **Lab ID: 92610655004** Collected: 06/07/22 08:05 Received: 06/17/22 09:30 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **524.2 MSV SC List** | Analytical Method: EPA 524.2<br>Pace Analytical Services - Charlotte | | | | | | | |
| Benzene | ND | mg/L | 0.00050 | 1 | | 06/21/22 14:45 | 71-43-2 | |
| 1,2-Dichloroethane | ND | mg/L | 0.00050 | 1 | | 06/21/22 14:45 | 107-06-2 | |
| Ethylbenzene | ND | mg/L | 0.00050 | 1 | | 06/21/22 14:45 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | mg/L | 0.00050 | 1 | | 06/21/22 14:45 | 1634-04-4 | |
| Naphthalene | ND | mg/L | 0.00050 | 1 | | 06/21/22 14:45 | 91-20-3 | |
| Toluene | ND | mg/L | 0.00050 | 1 | | 06/21/22 14:45 | 108-88-3 | |
| Xylene (Total) | ND | mg/L | 0.00050 | 1 | | 06/21/22 14:45 | 1330-20-7 | |
| m&p-Xylene | ND | mg/L | 0.0010 | 1 | | 06/21/22 14:45 | 179601-23-1 | |
| o-Xylene | ND | mg/L | 0.00050 | 1 | | 06/21/22 14:45 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 98 | % | 70-130 | 1 | | 06/21/22 14:45 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | 1 | | 06/21/22 14:45 | 460-00-4 | |



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## ANALYTICAL RESULTS

Project: XF15008 FA96403X
Pace Project No.: 92610655

**Sample: 18686 WSW-1** **Lab ID: 92610655005** Collected: 06/07/22 15:42 Received: 06/17/22 09:30 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **524.2 MSV SC List** | Analytical Method: EPA 524.2<br>Pace Analytical Services - Charlotte | | | | | | | |
| Benzene | ND | mg/L | 0.00050 | 1 | | 06/27/22 15:53 | 71-43-2 | H1 |
| 1,2-Dichloroethane | ND | mg/L | 0.00050 | 1 | | 06/27/22 15:53 | 107-06-2 | H1 |
| Ethylbenzene | ND | mg/L | 0.00050 | 1 | | 06/27/22 15:53 | 100-41-4 | H1 |
| Methyl-tert-butyl ether | ND | mg/L | 0.00050 | 1 | | 06/27/22 15:53 | 1634-04-4 | H1 |
| Naphthalene | ND | mg/L | 0.00050 | 1 | | 06/27/22 15:53 | 91-20-3 | H1 |
| Toluene | ND | mg/L | 0.00050 | 1 | | 06/27/22 15:53 | 108-88-3 | H1 |
| m&p-Xylene | ND | mg/L | 0.0010 | 1 | | 06/27/22 15:53 | 179601-23-1 | H1 |
| o-Xylene | ND | mg/L | 0.00050 | 1 | | 06/27/22 15:53 | 95-47-6 | H1 |
| ***Surrogates*** | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 106 | % | 70-130 | 1 | | 06/27/22 15:53 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 106 | % | 70-130 | 1 | | 06/27/22 15:53 | 460-00-4 | |



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## QUALITY CONTROL DATA

Project: XF15008 FA96403X
Pace Project No.: 92610655

QC Batch: 705932 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92610655001, 92610655002, 92610655003, 92610655004

METHOD BLANK: 3683070 Matrix: Water
Associated Lab Samples: 92610655001, 92610655002, 92610655003, 92610655004

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane | mg/L | ND | 0.00050 | 06/21/22 13:53 | |
| Benzene | mg/L | ND | 0.00050 | 06/21/22 13:53 | |
| Ethylbenzene | mg/L | ND | 0.00050 | 06/21/22 13:53 | |
| m&p-Xylene | mg/L | ND | 0.0010 | 06/21/22 13:53 | |
| Methyl-tert-butyl ether | mg/L | ND | 0.00050 | 06/21/22 13:53 | |
| Naphthalene | mg/L | ND | 0.00050 | 06/21/22 13:53 | |
| o-Xylene | mg/L | ND | 0.00050 | 06/21/22 13:53 | |
| Toluene | mg/L | ND | 0.00050 | 06/21/22 13:53 | |
| Xylene (Total) | mg/L | ND | 0.00050 | 06/21/22 13:53 | |
| 1,2-Dichlorobenzene-d4 (S) | % | 98 | 70-130 | 06/21/22 13:53 | |
| 4-Bromofluorobenzene (S) | % | 100 | 70-130 | 06/21/22 13:53 | |

LABORATORY CONTROL SAMPLE: 3683071

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | mg/L | 0.02 | 0.021 | 105 | 70-130 | |
| Benzene | mg/L | 0.02 | 0.019 | 96 | 70-130 | |
| Ethylbenzene | mg/L | 0.02 | 0.019 | 97 | 70-130 | |
| m&p-Xylene | mg/L | 0.04 | 0.039 | 98 | 70-130 | |
| Methyl-tert-butyl ether | mg/L | 0.02 | 0.018 | 91 | 70-130 | |
| Naphthalene | mg/L | 0.02 | 0.018 | 89 | 70-130 | |
| o-Xylene | mg/L | 0.02 | 0.019 | 97 | 70-130 | |
| Toluene | mg/L | 0.02 | 0.019 | 95 | 70-130 | |
| Xylene (Total) | mg/L | 0.06 | 0.059 | 98 | | |
| 1,2-Dichlorobenzene-d4 (S) | % | | | 100 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 100 | 70-130 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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(704)875-9092

## QUALITY CONTROL DATA

Project: XF15008 FA96403X
Pace Project No.: 92610655

QC Batch: 707165
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92610655005

METHOD BLANK: 3688885 Matrix: Water
Associated Lab Samples: 92610655005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dichloroethane | mg/L | ND | 0.00050 | 06/27/22 14:09 | |
| Benzene | mg/L | ND | 0.00050 | 06/27/22 14:09 | |
| Ethylbenzene | mg/L | ND | 0.00050 | 06/27/22 14:09 | |
| m&p-Xylene | mg/L | ND | 0.0010 | 06/27/22 14:09 | |
| Methyl-tert-butyl ether | mg/L | ND | 0.00050 | 06/27/22 14:09 | |
| Naphthalene | mg/L | ND | 0.00050 | 06/27/22 14:09 | |
| o-Xylene | mg/L | ND | 0.00050 | 06/27/22 14:09 | |
| Toluene | mg/L | ND | 0.00050 | 06/27/22 14:09 | |
| 1,2-Dichlorobenzene-d4 (S) | % | 105 | 70-130 | 06/27/22 14:09 | |
| 4-Bromofluorobenzene (S) | % | 104 | 70-130 | 06/27/22 14:09 | |

LABORATORY CONTROL SAMPLE: 3688886

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | mg/L | 0.02 | 0.023 | 114 | 70-130 | |
| Benzene | mg/L | 0.02 | 0.020 | 101 | 70-130 | |
| Ethylbenzene | mg/L | 0.02 | 0.022 | 109 | 70-130 | |
| m&p-Xylene | mg/L | 0.04 | 0.044 | 111 | 70-130 | |
| Methyl-tert-butyl ether | mg/L | 0.02 | 0.019 | 96 | 70-130 | |
| Naphthalene | mg/L | 0.02 | 0.019 | 95 | 70-130 | |
| o-Xylene | mg/L | 0.02 | 0.021 | 106 | 70-130 | |
| Toluene | mg/L | 0.02 | 0.020 | 102 | 70-130 | |
| 1,2-Dichlorobenzene-d4 (S) | % | | | 106 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 107 | 70-130 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: XF15008 FA96403X
Pace Project No.: 92610655

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

H1 Analysis conducted outside the EPA method holding time.



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: XF15008 FA96403X
Pace Project No.: 92610655

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **92610655001** | **18686 WSW-3** | EPA 524.2 | 705932 | | |
| **92610655002** | **18686 WSW-DUP C** | EPA 524.2 | 705932 | | |
| **92610655003** | **18686 WSW-FB** | EPA 524.2 | 705932 | | |
| **92610655004** | **18686 WSW-TB** | EPA 524.2 | 705932 | | |
| **92610655005** | **18686 WSW-1** | EPA 524.2 | 707165 | | |



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Pace
ANALYTICAL SERVICES

Effective Date: 05/12/202205/12/2022

**Laboratory receiving samples:**

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

**Sample Condition Upon Receipt**

Client Name: West columbia

Project #:

WO# : 92610655

92610655

Courier: ☐ Commercial ☑ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☑ No

Date/Initials Person Examining Contents: CS 6/20/22

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 92T0644

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.1

Correction Factor: Add/Subtract (°C) 0

Cooler Temp Corrected (°C): 3.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil ( ☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

| | | | | Comments/Discrepancy: |
|---|---|---|---|---|
| Chain of Custody Present? | ☑ Yes | ☐ No | ☐ N/A | 1. |
| Samples Arrived within Hold Time? | ☑ Yes | ☐ No | ☐ N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? | ☐ Yes | ☑ No | ☐ N/A | 3. |
| Rush Turn Around Time Requested? | ☐ Yes | ☑ No | ☐ N/A | 4. |
| Sufficient Volume? | ☑ Yes | ☐ No | ☐ N/A | 5. |
| Correct Containers Used? | ☑ Yes | ☐ No | ☐ N/A | 6. |
| -Pace Containers Used? | ☑ Yes | ☐ No | ☐ N/A | |
| Containers Intact? | ☑ Yes | ☐ No | ☐ N/A | 7. |
| Dissolved analysis: Samples Field Filtered? | ☐ Yes | ☐ No | ☑ N/A | 8. |
| Sample Labels Match COC? | ☑ Yes | ☐ No | ☐ N/A | 9. |
| -Includes Date/Time/ID/Analysis Matrix: WT | | | | |
| Headspace in VOA Vials (>5-6mm)? | ☑ Yes | ☐ No | ☐ N/A | 10. |
| Trip Blank Present? | ☑ Yes | ☐ No | ☐ N/A | 11. |
| Trip Blank Custody Seals Present? | ☐ Yes | ☑ No | ☐ N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

Qualtrax ID: 69614

Page 1 of 2

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project

**WO# : 92610655**

PM: SC Due Date: 06/28/22
CLIENT: 92-PaceSheal

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-250 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | DG9S-40 mL VOA H2SO4 (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A – lab) | SP2T-250 mL Sterile Plastic (N/A – lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AGDU-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

## pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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www.pacelabs.com

# Sample Receiving Non-Conformance Form (NCF)

| Date: 6/20/22 | Evaluated by: CS |
|---|---|
| Client: West Columbia | |

**Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here**

4

**1. If Chain-of-Custody (COC) is not received**: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

**2. If COC is incomplete, check applicable issues below and add details where appropriate:**

| | | |
|---|---|---|
| ☐ Collection date/time missing or incorrect | ☐ Analyses or analytes: missing or clarification needed | ☐ Samples listed on COC do not match samples received (missing, additional, etc.) |
| ☐ Sample IDs on COC do not match sample labels | ☐ Required trip blanks were not received | ☐ Required signatures are missing |

**Comments/Details/Other Issues not listed above:**

**3. Sample integrity issues: check applicable issues below and add details where appropriate:**

| | | |
|---|---|---|
| ☐ Samples: Past holding time | ☐ Samples: Condition needs to be brought to lab personnel's attention (details below) | ☐ Preservation: Improper |
| ☐ Samples: Not field filtered | ☐ Containers: Broken or compromised | ☐ Temperature: not within acceptance criteria (typically 0-6C) |
| ☐ Samples: Insufficient volume received | ☐ Containers: Incorrect | ☐ Temperature: Samples arrived frozen |
| ☐ Samples: Cooler damaged or compromised | ☐ Custody Seals: Missing or compromised on samples, trip blanks or coolers | ☐ Vials received with improper headspace |
| ☐ Samples: contain chlorine or sulfides | ☐ Packing Material: Insufficient/Improper | ☐ Other: |

**Comments/Details:** 2 WSW3, 1 DupC, 2 WSWFB have headspace

**4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:**

| | | |
|---|---|---|
| **Sample ID:** | Date/Time: | Amount/type pres added: |
| Preserved by: | Initial and Final pH: | Lot # of pres added: |
| **Sample ID:** | Date/Time: | Amount/type pres added: |
| Preserved by: | Initial and Final pH: | Lot # of pres added: |
| **Sample ID:** | Date/Time: | Amount/type pres added: |
| Preserved by: | Initial and Final pH: | Lot # of pres added: |

**5. Client Contact: If client is contacted for any issue listed above, fill in details below:**

| | | |
|---|---|---|
| Client: | Contacted per: | |
| PM Initials: | Date/Time: | |

**Client Comments/Instructions:**

Chain of Custody

Pace Analytical
www.pacelabs.com

Workorder: XF15008 Workorder Name: FA96403X Owner Received Date: 6/15/2022 Results Requested By: 6/29/2022

| Report To: | Subcontract To: |
|---|---|
| Lucas J. Odom | Project # |
| Pace Analytical | |
| 106 Vantage Point Drive | Pace |
| Columbia SC, 29223 | |
| 803-206-9537 | |
| lucas.odom@pacelabs.com | |

| Item | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | Preserved Containers: HCL | Requested Analysis: 524.2 BNM12DCA | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|
| 1 | 18686 WSW-3 | grab | 06/07/2022 @ 1537 | XF15008-002 | Aqueous | x | x | 92610655 001 |
| 2 | 18686 WSW-DUP C | grab | 06/07/2022 @ 1543 | XF15008-003 | Aqueous | x | x | 002 |
| 3 | 18686 WSW-FB | grab | 06/07/2022 @ 1553 | XF15008-004 | Aqueous | x | x | 003 |
| 4 | 18686 WSW-TB | grab | 06/07/2022 @ 0805 | XF15008-005 | Aqueous | x | x | 004 |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |

| Transfers | Released By | Date/Time | Reveived By | Date/Time | Comments |
|---|---|---|---|---|---|
| 1 | | | | | BTEX Naph MTBE 12DCA by 524.2 |
| 2 | | | | | |
| 3 | [signature] | 6/16/22 1800 | MD Pace HVL | 6/17/22 9:30 | |

Cooler Temperature on Receipt 3.1 °C | Custody Seal Y or (N) | Received on Ice (Y) or N | Sample Intact (Y) or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC
This chain of custody is considered complete as is since this information is available in the owner laboratory.

## Misc. Forms

# Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

# Parameter Certification Exceptions



**Job Number:** FA96403
**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 8260D** | AQ | Certified by SOP MS005 |
| Tert-Amyl Alcohol | 75-85-4 | **SW846 8260D** | AQ | Certified by SOP MS005 |
| Tert-Butyl Formate | 762-75-4 | **SW846 8260D** | AQ | Certified by SOP MS005 |

SGS

# SGS North America Inc - Orlando
## Chain of Custody

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

FA96403

SGS - ORLANDO JOB # : PAGE 1 OF 3

SGS - ORLANDO Quote # | SKIFF #

**Client / Reporting Information**

Company Name: Geological Resources Inc
Address: 3502 Hayes Rd
City: Monroe State: NC Zip: 28110
Project Contact: Scott Ball Email: wsb@geologicalresourcesinc.com
Phone #: 704-845-4016
Sampler(s) Name(s) (Printed)
Sampler 1: Jase Bowers Sampler 2:

**Project Information**

Project Name: Tisdales Quick Stop
Street: 1989 Thurgood Marshall Blvd
City: Kingstree State: SC
Project #: 1543
Fax #:
Client Purchase Order #:

**Analytical Information**

| SGS Orlando Sample # | Field ID / Point of Collection | DATE | TIME | SAMPLED BY: | MATRIX | TOTAL # OF BOTTLES | OTHER | NONE | HCl | NaOH | HNO3 | H2SO4 | NAOH+ZNA | DI WATER | MEOH | BTEX, MTBE, naphthalene, 1,2-DCA, 8260 | EDB-Soil | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 18686 MW-1 | 6/7/22 | 1425 | JB | GW | 5 | | | X | | | | | | | X | X | |
| 2 | 18686 ~~MW-2~~ DupA | 6/7/22 | 1426 | JB | GW | 5 | | | X | | | | | | | X | X | |
| 3 | 18686 MW-2 | 6/7/22 | 1434 | JB | GW | 5 | | | X | | | | | | | X | X | |
| 4 | 18686 MW-3 | 6/7/22 | 1407 | JB | GW | 5 | | | X | | | | | | | X | X | |
| 5 | 18686 MW-5R | 6/7/22 | 1400 | JB | GW | 5 | | | X | | | | | | | X | X | |
| 6 | 18686 MW-7 | 6/7/22 | 1354 ~~0903~~ | JB | GW | 5 | | | X | | | | | | | X | X | |
| 7 | 18686 MW-8 | 6/7/22 | 0903 | JB | GW | 5 | | | X | | | | | | | X | X | |
| 8 | 18686 MW-9 | 6/7/22 | 1008 | JB | GW | 5 | | | X | | | | | | | X | X | |
| 9 | 18686 MW-11R | 6/7/22 | 1352 | JB | GW | 5 | | | X | | | | | | | X | X | |
| 10 | 18686 MW-12R | 6/7/22 | 1040 | JB | GW | 5 | | | X | | | | | | | X | X | |
| 11 | 18686 MW-13 | 6/7/22 | 0855 | JB | GW | 5 | | | X | | | | | | | X | X | |
| 12 | 18686 MW-14 | 6/7/22 | 1442 | JB | 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

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

**Comments / Remarks**

SCDHEC UST Management Program
UST Permit no. 18686

INITIAL ASSESSMENT

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] | 6/8/22 1700 | 2 FED EX 1009 6379 7015 | 3 LABOR VERIFICATION | | 4 [signature] |
| Relinquished by/Affiliation | Date Time: | Received By/Affiliation | Relinquished By/Affiliation | Date Time: | Received By/Affiliation |
| 5 | | 6 | 7 | 6/9/22 950 | 8 [signature] |

Lab Use Only : Cooler Temperature (s) Celsius (corrected): 1.2 IR#1 1.0

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

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5.2

5

FA96403: Chain of Custody
Page 1 of 4

# SGS North America Inc - Orlando
## Chain of Custody

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

FA96403

SGS - ORLANDO JOB # : PAGE 2 OF 3

SGS - ORLANDO Quote # | SKIFF #

**Client / Reporting Information**

Company Name: Geological Resources Inc
Address: 3502 Hayes Rd
City: Monroe State: NC Zip: 28110
Project Contact: Scott Ball Email: wsb@geologicalresourcesinc.com
Phone #: 704-845-4010
Sampler(s) Name(s) (Printed)
Sampler 1: Jase Bowen Sampler 2:

**Project Information**

Project Name: Tisdales Quick Stop
Street: 1989 Thurgood Marshall Blvd
City: Kingstree State: SC
Project #: 1543
Fax #:
Client Purchase Order #

**Analytical Information**

| SGS Orlando Sample # | Field ID / Point of Collection | COLLECTION DATE | TIME | SAMPLED BY: | MATRIX | TOTAL # OF BOTTLES | CONTAINER INFORMATION: OTHER | NONE | HCl | NaOH | HNO3 | H2SO4 | NAOH+ZNAC | DI WATER | MEOH | BTEX + MTBE, Naphthalene, 1,2-DCA, & EDB - 8260 | EDB - 504.1 | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 18686 MW-15 | 6/7/22 | 1452 | JB | GW | 5 | | | X | | | | | | | X | X | |
| 14 | 18686 MW-16R | 6/7/22 | 1107 | JB | GW | 5 | | | X | | | | | | | X | X | |
| 15 | 18686 MW-18R | 6/7/22 | 1116 | JB | GW | 5 | | | X | | | | | | | X | X | |
| 16 | 18686 MW-21 | 6/6/22 | 1644 | JB | GW | 5 | | | X | | | | | | | X | X | |
| 17 | 18686 MW-23 | 6/6/22 | 1656 | JB | GW | 5 | | | X | | | | | | | X | X | |
| 18 | 18686 MW-25 | 6/6/22 | 1707 | JB | GW | 5 | | | X | | | | | | | X | X | |
| 19 | 18686 MW-26 | 6/6/22 | 1611 | JB | GW | 5 | | | X | | | | | | | X | X | |
| 20 | 18686 MW-27 | 6/6/22 | 1622 | JB | GW | 5 | | | X | | | | | | | X | X | |
| 21 | 18686 MW-28 | 6/6/22 | 1630 | JB | GW | 5 | | | X | | | | | | | X | X | |
| 22 | 18686 MW-31 | 6/7/22 | 1135 | JB | GW | 5 | | | X | | | | | | | X | X | |
| 23 | 18686 MW-1R | 6/7/22 | 0942 | JB | GW | 5 | | | X | | | | | | | X | X | |
| 24 | 18686 MW-2R | 6/7/22 | 0955 | JB | GW | 5 | | | X | | | | | | | 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 T/A Data Available VIA Email or Lablink

**Data Deliverable Information**

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

**Comments / Remarks**

SCDHEC UST Management Program
UST Permit No. 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 |
|---|---|---|---|---|---|
| | 6/7/22 1700 | 2 FED EX 1009 6379 7015 | 3 | | 4 |
| Relinquished by/Affiliation 5 | Date Time: | Received By/Affiliation 6 | Relinquished By/Affiliation 7 | Date Time: 6/9/22 | Received By/Affiliation 8 |

Lab Use Only : Cooler Temperature (s) Celsius (corrected): 4.0

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

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SGS

# SGS North America Inc - Orlando
## Chain of Custody

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

FA96403

SGS - ORLANDO JOB # : PAGE 3 OF 3

SGS - ORLANDO Quote # | SKIFF #

**Client / Reporting Information**

Company Name: Geological Resources Inc
Address: 3502 Hayes Rd
City: Monroe State: NC Zip: 28110
Project Contact: Scott Ball Email: wsb@geologicalresourcesinc.com
Phone #: 704-845-4010
Sampler(s) Name(s) (Printed)
Sampler 1: Jase Bowers Sampler 2:

**Project Information**

Project Name: Tisdales Quick Stop
Street: 1989 Thurgood Marshal Blvd
City: Kingstree State: SC
Project #: 1543
Fax #:
Client Purchase Order #:

**Analytical Information**

| SGS Orlando Sample # | Field ID / Point of Collection | DATE | TIME | SAMPLED BY: | MATRIX | TOTAL # OF BOTTLES | OTHER | NONE | HCl | NaOH | HNO3 | H2SO4 | NAOH+ZNAC | DI WATER | MEOH | EDB-8011 | BTEX, MTBE, naphthalene, 1,2-DCA, 8 oxy-8260 | BTEX, MTBE, naphthalene, 1,2-DCA-524.2 | 8 oxy-8260 | EDB-504.1 | | | | | | | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 18686 MW-4A | 6/7/22 | 0955 | JB | GW | 5 | | | X | | | | | | | X | X | | | | | | | | | | |
| 26 | 18686 TW-1 | 6/7/22 | 1521 | JB | GW | 5 | | | X | | | | | | | X | X | | | | | | | | | | |
| 27 | 18686 TW-2 | 6/7/22 | 1220 | JB | GW | 5 | | | X | | | | | | | X | X | | | | | | | | | | |
| 28 | 18686 MW-DupB | 6/7/22 | ~~1521~~ 1426 | JB | GW | 5 | | | X | | | | | | | X | X | | | | | | | | | | |
| 29 | 18686 MW FB-1 | 6/7/22 | 1713 | JB | GW | 5 | | | X | | | | | | | X | X | | | | | | | | | | |
| 30 | 18686 MW FB-2 | 6/7/22 | 1550 | JB | WW | 5 | | | X | | | | | | | X | X | | | | | | | | | | |
| 31 | 18686 WSW-1 | 6/7/22 | 1542 | JB | DW | 9 | | | X | | | | | | | | | X | X | X | | | | | | | |
| 32 | 18686 WSW-3 | 6/7/22 | 1537 | JB | DW | 9 | | | X | | | | | | | | | X | X | X | | | | | | | |
| 33 | 18686 WSW-DupC | 6/7/22 | 1543 | JB | DW | 9 | | | X | | | | | | | | | X | X | X | | | | | | | |
| 34 | 18686 WSW FB | 6/7/22 | 1553 | JB | WW | 9 | | | X | | | | | | | | | X | X | X | | | | | | | |
| 35 | 18686 WSW-TB | 6/7/22 | 0805 | JB | WW | 2 | | | X | | | | | | | | ~~X~~ JB | X | X | ~~X~~ JB | | | | | | | |
| 36 | ~~1686~~ 18686 MW-TB | 6/6/22 | 0800 | JB | WW | 2 | | | 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

**Turnaround Time ( Business days)**

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

**Data Deliverable Information**

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

**Comments / Remarks**

SCDHEC UST management Program, UST Permit No. 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] | 6/8/22 1700 | 2 FED EX 1009 6374 7015 | 3 | 6/9/22 | 4 [signature] |
| Relinquished by/Affiliation | Date Time: | Received By/Affiliation | Relinquished By/Affiliation | Date Time: | Received By/Affiliation |
| 5 | | 6 | 7 | 9:30 | 8 |

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

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

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FA96403: Chain of Custody
Page 3 of 4

# SGS Sample Receipt Summary

**Job Number:** FA96403 **Client:** GRI **Project:** TISDALES QUICK STOP

**Date / Time Received:** 6/9/2022 9:30:00 AM **Delivery Method:** FX **Airbill #'s:** 100963797015

**Therm ID:** IR 1; **Therm CF:** 0.4; **# of Coolers:** 2

**Cooler Temps (Raw Measured) °C:** Cooler 1: (1.0); Cooler 2: (1.2);

**Cooler Temps (Corrected) °C:** Cooler 1: (1.4); Cooler 2: (1.6);

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

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

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

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

**Misc. Information**

Number of Encores: 25-Gram _____ 5-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

SM001
Rev. Date 05/24/17

Technician: NATHANS Date: 6/9/2022 9:30:00 AM Reviewer: _____ Date: _____

## 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:** FA96403
**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 |
|---|---|---|---|---|---|---|---|
| VI2596-MB [a] | I748890.D | 1 | 06/15/22 | JL | n/a | n/a | VI2596 |



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

FA96403-1, FA96403-2, FA96403-3, FA96403-4, FA96403-5, FA96403-6, FA96403-7, FA96403-8, FA96403-9, FA96403-10, FA96403-11, FA96403-12, FA96403-13, FA96403-14, FA96403-15, FA96403-16, FA96403-17, FA96403-18, FA96403-19, FA96403-20

| 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 | 101% | 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 | 102% | 83-118% |

(a) Sample was treated with an anti-foaming agent.

# Method Blank Summary



**Job Number:** FA96403
**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 |
|---|---|---|---|---|---|---|---|
| V2P3506-MB | 2P90049.D | 1 | 06/15/22 | CF | n/a | n/a | V2P3506 |

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

FA96403-21

| 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 | 103% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108% | 79-125% |
| 2037-26-5 | Toluene-D8 | 94% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 83-118% |

# Method Blank Summary



**Job Number:** FA96403
**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 |
|---|---|---|---|---|---|---|---|
| V1P3516-MB [a] | 1P90096.D | 1 | 06/16/22 | CF | n/a | n/a | V1P3516 |

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

FA96403-22, FA96403-23, FA96403-24, FA96403-26, FA96403-27, FA96403-36

| 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 | 102% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108% | 79-125% |
| 2037-26-5 | Toluene-D8 | 93% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 89% | 83-118% |

(a) Sample was treated with an anti-foaming agent.

# Method Blank Summary



**Job Number:** FA96403
**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 |
|---|---|---|---|---|---|---|---|
| VI2597-MB [a] | I748920.D | 1 | 06/16/22 | JL | n/a | n/a | VI2597 |

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

FA96403-2, FA96403-3, FA96403-14, FA96403-29, FA96403-30

| 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 | 100% | 79-125% |
| 2037-26-5 | Toluene-D8 | 98% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | 83-118% |

(a) Sample was treated with an anti-foaming agent.

# Method Blank Summary



**Job Number:** FA96403
**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 |
|---|---|---|---|---|---|---|---|
| V2P3510-MB | 2P90147.D | 1 | 06/17/22 | CF | n/a | n/a | V2P3510 |

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

FA96403-24, FA96403-25, FA96403-28

| 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 | 107% | 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 | 92% | 83-118% |

# Blank Spike Summary



**Job Number:** FA96403
**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 |
|---|---|---|---|---|---|---|---|
| VI2596-BS | I748888.D | 1 | 06/15/22 | JL | n/a | n/a | VI2596 |



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

FA96403-1, FA96403-2, FA96403-3, FA96403-4, FA96403-5, FA96403-6, FA96403-7, FA96403-8, FA96403-9, FA96403-10, FA96403-11, FA96403-12, FA96403-13, FA96403-14, FA96403-15, FA96403-16, FA96403-17, FA96403-18, FA96403-19, FA96403-20

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 25 | 28.3 | 113 | 81-122 |
| 107-06-2 | 1,2-Dichloroethane | 25 | 27.6 | 110 | 75-125 |
| 108-20-3 | Di-Isopropyl Ether | 25 | 29.8 | 119 | 68-123 |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | 1250 | 1050 | 84 | 55-126 |
| 64-17-5 | Ethyl Alcohol | 500 | 408 | 82 | 46-145 |
| 100-41-4 | Ethylbenzene | 25 | 26.9 | 108 | 81-121 |
| 637-92-3 | Ethyl Tert Butyl Ether | 25 | 25.7 | 103 | 71-120 |
| 1634-04-4 | Methyl Tert Butyl Ether | 25 | 26.9 | 108 | 72-117 |
| 91-20-3 | Naphthalene | 25 | 23.0 | 92 | 63-132 |
| 75-85-4 | Tert-Amyl Alcohol | 250 | 246 | 98 | 65-124 |
| 994-05-8 | Tert-Amyl Methyl Ether | 25 | 26.2 | 105 | 73-122 |
| 75-65-0 | Tert-Butyl Alcohol | 250 | 242 | 97 | 63-129 |
| 762-75-4 | Tert-Butyl Formate | 125 | 118 | 94 | 46-130 |
| 108-88-3 | Toluene | 25 | 28.3 | 113 | 80-120 |
| 1330-20-7 | Xylene (total) | 75 | 80.2 | 107 | 80-126 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 103% | 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 | 91% | 83-118% |

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** FA96403
**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 |
|---|---|---|---|---|---|---|---|
| V2P3506-BS | 2P90045.D | 1 | 06/15/22 | CF | n/a | n/a | V2P3506 |



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

FA96403-21

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 25 | 27.8 | 111 | 81-122 |
| 107-06-2 | 1,2-Dichloroethane | 25 | 27.5 | 110 | 75-125 |
| 108-20-3 | Di-Isopropyl Ether | 25 | 26.7 | 107 | 68-123 |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | 1250 | 1150 | 92 | 55-126 |
| 64-17-5 | Ethyl Alcohol | 500 | 484 | 97 | 46-145 |
| 100-41-4 | Ethylbenzene | 25 | 25.7 | 103 | 81-121 |
| 637-92-3 | Ethyl Tert Butyl Ether | 25 | 25.1 | 100 | 71-120 |
| 1634-04-4 | Methyl Tert Butyl Ether | 25 | 27.4 | 110 | 72-117 |
| 91-20-3 | Naphthalene | 25 | 24.8 | 99 | 63-132 |
| 75-85-4 | Tert-Amyl Alcohol | 250 | 277 | 111 | 65-124 |
| 994-05-8 | Tert-Amyl Methyl Ether | 25 | 27.2 | 109 | 73-122 |
| 75-65-0 | Tert-Butyl Alcohol | 250 | 272 | 109 | 63-129 |
| 762-75-4 | Tert-Butyl Formate | 125 | 102 | 82 | 46-130 |
| 108-88-3 | Toluene | 25 | 24.8 | 99 | 80-120 |
| 1330-20-7 | Xylene (total) | 75 | 76.6 | 102 | 80-126 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 109% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108% | 79-125% |
| 2037-26-5 | Toluene-D8 | 95% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 83-118% |

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** FA96403
**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 |
|---|---|---|---|---|---|---|---|
| V1P3516-BS | 1P90092.D | 1 | 06/16/22 | CF | n/a | n/a | V1P3516 |



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

FA96403-22, FA96403-23, FA96403-24, FA96403-26, FA96403-27, FA96403-36

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 25 | 28.0 | 112 | 81-122 |
| 107-06-2 | 1,2-Dichloroethane | 25 | 28.0 | 112 | 75-125 |
| 108-20-3 | Di-Isopropyl Ether | 25 | 26.8 | 107 | 68-123 |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | 1250 | 1210 | 97 | 55-126 |
| 64-17-5 | Ethyl Alcohol | 500 | 443 | 89 | 46-145 |
| 100-41-4 | Ethylbenzene | 25 | 25.9 | 104 | 81-121 |
| 637-92-3 | Ethyl Tert Butyl Ether | 25 | 25.1 | 100 | 71-120 |
| 1634-04-4 | Methyl Tert Butyl Ether | 25 | 27.4 | 110 | 72-117 |
| 91-20-3 | Naphthalene | 25 | 23.7 | 95 | 63-132 |
| 75-85-4 | Tert-Amyl Alcohol | 250 | 286 | 114 | 65-124 |
| 994-05-8 | Tert-Amyl Methyl Ether | 25 | 27.4 | 110 | 73-122 |
| 75-65-0 | Tert-Butyl Alcohol | 250 | 274 | 110 | 63-129 |
| 762-75-4 | Tert-Butyl Formate | 125 | 107 | 86 | 46-130 |
| 108-88-3 | Toluene | 25 | 25.2 | 101 | 80-120 |
| 1330-20-7 | Xylene (total) | 75 | 78.5 | 105 | 80-126 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 108% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110% | 79-125% |
| 2037-26-5 | Toluene-D8 | 95% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 103% | 83-118% |

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** FA96403
**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 |
|---|---|---|---|---|---|---|---|
| VI2597-BS | I748918.D | 1 | 06/16/22 | JL | n/a | n/a | VI2597 |



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

FA96403-2, FA96403-3, FA96403-14, FA96403-29, FA96403-30

| 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 | 26.2 | 105 | 75-125 |
| 108-20-3 | Di-Isopropyl Ether | 25 | 28.5 | 114 | 68-123 |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | 1250 | 989 | 79 | 55-126 |
| 64-17-5 | Ethyl Alcohol | 500 | 440 | 88 | 46-145 |
| 100-41-4 | Ethylbenzene | 25 | 25.1 | 100 | 81-121 |
| 637-92-3 | Ethyl Tert Butyl Ether | 25 | 24.7 | 99 | 71-120 |
| 1634-04-4 | Methyl Tert Butyl Ether | 25 | 25.8 | 103 | 72-117 |
| 91-20-3 | Naphthalene | 25 | 23.1 | 92 | 63-132 |
| 75-85-4 | Tert-Amyl Alcohol | 250 | 228 | 91 | 65-124 |
| 994-05-8 | Tert-Amyl Methyl Ether | 25 | 24.7 | 99 | 73-122 |
| 75-65-0 | Tert-Butyl Alcohol | 250 | 227 | 91 | 63-129 |
| 762-75-4 | Tert-Butyl Formate | 125 | 110 | 88 | 46-130 |
| 108-88-3 | Toluene | 25 | 26.2 | 105 | 80-120 |
| 1330-20-7 | Xylene (total) | 75 | 75.5 | 101 | 80-126 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 106% | 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% |

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** FA96403
**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 |
|---|---|---|---|---|---|---|---|
| V2P3510-BS | 2P90143.D | 1 | 06/17/22 | CF | n/a | n/a | V2P3510 |



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

FA96403-24, FA96403-25, FA96403-28

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 25 | 29.0 | 116 | 81-122 |
| 107-06-2 | 1,2-Dichloroethane | 25 | 30.4 | 122 | 75-125 |
| 108-20-3 | Di-Isopropyl Ether | 25 | 28.4 | 114 | 68-123 |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | 1250 | 1100 | 88 | 55-126 |
| 64-17-5 | Ethyl Alcohol | 500 | 413 | 83 | 46-145 |
| 100-41-4 | Ethylbenzene | 25 | 26.4 | 106 | 81-121 |
| 637-92-3 | Ethyl Tert Butyl Ether | 25 | 27.0 | 108 | 71-120 |
| 1634-04-4 | Methyl Tert Butyl Ether | 25 | 29.6 | 118* | 72-117 |
| 91-20-3 | Naphthalene | 25 | 25.3 | 101 | 63-132 |
| 75-85-4 | Tert-Amyl Alcohol | 250 | 271 | 108 | 65-124 |
| 994-05-8 | Tert-Amyl Methyl Ether | 25 | 29.1 | 116 | 73-122 |
| 75-65-0 | Tert-Butyl Alcohol | 250 | 270 | 108 | 63-129 |
| 762-75-4 | Tert-Butyl Formate | 125 | 115 | 92 | 46-130 |
| 108-88-3 | Toluene | 25 | 25.4 | 102 | 80-120 |
| 1330-20-7 | Xylene (total) | 75 | 77.7 | 104 | 80-126 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 112% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 114% | 79-125% |
| 2037-26-5 | Toluene-D8 | 94% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 83-118% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** FA96403
**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 |
|---|---|---|---|---|---|---|---|
| FA96403-21MS | 2P90071.D | 5 | 06/15/22 | CF | n/a | n/a | V2P3506 |
| FA96403-21MSD | 2P90073.D | 5 | 06/15/22 | CF | n/a | n/a | V2P3506 |
| FA96403-21 | 2P90059.D | 1 | 06/15/22 | CF | n/a | n/a | V2P3506 |

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

FA96403-21

| CAS No. | Compound | FA96403-21 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 | | 125 | 138 | 110 | 125 | 140 | 112 | 1 | 81-122/14 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 125 | 143 | 114 | 125 | 145 | 116 | 1 | 75-125/14 |
| 108-20-3 | Di-Isopropyl Ether | ND | | 125 | 133 | 106 | 125 | 132 | 106 | 1 | 68-123/16 |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | ND | | 6250 | 5420 | 87 | 6250 | 5480 | 88 | 1 | 55-126/17 |
| 64-17-5 | Ethyl Alcohol | ND | | 2500 | 2150 | 86 | 2500 | 1460 | 58 | 38* | 46-145/30 |
| 100-41-4 | Ethylbenzene | ND | | 125 | 126 | 101 | 125 | 131 | 105 | 4 | 81-121/14 |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | | 125 | 126 | 101 | 125 | 130 | 104 | 3 | 71-120/14 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 125 | 138 | 110 | 125 | 142 | 114 | 3 | 72-117/14 |
| 91-20-3 | Naphthalene | ND | | 125 | 121 | 97 | 125 | 119 | 95 | 2 | 63-132/25 |
| 75-85-4 | Tert-Amyl Alcohol | ND | | 1250 | 1340 | 107 | 1250 | 1300 | 104 | 3 | 65-124/23 |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | | 125 | 135 | 108 | 125 | 135 | 108 | 0 | 73-122/13 |
| 75-65-0 | Tert-Butyl Alcohol | ND | | 1250 | 1470 | 118 | 1250 | 1440 | 115 | 2 | 63-129/27 |
| 762-75-4 | Tert-Butyl Formate | ND | | 625 | 280 | 45* | 625 | 261 | 42* | 7 | 46-130/33 |
| 108-88-3 | Toluene | ND | | 125 | 122 | 98 | 125 | 127 | 102 | 4 | 80-120/14 |
| 1330-20-7 | Xylene (total) | ND | | 375 | 373 | 99 | 375 | 387 | 103 | 4 | 80-126/15 |

| CAS No. | Surrogate Recoveries | MS | MSD | FA96403-21 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 111% | 109% | 107% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116% | 112% | 113% | 79-125% |
| 2037-26-5 | Toluene-D8 | 94% | 94% | 95% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 99% | 98% | 83-118% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** FA96403
**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 |
|---|---|---|---|---|---|---|---|
| FA96403-14MS | I748911.D | 20 | 06/15/22 | JL | n/a | n/a | VI2596 |
| FA96403-14MSD | I748912.D | 20 | 06/15/22 | JL | n/a | n/a | VI2596 |
| FA96403-14 | I748910.D | 20 | 06/15/22 | JL | n/a | n/a | VI2596 |



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

FA96403-1, FA96403-2, FA96403-3, FA96403-4, FA96403-5, FA96403-6, FA96403-7, FA96403-8, FA96403-9, FA96403-10, FA96403-11, FA96403-12, FA96403-13, FA96403-14, FA96403-15, FA96403-16, FA96403-17, FA96403-18, FA96403-19, FA96403-20

| CAS No. | Compound | FA96403-14 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 | 532 | | 500 | 1130 | 120 | 500 | 1070 | 108 | 5 | 81-122/14 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 500 | 564 | 113 | 500 | 532 | 106 | 6 | 75-125/14 |
| 108-20-3 | Di-Isopropyl Ether | ND | | 500 | 622 | 124* | 500 | 594 | 119 | 5 | 68-123/16 |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | ND | | 25000 | 20900 | 84 | 25000 | 20400 | 82 | 2 | 55-126/17 |
| 64-17-5 | Ethyl Alcohol | ND | | 10000 | 10700 | 107 | 10000 | 9710 | 97 | 10 | 46-145/30 |
| 100-41-4 | Ethylbenzene | 322 | | 500 | 869 | 109 | 500 | 833 | 102 | 4 | 81-121/14 |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | | 500 | 532 | 106 | 500 | 507 | 101 | 5 | 71-120/14 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 500 | 548 | 110 | 500 | 531 | 106 | 3 | 72-117/14 |
| 91-20-3 | Naphthalene | 94.4 | J | 500 | 613 | 104 | 500 | 594 | 100 | 3 | 63-132/25 |
| 75-85-4 | Tert-Amyl Alcohol | 794 | | 5000 | 6020 | 105 | 5000 | 5720 | 99 | 5 | 65-124/23 |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | | 500 | 522 | 104 | 500 | 502 | 100 | 4 | 73-122/13 |
| 75-65-0 | Tert-Butyl Alcohol | ND | | 5000 | 4930 | 99 | 5000 | 4700 | 94 | 5 | 63-129/27 |
| 762-75-4 | Tert-Butyl Formate | ND | | 2500 | 2250 | 90 | 2500 | 2190 | 88 | 3 | 46-130/33 |
| 108-88-3 | Toluene | 2830 | E | 500 | 3450 | 124* [a] | 500 | 3320 | 98 | 4 | 80-120/14 |
| 1330-20-7 | Xylene (total) | 2480 | | 1500 | 4220 | 116 | 1500 | 4080 | 107 | 3 | 80-126/15 |

| CAS No. | Surrogate Recoveries | MS | MSD | FA96403-14 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 105% | 103% | 100% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104% | 103% | 100% | 79-125% |
| 2037-26-5 | Toluene-D8 | 102% | 103% | 100% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 99% | 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:** FA96403
**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 |
|---|---|---|---|---|---|---|---|
| FA96407-8MS | 1P90134.D | 10 | 06/16/22 | CF | n/a | n/a | V1P3516 |
| FA96407-8MSD | 1P90136.D | 10 | 06/16/22 | CF | n/a | n/a | V1P3516 |
| FA96407-8 | 1P90132.D | 5 | 06/16/22 | CF | n/a | n/a | V1P3516 |

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

FA96403-22, FA96403-23, FA96403-24, FA96403-26, FA96403-27, FA96403-36

| CAS No. | Compound | FA96407-8 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 | 45.8 | | 250 | 326 | 112 | 250 | 321 | 110 | 2 | 81-122/14 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 250 | 317 | 127* | 250 | 295 | 118 | 7 | 75-125/14 |
| 108-20-3 | Di-Isopropyl Ether | ND | | 250 | 282 | 113 | 250 | 272 | 109 | 4 | 68-123/16 |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | ND | | 12500 | 12200 | 98 | 12500 | 12200 | 98 | 0 | 55-126/17 |
| 64-17-5 | Ethyl Alcohol | ND | | 5000 | 3660 | 73 | 5000 | 4190 | 84 | 14 | 46-145/30 |
| 100-41-4 | Ethylbenzene | 194 | | 250 | 466 | 109 | 250 | 460 | 106 | 1 | 81-121/14 |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | | 250 | 267 | 107 | 250 | 263 | 105 | 2 | 71-120/14 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 250 | 291 | 116 | 250 | 283 | 113 | 3 | 72-117/14 |
| 91-20-3 | Naphthalene | 46.3 | | 250 | 283 | 95 | 250 | 267 | 88 | 6 | 63-132/25 |
| 75-85-4 | Tert-Amyl Alcohol | ND | | 2500 | 2970 | 119 | 2500 | 2900 | 116 | 2 | 65-124/23 |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | | 250 | 283 | 113 | 250 | 277 | 111 | 2 | 73-122/13 |
| 75-65-0 | Tert-Butyl Alcohol | ND | | 2500 | 3100 | 124 | 2500 | 3020 | 121 | 3 | 63-129/27 |
| 762-75-4 | Tert-Butyl Formate | ND | | 1250 | 872 | 70 | 1250 | 883 | 71 | 1 | 46-130/33 |
| 108-88-3 | Toluene | 139 | | 250 | 396 | 103 | 250 | 390 | 100 | 2 | 80-120/14 |
| 1330-20-7 | Xylene (total) | 321 | | 750 | 1130 | 108 | 750 | 1100 | 104 | 3 | 80-126/15 |

| CAS No. | Surrogate Recoveries | MS | MSD | FA96407-8 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 114% | 110% | 107% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 119% | 116% | 116% | 79-125% |
| 2037-26-5 | Toluene-D8 | 93% | 93% | 91% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 97% | 98% | 83-118% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** FA96403
**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 |
|---|---|---|---|---|---|---|---|
| FA96414-11MS | I748941.D | 50 | 06/16/22 | JL | n/a | n/a | VI2597 |
| FA96414-11MSD | I748942.D | 50 | 06/16/22 | JL | n/a | n/a | VI2597 |
| FA96414-11 | I748940.D | 50 | 06/16/22 | JL | n/a | n/a | VI2597 |

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

FA96403-2, FA96403-3, FA96403-14, FA96403-29, FA96403-30

| CAS No. | Compound | FA96414-11 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 | 2060 | | 1250 | 3480 | 114 | 1250 | 3410 | 108 | 2 | 81-122/14 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 1250 | 1390 | 111 | 1250 | 1410 | 113 | 1 | 75-125/14 |
| 108-20-3 | Di-Isopropyl Ether | 966 | | 1250 | 2520 | 124* | 1250 | 2490 | 122 | 1 | 68-123/16 |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | ND | | 62500 | 53100 | 85 | 62500 | 52800 | 84 | 1 | 55-126/17 |
| 64-17-5 | Ethyl Alcohol | ND | | 25000 | 24000 | 96 | 25000 | 31100 | 124 | 26 | 46-145/30 |
| 100-41-4 | Ethylbenzene | 794 | | 1250 | 2120 | 106 | 1250 | 2090 | 104 | 1 | 81-121/14 |
| 637-92-3 | Ethyl Tert Butyl Ether | ND | | 1250 | 1320 | 106 | 1250 | 1330 | 106 | 1 | 71-120/14 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 1250 | 1340 | 107 | 1250 | 1350 | 108 | 1 | 72-117/14 |
| 91-20-3 | Naphthalene | 294 | | 1250 | 1520 | 98 | 1250 | 1580 | 103 | 4 | 63-132/25 |
| 75-85-4 | Tert-Amyl Alcohol | 2180 | | 12500 | 14600 | 99 | 12500 | 14800 | 101 | 1 | 65-124/23 |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | | 1250 | 1260 | 101 | 1250 | 1300 | 104 | 3 | 73-122/13 |
| 75-65-0 | Tert-Butyl Alcohol | ND | | 12500 | 12100 | 97 | 12500 | 12100 | 97 | 0 | 63-129/27 |
| 762-75-4 | Tert-Butyl Formate | ND | | 6250 | 5570 | 89 | 6250 | 5650 | 90 | 1 | 46-130/33 |
| 108-88-3 | Toluene | 64.4 | | 1250 | 1460 | 112 | 1250 | 1450 | 111 | 1 | 80-120/14 |
| 1330-20-7 | Xylene (total) | 477 | | 3750 | 4440 | 106 | 3750 | 4470 | 106 | 1 | 80-126/15 |

| CAS No. | Surrogate Recoveries | MS | MSD | FA96414-11 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 105% | 106% | 100% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105% | 107% | 99% | 79-125% |
| 2037-26-5 | Toluene-D8 | 101% | 103% | 98% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | 101% | 98% | 83-118% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** FA96403
**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 |
|---|---|---|---|---|---|---|---|
| FA96263-6MS | 2P90183.D | 5 | 06/17/22 | CF | n/a | n/a | V2P3510 |
| FA96263-6MSD | 2P90185.D | 5 | 06/17/22 | CF | n/a | n/a | V2P3510 |
| FA96263-6 [a] | 2P90157.D | 1 | 06/17/22 | CF | n/a | n/a | V2P3510 |

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

FA96403-24, FA96403-25, FA96403-28

| CAS No. | Compound | FA96263-6 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | 1.0 | U | 125 | 144 | 115 | 125 | 143 | 114 | 1 | 81-122/14 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 125 | 162 | 130* | 125 | 156 | 125 | 4 | 75-125/14 |
| 108-20-3 | Di-Isopropyl Ether | 1.0 | U | 125 | 142 | 114 | 125 | 142 | 114 | 0 | 68-123/16 |
| 624-95-3 | 3,3-Dimethyl-1-Butanol | 50 | U | 6250 | 5620 | 90 | 6250 | 5560 | 89 | 1 | 55-126/17 |
| 64-17-5 | Ethyl Alcohol | 200 | U | 2500 | 1830 | 73 | 2500 | 1260 | 50 | 37* | 46-145/30 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 125 | 131 | 105 | 125 | 131 | 105 | 0 | 81-121/14 |
| 637-92-3 | Ethyl Tert Butyl Ether | 2.0 | U | 125 | 141 | 113 | 125 | 136 | 109 | 4 | 71-120/14 |
| 1634-04-4 | Methyl Tert Butyl Ether | 1.0 | U | 125 | 153 | 122* | 125 | 149 | 119* | 3 | 72-117/14 |
| 91-20-3 | Naphthalene | 5.0 | U | 125 | 118 | 94 | 125 | 122 | 98 | 3 | 63-132/25 |
| 75-85-4 | Tert-Amyl Alcohol | 20 | U | 1250 | 1490 | 119 | 1250 | 1440 | 115 | 3 | 65-124/23 |
| 994-05-8 | Tert-Amyl Methyl Ether | 2.0 | U | 125 | 148 | 118 | 125 | 145 | 116 | 2 | 73-122/13 |
| 75-65-0 | Tert-Butyl Alcohol | 20 | U | 1250 | 1610 | 129 | 1250 | 1590 | 127 | 1 | 63-129/27 |
| 762-75-4 | Tert-Butyl Formate | 20 | U | 625 | 353 | 56 | 625 | 339 | 54 | 4 | 46-130/33 |
| 108-88-3 | Toluene | 1.0 | U | 125 | 123 | 98 | 125 | 123 | 98 | 0 | 80-120/14 |
| 1330-20-7 | Xylene (total) | 3.0 | U | 375 | 390 | 104 | 375 | 392 | 105 | 1 | 80-126/15 |

| CAS No. | Surrogate Recoveries | MS | MSD | FA96263-6 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 116% | 112% | 111% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 117% | 114% | 120% [b] | 79-125% |
| 2037-26-5 | Toluene-D8 | 92% | 93% | 92% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 103% | 101% | 96% | 83-118% |

(a) Sample vial(s) contained bubbles greater than 6mm.
(b) Outside DOD QSM control limits, sample is ND.

* = 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:** FA96403
**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 |
|---|---|---|---|---|---|---|---|
| OP91649-MB | CC083157.D | 1 | 06/16/22 | AF | 06/15/22 | OP91649 | GCC2117 |

**The QC reported here applies to the following samples:** **Method:** SW846 8011

FA96403-1, FA96403-2, FA96403-3, FA96403-4, FA96403-5, FA96403-6, FA96403-7, FA96403-8, FA96403-9, FA96403-10, FA96403-11, FA96403-12, FA96403-13, FA96403-14, FA96403-15, FA96403-16, FA96403-17, FA96403-18, FA96403-19, FA96403-20

| 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 | 105% | 63-137% |

# Method Blank Summary



**Job Number:** FA96403
**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 |
|---|---|---|---|---|---|---|---|
| OP91667-MB | CC083184.D | 1 | 06/17/22 | AF | 06/16/22 | OP91667 | GCC2117 |

**The QC reported here applies to the following samples:** **Method:** SW846 8011

FA96403-21, FA96403-22, FA96403-23, FA96403-24, FA96403-25, FA96403-26, FA96403-27, FA96403-28, FA96403-29, FA96403-30

| 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 | 110% | 63-137% |

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** FA96403
**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 |
|---|---|---|---|---|---|---|---|
| OP91649-BS | CC083158.D | 1 | 06/16/22 | AF | 06/15/22 | OP91649 | GCC2117 |
| OP91649-BSD | CC083159.D | 1 | 06/16/22 | AF | 06/15/22 | OP91649 | GCC2117 |

**The QC reported here applies to the following samples:** **Method:** SW846 8011

FA96403-1, FA96403-2, FA96403-3, FA96403-4, FA96403-5, FA96403-6, FA96403-7, FA96403-8, FA96403-9, FA96403-10, FA96403-11, FA96403-12, FA96403-13, FA96403-14, FA96403-15, FA96403-16, FA96403-17, FA96403-18, FA96403-19, FA96403-20

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | BSD ug/l | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 106-93-4 | 1,2-Dibromoethane | 0.25 | 0.29 | 116 | 0.29 | 116 | 0 | 72-134/28 |

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 109% | 106% | 63-137% |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** FA96403
**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 |
|---|---|---|---|---|---|---|---|
| OP91667-BS | CC083185.D | 1 | 06/17/22 | AF | 06/16/22 | OP91667 | GCC2117 |
| OP91667-BSD | CC083186.D | 1 | 06/17/22 | AF | 06/16/22 | OP91667 | GCC2117 |

**The QC reported here applies to the following samples:** **Method:** SW846 8011

FA96403-21, FA96403-22, FA96403-23, FA96403-24, FA96403-25, FA96403-26, FA96403-27, FA96403-28, FA96403-29, FA96403-30

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | BSD ug/l | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 106-93-4 | 1,2-Dibromoethane | 0.25 | 0.27 | 108 | 0.28 | 112 | 4 | 72-134/28 |

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 97% | 98% | 63-137% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** FA96403
**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 |
|---|---|---|---|---|---|---|---|
| OP91667-MS | CC083187.D | 1 | 06/17/22 | AF | 06/16/22 | OP91667 | GCC2117 |
| OP91667-MSD | CC083188.D | 1 | 06/17/22 | AF | 06/16/22 | OP91667 | GCC2117 |
| FA96407-3 | CC083202.D | 1 | 06/17/22 | AF | 06/16/22 | OP91667 | GCC2117 |

**The QC reported here applies to the following samples:** **Method:** SW846 8011

FA96403-21, FA96403-22, FA96403-23, FA96403-24, FA96403-25, FA96403-26, FA96403-27, FA96403-28, FA96403-29, FA96403-30

| CAS No. | Compound | FA96407-3 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 | ND | | 0.247 | 0.22 | 89 | 0.25 | 0.26 | 104 | 17 | 72-134/28 |

| CAS No. | Surrogate Recoveries | MS | MSD | FA96407-3 | Limits |
|---|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 82% | 95% | 87% | 63-137% |

* = Outside of Control Limits.

# Duplicate Summary



**Job Number:** FA96403
**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 |
|---|---|---|---|---|---|---|---|
| OP91649-DUP | CC083160.D | 1 | 06/16/22 | AF | 06/15/22 | OP91649 | GCC2117 |
| FA96403-1 | CC083161.D | 1 | 06/16/22 | AF | 06/15/22 | OP91649 | GCC2117 |

**The QC reported here applies to the following samples:** **Method:** SW846 8011

FA96403-1, FA96403-2, FA96403-3, FA96403-4, FA96403-5, FA96403-6, FA96403-7, FA96403-8, FA96403-9, FA96403-10, FA96403-11, FA96403-12, FA96403-13, FA96403-14, FA96403-15, FA96403-16, FA96403-17, FA96403-18, FA96403-19, FA96403-20

| CAS No. | Compound | FA96403-1 ug/l | Q | DUP ug/l | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 106-93-4 | 1,2-Dibromoethane | ND | | ND | | nc | 28 |

| CAS No. | Surrogate Recoveries | DUP | FA96403-1 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 94% | 81% | 63-137% |

* = Outside of Control Limits.

**APPENDIX B**

Field Data Information Sheets

dhec

# Underground Storage Tank Management Division
## Field Data Information Sheet – Monitoring Well Gauging

### Site Information

| | | |
|---|---|---|
| Date: 06/6/2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop |
| County: Williamsburg | Project Manager: Arthur Brown | Field Personnel: Jase Bowers |

### 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 | 20.16 | 10-20 | - | 15.89 | — | y | ~ | y | 0/2 | y |
| mw-2 | 25.08 | 10-25 | — | 16.14 | - | y | ~ | y | 0/2 | ~ |
| mw-3 | 25.36 | 10-25 | — | 15.98 | — | y | ~ | buried | 0/2 | ~ |
| mw-4 | ~~20.46~~ | ~~10-25~~ | — | ~~15.95~~ | — | y | ~ | y | 0/3 | ~ |
| mw-5R | 24.26 | 10-25 | — | 15.96 | - | y | ~ | cracked | 0/2 | ~ |
| mw-6 | | 11.5-21.5 | — | | - | | | | | |
| mw-7 | 21.09 | 12-22 | - | 15.62 | - | y | ~ | buried | 0/3 | ~ |
| mw-8 | 21.19 | 12-22 | - | 15.85 | - | y | ~ | buried | 0/3 | ~ |
| mw-9 | 21.15 | 12-22 | - | 16.58 | - | y | ~ | y | 0/3 | ~ |
| mw-10 | | 10-25 | — | | - | | | | | |
| mw-11R | 19.99 | 5-20 | - | 14.31 | - | y | ~ | y | 1/2 | ~ |
| mw-12R | 19.69 | 5-20 | - | 14.73 | - | y | ~ | y | 0/2 | y |
| mw-13 | 24.11 | 10-25 | - | 16.66 | / | y | ~ | y | 0/3 | ~ |

Notes: mw6, mw-10 not located

Signature: [signature]

# Underground Storage Tank Management Division
## Field Data Information Sheet – Monitoring Well Gauging

### Site Information

| | | |
|---|---|---|
| Date: 06/6/2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop |
| County: Williamsburg | Project Manager: Arthur Brown | Field Personnel: Jase Bowers |

### 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-14 | 23.71 | 10-25 | - | 15.73 | - | y | ~ | buried | 0/3 | ~ |
| mw-15 | 24.14 | 10-25 | - | 17.36 | - | y | ~ | buried | 0/3 | ~ |
| mw-16R | 24.79 | 10-25 | - | 16.03 | - | y | ~ | buried | 1/2 | y |
| mw-17R | | 10-25 | - | | - | | | | | |
| mw-18R | 25.31 | 10-25 | - | 18.22 | - | y | ~ | y | 2/2 | y |
| mw-19 | | 10-25 | - | | - | | | | | |
| mw-20 | | 10-25 | - | | - | | | | | |
| mw-21 | 20.18 | 8-23 | - | 15.79 | - | y | ~ | buried | 0/2 | ~ |
| mw-22 | | 10-25 | - | | - | | | | | |
| mw-23 | 22.16 | 9-24 | - | 15.56 | - | y | ~ | buried | 0/2 | ~ |
| mw-24 | | 8-23 | - | | - | | | | | |
| mw-25 | 20.91 | 8-23 | - | 14.12 | - | ~~y~~ | ~ | buried | 0/3 | ~ |
| mw-26 | 19.52 | 6-21 | - | 13.38 | - | y | ~ | buried | 0/2 | y |

Notes: mw-19, mw-20, mw-22, mw-24 not located

Signature: Jase Bowers

dhec

# Underground Storage Tank Management Division
## Field Data Information Sheet – Monitoring Well Gauging

### Site Information

| | | |
|---|---|---|
| Date: 06/6/2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop |
| County: Williamsburg | Project Manager: Arthur Brown | Field Personnel: Jake Bowers |

### 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-27 | 24.53 | 10-25 | — | 18.89 | — | y | n | buried | 0/2 | n |
| MW-28 | 21.47 | 10-25 | — | 18.24 | — | y | n | buried | 0/3 | n |
| MW-29 | | 10-25 | — | | — | | | | | |
| MW-30 | | 7-22 | — | | — | | | | | |
| MW-31 | 20.21 | 10-20 | — | 16.93 | — | y | n | cracked | 0/3 | n |
| MW-1A | 21.25 | unknown | — | 15.51 | — | | n | y | 0/3 | n |
| MW-2A | 20.72 | unknown | — | 15.65 | — | | n | y | 0/3 | y |
| MW-3A | | unknown | — | | — | | | | | |
| MW-4A | 20.76 | unknown | ~~16.06~~ | 16.06 | — | y | n | y | 0/3 | n |
| TW-1 | 42.71 | 41-46 | — | 17.04 | — | y | n | y | 0/3 | y |
| TW-2 | 47.51 | 46 51 | — | 15.32 | — | y | n | buried | 0/2 | y |
| MW-4 | | 10-25 | — | | — | y | n | y | 0/3 | n |
| | | | — | | — | | | | | |

Notes: MW-29, MW-30, MW-3A, MW-4 not found

Signature: Jake Bowers

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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.): 20.16 | |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 15.09 | Free Product Thickness (ft.): N/A | |
| Length of water column (LWC=TWD-DGW)(ft.): 4.27 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1425 | | | | | | | |
| PH (s.u.) | 5.51 | | | | | | | |
| Specific Conductivity (µS/cm) | 96.9 | | | | | | | |
| Water Temperature (°C) | 24.5 | | | | | | | |
| Turbidity (NTU) | 97.41 | | | | | | | |
| Dissolved Oxygen (mg/L) | 2.03 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1425 | Duplicate (Y) or N | If yes, Duplicate Time: 1426 |

Notes: NO purge

Signature: [signature]

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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.): 25.08 | |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 16.14 | Free Product Thickness (ft.): N/A | |
| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): 1.5 | 3 casing volumes 3*CV)(gals): ~~4.25~~ 4.5 | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 1.5 | | | | | | | |
| Time (military) | | | | | | | | |
| PH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1434 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: No purge / Sheen on water, parameters not taken

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 06/7/2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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 X IW ___RW ___Other___ ___Private WSW ___Public WSW | Screened Interval (ft.): 10 to 25 | Total Well Depth (TWD) (ft.): 25.36 | |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 15.98 | Free Product Thickness (ft.): N/A | |
| Length of water column (LWC=TWD-DGW)(ft.): 9.38 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1407 | | | | | | | |
| PH (s.u.) | 6.00 | | | | | | | |
| Specific Conductivity (µS/cm) | 50.7 | | | | | | | |
| Water Temperature (°C) | 22.7 | | | | | | | |
| Turbidity (NTU) | 201.34 | | | | | | | |
| Dissolved Oxygen (mg/L) | 2.37 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1407 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: No Purge

Signature: [signature]

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ or N | |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-3 JB 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.): 10 to 25 | Total Well Depth (TWD) (ft.): ~~25.36~~ | |
| Depth to Free Product (DFP) (ft.): ~~N/A~~ | Depth to Groundwater (DGW) (ft.): ~~15.98~~ | Free Product Thickness (ft.): N/A | |
| Length of water column (LWC=TWD-DGW)(ft.): ~~9.38~~ | 1 casing volume (CV=LWC*C)(gals): ~~1.5~~ | 3 casing volumes 3*CV)(gals): ~~4.75~~ | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| PH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: ~~NO Purge~~ well obstructed @ 13.7. unable to get bailer to water table

Signature: [signature]

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ or N | |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-5R | 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.): 24.26 | |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 15.96 | Free Product Thickness (ft.): N/A | |
| Length of water column (LWC=TWD-DGW)(ft.): 8.3 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1400 | | | | | | | |
| PH (s.u.) | 6.30 | | | | | | | |
| Specific Conductivity (µS/cm) | 1273 | | | | | | | |
| Water Temperature (°C) | 20.9°C | | | | | | | |
| Turbidity (NTU) | 1000+ | | | | | | | |
| Dissolved Oxygen (mg/L) | 4.33 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1400 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: no purge

Signature: [signature]

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ or N | |

### Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-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.): | |
| 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| PH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: not able to locate

Signature: [signature]

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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.): 21.09 | |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 15.62 | Free Product Thickness (ft.): N/A | |
| Length of water column (LWC=TWD-DGW)(ft.): 5.47 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1352 | | | | | | | |
| PH (s.u.) | 6.04 | | | | | | | |
| Specific Conductivity (µS/cm) | 30.7 | | | | | | | |
| Water Temperature (°C) | 21.7 | | | | | | | |
| Turbidity (NTU) | 173.26 | | | | | | | |
| Dissolved Oxygen (mg/L) | 6.59 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1352 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: no purge

Signature: [signature]

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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.): ~~19.04~~ 21.19 | |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): ~~21.49~~ 15.85 | Free Product Thickness (ft.): | |
| Length of water column (LWC=TWD-DGW)(ft.): 5.34 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 0903 | | | | | | | |
| PH (s.u.) | 6.68 | | | | | | | |
| Specific Conductivity (µS/cm) | ~~95.1~~ 54.4 | | | | | | | |
| Water Temperature (°C) | 22.5 | | | | | | | |
| Turbidity (NTU) | 107.18 | | | | | | | |
| Dissolved Oxygen (mg/L) | 2.72 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 0903 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: no Purge

Signature:

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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.): 21.15 | |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): ~~15.25~~ 16.08 | Free Product Thickness (ft.): N/A | |
| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | ~~1~~ 1008 | | | | | | | |
| PH (s.u.) | 4.77 | | | | | | | |
| Specific Conductivity (µS/cm) | 90.3 | | | | | | | |
| Water Temperature (°C) | 22.5 | | | | | | | |
| Turbidity (NTU) | 101.71 | | | | | | | |
| Dissolved Oxygen (mg/L) | 8.59 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 09 25 1007 | Duplicate: Y or (N) | If yes, Duplicate Time: ~~0926~~ |

Notes: No ~~Sheen~~ ~~on water~~, ~~parameters~~ ~~not~~ ran

Signature: [signature]

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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.): | |
| 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| PH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Unable to locate

Signature: [signature]

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ or N | |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-11R | 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.): 5 to 20 | Total Well Depth (TWD) (ft.): 19.99 | |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 14.31 | Free Product Thickness (ft.): N/A | |
| Length of water column (LWC=TWD-DGW)(ft.): 5.68 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1014 | | | | | | | |
| PH (s.u.) | 5.26 | | | | | | | |
| Specific Conductivity (µS/cm) | 59.1 | | | | | | | |
| Water Temperature (°C) | 22.4°C | | | | | | | |
| Turbidity (NTU) | 234.81 | | | | | | | |
| Dissolved Oxygen (mg/L) | 4.63 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1019 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: ~~No~~ Purge NO Purge

Signature: [signature]

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ or N | |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-12R | 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.): 5 to 20 | Total Well Depth (TWD) (ft.): 19.69 | |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 14.73 | Free Product Thickness (ft.): N/A | |
| Length of water column (LWC=TWD-DGW)(ft.): 4.96 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1040 | | | | | | | |
| PH (s.u.) | 6.25 | | | | | | | |
| Specific Conductivity (µS/cm) | 126.5 | | | | | | | |
| Water Temperature (°C) | 21.9 | | | | | | | |
| Turbidity (NTU) | 173.02 | | | | | | | |
| Dissolved Oxygen (mg/L) | 1.96 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1040 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: no purge

Signature: [signature]

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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.): 24.11 | |
| Depth to Free Product (DFP) (ft.): n/a | Depth to Groundwater (DGW) (ft.): 16.66 | Free Product Thickness (ft.): n/a | |
| Length of water column (LWC=TWD-DGW)(ft.): 7.45 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 855 | | | | | | | |
| PH (s.u.) | 5.50 | | | | | | | |
| Specific Conductivity (µS/cm) | 120.1 | | | | | | | |
| Water Temperature (°C) | 20.2 | | | | | | | |
| Turbidity (NTU) | 627.41 | | | | | | | |
| Dissolved Oxygen (mg/L) | 6.70 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 855 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: no Purge

Signature: [signature]

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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.): 23.71 | |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 15.73 | Free Product Thickness (ft.): N/A | |
| Length of water column (LWC=TWD-DGW)(ft.): 7.98 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1442 | | | | | | | |
| PH (s.u.) | 5.79 | | | | | | | |
| Specific Conductivity (µS/cm) | 157.0 | | | | | | | |
| Water Temperature (°C) | 24.2°C | | | | | | | |
| Turbidity (NTU) | 222.78 | | | | | | | |
| Dissolved Oxygen (mg/L) | 7.42 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1442 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: no purge

Signature:

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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.): 24.14 | |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 17.36 | Free Product Thickness (ft.): N/A | |
| Length of water column (LWC=TWD-DGW)(ft.): 6.78 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1452 | | | | | | | |
| PH (s.u.) | 5.20 | | | | | | | |
| Specific Conductivity (µS/cm) | 84.3 | | | | | | | |
| Water Temperature (°C) | 22.4 | | | | | | | |
| Turbidity (NTU) | 281.79 | | | | | | | |
| Dissolved Oxygen (mg/L) | 4.94 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1452 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: No Purge

Signature: [signature]

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ or N | |

### Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-16R | 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.): 24.79 | |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 16.03 | Free Product Thickness (ft.): N/A | |
| Length of water column (LWC=TWD-DGW)(ft.): 8.76 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| PH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1107 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: No Purge/Sheen on water, Parameters not taken

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ or N | |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-17R | 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.): | |
| 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 25 | | | | | | | |
| Time (military) | | | | | | | | |
| PH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Unable to locate

Signature: [signature]

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ or N | |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-18R | 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.): 25.31 | |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 18.22 | Free Product Thickness (ft.): N/A | |
| Length of water column (LWC=TWD-DGW)(ft.): 7.09 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1116 | | | | | | | |
| PH (s.u.) | 4.56 | | | | | | | |
| Specific Conductivity (µS/cm) | 78.3 | | | | | | | |
| Water Temperature (°C) | 22.50c | | | | | | | |
| Turbidity (NTU) | 97.57 | | | | | | | |
| Dissolved Oxygen (mg/L) | 5.90 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1116 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: no Purge

Signature: [signature]

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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.): | |
| 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| PH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: unable to access

Signature: [signature]

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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.): | |
| 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| PH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Unable to access

Signature:

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 6 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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.): 20.18 | |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 15 > 4 | Free Product Thickness (ft.): N/A | |
| Length of water column (LWC=TWD-DGW)(ft.): 4.34 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1644 | | | | | | | |
| PH (s.u.) | 5.29 | | | | | | | |
| Specific Conductivity (µS/cm) | 29.0 | | | | | | | |
| Water Temperature (°C) | 21.4 | | | | | | | |
| Turbidity (NTU) | 950.49 | | | | | | | |
| Dissolved Oxygen (mg/L) | 8.06 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1644 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: no Purge

Signature:

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 6 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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.): 9 to 24 | 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| PH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Unable to locate

Signature: [signature]

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 6 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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.): 22.16 | |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 15.56 | Free Product Thickness (ft.): N/A | |
| Length of water column (LWC=TWD-DGW)(ft.): 6.6 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1656 | | | | | | | |
| PH (s.u.) | 4.93 | | | | | | | |
| Specific Conductivity (µS/cm) | 59.6 | | | | | | | |
| Water Temperature (°C) | 21.7 | | | | | | | |
| Turbidity (NTU) | 105.25 | | | | | | | |
| Dissolved Oxygen (mg/L) | 1.45 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1655 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: NO Rige

Signature: [signature]

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 6 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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.): | |
| 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| PH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: unable to locate

Signature: [signature]

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 6 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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.): 20.81 | |
| Depth to Free Product (DFP) (ft.): n/a | Depth to Groundwater (DGW) (ft.): 14.12 | Free Product Thickness (ft.): n/a | |
| Length of water column (LWC=TWD-DGW)(ft.): 6.69 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1707 | | | | | | | |
| PH (s.u.) | 6.12 | | | | | | | |
| Specific Conductivity (µS/cm) | 112.6 | | | | | | | |
| Water Temperature (°C) | 21.7°C | | | | | | | |
| Turbidity (NTU) | 204.73 | | | | | | | |
| Dissolved Oxygen (mg/L) | 1.62 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1707 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: No Purge

Signature: [signature]

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 6 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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.): 19.52 | |
| Depth to Free Product (DFP) (ft.): n/p | Depth to Groundwater (DGW) (ft.): 13.38 | Free Product Thickness (ft.): n/p | |
| Length of water column (LWC=TWD-DGW)(ft.): 6.14 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1611 | | | | | | | |
| PH (s.u.) | 5.33 | | | | | | | |
| Specific Conductivity (µS/cm) | 75.4 | | | | | | | |
| Water Temperature (°C) | 22.0° | | | | | | | |
| Turbidity (NTU) | 67.23 | | | | | | | |
| Dissolved Oxygen (mg/L) | 5.99 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1611 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: No Purge

Signature: [signature]

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 6 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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.): 24.53 | |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 18.89 | Free Product Thickness (ft.): N/A | |
| Length of water column (LWC=TWD-DGW)(ft.): 5.64 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1622 | | | | | | | |
| PH (s.u.) | 5.18 | | | | | | | |
| Specific Conductivity (µS/cm) | 52.2 | | | | | | | |
| Water Temperature (°C) | 22.3° | | | | | | | |
| Turbidity (NTU) | 127.41 | | | | | | | |
| Dissolved Oxygen (mg/L) | 5.52 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1622 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: no purge

Signature: [signature]

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 6 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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.): 21.47 | |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 18.24 | Free Product Thickness (ft.): N/A | |
| Length of water column (LWC=TWD-DGW)(ft.): 3.23 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1630 | | | | | | | |
| PH (s.u.) | 4.64 | | | | | | | |
| Specific Conductivity (µS/cm) | 3270 | | | | | | | |
| Water Temperature (°C) | 22.3°C | | | | | | | |
| Turbidity (NTU) | 164.99 | | | | | | | |
| Dissolved Oxygen (mg/L) | 7.22 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1630 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: no Purge

Signature: [signature]

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 6 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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.): | |
| 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| PH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: unable to locate

Signature: [signature]

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 6 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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.): | |
| 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| PH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: unable to locate

Signature: [signature]

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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.): 20.21 | |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 16.93 | Free Product Thickness (ft.): N/A | |
| Length of water column (LWC=TWD-DGW)(ft.): 3.28 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1125 | | | | | | | |
| PH (s.u.) | 5.33 | | | | | | | |
| Specific Conductivity (µS/cm) | 42.7 | | | | | | | |
| Water Temperature (°C) | 23.5 | | | | | | | |
| Turbidity (NTU) | 102.47 | | | | | | | |
| Dissolved Oxygen (mg/L) | 8.02 | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1135 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: no purge

Signature: [signature]

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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.): 21.25 | |
| Depth to Free Product (DFP) (ft.): N/D | Depth to Groundwater (DGW) (ft.): 15.51 | Free Product Thickness (ft.): N/A | |
| Length of water column (LWC=TWD-DGW)(ft.): 5.74' | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| PH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 0942 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: no purge/ water has sheen, parameters not taken

Signature: [signature]

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ or N | |

### Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-2R | 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.): 20.72 | |
| Depth to Free Product (DFP) (ft.): 15.65 | Depth to Groundwater (DGW) (ft.): 15.65 | Free Product Thickness (ft.): | |
| Length of water column (LWC=TWD-DGW)(ft.): 5.07 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| PH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 0955 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: No purge water was seen, Parameters not taken

Signature: [signature]

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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 Unknown | 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| PH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: unable to locate

Signature: [signature]

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ or N | |

### Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-4R | 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.): 20.76 | |
| Depth to Free Product (DFP) (ft.): n/a | Depth to Groundwater (DGW) (ft.): 16.06 | Free Product Thickness (ft.): n/a | |
| Length of water column (LWC=TWD-DGW)(ft.): 4.7 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | | | | | | | | |
| PH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 0925 | Duplicate (Y) or N | If yes, Duplicate Time: 0926 |

Notes: no purge / water low sheen, Parameters not taken

Signature: [signature]

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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 |
| ___MW ___IW ___RW ___Other ___ ___Private WSW ___Public WSW | Screened Interval (ft.): 41 to 46 | Total Well Depth (TWD) (ft.): 42.71 | |
| Depth to Free Product (DFP) (ft.): n/a | Depth to Groundwater (DGW) (ft.): 17.04 | Free Product Thickness (ft.): n/a | |
| Length of water column (LWC=TWD-DGW)(ft.): ~~25.67~~ | 1 casing volume (CV=LWC*C)(gals): 4 | 3 casing volumes 3*CV)(gals): 12.25 | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .75 | 4 | 8 | 12.25 | | | | |
| Time (military) | 1503 | 1510 | 1517 | 1524 | | | | |
| PH (s.u.) | 5.97 | 5.57 | 6.03 | 5.19 | | | | |
| Specific Conductivity (µS/cm) | 66.9 | 73.7 | 91.6 | 96.5 | | | | |
| Water Temperature (°C) | 23.1 | 22.3 | 21.9 | 22.4 | | | | |
| Turbidity (NTU) | 132.39 | 151.78 | 158.91 | 162.17 | | | | |
| Dissolved Oxygen (mg/L) | 7.79 | 3.91 | 3.13 | 2.72 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1521 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: _____

Signature: _____

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 06/ 7 /2022 | Site ID #: 18686 | Site Name: Tisdale's Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny/cloudy | Ambient Air Temp (°F): 60 - 85 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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 |
| ___MW ___IW ___RW ___Other Telescoping ___Private WSW ___Public WSW | Screened Interval (ft.): 46 to 51 | Total Well Depth (TWD) (ft.): 44.51 | |
| Depth to Free Product (DFP) (ft.): N/A | Depth to Groundwater (DGW) (ft.): 15.32 | Free Product Thickness (ft.): N/A | |
| Length of water column (LWC=TWD-DGW)(ft.): 29.19 | 1 casing volume (CV=LWC*C)(gals): 4.75 | 3 casing volumes 3*CV)(gals): 14 | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .75 | 4.75 | 9.25 | 14 | | | | |
| Time (military) | 1205 | 1209 | 1213 | 1219 | | | | |
| PH (s.u.) | 6.48 | 6.27 | 5.78 | 5.92 | | | | |
| Specific Conductivity (µS/cm) | 98.6 | 43.2 | 145.5 | 152.0 | | | | |
| Water Temperature (°C) | 27.1°C | 26.5°C | 24.5°C | 22°C | | | | |
| Turbidity (NTU) | 64.96 | 107.23 | 122.91 | 174.25 | | | | |
| Dissolved Oxygen (mg/L) | 6.08 | 6.10 | 3.02 | 2.73 | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1220 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: _____

Signature: _____

**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 4) | X | | |
| 40 | Has the site potentiometric map been provided? (Figure 3) | 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? | | | X |
| 44 | Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix A) | X | | |
| 45 | Is the laboratory performing the analyses properly certified? | X | | |
| 46 | Has the tax map been included with all necessary elements? | | | X |
| 47 | Have the soil boring/field screening logs been provided? | | | X |
| 48 | Have the well completion logs and SCDHEC Form 1903 been provided? | | | X |
| 49 | Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? | | | X |
| 50 | Have the disposal manifests been provided? (Appendix C) | | | X |
| 51 | Has a copy of the local zoning regulations been provided? | | | X |
| 52 | Has all fate and transport modeling been provided? | | | X |
| 53 | Have copies of all access agreements obtained by the contractor been provided? | | | 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? (Appendix D) | X | | |

Explanation for missing or incomplete information.

dhec
Healthy People. Healthy Communities.

MAY 08 2023

MARTY EASLER
196 RICHBURG RD
GREELEYVILLE SC 29056

Re: **Site-Specific Work Plan Request for Groundwater Sampling**
Tisdales Quick Stop, 1989 Thurgood Marshall Boulevard (Highway 527), Kingstree, SC
UST Permit #18686
Release reported March 30, 2001
Monitoring Report received July 15, 2022
Williamsburg County

Dear Mr. Easler:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report submitted by your contractor. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels.

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 R.61-92, implementation of groundwater sampling is necessary. The groundwater sampling must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan, and in compliance with all applicable regulations. A copy of the UST QAPP is available at SCDHEC.gov/Environment/Land-Waste/Underground-Storage-Tanks/Release-Assessment-Clean/Quality-Assurance.

Groundwater samples should be collected from all monitoring wells associated with this release along with all water supply wells within a 1,000 foot radius of the site. Samples should be analyzed for BTEX, Naphthalene, MTBE, 1,2-DCA, the 8 oxygenates, and EDB. Only wells with screens that do not bracket the water table should be purged prior to sampling.

**Your contractor must complete the SSWP 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 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) 898-0500, by fax at (803) 898-0673, or by e-mail at brownaj@dhec.sc.gov.

Sincerely,

Arthur Brown, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Geological Resources, Inc., 3502 Hayes Road, Monroe, NC 28110
Technical file

Geological Resources, Inc.

RECEIVED
MAY 18 2023
UST DIVISION

May 15, 2023

Mr. Arthur Brown
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

UST 86 DOCKETING

Re: GRI Proposal No. 23-301
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. Brown:

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

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: Arthur Brown (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 II
- ☑ Groundwater Sampling
- ☐ GAC
- ☐ Tier I
- ☐ Monitoring Well Installation
- ☐ Other

**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 | 3 | Field Blank |
| 37 | Monitoring Wells | | 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: _____ 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
Comments, if warranted:

UST Permit #: 18686 Facility Name: Tisdales 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: 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: NA Tons Purge Water: 35 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-4, MW-5R, MW-6 through MW-10, MW-11R, MW-12R, MW-13 through MW-15, MW-16R through MW-18R, MW-19 through MW-31, MW-1A through MW-4A, TW-1, and TW-2. Sample water supply wells WSW-1 and WSW-3. Only wells with buried screens 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 for each day of sampling. One WSW sample will be duplicated and a field blank will be collected.

**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 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

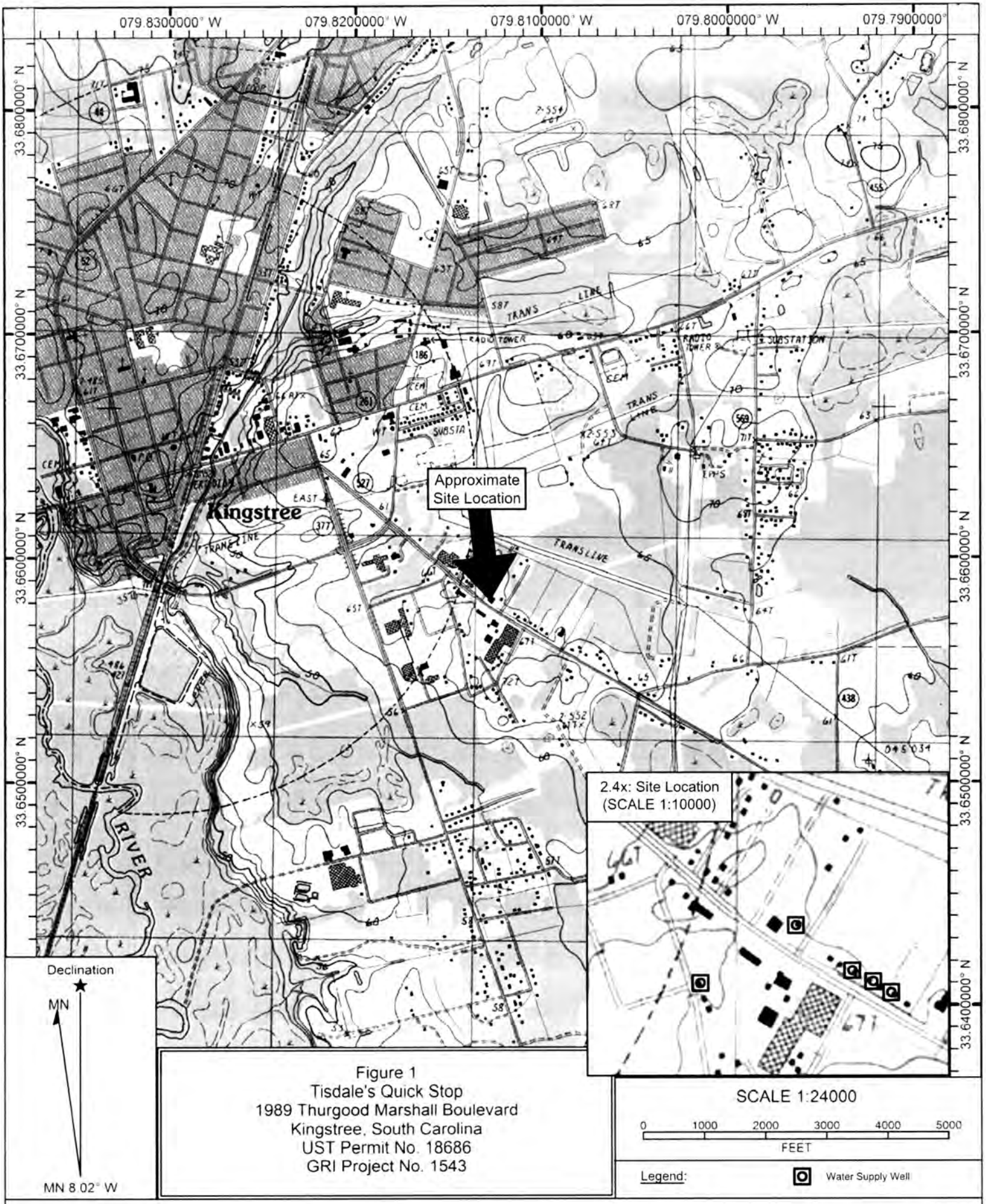



Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit No. 18686
GRI Project No. 1543

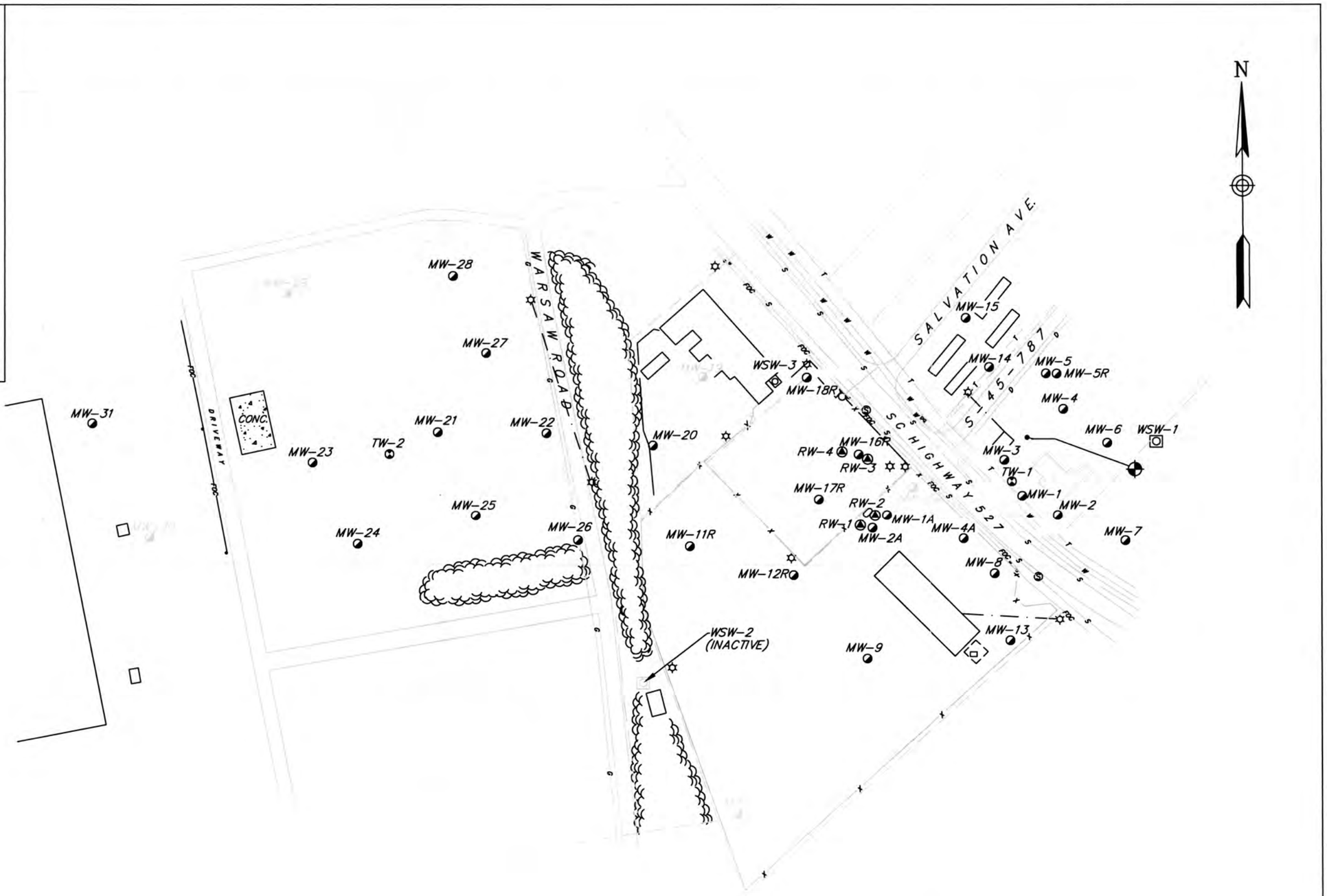
Name: Topographic Map
Date: 08/08/16
Scale: 1 inch = 2,000 ft.

Map Center Location: 033.6579897° N 079.8127613° W

Generated by Geological Resources, Inc.

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- 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
- RECOVERY WELL




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: | 08/12/2020 | Drawn by: | DTH | Figure: | 2 |
|---|---|---|---|---|---|

C:\Users\DARHOWARD\Desktop\New folder (2)\1543\1543 Base Map.dwg, Model, 8/12/2020 9:11:33 AM, DARHOWARD

dhec
Healthy People. Healthy Communities

**ASSESSMENT COMPONENT COST AGREEMENT**
South Carolina
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
July 1, 2022

**Facility Name:** Tisdale's Quick Stop

GRI Prop. No. 23-301

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

| ITEM | QUANTITY | UNIT | UNIT PRICE | | TOTAL |
|---|---|---|---|---|---|
| **A. Plan Preparation** | | | | | |
| 1.1 Site-specific Work Plan | 1 | each | $169.65 | | $169.65 |
| 2.1 Tax Map | | each | $79.17 | | $0.00 |
| 3.1 QAPP Contractor Addendum (App B) | | each | $250.00 | | $0.00 |
| **B. Survey *** | | | | | |
| 1. Receptor Survey | | each | $623.20 | | $0.00 |
| **C. Survey** | | | | | |
| 1.1 Comprehensive Survey | | each | $1,176.26 | | $0.00 |
| 5. Ground Penetrating Radar Survey (100 x 100) | | each | $1,029.23 | | $0.00 |
| **D. Mob/Demob** | | | | | |
| 1.1 Equipment | | each | $1,153.64 | | $0.00 |
| 2.1 Personnel | 2 | each | $478.42 | | $956.84 |
| 3.1 Adverse Terrain Vehicle | | each | $565.51 | | $0.00 |
| **E. Soil Borings*** | | | | | |
| 1. Soil Borings (hand auger) | | foot | $5.66 | | $0.00 |
| **F. Soil Borings (requiring equipment, push technology, etc) or Field Screening (including sampling and analyst)*** | | | | | |
| 1.1 Standard | | per foot | $16.97 | | $0.00 |
| 2.1 Fractured Rock | | per foot | $21.84 | | $0.00 |
| **G.** | | | | | |
| **H. Well Abandonment (does not include Field Screening)*** | | | | | |
| 1.1 2" diameter or less | | per foot | $3.51 | | $0.00 |
| 2.1 Greater than 2" to 6" diameter | | per foot | $5.09 | | $0.00 |
| 3.1 Dug/Bored well (up to 6 feet diameter) | | per foot | $16.96 | | $0.00 |
| **I. Well Installation (In accordance with R.61-71)*** | | | | | |
| 1.1 Water Table (hand augered) | | per foot | $11.99 | | $0.00 |
| 2.A Water Table (drill rig) 2" Diameter | | per foot | $42.98 | | $0.00 |
| 2.1 Single-cased 2" Diameter Monitoring Well >50ft | | per foot | $43.46 | | $0.00 |
| 3.1 Telescoping | | per foot | $56.55 | | $0.00 |
| 4.1 Rock Drilling | | per foot | $65.60 | | $0.00 |
| 5.1 2" Rock Coring | | per foot | $34.95 | | $0.00 |
| 6.1 Multi-sampling ports/screens | | per foot | $37.78 | | $0.00 |
| 7.1 Recovery Well (4" diameter) | | per foot | $50.90 | | $0.00 |
| 9.1 Rotosonic (2" diameter) | | per foot | $49.77 | | $0.00 |
| 10.1 Re-develop Existing Well | | per foot | $12.44 | | $0.00 |
| **J. Groundwater Sample Collection / Gauging Depth to Water/Product *** | | | | | |
| 1.1 Groundwater Purge | 2 | per well | $67.86 | | $135.72 |
| 2.1 Air or Vapors | | sample | $13.57 | | $0.00 |

| | | | | |
|---|---|---|---|---|
| 3.1 Water Supply Sample | 2 | sample | $24.88 | $49.76 |
| 4.1 HydraSleeve | | sample | $53.00 | $0.00 |
| 4.2A No-purge Groundwater Sample/Surface water | 35 | sample | $31.67 | $1,108.45 |
| 5.1 Gauge Well only | | sample | $7.92 | $0.00 |
| 6.1 Sample Below Product | | sample | $13.57 | $0.00 |
| 7.1 Passive Diffusion Bag | | sample | $29.40 | $0.00 |
| 8.1 Field Duplicates (MWs & WSWs) and Field Blanks | 6 | sample | $27.83 | $166.98 |
| 9.1 Groundwater (low flow purge) | | sample | $102.93 | $0.00 |
| 10.1 Equipment Blank | | sample | $27.83 | $0.00 |
| 11. Sample Product | | per well | $48.76 | $0.00 |
| **K. Laboratory Analyses-Groundwater** | | | | |
| 1.1 BTEXNM+Oxyg's+1,2 DCA+Eth(8260D) | 42 | per sample | $137.98 | $5,795.16 |
| 2.1 Lead, Filtered | | per sample | $15.60 | $0.00 |
| 3.1 Rush EPA Method 8260B | | per sample | $173.72 | $0.00 |
| 4.1 Trimethal, Butyl, and Isopropyl Benzenes | | per sample | $31.67 | $0.00 |
| 5.1 PAH's | | per sample | $68.54 | $0.00 |
| 6.1 Lead | | per sample | $18.09 | $0.00 |
| 7.1 EDB by EPA 8011 | 41 | per sample | $51.12 | $2,095.92 |
| 8.1 EDB by EPA Method 8011 Rush | | per sample | $77.14 | $0.00 |
| 9.1 8 RCRA Metals | | per sample | $71.71 | $0.00 |
| 10.1 TPH (9070) | | per sample | $46.38 | $0.00 |
| 11.1 PH | | per sample | $5.88 | $0.00 |
| 12.1 BOD | | per sample | $22.62 | $0.00 |
| 13.1 Ethanol | | per sample | $16.74 | $0.00 |
| **K. Analyses-Drinking Water** | | | | |
| 14.1 BTEXNM+1,2 DCA (524.2) | 5 | per sample | $140.30 | $701.50 |
| 15.1 7-OXYGENATES & ETHANOL (8260D) | 5 | per sample | $103.77 | $518.85 |
| 16.1 EDB (504.1) | 4 | per sample | $89.92 | $359.68 |
| 17.1 RCRA METALS (200.8) | | per sample | $113.10 | $0.00 |
| **K. Analyses-Soil** | | | | |
| 18.1 BTEX + Naphth. | | per sample | $72.39 | $0.00 |
| 19.1 PAH's | | per sample | $72.43 | $0.00 |
| 20.1 8 RCRA Metals | | per sample | $63.79 | $0.00 |
| 21.1 TPH-DRO (3550C/8015C) | | per sample | $45.24 | $0.00 |
| 22.1 TPH- GRO (5035B/8015C) | | per sample | $40.67 | $0.00 |
| 23.1 Grain size/hydrometer | | per sample | $117.63 | $0.00 |
| 24.1 Total Organic Carbon | | per sample | $34.61 | $0.00 |
| **K. Analyses-Air** | | | | |
| 25.1 BTEX + Naphthalene | | per sample | $244.30 | $0.00 |
| **K. Hydrocarbon Fuel Identification** | | | | $0.00 |
| 27. C3-C44 Whole Oil (ASTM D3328) | | per sample | $431.42 | $0.00 |
| 28. Fuel Oxygenates (1624 Mod) | | per sample | $368.88 | $0.00 |
| 29. ALKYL Leads, EDB MMT (8080) | | per sample | $368.88 | $0.00 |
| 30. C8-C40 Full Scan (ASTM 5739) | | per sample | $583.00 | $0.00 |
| 31. Simulated Distillation (ASTM 2887) | | per sample | $368.88 | $0.00 |
| 32. Parent & Alk. PAH Com. (8270 SIM) | | per sample | $670.03 | $0.00 |
| 33. C3-C10 Piano (8260 MOD) | | per sample | $555.44 | $0.00 |
| 34. C10+Alkane Fingerprints | | per sample | $555.44 | $0.00 |
| 35. Expert Data Interpretation & Report | | each | $551.20 | $0.00 |

| | | | | | |
|---|---|---|---|---|---|
| **L. Aquifer Characterization*** | | | | | |
| 1.1 Pumping Test | | per hour | $26.01 | | $0.00 |
| 2.1 Slug Test | | per test | $216.03 | | $0.00 |
| 3.1 Fractured Rock | | per test | $113.10 | | $0.00 |
| **M. Free Product *** | | | | | |
| 1. Free Product Recovery Rate Test | | each | $42.98 | | $0.00 |
| **N.** | | | | | |
| **O. Risk Evaluation** | | | | | |
| 1.1 Tier I Risk Evaluation | | each | $339.31 | | $0.00 |
| 2.1 Tier II Risk Evaluation | | each | $113.10 | | $0.00 |
| **P. Survey*** | | | | | |
| 1. Subsequent Survey | | each | $275.60 | | $0.00 |
| **Q. Disposal (gallons or tons)*** | | | | | |
| 1.1 Wastewater | 35 | gallon | $0.64 | | $22.40 |
| 2.1 Free Product | | gallon | $0.56 | | $0.00 |
| 3.1 Soil Treatment/Disposal | | ton | $67.86 | | $0.00 |
| 4.1 Drilling fluids | | gallon | $0.48 | | $0.00 |
| **R. Miscellaneous (attach receipts)** | | | | | |
| | | each | $0.00 | | $0.00 |
| | | each | $0.00 | | $0.00 |
| | | each | $0.00 | | $0.00 |
| **T. Tier I Assessment (Use DHEC 3665 form)** | | | | | |
| 1.1 Southeast Region | | standard | $11,687.56 | | $0.00 |
| 2.1 All Other Counties | | standard | $12,818.58 | | $0.00 |
| **U. IGWA (Use DHEC 3666 form)** | | | | | |
| 1.1 Southeast Region | | standard | $4,031.18 | | $0.00 |
| 2.1 All Other Counties | | standard | $4,370.38 | | $0.00 |
| **V. Active Correction Action** | | PFP | Bid Cost | | $0.00 |
| **W. Aggressive Fluid & Vapor Recovery (AFVR)** | | | | | |
| 1.1 8-hour Event* | | per event | $1,655.00 | | $0.00 |
| 2. 24-hour Event* | | per event | $4,081.28 | | $0.00 |
| 3. 48-hour Event* | | per event | $6,706.10 | | $0.00 |
| 4. 96-hour Event* | | per event | $13,409.52 | | $0.00 |
| 5. Off-gas Treatment 8 hour | | per event | $130.71 | | $0.00 |
| 6.1 Off-gas Treatment 24 hour | | per event | $272.50 | | $0.00 |
| 7.1 Off-gas Treatment 48 hour | | per event | $357.50 | | $0.00 |
| 8. Off-gas Treatment 96 hour | | per event | $832.26 | | $0.00 |
| 9. Off-gas Treatment 8 hour (w/chlorinated compounds) | | per event | $430.00 | | $0.00 |
| 10. Off-gas Treatment 24 hour (w/chlorinated compounds) | | per event | $500.00 | | $0.00 |
| 11. Off-gas Treatment 48 hour (w/chlorinated compounds) | | per event | $1,000.00 | | $0.00 |
| 12. Off-gas Treatment 96 hour (w/chlorinated compounds) | | per event | $2,000.00 | | $0.00 |
| 13.1 AFVR Effluent Disposal(w/chlorinated compounds) | | gallon | $0.59 | | $0.00 |
| 14.1 AFVR Site Reconnaissance | | each | $280.00 | | $0.00 |
| 15. Additional Hook-ups | | each | $27.48 | | $0.00 |
| 16.1 AFVR Effluent Disposal | | gallon | $0.49 | | $0.00 |
| 17.1 AFVR Mobilization/Demobilization | | each | $720.00 | | $0.00 |
| 18. Mobilization for absorbents/skimmers | | each | $531.25 | | $0.00 |
| 19. Well sock 2" ID well | | each | $34.20 | | $0.00 |
| 20. Well sock 4" ID well | | each | $45.40 | | $0.00 |

| | | | | | |
|---|---|---|---|---|---|
| 21. pad (per pad) | | each | $46.25 | | $0.00 |
| 22. 3" diameter x 10' length boom | | each | $100.00 | | $0.00 |
| 23. 5" diameter x 10' length boom | | each | $123.00 | | $0.00 |
| 24. New FPP recovery skimmer (2" wells) | | each | $732.50 | | $0.00 |
| 25. New FPP recovery skimmer (4" wells) | | each | $1,155.00 | | $0.00 |
| 26. Refurbished FPP recovery skimmer (2" or 4" wells) | | each | $704.00 | | $0.00 |
| 27. Disposal of Absorbents | | pound | $3.80 | | $0.00 |
| 28. Disposal of product from skimmers | | gallon | $0.46 | | $0.00 |
| **X. Granulated Activated Carbon (GAC) filter system installation & service:** | | | | | |
| 1.1 New GAC System Installation* | | each | $2,148.94 | | $0.00 |
| 2.1 Refurbished GAC Sys. Install* | | each | $1,017.92 | | $0.00 |
| 3.1 Filter replacement/removal* | | each | $395.86 | | $0.00 |
| 4.1 GAC System removal, cleaning, & refurbishment* | | each | $311.04 | | $0.00 |
| 5.1 GAC System housing* | | each | $282.76 | | $0.00 |
| 6.1 In-line particulate filter | | each | $169.65 | | $0.00 |
| 7.1 Additional piping & fittings | | foot | $1.70 | | $0.00 |
| **Y. Well Repair** | | | | | |
| 1.1 Additional Copies of the Report Delivered | | each | $56.55 | | $0.00 |
| 2.1 Repair 2x2 MW pad* | | each | $56.55 | | $0.00 |
| 3.1 Repair 4x4 MW pad* | | each | $99.53 | | $0.00 |
| 4.1 Replace well vault* | | each | $133.46 | | $0.00 |
| 5.1 Replace well cover bolts | | each | $2.94 | | $0.00 |
| 6.1 Replace locking well cap & lock | | each | $16.96 | | $0.00 |
| 7.1 Replace/Repair stick-up* | | each | $151.56 | | $0.00 |
| 8.1 Convert Flush-mount to Stick-up* | | each | $169.65 | | $0.00 |
| 9.1 Convert Stick-up to Flush-mount* | | each | $147.03 | | $0.00 |
| 10.1 Replace missing/illegible well ID plate | | each | $13.57 | | $0.00 |
| 11. Down-hole Camera | | per foot | $27.08 | | $0.00 |
| **Z. High Resolution Site Characterization** | | | | | |
| 1. HRSC Screening Equipment Mobilization | | each | $1,360.00 | | $0.00 |
| 2. HRSC Drilling Category 1 | | per foot | $29.00 | | $0.00 |
| 3. HRSC Drilling Category 2 | | per foot | $33.50 | | $0.00 |
| 4. HRSC Drilling Category 3 | | per foot | $27.00 | | $0.00 |
| 5. HRSC 3-D Model | | each | $4,040.00 | | $0.00 |
| **S. Report Prep & Project Management** | 12% | percent | $12,080.91 | | $1,449.71 |
| **TOTAL** | | | | | $13,530.62 |

dhec
Healthy People. Healthy Communities.

JUN 19 2023

MARTY EASLER
196 RICHBURG RD
GREELEYVILLE SC 29056

Re: **Site Specific Work Plan Approval and Groundwater Sampling Notice to Proceed**
Tisdales Quick Stop, 1989 Thurgood Marshall Boulevard (Highway 527), Kingstree, SC
UST Permit #18686; CA #67211
Release #1 reported March 30, 2001
Site Specific Work Plan received May 18, 2023
Williamsburg County

Dear Mr. Easler:

The Underground Storage Tank Management Division (UST 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. The groundwater sampling event should begin immediately upon receipt of this letter. All work should be conducted in compliance with the current revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan, and all applicable regulations. The QAPP is available at scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance.

Pursuant to S.C. Code Ann. Section 44-2-40(D), "The SUPERB Account and the SUPERB Financial Responsibility Fund shall provide combined coverage for site rehabilitation and third party claims, respectively, not to exceed one million dollars per occurrence". **According to UST Division records, approximately $592,230.43 has been expended from the SUPERB Account to date.** This scope of work, as recommended by your contractor, is anticipated to cost approximately $13,474.89.

**The contractor must provide notification to the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes to the schedule, the UST Project Manager must be contacted within 24 hours of those changes.**

In accordance with Section IV.A.4.c of the SUPERB Site Rehabilitation & Fund Access Regulation (R.61-98), the contractor shall be required to indemnify the property owner, underground storage tank owner/operator and the State of South Carolina from and against all claims, damages, losses and expenses arising out of or resulting from activity conducted by the contractor, its agents, employees or subcontractors.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. **The Monitoring Report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the UST Division within sixty (60) days of the date of this correspondence.** 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 the SUPERB Account cannot compensate any costs that are not pre-approved. 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 UST 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 UST 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.

**If the report cannot be submitted by the required due date, an extension may be requested by submitting a written request, either via postal mail or email, to my attention prior to the due date. The Department will issue a Notice of Alleged Violation if the report is not submitted by the required due date.**

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 a DHEC-certified site rehabilitation contractor as required by the SUPERB Site Rehabilitation and Fund Access Regulation, R.61-98.

The UST 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 the UST Permit number above. Should you have any questions, please contact me by phone at (803) 898-0500, by fax at (803) 898-0673, or by email at brownaj@dhec.sc.gov.

Sincerely,

Arthur Brown, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

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

# Approved Cost Agreement 67211

Facility: 18686 TISDALES QUICK STOP
BROWNAJ
PO Number:

| Task / Description | Categories | Item Description | Qty / Pct | Unit Price | Amount |
|---|---|---|---|---|---|
| A PLAN PREPARATION | | | | | |
| | | 1.1 SITE SPECIFIC WORK PLAN | 1.0000 | $169.650 | 169.65 |
| D MOB/DEMOB | | | | | |
| | | 2.1 PERSONNEL | 2.0000 | $478.420 | 956.84 |
| J SAMPLE COLLECTION | | | | | |
| | | 1.1 GROUND WATER PURGE | 2.0000 | $67.860 | 135.72 |
| | | 4.2A NO-PURGE GW SAMPLE/SURFACE | 35.0000 | $31.670 | 1,108.45 |
| | | 8.1 FIELD DUPL. (MWS & WSWS) & FB | 6.0000 | $27.830 | 166.98 |
| K ANALYSES | | | | | |
| | DW DRINKING WATER | 14.1 BTEXNM+1,2 DCA (524.2) WSW | 5.0000 | $140.300 | 701.50 |
| | | 15.1 OXYGENATES & ETHANOL 8260B WSW | 5.0000 | $103.770 | 518.85 |
| | | 16.1 EDB (504.1) WSW | 4.0000 | $89.920 | 359.68 |
| | GW GROUNDWATER | 1.1 BTEXNM+OXYGS+1,2 DCA+ETH-8260D | 42.0000 | $137.980 | 5,795.16 |
| | | 7.1 EDB BY EPA 8011 | 41.0000 | $51.120 | 2,095.92 |
| Q DISPOSAL | | | | | |
| | | 1.1 WASTEWATER | 35.0000 | $0.640 | 22.40 |
| S REPORT PROJECT MANAGEMENT | | | | | |
| | | S REPORT PREP & PROJ. MANAGEMENT | 0.1200 | $12,031.150 | 1,443.74 |
| | | | | Total Amount | 13,474.89 |

Geological Resources, Inc.

August 9, 2023

Mr. Arthur Brown
SCDHEC
UST Management Division
Bureau of Land & Waste Management
2600 Bull Street
Columbia, SC 29201

Re: Ground Water Monitoring Report
July 2023
Tisdale's Quick Shop
1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County
South Carolina
UST Permit Number: 18686
GRI Project Number: 1543

Dear Mr. Brown,

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**

Geological Resources, Inc.

Ground Water Monitoring Report
July 2023
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County
South Carolina
UST Permit Number: 18686
GRI Project Number: 1543

Prepared for:

Mr. Marty Easler
196 Richburg Road
Greeleyville, South Carolina 29056

August 8, 2022

NORTH CAROLINA LICENSED SEAL 2105 GEOLOGIST SAMUEL MCKAY III

W. Scott Ball
Project Manager

Samuel L. McKay, III, P.G.
License No. 2783

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
Class 1 UST Site Rehabilitation Contractor #74

**ACRONYMS**

ACM: Asbestos Containing Materials

AFVR: Aggressive Fluid-Vapor Recovery

AS: Air Sparging

AST: Aboveground Storage Tank

ASTM: American Society for Testing and Materials

BGS: Below Ground Surface

BLWM: Bureau of Land and Waste Management

CA: Cost Agreement

CAP: Corrective Action Plan

CFR: Code of Federal Regulations

COC: Chain of Custody

CoC: Chemical of Concern

DPE: Dual Phase Extraction

DRO: Total Petroleum Hydrocarbons Diesel Range Organics

EPA: Environmental Protection Agency

ER: Engineering Report

ESA: Environmental Site Assessment

GC: Gas Chromatograph

GRI: Geological Resources, Inc.

GRO: Total Petroleum Hydrocarbons Gasoline Range Organics

IGWA: Initial Ground Water Assessment

MCL: Maximum Contaminant Level

MDL: Method Detection Limit

MNA: Monitored Natural Attenuation

NAPL: Non-Aqueous Phase Liquid, “Free Product”

NPDES: National Pollutant Discharge Elimination System

OVA: Organic Vapor Analyzer

PAHs: Polynuclear Aromatic Hydrocarbons

QA: Quality Assurance

QAPP: Quality Assurance Project Plan

QC: Quality Control

QMP: Quality Management Plan

RBSL: Risk-Based Screening Level

SCDHEC: South Carolina Department of Health and Environmental Control

SCDOT: South Carolina Department of Transportation

SOP: Standard Operating Procedure

SPCC: Spill Prevention Control and Countermeasures

SSTL: Site Specific Target Level

SSWP: Site Specific Work Plan

SVE: Soil Vapor Extraction

SVOCs: Semi-Volatile Organic Compounds

SWPPP: Stormwater Pollution Prevention Plan

TCLP: Toxicity Characteristic Leaching Procedure (EPA Method SW-846 1311)

TOC: Top of Casing

TPH: Total Petroleum Hydrocarbons

USGS: United States Geological Survey

UST: Underground Storage Tank

UVF: Ultraviolet Fluorescence

VOCs: Volatile Organic Compounds

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Figure 1: Site Location Map
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Table 1: Summary of Ground Water Elevation Data
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**APPENDICES**

Appendix A: Laboratory Analytical Report - Ground Water Samples
Appendix B: Field Data Information Sheets
Appendix C: Disposal Manifest
Appendix D: Contractor Checklist

## 1. INTRODUCTION

### 1.1 Project Background

This report presents the results of ground water sampling activities conducted in July 2023 at the Tisdale's Quick Stop site, located at 1989 Thurgood Marshall Boulevard in Kingstree, Williamsburg County, South Carolina. A topographic map of the general site location and the surrounding area is included as **Figure 1**. The activities were conducted in accordance with the "Site-Specific Work Plan Approval and Groundwater Sampling Notice to Proceed" dated June 19, 2023, 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 facility and currently operates as a convenience store and grill. Adjacent properties are currently used for residential and commercial purposes.

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. According to the SCDHEC 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 USTs and one 1,000-gallon diesel UST were removed in March 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.

Five water supply wells (WSW-1 through WSW-5) were identified within 1,000 feet of the source area during a receptor survey conducted in January 2002. WSW-1 is located on an adjacent property approximately 170 feet northeast of the on-site source area. Water supply well WSW-2 is located approximately 650 feet to the southwest of the source area. Currently, WSW-2 is inoperable. Water supply wells WSW-3 through WSW-5 are located to the southeast of the source area on single family residential properties fronting the north side of Highway 527. Each of these properties has access to the municipal water supply, and the wells are not in use or are used for irrigation purposes only. No surface water bodies were identified within a 1,000-foot radius of the site.

Four recovery wells (RW-1 through RW-4) were installed in the area of highest contaminant concentrations in January 2019. Two 96-hour AFVR events were conducted in February 2019 on MW-2A, MW-16R, RW-1, RW-2, RW-3 and RW-4 to reduce concentrations of chemicals of concern. The last comprehensive ground water sampling event conducted at the site occurred in June 2022. This report summarizes the July 2023 ground water monitoring results. Please refer to earlier submittals for additional information regarding previous assessment activities.

### 1.2 Regional Geology/Hydrogeology

The site is located in Williamsburg County in the Lower Coastal Plain Physiographic Province of South Carolina. The Coastal Plain is an extensive geologic province that roughly parallels the Atlantic Ocean and continues northward and southward through the neighboring states. In South Carolina, the Coastal Plain is expressed physiographically in three regional belts: the Upper Coastal Plain, the Middle Coastal Plain and the Lower Coastal Plain. The surface deposits in the Coastal Plain are generally characterized by a recurrent sequence of clean fine to medium sand, muddy fine sand, and clean to muddy, medium to coarse sand or gravelly sand. These textures represent changes in depositional environments from beach, to back barrier, to river respectively.

The major aquifer systems in the Middle and Lower Coastal Plain are the Middendorf Aquifer System, the Black Creek Aquifer System, the Tertiary Aquifer System and the Surficial Aquifer System. The surficial aquifer system consists mostly of beds of unconsolidated sand, shelly sand and shells. In places, clay beds are sufficiently thick and continuous to divide the system into two or three aquifers; however, the system is mostly undivided. Complex interbedding of fine-and coarse-grained textured rocks is typical of the system. The thickness of the surficial aquifer system is typically less than 50 feet and thickens coastward. The rocks that comprise the surficial aquifer system range from late Miocene to Holocene in age.

## 2. SITE INFORMATION

- **Site Identification**
  - Site Name: Tisdale's Quick Stop
  - Location of Source Area: 1989 Thurgood Marshall Boulevard<br>Kingstree, SC 29526<br>Williamsburg County<br>33.6579897°N, 79.8127613°W (Topographical Map)
  - UST Permit Number: 18686
  - Land Use: Commercial

- **Information about Contacts Associated with the Leaking UST System**

**UST Owner/Operator**
Marty Easler
196 Richburg Road
Greeleyville, SC 29056
(843) 372-2502

**Analytical Laboratory**
Waypoint Analytical, LLC
449 Springbrook Road
Charlotte, NC 28217
State Certification No. 99012
(704) 529-6364

**Site Rehabilitation Contractor**
Geological Resources, Inc.
3502 Hayes Road
Monroe, NC 28110
704-845-4010
Class 1, Certification Number 74

**Property Owner**
Andy McKnight (Life)
316 McCullough Loop
Kingstree, SC 29566
(843) 382-2474

- **Information about Release**
  - Release was discovered March 30, 2001.
  - An unknown amount of product was released from a leaking UST system.
  - Two 550-gallon gasoline USTs and one 1,000-gallon diesel UST were removed March 1, 2001.

## 3. ASSESSMENT INFORMATION

### 3.1 Site Geology/Hydrogeology

Based on information obtained during the site assessment activities, the material encountered during subsurface exploration consisted of various silts, clays and sands to depths of approximately 51 feet, the maximum depth investigated.

Twenty two Type III monitoring wells (MW-1, MW-2, MW-3, MW-7, MW-8, MW-9, MW-11R, MW-12R, MW-13, MW-14, MW-15, MW-16R, MW-18R, MW-21, MW-23, MW-25, MW-26, MW-27, MW-31, MW-1A, MW-2A and MW-4A), two telescoping monitoring wells (TW-1 and TW-2), and two water supply wells (WSW-1 and WSW-3) were gauged, purged and/or sampled on July 5 and July 6, 2023. Please note, monitoring well MW-4 had an obstruction at 13.65 feet BGS and could not be gauged or sampled. Monitoring wells MW-3A, MW-5R, MW-6, MW-10, MW-17R, MW-19, MW-20, MW-22, MW-24, MW-28, MW-29, and MW-30 were inaccessible or could not be located, therefore, they were neither gauged nor sampled. Measurable free product was not observed in any of the monitoring wells during the July 2023 gauging activities.

The depths to ground water in the Type III monitoring wells at the site, measured on July 5, 2023, ranged from 13.15 feet to 18.31 feet below the top of casings. The depths to ground water in telescoping wells TW-1 and TW-2 were 17.08 feet and 15.35 feet, respectively. Ground water elevations in the Type III monitoring wells relative to a temporary benchmark of 100.00 ranged from 78.95 to 82.78 feet. Based on this data, the general direction of ground water flow in the Type III wells was toward the northwest. The ground water elevations in telescoping wells TW-1 and TW-2 were 81.92 feet and 79.94 feet, respectively. The shallow horizontal hydraulic gradient calculated across the site was approximately 0.004 feet/foot. The vertical hydraulic gradient between paired wells MW-1/TW-1 was 0.032 feet/foot downward. A Site Map showing the locations of the monitoring wells and the structures on-site is included as **Figure 2**. A Water Table Surface Map is included as **Figure 3**. A summary of ground water gauging data for the July 2023 sampling event is included in **Table 1**. A summary of the July 2023 gauging data is shown below:

| **Well No.** | **Top of Casing Elevation** (ft) | **Depth to Ground Water** (ft) | **Ground Water Elevation** (ft) | **Constructed Well Depth** (ft) | **Screened Interval** (ft) |
|---|---|---|---|---|---|
| MW-1 | 98.80 | 16.02 | 82.78 | 20 | 10-20 |
| MW-2 | 98.81 | 16.25 | 82.56 | 25 | 10-25 |
| MW-3 | 98.75 | 16.02 | 82.73 | 25 | 10-25 |
| MW-5R | 98.23 | NM | NM | 25 | 10-25 |
| MW-7 | 98.20 | 15.67 | 82.53 | 22 | 12-22 |
| MW-8 | 98.14 | 15.92 | 82.22 | 22 | 12-22 |
| MW-9 | 98.50 | 16.93 | 81.57 | 22 | 12-22 |
| MW-11R | 95.13 | 14.36 | 80.77 | 20 | 5-20 |
| MW-12R | 96.04 | 14.77 | 81.27 | 20 | 5-20 |
| MW-13 | 98.97 | 16.75 | 82.22 | 25 | 10-25 |
| MW-14 | 98.37 | 16.07 | 82.30 | 25 | 10-25 |
| MW-15 | 99.53 | 17.51 | 82.02 | 25 | 10-25 |
| MW-16R | 97.98 | 16.20 | 81.78 | 25 | 10-25 |
| MW-18R | 99.36 | 18.30 | 81.06 | 25 | 10-25 |
| MW-21 | 95.68 | 15.65 | 80.03 | 23 | 8-23 |
| MW-23 | 95.78 | 16.02 | 79.76 | 24 | 9-24 |
| MW-25 | 94.28 | 14.18 | 80.10 | 23 | 8-23 |
| MW-26 | 93.92 | 13.15 | 80.77 | 21 | 6-21 |
| MW-27 | 98.18 | 18.31 | 79.87 | 25 | 10-25 |
| MW-28 | 98.43 | NM | NM | 25 | 10-25 |
| MW-31 | 95.95 | 17.00 | 78.95 | 20 | 10-20 |

| Well No. | Top of Casing Elevation (ft) | Depth to Ground Water (ft) | Ground Water Elevation (ft) | Constructed Well Depth (ft) | Screened Interval (ft) |
|---|---|---|---|---|---|
| MW-1A | 97.17 | 15.61 | 81.56 | Unknown | Unknown |
| MW-2A | 97.28 | 15.78 | 81.50 | Unknown | Unknown |
| MW-4A | 98.07 | 16.03 | 81.94 | Unknown | Unknown |
| TW-1 | 99.00 | 17.08 | 81.92 | 46 | 41-46 |
| TW-2 | 95.29 | 15.35 | 79.94 | 51 | 46-51 |

### 3.2 Ground Water Quality

Field readings (pH, specific conductivity, temperature, dissolved oxygen, and turbidity) were collected from the purged wells after each well volume was removed and recorded on field data information sheets. Ground water samples collected from the monitoring wells were analyzed for the following compounds: BTEX, MTBE, naphthalene, 1,2-DCA and 8 oxygenates by EPA Method 8260D and EDB by Method 8011. The ground water samples collected from the water supply wells were submitted for analyses of BTEX, MTBE, naphthalene, and 1,2-DCA by Method 524.2, 8 oxygenates by Method 8260D, and EDB by 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-1A, MW-2A, and MW-4A. Concentrations of the oxygenate TAA that exceeded the action level were reported in ground water samples collected from MW-1, MW-2, MW-16R, MW-23, MW-2A and MW-4A. No detectable concentrations of requested method constituents were reported in the samples collected from water supply wells WSW-1 or WSW-3. A summary of the July 2023 ground water sampling data is shown below:

| Well No. | 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 | **6,100** | **8,540** | **1,090** | 6,560 | **150** | **369** | <15.0 | <0.00338 |
| MW-2 | **6,830** | **2,760** | **941** | 4,240 | <14.0 | **235** | <15.0 | <0.00338 |
| MW-3 | **11.3** | 4.24 | 3.41 | 3.84 J | <0.140 | 1.40 | <0.150 | <0.00338 |
| MW-7 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00338 |
| MW-8 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00338 |
| MW-9 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00340 |
| MW-11R | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00338 |
| MW-12R | 0.228 J | 0.52 | <0.170 | 0.654 J | <0.140 | <0.470 | <0.150 | <0.00337 |
| MW-13 | <0.180 | <0.220 | <0.170 | <0.210 | 0.63 | <0.470 | <0.150 | <0.00340 |
| MW-14 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00335 |
| MW-15 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00337 |
| MW-16R | **529** | **3,960** | 443 | 3,600 | <14.0 | <47.0 | <15.0 | <0.00337 |
| MW-18R | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00337 |
| MW-21 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00335 |
| MW-23 | <0.180 | <0.220 | <0.170 | <0.210 | 19.70 | <0.470 | <0.150 | <0.00335 |
| MW-25 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00335 |
| MW-26 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00340 |
| MW-27 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00332 |

| Well No. | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | Naphthalene | 1,2-DCA | EDB |
|---|---|---|---|---|---|---|---|---|
| MW-1A | **228** | 79.2 | 2.72 J | 22.1 | 6.59 | <4.70 | <1.50 | <0.00335 |
| MW-2A | **28,800** | **44,700** | **2,890** | **14,800** | **110** | **723** | <15.0 | **0.125** |
| MW-4A | **11,500** | **35,900** | **1,640** | **13,800** | <14.0 | **566** | <15.0 | 0.062 |
| TW-1 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00335 |
| TW-2 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00333 |
| WSW-1 | <0.00021 | <0.00020 | <0.00022 | <0.00022 | <0.00014 | <0.00035 | <0.00016 | <0.0205 |
| WSW-3 | <0.00021 | <0.00020 | <0.00022 | <0.00022 | <0.00014 | <0.00035 | <0.00016 | <0.0208 |

A Ground Water Quality Map based on data from the July 2023 sampling event is included as **Figure 4**. Summaries of ground water analytical results are presented in **Table 2** and **Table 3**. A complete laboratory analytical report is included as **Appendix A**. Field Data Information Sheets are included as **Appendix B**.

## 4. 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 (DUP-A), MW-2 (DUP-B), and from water supply well WSW-1 (DUP-C), and field blanks were collected during the sampling activities. Laboratory provided trip blanks were included in the sample cooler. Laboratory results for each sample and their respective duplicate sample showed the same compounds at similar concentrations. No detectable concentrations of requested method constituents were reported in the field blanks or trip blanks. All applicable items on the Contractor Checklist were reviewed and verified. A copy of the Contractor Checklist is included as **Appendix C**.

## 5. CONCLUSIONS AND RECOMMENDATIONS

- Twenty-two Type III monitoring wells, two telescoping monitoring wells, and two water supply wells were gauged, purged and/or sampled on July 5 and 6, 2023.
- The depths to ground water in the Type III monitoring wells at the site, measured on July 5, 2023, ranged from 13.15 feet to 18.31 feet below the top of casings. The depths to ground water in telescoping wells TW-1 and TW-2 were 17.08 feet and 15.35 feet, respectively. Ground water elevations in the Type III monitoring wells relative to a temporary benchmark of 100.00 ranged from 78.95 to 82.78 feet. Based on this data, the general direction of ground water flow in the Type III wells was toward the northwest. The ground water elevations in telescoping wells TW-1 and TW-2 were 81.92 feet and 79.94 feet, respectively. The shallow horizontal hydraulic gradient calculated across the site was approximately 0.004 feet/foot. The vertical hydraulic gradient between paired wells MW-1/TW-1 was 0.032 feet/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-1A, MW-2A, and MW-4A. Concentrations of the oxygenate TAA that exceeded the action level were reported in ground water samples collected from MW-1, MW-2, MW-16R, MW-23, MW-2A and MW-4A. No detectable concentrations of requested method constituents were reported in the samples collected from water supply wells WSW-1 or WSW-3.

- GRI makes the following recommendations:
- Additional AFVR events should be conducted to reduce concentrations of chemicals of concern.
- Due to the presence of nearby water supply wells, ground water sampling events should continue at the site as directed by SCDHEC.

## 6. 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**

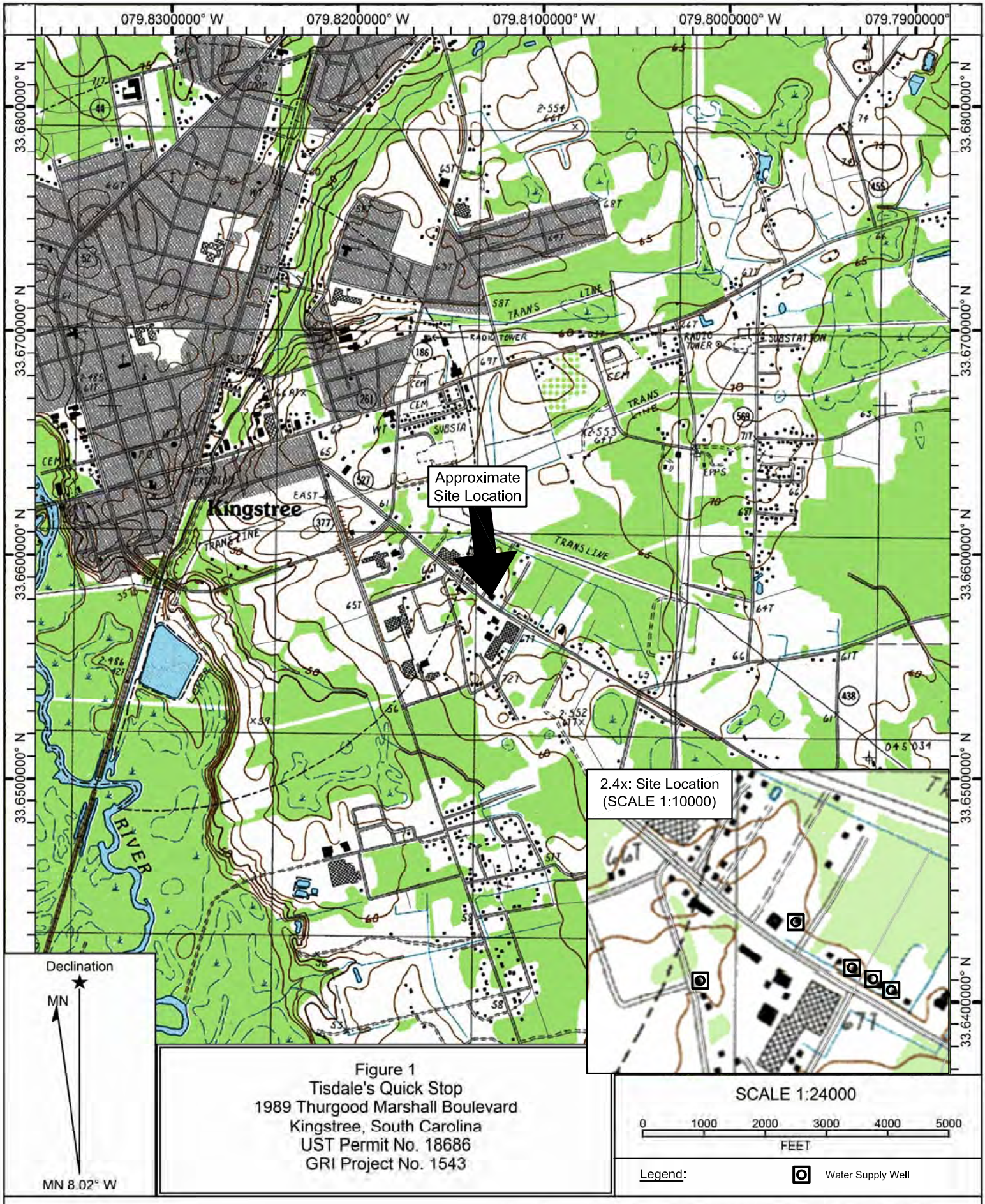



Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit No. 18686
GRI Project No. 1543

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
- RECOVERY WELL

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

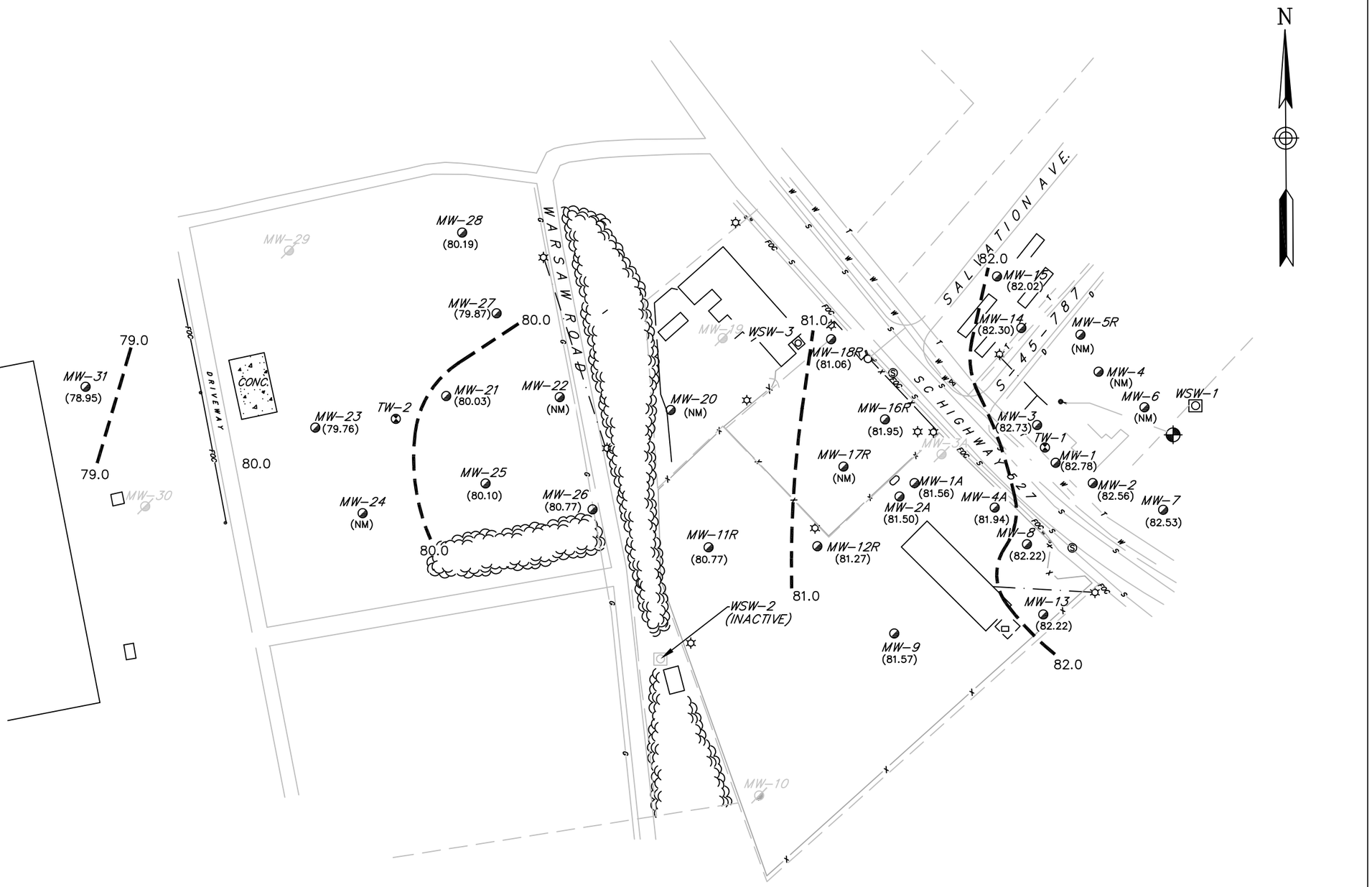
1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County,
SC

| Date: 08/12/2020 | Drawn by: DTH | Figure: 2 |
|---|---|---|

C:\Users\DARHOWARD\Desktop\New folder (2)\1543\1543 Base Map.dwg, Model, 8/12/2020 9:11:33 AM, DARHOWARD

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
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND WATER LINE
- PP & OVERHEAD POWER LINE
- UNDERGROUND SEWER LINE
- UNDERGROUND GAS LINE
- UNDERGROUND FIBER OPTIC LINE
- DITCH
- FENCE
- BENCHMARK
- 82.0 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 (07/05/2023)

Tisdale's Quick Stop
UST Permit No. 18686
GRI Project No. 1543

1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
Williamsburg County

| Date: | 08/08/2023 | Drawn by: | DTH | Figure: | 3 |
|---|---|---|---|---|---|

## 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

| | |
|---|---|
| **6,100** | BENZENE |
| **8,540** | TOLUENE |
| **1,090** | ETHYLBENZENE |
| 6,560 | XYLENES |
| **150** | MTBE |
| **369** | NAPHTHALENE |

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.

0 50 100 200

( IN FEET )
1 inch = 100 ft

GROUND WATER QUALITY MAP (07/05/2023) & (07/06/2023)

Tisdale's Quick Stop
UST Permit No. 18686
GRI Project No. 1543

1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
Williamsburg County

Date: 08/09/2023 | 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 | | |
| | 07/16/20 | | 12.63 | --- | 86.17 | | |
| | 04/13/21 | | 10.80 | --- | 88.00 | | |
| | 06/07/22 | | 15.89 | --- | 82.91 | | |
| | 07/05/23 | | 16.02 | --- | 82.78 | | |
| 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 | | |
| | 07/16/20 | | 12.88 | --- | 85.93 | | |
| | 04/13/21 | | 11.01 | --- | 87.80 | | |
| | 06/07/22 | | 16.14 | --- | 82.67 | | |
| | 07/05/23 | | 16.25 | --- | 82.56 | | |
| 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 | | |
| | 07/16/20 | | 12.77 | --- | 85.98 | | |
| | 04/13/21 | | 10.93 | --- | 87.82 | | |
| | 06/07/22 | | 15.98 | --- | 82.77 | | |
| | 07/05/23 | | 16.02 | --- | 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-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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 07/05/23 | | NM | NM | NM | | |
| 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 |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 10.65 | --- | 87.58 | | |
| | 06/07/22 | | 15.96 | --- | 82.27 | | |
| | 07/05/23 | | NM | NM | NM | | |
| 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 | | |
| | 07/16/20 | | NM | --- | NM | | |
| | 04/13/21 | | NM | NM | NM | | |
| | 06/07/22 | | NM | NM | NM | | |
| | 07/05/23 | | 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-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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | NM | NM | NM | | |
| | 06/07/22 | | 15.62 | --- | 82.58 | | |
| | 07/05/23 | | 15.67 | --- | 82.53 | | |
| 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 | | |
| | 07/16/20 | | 12.46 | --- | 85.68 | | |
| | 04/13/21 | | 10.75 | --- | 87.39 | | |
| | 06/07/22 | | 15.85 | --- | 82.29 | | |
| | 07/05/23 | | 15.92 | --- | 82.22 | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 11.77 | --- | 86.73 | | |
| | 06/07/22 | | 16.88 | --- | 81.62 | | |
| | 07/05/23 | | 16.93 | --- | 81.57 | | |

**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-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 | | |
| | 07/05/23 | | NM | NM | NM | | |
| 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 | NM | | |
| MW-11R | 04/18/18 | 95.13 | 11.94 | --- | 83.19 | 20 | 5-20 |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 9.51 | --- | 85.62 | | |
| | 06/07/22 | | 14.31 | --- | 80.82 | | |
| | 07/05/23 | | 14.36 | --- | 80.77 | | |
| 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 | NM | | |
| MW-12R | 04/18/18 | 96.04 | 12.33 | --- | 83.71 | 20 | 5-20 |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 9.76 | --- | 86.28 | | |
| | 06/07/22 | | 14.73 | --- | 81.31 | | |
| | 07/05/23 | | 14.77 | --- | 81.27 | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 11.51 | --- | 87.46 | | |
| | 06/07/22 | | 16.66 | --- | 82.31 | | |
| | 07/05/23 | | 16.75 | --- | 82.22 | | |

**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 | | |
| | 07/16/20 | | 12.76 | --- | 85.61 | | |
| | 04/13/21 | | 10.97 | --- | 87.40 | | |
| | 06/07/22 | | 15.73 | --- | 82.64 | | |
| | 07/05/23 | | 16.07 | --- | 82.30 | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 12.53 | --- | 87.00 | | |
| | 06/07/22 | | 17.36 | --- | 82.17 | | |
| | 07/05/23 | | 17.51 | --- | 82.02 | | |
| 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 | NM | | |
| MW-16R | 04/18/18 | 97.98 | 13.83 | --- | 84.15 | 25 | 10-25 |
| | 07/16/20 | | 12.75 | --- | 85.23 | | |
| | 04/13/21 | | 11.16 | --- | 86.82 | | |
| | 06/07/22 | | 16.03 | --- | 81.95 | | |
| | 07/05/23 | | 16.20 | --- | 81.78 | | |
| 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 | 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-17R | 04/18/18 | 96.90 | 13.10 | --- | 83.80 | 25 | 10-25 |
| | 07/16/20 | | 12.22 | --- | 84.68 | | |
| | 04/13/21 | | 10.61 | --- | 86.29 | | |
| | 06/07/22 | | NM | NM | NM | | |
| | 07/05/23 | | NM | 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 | NM | | |
| MW-18R | 04/18/18 | 99.36 | 15.86 | --- | 83.50 | 25 | 10-25 |
| | 07/16/20 | | NM | --- | NM | | |
| | 04/13/21 | | 13.37 | --- | 85.99 | | |
| | 06/07/22 | | 18.22 | --- | 81.14 | | |
| | 07/05/23 | | 18.30 | --- | 81.06 | | |
| 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 | | |
| | 04/13/21 | | NM | NM | NM | | |
| | 06/07/22 | | NM | NM | NM | | |
| | 07/05/23 | | 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | NM | NM | NM | | |
| | 06/07/22 | | NM | NM | NM | | |
| | 07/05/23 | | 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-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 | 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 11.06 | --- | 84.62 | | |
| | 06/07/22 | | 15.79 | --- | 79.89 | | |
| | 07/05/23 | | 15.65 | --- | 80.03 | | |
| 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 | | |
| | 07/16/20 | | 13.17 | --- | 83.45 | | |
| | 04/13/21 | | NM | NM | NM | | |
| | 06/07/22 | | NM | NM | NM | | |
| | 07/05/23 | | NM | NM | NM | | |
| 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 | | |
| | 07/16/20 | | 12.99 | --- | 82.79 | | |
| | 04/13/21 | | 11.46 | --- | 84.32 | | |
| | 06/07/22 | | 15.56 | --- | 80.22 | | |
| | 07/05/23 | | 16.02 | --- | 79.76 | | |

**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-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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 9.31 | --- | 84.54 | | |
| | 06/07/22 | | NM | NM | NM | | |
| | 07/05/23 | | NM | NM | NM | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 9.42 | --- | 84.86 | | |
| | 06/07/22 | | 14.12 | --- | 80.16 | | |
| | 07/05/23 | | 14.18 | --- | 80.10 | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 8.91 | --- | 85.01 | | |
| | 06/07/22 | | 13.38 | --- | 80.54 | | |
| | 07/05/23 | | 13.15 | --- | 80.77 | | |

**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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 13.27 | --- | 84.91 | | |
| | 06/07/22 | | 18.89 | --- | 79.29 | | |
| | 07/05/23 | | 18.31 | --- | 79.87 | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 13.63 | --- | 84.80 | | |
| | 06/07/22 | | 18.24 | --- | 80.19 | | |
| | 07/05/23 | | NM | NM | NM | | |
| 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 | | |
| | 07/05/23 | | 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-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 | | |
| | 07/05/23 | | NM | NM | NM | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 12.53 | --- | 83.42 | | |
| | 06/07/22 | | 16.93 | --- | 79.02 | | |
| | 07/05/23 | | 17.00 | --- | 78.95 | | |
| 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 | | |
| | 07/16/20 | | 12.22 | --- | 84.95 | | |
| | 04/13/21 | | 10.64 | --- | 86.53 | | |
| | 06/07/22 | | 15.51 | --- | 81.66 | | |
| | 07/05/23 | | 15.61 | --- | 81.56 | | |

**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 | | |
| | 07/16/20 | | 12.36 | --- | 84.92 | | |
| | 04/13/21 | | 10.93 | --- | 86.35 | | |
| | 06/07/22 | | 15.65 | --- | 81.63 | | |
| | 07/05/23 | | 15.78 | --- | 81.50 | | |
| 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 | | |
| | 07/05/23 | | NM | NM | NM | | |
| 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 | | |
| | 07/16/20 | | 12.69 | --- | 85.38 | | |
| | 04/13/21 | | 11.01 | --- | 87.06 | | |
| | 06/07/22 | | 16.06 | --- | 82.01 | | |
| | 07/05/23 | | 16.13 | --- | 81.94 | | |

**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-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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 12.02 | --- | 86.98 | | |
| | 06/07/22 | | 17.04 | --- | 81.96 | | |
| | 07/05/23 | | 17.08 | --- | 81.92 | | |
| 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 | | |
| | 07/16/20 | | 12.22 | --- | 83.07 | | |
| | 04/13/21 | | 10.71 | --- | 84.58 | | |
| | 06/07/22 | | 15.32 | --- | 79.97 | | |
| | 07/05/23 | | 15.35 | --- | 79.94 | | |

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; gauging not request by SCDHEC.
- 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 |
| | 07/16/20 | **101** | 437 | 98.7 | 654 | <1.1 | **45.7** | <1.6 | <0.0096 |
| | 04/13/21 | **1,230** | **2,040** | 53.4 | 2,640 | **53.1** | **117 J** | <16 | <0.0050 |
| | 06/07/22 | **2,140** | **4,220** | 322 | 2,500 | <11 | **104 J** | <16 | <0.0093 |
| | 07/05/23 | **6,100** | **8,540** | **1,090** | 6,560 | **150** | **369** | <15.0 | <0.00338 |
| 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 |
| | 07/16/20 | **214** | 820 | 179 | 1,210 | <2.3 | **86.1** | <3.1 | <0.0095 |
| | 04/13/21 | **1,240** | **2,000** | 53.4 | 2,590 | **56.2** | **120 J** | <16 | <0.0050 |
| | 06/07/22 | **1,560** | **2,840** | 278 | 2,060 | 32.5 J | **97.5 J** | <16 | <0.0095 |
| | 07/05/23 | **6,130** | **8,980** | **1,090** | 6,700 | **142** | **445** | <15.0 | <0.00340 |
| 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** |
| | 07/16/20 | **1,100** | 390 | 197 | 937 | <4.6 | **68.8 J** | <6.2 | <0.0093 |
| | 04/13/21 | **1,990** | 434 | 329 | 1,380 | 8.5 J | **139** | <7.8 | <0.0050 |
| | 06/07/22 | **8,050** | 870 | **721** | 3,260 | <5.7 | **245** | <7.8 | <0.0093 |
| | 07/05/23 | **6,830** | **2,760** | **941** | 4,240 | <14.0 | **235** | <15.0 | <0.00338 |
| MW-2 DUP | 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** |
| | 07/05/23 | **7,070** | **2,820** | **932** | 4,150 | <14.0 | **435** | <15.0 | <0.00338 |
| 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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0095 |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/07/22 | **17.2** | 3.6 | 4.0 | 2.3 J | <0.23 | 1.9 J | <0.31 | <0.0093 |
| | 07/05/23 | **11.3** | 4.24 | 3.41 | 3.84 J | <0.140 | 1.40 | <0.150 | <0.00338 |
| MW-3 DUP | 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 |

**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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 07/05/23 | 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 | - | <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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/07/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | 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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0095 |
| | 07/05/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00338 |
| 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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/07/22 | 1.0 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0096 |
| | 07/05/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00338 |
| 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 |
| | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 07/05/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00340 |

**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-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 |
| | 07/05/23 | 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 |
| MW-11R | 04/18/18 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0093 |
| | 07/05/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00338 |
| 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 |
| MW-12R | 04/18/18 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0093 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0095 |
| | 07/05/23 | 0.228 J | 0.52 | <0.170 | 0.654 J | <0.140 | <0.470 | <0.150 | <0.00337 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | 2.4 | <1.0 | <0.31 | <0.0049 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 07/05/23 | <0.180 | <0.220 | <0.170 | <0.210 | 0.63 | <0.470 | <0.150 | <0.00340 |

**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-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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | 0.013 J |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 07/05/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00335 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 07/05/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00337 |
| 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 |
| MW-16R | 04/18/18 | **16,300** | **59,700** | **6,460** | **34,900** | **56.7 J** | **1,320** | <62 | **0.21** |
| | 07/16/20 | **209** | **4,420** | 652 | 5,340 | <11 | **54.9 J** | <16 | <0.0094 |
| | 04/13/21 | **162** | **1,190** | 488 | 3,370 | <4.6 | **85.1 J** | <6.2 | <0.0050 |
| | 06/07/22 | **532** | **3,140** | 322 | 2,480 | <4.6 | **94.4 J** | <6.2 | <0.0092 |
| | 07/05/23 | **529** | **3,960** | 443 | 3,600 | <14.0 | <47.0 | <15.0 | <0.00337 |
| 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 |
| | 07/16/20 | **26.2** | 325 | 87.1 | 387 | 4.3 J | 13.6 J | <1.6 | <0.0094 |
| | 04/13/21 | 3.2 | 3.7 | 5.6 | 75.6 | 2.1 | 2.2 J | <0.31 | <0.0051 |
| | 06/07/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | 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 |

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**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-18R | 04/18/18 | 1.9 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0093 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 07/05/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00337 |
| 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 |
| | 04/18/18 | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-19 DUP | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/06/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/06/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0092 |
| | 07/06/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00335 |

**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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | 0.58 J | <1.0 | <0.31 | 0.028 |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/06/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | 4.6 | <1.0 | <0.31 | <0.0095 |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/06/22 | <0.31 | <0.30 | <0.36 | <0.72 | 5.6 | <1.0 | <0.31 | <0.0093 |
| | 07/06/23 | <0.180 | <0.220 | <0.170 | <0.210 | 19.70 | <0.470 | <0.150 | <0.00335 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0051 |
| | 06/06/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | 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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/06/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 07/06/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00335 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/06/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0093 |
| | 07/06/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00340 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/06/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0093 |
| | 07/06/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00332 |

**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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/06/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0095 |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/05/23 | 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 |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0097 |
| | 07/05/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00337 |

**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-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 |
| | 07/16/20 | **869** | **2,180** | 50.5 | 1,840 | <5.7 | <25 | <7.8 | <0.0093 |
| | 04/13/21 | **132** | 116 | 3.5 | 344 | <0.46 | 6.4 J | <0.62 | <0.0050 |
| | 06/07/22 | **81.0** | 51.0 | 2.6 | 94.6 | <0.46 | 2.9 J | <0.62 | <0.0096 |
| | 07/05/23 | **228** | 79.2 | 2.72 J | 22.1 | 6.59 | <4.70 | <1.50 | <0.00335 |
| 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** |
| | 07/16/20 | **3,970** | **9,330** | 571 | 5,290 | <11 | **272** | <16 | <0.0094 |
| | 04/13/21 | **3,300** | **8,950** | 526 | 8,970 | <46 | **253 J** | <62 | 0.0094 J |
| | 06/07/22 | **19,900** | **22,500** | **2,310** | **12,200** | **173 J** | **618 J** | <62 | **0.16** |
| | 07/05/23 | **28,800** | **44,700** | **2,890** | **14,800** | **110** | **723** | <15.0 | **0.125** |
| MW-2A DUP | 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** |
| | 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 |
| | 07/05/23 | 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** |
| | 07/16/20 | **3,560** | **10,800** | 289 | 4,560 | <46 | <200 | <62 | <0.0095 |
| | 04/13/21 | **5,590** | **17,300** | 584 | **10,100** | <57 | <250 | <78 | 0.0086 J |
| | 06/07/22 | **1,140** | **5,320** | 379 | 7,040 | <23 | **197 J** | <31 | <0.0097 |
| | 07/05/23 | **11,500** | **35,900** | **1,640** | **13,800** | <14.0 | **566** | <15.0 | 0.062 |
| MW-4A DUP | 06/24/15 | **8,140** | **37,100** | **2,460** | **19,900** | 7.4 | **867 J** | 1.6 | **0.0624** |
| | 04/13/21 | **5,250** | **15,900** | 544 | 9,680 | <46 | <200 | <62 | 0.013 J |
| | 06/07/22 | **974** | **6,100** | 302 | 6,900 | <4.6 | **203** | <6.2 | <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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0096 |
| | 07/06/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00335 |
| 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 |
| | 07/16/20 | 1.5 | <0.30 | <0.36 | <0.72 | 0.67 J | <1.0 | <0.31 | <0.0092 |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | 1.6 | <1.0 | <0.31 | <0.0050 |
| | 06/07/22 | 1.0 | <0.30 | <0.36 | <0.72 | 1.9 | <1.0 | <0.31 | <0.0096 |
| | 07/06/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00333 |
| 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 |
| | 07/16/20 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0042 |
| | 04/13/21 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0038 |
| | 06/07/22 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.0039 |
| | 07/06/23 | <0.00021 | <0.00020 | <0.00022 | <0.00022 | <0.00014 | <0.00035 | <0.00016 | <0.0205 |
| WSW-1 DUP | 04/19/18 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.0040 |
| | 07/16/20 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0040 |
| | 06/07/22 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.0039 |
| | 07/06/23 | <0.00021 | <0.00020 | <0.00022 | <0.00022 | <0.00014 | <0.00035 | <0.00016 | <0.0205 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |

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**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** |
| 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 |
| | 07/16/20 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.042 |
| | 04/13/21 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0039 |
| | 06/07/22 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.0039 |
| | 07/06/23 | <0.00021 | <0.00020 | <0.00022 | <0.00022 | <0.00014 | <0.00035 | <0.00016 | <0.0208 |
| WSW-3 DUP | 03/08/17 | <0.080 | <0.070 | <0.060 | <0.32 | <0.10 | <0.050 | <0.12 | <0.0086 |
| | 04/13/21 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0039 |
| 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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0096 |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/06/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0093 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 07/05/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00335 |
| | 07/06/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00337 |
| 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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | NR |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | NR |
| | 06/06/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | NR |
| | 07/05/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | NR |
| WSW FIELD BLANK | 03/08/17 | <0.080 | <0.070 | <0.060 | <0.32 | <0.10 | <0.050 | 1 | <0.0087 |
| | 04/19/18 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.0040 |
| | 07/16/20 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0040 |
| | 04/13/21 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0039 |
| | 06/07/22 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.0039 |
| | 07/06/23 | <0.00021 | <0.00020 | <0.00022 | <0.00022 | <0.00014 | <0.00035 | <0.00016 | <0.0205 |
| 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 |
| | 07/16/20 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | NR |
| | 04/13/21 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | NR |
| | 06/07/22 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | NR |
| | 07/06/23 | <0.00021 | <0.00020 | <0.00022 | <0.00022 | <0.00014 | <0.00035 | <0.00016 | 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; sampling not requested by SCDHEC.
- 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 | <2,300 | <20 | **12,200** | <22 | <880 | <400 |
| | 06/24/15 | <20 | <1,000 | <3,500 | <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 |
| | 07/16/20 | <1.2 | <50 | <410 | <1.2 | **265** | <1.2 | <27 | <25 |
| | 04/13/21 | <12 | <500 | <4,100 | <12 | **4,710** | <12 | <270 | <250 |
| | 06/07/22 | <12 | <500 | <4,100 | <12 | **4,220** | <12 | <270 | <250 |
| | 07/05/23 | <96.0 | <100 | <4200 | <180 | **9,800 J** | <28.0 | <160 | <35.0 |
| 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 |
| | 07/16/20 | <2.4 | <100 | <820 | <2.4 | **427** | <2.4 | <53 | <50 |
| | 04/13/21 | <12 | <500 | <4,100 | <12 | **5,330** | <12 | <270 | <250 |
| | 06/07/22 | <12 | <500 | <4,100 | <12 | **3,650** | <12 | <270 | <250 |
| | 07/05/23 | <96.0 | <100 | <4200 | <180 | **9,450** | <28.0 | 183 J | <35.0 |
| 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 |
| | 07/16/20 | <4.8 | <200 | <1,600 | <4.7 | **703** | <4.9 | <110 | <100 |
| | 04/13/21 | <6.0 | <250 | <2,000 | <5.9 | **5,880** | <6.1 | <130 | <130 |
| | 06/07/22 | <6.0 | <250 | <2,000 | <5.9 | **11,300** | <6.1 | 213 J | <130 |
| | 07/05/23 | <96.0 | <100 | <4200 | <180 | **4,260** | <28.0 | <160 | <35.0 |
| MW-2 DUP | 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 |
| | 07/05/23 | <96.0 | <100 | <4200 | <180 | **3,440** | <28.0 | <160 | <35.0 |
| 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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | 9.1 J | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | <0.960 | <1.00 | <42.0 | <1.80 | 2.77 J | <0.280 | <1.60 | <0.350 |
| MW-3 DUP | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | 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 |
| | 04/18/18 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |

**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 |
| | 07/05/23 | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | <0.960 | <1.00 | <42.0 | <1.80 | 3.41 J | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | 0.76 J | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/16/20 | <12 | <500 | <4,100 | <12 | <260 | <12 | <270 | <250 |
| | 04/13/21 | <4.8 | <200 | <1,600 | <4.7 | **376 J** | <4.9 | <110 | <100 |
| | 06/07/22 | <4.8 | <200 | <1,600 | <4.7 | **794** | <4.9 | <110 | <100 |
| | 07/05/23 | <96.0 | <100 | <4200 | <180 | **771 J** | <28.0 | <160 | <35.0 |

**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-17R | 04/18/18 | <4.8 | <200 | <1,600 | 11.6 J | **4,690** | 11.0 J | <110 | <100 |
| | 07/16/20 | <1.2 | <50 | <410 | <1.2 | <26 | <1.2 | <27 | <25 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | 13.2 J | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | 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-18R | 04/18/18 | <0.24 | <10 | <82 | <0.24 | 41.3 | <0.24 | <5.3 | <5.0 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-19 DUP | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/07/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/06/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | 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-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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | 103 | 0.29 J | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <0.24 | <10 | <82 | <0.24 | 120 | 0.45 J | 5.9 J | <5.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | **366** | 2.32 J | 18.8 | <0.350 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |

**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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/05/23 | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |

**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-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 |
| | 07/16/20 | <6.0 | <250 | <2,000 | <5.9 | **979** | <6.1 | <130 | <130 |
| | 04/13/21 | <0.48 | <20 | <160 | <0.47 | **1,100** | <0.49 | <11 | <10 |
| | 06/07/22 | <0.48 | <20 | <160 | <0.47 | 153 | <0.49 | <11 | <10 |
| | 07/06/23 | <9.60 | <10.0 | <420 | <18.0 | 379.00 | <2.80 | <16.0 | <3.50 |
| 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 |
| | 07/16/20 | <12 | <500 | <4,100 | <12 | **5,160** | 14.2 J | <270 | <250 |
| | 04/13/21 | <48 | <2,000 | <16,000 | <47 | **4,010** | <49 | <1,100 | <1,000 |
| | 06/07/22 | <48 | <2,000 | <16,000 | <47 | **36,400** | <49 | <1,100 | <1,000 |
| | 07/05/23 | <96.0 | <100 | <4200 | <180 | **24,300** | 58.6 J | 168 J | <35.0 |
| MW-2A DUP | 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 |
| | 07/06/23 | 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 |
| 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 |
| | 07/16/20 | <48 | <2,000 | <16,000 | <47 | **2,120 J** | <49 | <1,100 | <1,000 |
| | 04/13/21 | <60 | <2,500 | <20,000 | <59 | **2,510 J** | <61 | <1,300 | <1,300 |
| | 06/07/22 | <24 | <1,000 | <8,200 | <24 | **1,190 J** | <24 | <530 | <500 |
| | 07/06/23 | <96.0 | <100 | <4200 | <180 | **3,650** | <28.0 | <160 | <35.0 |
| MW-4A DUP | 06/24/15 | <0.20 | <10 | <35 | 6.1 | **4,840** | 22.6 | <5.4 | <4.0 |
| | 04/13/21 | <48 | <2,000 | <16,000 | <47 | **2,670 J** | <49 | <1,100 | <1,000 |
| | 06/07/22 | <4.8 | <200 | <1,600 | <4.7 | **1,100** | <4.9 | <110 | <100 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |

**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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | 29.0 | <0.25 | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | 52.1 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | 86.2 | <0.24 | <5.3 | <5.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/16/20 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 04/13/21 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 06/07/22 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <8.0 | <2.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| WSW-1 DUP | 04/19/18 | <0.40 | <8.0 | <40 | <0.40 | <8.0 | <0.42 | <8.0 | <2.0 |
| | 07/16/20 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| WSW-1 DUP C | 06/07/22 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <8.0 | <2.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/16/20 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 04/13/21 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 06/07/22 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <8.0 | <2.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| WSW-3 DUP | 03/08/17 | <0.40 | <8.0 | <40 | <0.40 | <8.0 | <0.40 | <8.0 | <2.0 |
| | 04/13/21 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| 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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |

**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** |
| 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 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 04/13/21 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | 0.96 J | <2.0 |
| | 06/07/22 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <8.0 | <2.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 04/13/21 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | 1.8 J | <2.0 |
| | 06/07/22 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <8.0 | <2.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |

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; sampling not requested by SCDHEC.
- FP: Free Product.
- Concentrations in bold face type exceeded the Action Level.

**APPENDICES**

**APPENDIX A**

Laboratory Analytical Report – Ground Water Samples

449 Springbrook Rd, Charlotte, NC 28217
Main 704.529.6364
www.waypointanalytical.com

7/20/2023

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

Ref: Analytical Testing
Lab Report Number: 23-188-0021
Client Project Description: Tisdales Quick Stop
GRI #1543

Dear Scott Ball:

Waypoint Analytical, LLC (Charlotte) received sample(s) on 7/7/2023 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) unless otherwise indicated.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Danyale Love
Project Manager

***Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.***

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# Certification Summary

**Laboratory ID: WP CNC: Waypoint Analytical Carolina, Inc. (C), Charlotte, NC**

| State | Program | Lab ID | Expiration Date |
|---|---|---|---|
| North Carolina | State Program | 37735 | 07/31/2023 |
| North Carolina | State Program | 402 | 12/31/2023 |
| South Carolina | State Program | 99012 | 07/31/2023 |
| South Carolina | State Program | 99012 | 12/31/2022 |

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## Sample Summary Table

**Report Number:** **23-188-0021**

**Client Project Description:** **Tisdales Quick Stop GRI #1543**

| Lab No | Client Sample ID | Matrix | Date Collected | Date Received | Method | Lab ID |
|---|---|---|---|---|---|---|
| 89061 | 18686 MW-1 | Aqueous | 07/05/2023 14:42 | 07/07/2023 14:05 | | |
| 89062 | 18686 MW-2 | Aqueous | 07/05/2023 14:24 | 07/07/2023 14:05 | | |
| 89063 | 18686 MW-3 | Aqueous | 07/05/2023 14:32 | 07/07/2023 14:05 | | |
| 89064 | 18686 MW-7 | Aqueous | 07/05/2023 14:15 | 07/07/2023 14:05 | | |
| 89065 | 18686 MW-8 | Aqueous | 07/05/2023 11:51 | 07/07/2023 14:05 | | |
| 89066 | 18686 MW-9 | Aqueous | 07/05/2023 11:15 | 07/07/2023 14:05 | | |
| 89067 | 18686 MW-11R | Aqueous | 07/05/2023 11:21 | 07/07/2023 14:05 | | |
| 89068 | 18686 MW-12R | Aqueous | 07/05/2023 11:36 | 07/07/2023 14:05 | | |
| 89069 | 18686 MW-13 | Aqueous | 07/05/2023 11:43 | 07/07/2023 14:05 | | |
| 89070 | 18686 MW-14 | Aqueous | 07/05/2023 14:53 | 07/07/2023 14:05 | | |
| 89071 | 18686 MW-15 | Aqueous | 07/05/2023 15:03 | 07/07/2023 14:05 | | |
| 89072 | 18686 MW-16R | Aqueous | 07/05/2023 15:13 | 07/07/2023 14:05 | | |
| 89073 | 18686 MW-18R | Aqueous | 07/05/2023 15:21 | 07/07/2023 14:05 | | |
| 89074 | 18686 MW-21 | Aqueous | 07/06/2023 10:10 | 07/07/2023 14:05 | | |
| 89075 | 18686 MW-23 | Aqueous | 07/06/2023 10:21 | 07/07/2023 14:05 | | |
| 89076 | 18686 MW-25 | Aqueous | 07/06/2023 09:53 | 07/07/2023 14:05 | | |
| 89077 | 18686 MW-26 | Aqueous | 07/06/2023 09:32 | 07/07/2023 14:05 | | |
| 89078 | 18686 MW-27 | Aqueous | 07/06/2023 09:42 | 07/07/2023 14:05 | | |
| 89079 | 18686 MW-31 | Aqueous | 07/06/2023 09:20 | 07/07/2023 14:05 | | |
| 89080 | 18686 MW-1A | Aqueous | 07/05/2023 12:16 | 07/07/2023 14:05 | | |
| 89081 | 18686 MW-2A | Aqueous | 07/05/2023 12:05 | 07/07/2023 14:05 | | |
| 89082 | 18686 MW-4A | Aqueous | 07/05/2023 12:26 | 07/07/2023 14:05 | | |
| 89083 | 18686 TW-1 | Aqueous | 07/06/2023 08:45 | 07/07/2023 14:05 | | |
| 89084 | 18686 TW-2 | Aqueous | 07/06/2023 10:49 | 07/07/2023 14:05 | | |
| 89085 | 18686 DUP-A | Aqueous | 07/05/2023 14:43 | 07/07/2023 14:05 | | |
| 89086 | 18686 DUP-B | Aqueous | 07/05/2023 14:25 | 07/07/2023 14:05 | | |

: Pace Analytical - Huntersville, NC, Huntersville, NC

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## Sample Summary Table

**Report Number:** **23-188-0021**

**Client Project Description:** **Tisdales Quick Stop**
**GRI #1543**

| Lab No | Client Sample ID | Matrix | Date Collected | Date Received | Method | Lab ID |
|---|---|---|---|---|---|---|
| 89087 | 18686 MW-FB-1 | Aqueous | 07/05/2023 08:00 | 07/07/2023 14:05 | | |
| 89088 | 18686 MW-FB-2 | Aqueous | 07/06/2023 08:05 | 07/07/2023 14:05 | | |
| 89089 | 18686 MW-TB | Aqueous | 07/05/2023 07:45 | 07/07/2023 14:05 | | |
| 89090 | 18686 WSW-1 | Aqueous | 07/06/2023 11:30 | 07/07/2023 14:05 | 524.2 | |
| 89090 | 18686 WSW-1 | Aqueous | 07/06/2023 11:30 | 07/07/2023 14:05 | | |
| 89091 | 18686 WSW-3 | Aqueous | 07/06/2023 11:50 | 07/07/2023 14:05 | 524.2 | |
| 89091 | 18686 WSW-3 | Aqueous | 07/06/2023 11:50 | 07/07/2023 14:05 | | |
| 89092 | 18686 DUP-C | Aqueous | 07/06/2023 11:31 | 07/07/2023 14:05 | 524.2 | |
| 89092 | 18686 DUP-C | Aqueous | 07/06/2023 11:31 | 07/07/2023 14:05 | | |
| 89093 | 18686 WSW-FB | Aqueous | 07/06/2023 09:00 | 07/07/2023 14:05 | 524.2 | |
| 89093 | 18686 WSW-FB | Aqueous | 07/06/2023 09:00 | 07/07/2023 14:05 | | |
| 89094 | 18686 WSW-TB | Aqueous | 07/06/2023 08:00 | 07/07/2023 14:05 | 524.2 | |
| 89094 | 18686 WSW-TB | Aqueous | 07/06/2023 08:00 | 07/07/2023 14:05 | | |

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## Summary of Detected Analytes

**Project:** Tisdales Quick Stop

**Report Number:** 23-188-0021

| Client Sample ID / Method | Lab Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **18686 MW-1** | **V 89061** | | | | | |
| 8260D | Benzene | 6100 | µg/L | 18.0 | 07/14/2023 07:10 | |
| 8260D | Ethylbenzene | 1090 | µg/L | 17.0 | 07/14/2023 07:10 | |
| 8260D | Methyl tert-butyl ether (MTBE) | 150 | µg/L | 14.0 | 07/14/2023 07:10 | |
| 8260D | Naphthalene | 369 | µg/L | 47.0 | 07/14/2023 07:10 | |
| 8260D | tert-Amyl Alcohol (TAA) | 9800 | µg/L | 1900 | 07/14/2023 07:34 | J |
| 8260D | Toluene | 8540 | µg/L | 22.0 | 07/14/2023 07:10 | |
| 8260D | o-Xylene | 1960 | µg/L | 21.0 | 07/14/2023 07:10 | |
| 8260D | m,p-Xylene | 4600 | µg/L | 42.0 | 07/14/2023 07:10 | |
| 8260D | Xylene (Total) | 6560 | µg/L | 21.0 | 07/14/2023 07:10 | |
| **18686 MW-2** | **V 89062** | | | | | |
| 8260D | Benzene | 6830 | µg/L | 18.0 | 07/14/2023 06:45 | |
| 8260D | Ethylbenzene | 941 | µg/L | 17.0 | 07/14/2023 06:45 | |
| 8260D | Naphthalene | 235 | µg/L | 47.0 | 07/14/2023 06:45 | |
| 8260D | tert-Amyl Alcohol (TAA) | 4260 | µg/L | 190 | 07/14/2023 06:45 | |
| 8260D | Toluene | 2760 | µg/L | 22.0 | 07/14/2023 06:45 | |
| 8260D | o-Xylene | 526 | µg/L | 21.0 | 07/14/2023 06:45 | |
| 8260D | m,p-Xylene | 3710 | µg/L | 42.0 | 07/14/2023 06:45 | |
| 8260D | Xylene (Total) | 4240 | µg/L | 21.0 | 07/14/2023 06:45 | |
| **18686 MW-3** | **V 89063** | | | | | |
| 8260D | Benzene | 11.3 | µg/L | 0.180 | 07/14/2023 17:15 | |
| 8260D | Ethylbenzene | 3.41 | µg/L | 0.170 | 07/14/2023 17:15 | |
| 8260D | Naphthalene | 1.40 | µg/L | 0.470 | 07/14/2023 17:15 | |
| 8260D | tert-Amyl Alcohol (TAA) | 2.77 | µg/L | 1.90 | 07/14/2023 17:15 | J |
| 8260D | Toluene | 4.24 | µg/L | 0.220 | 07/14/2023 17:15 | |
| 8260D | o-Xylene | 3.12 | µg/L | 0.210 | 07/14/2023 17:15 | |
| 8260D | m,p-Xylene | 0.722 | µg/L | 0.420 | 07/14/2023 17:15 | J |
| 8260D | Xylene (Total) | 3.84 | µg/L | 0.210 | 07/14/2023 17:15 | J |
| **18686 MW-12R** | **V 89068** | | | | | |
| 8260D | Benzene | 0.228 | µg/L | 0.180 | 07/14/2023 02:37 | J |
| 8260D | tert-Amyl Alcohol (TAA) | 3.41 | µg/L | 1.90 | 07/14/2023 02:37 | J |
| 8260D | Toluene | 0.520 | µg/L | 0.220 | 07/14/2023 02:37 | |
| 8260D | o-Xylene | 0.230 | µg/L | 0.210 | 07/14/2023 02:37 | J |
| 8260D | m,p-Xylene | 0.424 | µg/L | 0.420 | 07/14/2023 02:37 | J |
| 8260D | Xylene (Total) | 0.654 | µg/L | 0.210 | 07/14/2023 02:37 | J |

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## Summary of Detected Analytes

**Project:** Tisdales Quick Stop

**Report Number:** 23-188-0021

| Client Sample ID / Method | Lab Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **18686 MW-13** | **V 89069** | | | | | |
| 8260D | Methyl tert-butyl ether (MTBE) | 0.625 | µg/L | 0.140 | 07/14/2023 03:01 | |
| **18686 MW-16R** | **V 89072** | | | | | |
| 8260D | Benzene | 529 | µg/L | 18.0 | 07/14/2023 03:28 | |
| 8260D | Ethylbenzene | 443 | µg/L | 17.0 | 07/14/2023 03:28 | |
| 8260D | tert-Amyl Alcohol (TAA) | 771 | µg/L | 190 | 07/14/2023 03:28 | J |
| 8260D | Toluene | 3960 | µg/L | 22.0 | 07/14/2023 03:28 | |
| 8260D | o-Xylene | 1620 | µg/L | 21.0 | 07/14/2023 03:28 | |
| 8260D | m,p-Xylene | 1980 | µg/L | 42.0 | 07/14/2023 03:28 | |
| 8260D | Xylene (Total) | 3600 | µg/L | 21.0 | 07/14/2023 03:28 | |
| **18686 MW-23** | **V 89075** | | | | | |
| 8260D | Methyl tert-butyl ether (MTBE) | 19.7 | µg/L | 0.140 | 07/14/2023 05:06 | |
| 8260D | tert-Butyl Alcohol (TBA) | 18.8 | µg/L | 1.60 | 07/14/2023 05:06 | |
| 8260D | tert-Amyl Alcohol (TAA) | 366 | µg/L | 19.0 | 07/14/2023 05:30 | |
| 8260D | tert-Amyl Methyl Ether (TAME) | 2.32 | µg/L | 0.280 | 07/14/2023 05:06 | J |
| **18686 MW-1A** | **V 89080** | | | | | |
| 8260D | Benzene | 228 | µg/L | 1.80 | 07/14/2023 03:00 | |
| 8260D | Ethylbenzene | 2.72 | µg/L | 1.70 | 07/14/2023 03:00 | J |
| 8260D | Methyl tert-butyl ether (MTBE) | 6.59 | µg/L | 1.40 | 07/14/2023 03:00 | |
| 8260D | tert-Amyl Alcohol (TAA) | 379 | µg/L | 19.0 | 07/14/2023 03:00 | |
| 8260D | Toluene | 79.2 | µg/L | 2.20 | 07/14/2023 03:00 | |
| 8260D | o-Xylene | 7.27 | µg/L | 2.10 | 07/14/2023 03:00 | |
| 8260D | m,p-Xylene | 14.8 | µg/L | 4.20 | 07/14/2023 03:00 | |
| 8260D | Xylene (Total) | 22.1 | µg/L | 2.10 | 07/14/2023 03:00 | |
| **18686 MW-2A** | **V 89081** | | | | | |
| 8011 | 1,2-Dibromoethane | 0.125 | µg/L | 0.00337 | 07/12/2023 20:32 | |
| 8260D | Benzene | 28800 | µg/L | 180 | 07/14/2023 04:23 | |
| 8260D | Ethylbenzene | 2890 | µg/L | 17.0 | 07/14/2023 03:55 | |
| 8260D | Methyl tert-butyl ether (MTBE) | 110 | µg/L | 14.0 | 07/14/2023 03:55 | |
| 8260D | Naphthalene | 723 | µg/L | 47.0 | 07/14/2023 03:55 | |
| 8260D | tert-Butyl Alcohol (TBA) | 168 | µg/L | 160 | 07/14/2023 03:55 | J |
| 8260D | tert-Amyl Alcohol (TAA) | 24300 | µg/L | 1900 | 07/14/2023 04:23 | |
| 8260D | tert-Amyl Methyl Ether (TAME) | 58.6 | µg/L | 28.0 | 07/14/2023 03:55 | J |
| 8260D | Toluene | 44700 | µg/L | 220 | 07/14/2023 04:23 | |
| 8260D | o-Xylene | 4830 | µg/L | 21.0 | 07/14/2023 03:55 | |

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## Summary of Detected Analytes

**Project:** Tisdales Quick Stop

**Report Number:** 23-188-0021

| Client Sample ID / Method | Lab Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **18686 MW-2A** | **V 89081** | | | | | |
| 8260D | m,p-Xylene | 9970 | µg/L | 42.0 | 07/14/2023 03:55 | |
| 8260D | Xylene (Total) | 14800 | µg/L | 21.0 | 07/14/2023 03:55 | |
| **18686 MW-4A** | **V 89082** | | | | | |
| 8011 | 1,2-Dibromoethane | 0.0624 | µg/L | 0.00338 | 07/12/2023 20:51 | |
| 8260D | Benzene | 11500 | µg/L | 180 | 07/14/2023 05:18 | |
| 8260D | Ethylbenzene | 1640 | µg/L | 17.0 | 07/14/2023 04:51 | |
| 8260D | Naphthalene | 566 | µg/L | 47.0 | 07/14/2023 04:51 | |
| 8260D | tert-Amyl Alcohol (TAA) | 3650 | µg/L | 190 | 07/14/2023 04:51 | |
| 8260D | Toluene | 35900 | µg/L | 220 | 07/14/2023 05:18 | |
| 8260D | o-Xylene | 4760 | µg/L | 21.0 | 07/14/2023 04:51 | |
| 8260D | m,p-Xylene | 9080 | µg/L | 42.0 | 07/14/2023 04:51 | |
| 8260D | Xylene (Total) | 13800 | µg/L | 21.0 | 07/14/2023 04:51 | |
| **18686 DUP-A** | **V 89085** | | | | | |
| 8260D | Benzene | 6130 | µg/L | 18.0 | 07/14/2023 05:46 | |
| 8260D | Ethylbenzene | 1090 | µg/L | 17.0 | 07/14/2023 05:46 | |
| 8260D | Methyl tert-butyl ether (MTBE) | 142 | µg/L | 14.0 | 07/14/2023 05:46 | |
| 8260D | Naphthalene | 445 | µg/L | 47.0 | 07/14/2023 05:46 | |
| 8260D | tert-Butyl Alcohol (TBA) | 183 | µg/L | 160 | 07/14/2023 05:46 | J |
| 8260D | tert-Amyl Alcohol (TAA) | 9450 | µg/L | 190 | 07/14/2023 05:46 | |
| 8260D | Toluene | 8980 | µg/L | 22.0 | 07/14/2023 05:46 | |
| 8260D | o-Xylene | 2050 | µg/L | 21.0 | 07/14/2023 05:46 | |
| 8260D | m,p-Xylene | 4650 | µg/L | 42.0 | 07/14/2023 05:46 | |
| 8260D | Xylene (Total) | 6700 | µg/L | 21.0 | 07/14/2023 05:46 | |
| **18686 DUP-B** | **V 89086** | | | | | |
| 8260D | Benzene | 7070 | µg/L | 18.0 | 07/14/2023 06:41 | |
| 8260D | Ethylbenzene | 932 | µg/L | 17.0 | 07/14/2023 06:41 | |
| 8260D | Naphthalene | 435 | µg/L | 47.0 | 07/14/2023 06:41 | |
| 8260D | tert-Amyl Alcohol (TAA) | 3440 | µg/L | 190 | 07/14/2023 06:41 | |
| 8260D | Toluene | 2820 | µg/L | 22.0 | 07/14/2023 06:41 | |
| 8260D | o-Xylene | 545 | µg/L | 21.0 | 07/14/2023 06:41 | |
| 8260D | m,p-Xylene | 3600 | µg/L | 42.0 | 07/14/2023 06:41 | |
| 8260D | Xylene (Total) | 4150 | µg/L | 21.0 | 07/14/2023 06:41 | |

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Client: Geological Resources, Inc.
Project: Tisdales Quick Stop
Lab Report Number: 23-188-0021
Date: 7/20/2023

**CASE NARRATIVE**

**Volatile Organic Compounds - GC/MS Method 8260D**
Analyte: Ethanol
QC Batch No: V35336/V35351
Relative Percent Difference (RPD) for the duplicate analysis was outside of the allowable QC limits.

Analyte: tert-Butyl formate
QC Batch No: V35336/V35351
Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: tert-Butyl formate
QC Batch No: V35352/V35351
Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

Analyte: tert-Butyl formate
QC Batch No: V35397/V35351
Recovery for the LCS exceeded the upper acceptance limit. However, all sample results associated with the batch are below the MQL, so this high bias had no impact upon the client data. The results are considered to be acceptable.

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Project Tisdales Quick Stop

Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89061**
Sample ID : **18686 MW-1**

Matrix: **Aqueous**
Sampled: **7/5/2023 14:42**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <100 | µg/L | 100 | 1000 | 100 | 07/14/23 07:10 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 100 | 07/14/23 07:10 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 103 | | Limits: 75-129% | | 100 | 07/14/23 07:10 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 102 | | Limits: 63-136% | | 100 | 07/14/23 07:10 | MSA | V35352 |
| Surrogate: Toluene-d8 | 100 | | Limits: 77-123% | | 100 | 07/14/23 07:10 | MSA | V35352 |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1000 | 07/14/23 07:34 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 99.4 | | Limits: 75-129% | | 1000 | 07/14/23 07:34 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 96.0 | | Limits: 63-136% | | 1000 | 07/14/23 07:34 | MSA | V35352 |
| Surrogate: Toluene-d8 | 101 | | Limits: 77-123% | | 1000 | 07/14/23 07:34 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89061**
Sample ID : **18686 MW-1**

Matrix: **Aqueous**
Sampled: **7/5/2023 14:42**

**Analytical Method:** 8011 **Prep Batch(es):** **V35225** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00338 | µg/L | 0.00338 | 0.0205 | 1 | 07/12/23 12:30 | TJW | V35261 |
| Surrogate: 4-Bromofluorobenzene | 84.4 | | Limits: 70-130% | | 1 | 07/12/23 12:30 | TJW | V35261 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | **6100** | µg/L | 18.0 | 50.0 | 100 | 07/14/23 07:10 | MSA | V35352 |
| Di-Isopropyl Ether (DIPE) | <96.0 | µg/L | 96.0 | 500 | 100 | 07/14/23 07:10 | MSA | V35352 |
| 1,2-Dichloroethane | <15.0 | µg/L | 15.0 | 50.0 | 100 | 07/14/23 07:10 | MSA | V35352 |
| Ethanol | <4200 | µg/L | 4200 | 20000 | 100 | 07/14/23 07:10 | MSA | V35352 |
| Ethylbenzene | **1090** | µg/L | 17.0 | 50.0 | 100 | 07/14/23 07:10 | MSA | V35352 |
| Ethyl Tertiary Butyl Ether (ETBE) | <180 | µg/L | 180 | 1000 | 100 | 07/14/23 07:10 | MSA | V35352 |
| Methyl tert-butyl ether (MTBE) | **150** | µg/L | 14.0 | 50.0 | 100 | 07/14/23 07:10 | MSA | V35352 |
| Naphthalene | **369** | µg/L | 47.0 | 100 | 100 | 07/14/23 07:10 | MSA | V35352 |
| tert-Butyl Alcohol (TBA) | <160 | µg/L | 160 | 1000 | 100 | 07/14/23 07:10 | MSA | V35352 |
| tert-Butyl formate (TBF) | <35.0 | µg/L | 35.0 | 1000 | 100 | 07/14/23 07:10 | MSA | V35352 |
| tert-Amyl Alcohol (TAA) | **9800 J** | µg/L | 1900 | 10000 | 1000 | 07/14/23 07:34 | MSA | V35352 |
| tert-Amyl Methyl Ether (TAME) | <28.0 | µg/L | 28.0 | 1000 | 100 | 07/14/23 07:10 | MSA | V35352 |
| Toluene | **8540** | µg/L | 22.0 | 50.0 | 100 | 07/14/23 07:10 | MSA | V35352 |
| o-Xylene | **1960** | µg/L | 21.0 | 50.0 | 100 | 07/14/23 07:10 | MSA | V35352 |
| m,p-Xylene | **4600** | µg/L | 42.0 | 100 | 100 | 07/14/23 07:10 | MSA | V35352 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89061**
Sample ID : **18686 MW-1**

Matrix: **Aqueous**
Sampled: **7/5/2023 14:42**

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | **6560** | µg/L | 21.0 | 50.0 | 100 | 07/14/23 07:10 | | V35352 |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 100 | 07/14/23 07:10 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 103 | | Limits: 75-129% | | 100 | 07/14/23 07:10 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 102 | | Limits: 63-136% | | 100 | 07/14/23 07:10 | MSA | V35352 |
| Surrogate: Toluene-d8 | 100 | | Limits: 77-123% | | 100 | 07/14/23 07:10 | MSA | V35352 |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1000 | 07/14/23 07:34 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 99.4 | | Limits: 75-129% | | 1000 | 07/14/23 07:34 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 96.0 | | Limits: 63-136% | | 1000 | 07/14/23 07:34 | MSA | V35352 |
| Surrogate: Toluene-d8 | 101 | | Limits: 77-123% | | 1000 | 07/14/23 07:34 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

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Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89062**
Sample ID : **18686 MW-2**

Matrix: **Aqueous**
Sampled: **7/5/2023 14:24**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <100 | µg/L | 100 | 1000 | 100 | 07/14/23 06:45 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 101 | | Limits: 80-124% | | 100 | 07/14/23 06:45 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 100 | 07/14/23 06:45 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 97.8 | | Limits: 63-136% | | 100 | 07/14/23 06:45 | MSA | V35352 |
| Surrogate: Toluene-d8 | 101 | | Limits: 77-123% | | 100 | 07/14/23 06:45 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89062**
Sample ID : **18686 MW-2**

Matrix: **Aqueous**
Sampled: **7/5/2023 14:24**

**Analytical Method:** 8011 **Prep Batch(es):** **V35225** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00338 | µg/L | 0.00338 | 0.0205 | 1 | 07/12/23 12:52 | TJW | V35261 |
| Surrogate: 4-Bromofluorobenzene | 97.7 | | Limits: 70-130% | | 1 | 07/12/23 12:52 | TJW | V35261 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | **6830** | µg/L | 18.0 | 50.0 | 100 | 07/14/23 06:45 | MSA | V35352 |
| Di-Isopropyl Ether (DIPE) | <96.0 | µg/L | 96.0 | 500 | 100 | 07/14/23 06:45 | MSA | V35352 |
| 1,2-Dichloroethane | <15.0 | µg/L | 15.0 | 50.0 | 100 | 07/14/23 06:45 | MSA | V35352 |
| Ethanol | <4200 | µg/L | 4200 | 20000 | 100 | 07/14/23 06:45 | MSA | V35352 |
| Ethylbenzene | **941** | µg/L | 17.0 | 50.0 | 100 | 07/14/23 06:45 | MSA | V35352 |
| Ethyl Tertiary Butyl Ether (ETBE) | <180 | µg/L | 180 | 1000 | 100 | 07/14/23 06:45 | MSA | V35352 |
| Methyl tert-butyl ether (MTBE) | <14.0 | µg/L | 14.0 | 50.0 | 100 | 07/14/23 06:45 | MSA | V35352 |
| Naphthalene | **235** | µg/L | 47.0 | 100 | 100 | 07/14/23 06:45 | MSA | V35352 |
| tert-Butyl Alcohol (TBA) | <160 | µg/L | 160 | 1000 | 100 | 07/14/23 06:45 | MSA | V35352 |
| tert-Butyl formate (TBF) | <35.0 | µg/L | 35.0 | 1000 | 100 | 07/14/23 06:45 | MSA | V35352 |
| tert-Amyl Alcohol (TAA) | **4260** | µg/L | 190 | 1000 | 100 | 07/14/23 06:45 | MSA | V35352 |
| tert-Amyl Methyl Ether (TAME) | <28.0 | µg/L | 28.0 | 1000 | 100 | 07/14/23 06:45 | MSA | V35352 |
| Toluene | **2760** | µg/L | 22.0 | 50.0 | 100 | 07/14/23 06:45 | MSA | V35352 |
| o-Xylene | **526** | µg/L | 21.0 | 50.0 | 100 | 07/14/23 06:45 | MSA | V35352 |
| m,p-Xylene | **3710** | µg/L | 42.0 | 100 | 100 | 07/14/23 06:45 | MSA | V35352 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89062**
Sample ID : **18686 MW-2**

Matrix: **Aqueous**
Sampled: **7/5/2023 14:24**

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | **4240** | µg/L | 21.0 | 50.0 | 100 | 07/14/23 06:45 | | V35352 |
| Surrogate: 4-Bromofluorobenzene | 101 | | Limits: 80-124% | | 100 | 07/14/23 06:45 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 100 | 07/14/23 06:45 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 97.8 | | Limits: 63-136% | | 100 | 07/14/23 06:45 | MSA | V35352 |
| Surrogate: Toluene-d8 | 101 | | Limits: 77-123% | | 100 | 07/14/23 06:45 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

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Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89063**
Sample ID : **18686 MW-3**

Matrix: **Aqueous**
Sampled: **7/5/2023 14:32**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 17:15 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 101 | | Limits: 80-124% | | 1 | 07/14/23 17:15 | MSA | V35397 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 1 | 07/14/23 17:15 | MSA | V35397 |
| Surrogate: 1,2-Dichloroethane - d4 | 97.8 | | Limits: 63-136% | | 1 | 07/14/23 17:15 | MSA | V35397 |
| Surrogate: Toluene-d8 | 101 | | Limits: 77-123% | | 1 | 07/14/23 17:15 | MSA | V35397 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Tisdales Quick Stop
Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89063**
Sample ID : **18686 MW-3**

Matrix: **Aqueous**
Sampled: **7/5/2023 14:32**

**Analytical Method:** 8011 **Prep Batch(es):** **V35225** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00338 | µg/L | 0.00338 | 0.0205 | 1 | 07/12/23 13:14 | TJW | V35261 |
| Surrogate: 4-Bromofluorobenzene | 93.2 | | Limits: 70-130% | | 1 | 07/12/23 13:14 | TJW | V35261 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35395** 07/14/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | **11.3** | µg/L | 0.180 | 0.500 | 1 | 07/14/23 17:15 | MSA | V35397 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 17:15 | MSA | V35397 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/14/23 17:15 | MSA | V35397 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 17:15 | MSA | V35397 |
| Ethylbenzene | **3.41** | µg/L | 0.170 | 0.500 | 1 | 07/14/23 17:15 | MSA | V35397 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 17:15 | MSA | V35397 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/14/23 17:15 | MSA | V35397 |
| Naphthalene | **1.40** | µg/L | 0.470 | 1.00 | 1 | 07/14/23 17:15 | MSA | V35397 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/14/23 17:15 | MSA | V35397 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 17:15 | MSA | V35397 |
| tert-Amyl Alcohol (TAA) | **2.77 J** | µg/L | 1.90 | 10.0 | 1 | 07/14/23 17:15 | MSA | V35397 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/14/23 17:15 | MSA | V35397 |
| Toluene | **4.24** | µg/L | 0.220 | 0.500 | 1 | 07/14/23 17:15 | MSA | V35397 |
| o-Xylene | **3.12** | µg/L | 0.210 | 0.500 | 1 | 07/14/23 17:15 | MSA | V35397 |
| m,p-Xylene | **0.722 J** | µg/L | 0.420 | 1.00 | 1 | 07/14/23 17:15 | MSA | V35397 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Tisdales Quick Stop

Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89063**
Sample ID : **18686 MW-3**

Matrix: **Aqueous**
Sampled: **7/5/2023 14:32**

**Analytical Method:** 8260D **Prep Batch(es):** **V35395** 07/14/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | **3.84 J** | µg/L | 0.210 | 0.500 | 1 | 07/14/23 17:15 | | V35397 |
| Surrogate: 4-Bromofluorobenzene | 101 | | Limits: 80-124% | | 1 | 07/14/23 17:15 | MSA | V35397 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 1 | 07/14/23 17:15 | MSA | V35397 |
| Surrogate: 1,2-Dichloroethane - d4 | 97.8 | | Limits: 63-136% | | 1 | 07/14/23 17:15 | MSA | V35397 |
| Surrogate: Toluene-d8 | 101 | | Limits: 77-123% | | 1 | 07/14/23 17:15 | MSA | V35397 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Tisdales Quick Stop

Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89064**
Sample ID : **18686 MW-7**

Matrix: **Aqueous**
Sampled: **7/5/2023 14:15**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 00:57 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 103 | | Limits: 80-124% | | 1 | 07/14/23 00:57 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 99.2 | | Limits: 75-129% | | 1 | 07/14/23 00:57 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 96.0 | | Limits: 63-136% | | 1 | 07/14/23 00:57 | MSA | V35352 |
| Surrogate: Toluene-d8 | 101 | | Limits: 77-123% | | 1 | 07/14/23 00:57 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89064**
Sample ID : **18686 MW-7**

Matrix: **Aqueous**
Sampled: **7/5/2023 14:15**

**Analytical Method:** 8011 **Prep Batch(es):** **V35225** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00338 | µg/L | 0.00338 | 0.0205 | 1 | 07/12/23 13:36 | TJW | V35261 |
| Surrogate: 4-Bromofluorobenzene | 98.2 | | Limits: 70-130% | | 1 | 07/12/23 13:36 | TJW | V35261 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/14/23 00:57 | MSA | V35352 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 00:57 | MSA | V35352 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/14/23 00:57 | MSA | V35352 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 00:57 | MSA | V35352 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/14/23 00:57 | MSA | V35352 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 00:57 | MSA | V35352 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/14/23 00:57 | MSA | V35352 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/14/23 00:57 | MSA | V35352 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/14/23 00:57 | MSA | V35352 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 00:57 | MSA | V35352 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/14/23 00:57 | MSA | V35352 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/14/23 00:57 | MSA | V35352 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/14/23 00:57 | MSA | V35352 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 00:57 | MSA | V35352 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/14/23 00:57 | MSA | V35352 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Tisdales Quick Stop
Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89064**
Sample ID : **18686 MW-7**

Matrix: **Aqueous**
Sampled: **7/5/2023 14:15**

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 00:57 | | V35352 |
| Surrogate: 4-Bromofluorobenzene | 103 | | Limits: 80-124% | | 1 | 07/14/23 00:57 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 99.2 | | Limits: 75-129% | | 1 | 07/14/23 00:57 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 96.0 | | Limits: 63-136% | | 1 | 07/14/23 00:57 | MSA | V35352 |
| Surrogate: Toluene-d8 | 101 | | Limits: 77-123% | | 1 | 07/14/23 00:57 | MSA | V35352 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89065**
Sample ID : **18686 MW-8**

Matrix: **Aqueous**
Sampled: **7/5/2023 11:51**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 01:22 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 99.4 | | Limits: 80-124% | | 1 | 07/14/23 01:22 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 1 | 07/14/23 01:22 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.8 | | Limits: 63-136% | | 1 | 07/14/23 01:22 | MSA | V35352 |
| Surrogate: Toluene-d8 | 99.0 | | Limits: 77-123% | | 1 | 07/14/23 01:22 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89065**
Sample ID : **18686 MW-8**

Matrix: **Aqueous**
Sampled: **7/5/2023 11:51**

**Analytical Method:** 8011 **Prep Batch(es):** **V35225** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00338 | µg/L | 0.00338 | 0.0205 | 1 | 07/12/23 13:57 | TJW | V35261 |
| Surrogate: 4-Bromofluorobenzene | 94.7 | | Limits: 70-130% | | 1 | 07/12/23 13:57 | TJW | V35261 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/14/23 01:22 | MSA | V35352 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 01:22 | MSA | V35352 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/14/23 01:22 | MSA | V35352 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 01:22 | MSA | V35352 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/14/23 01:22 | MSA | V35352 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 01:22 | MSA | V35352 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/14/23 01:22 | MSA | V35352 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/14/23 01:22 | MSA | V35352 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/14/23 01:22 | MSA | V35352 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 01:22 | MSA | V35352 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/14/23 01:22 | MSA | V35352 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/14/23 01:22 | MSA | V35352 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/14/23 01:22 | MSA | V35352 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 01:22 | MSA | V35352 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/14/23 01:22 | MSA | V35352 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89065**
Sample ID : **18686 MW-8**

Matrix: **Aqueous**
Sampled: **7/5/2023 11:51**

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 01:22 | | V35352 |
| Surrogate: 4-Bromofluorobenzene | 99.4 | | Limits: 80-124% | | 1 | 07/14/23 01:22 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 1 | 07/14/23 01:22 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.8 | | Limits: 63-136% | | 1 | 07/14/23 01:22 | MSA | V35352 |
| Surrogate: Toluene-d8 | 99.0 | | Limits: 77-123% | | 1 | 07/14/23 01:22 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Date : 07/20/2023
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Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89066**
Sample ID : **18686 MW-9**

Matrix: **Aqueous**
Sampled: **7/5/2023 11:15**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 01:47 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1 | 07/14/23 01:47 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 1 | 07/14/23 01:47 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.6 | | Limits: 63-136% | | 1 | 07/14/23 01:47 | MSA | V35352 |
| Surrogate: Toluene-d8 | 99.4 | | Limits: 77-123% | | 1 | 07/14/23 01:47 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89066**
Sample ID : **18686 MW-9**

Matrix: **Aqueous**
Sampled: **7/5/2023 11:15**

**Analytical Method:** 8011 **Prep Batch(es):** **V35225** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00340 | µg/L | 0.00340 | 0.0206 | 1 | 07/12/23 14:19 | TJW | V35261 |
| Surrogate: 4-Bromofluorobenzene | 95.7 | | Limits: 70-130% | | 1 | 07/12/23 14:19 | TJW | V35261 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/14/23 01:47 | MSA | V35352 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 01:47 | MSA | V35352 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/14/23 01:47 | MSA | V35352 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 01:47 | MSA | V35352 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/14/23 01:47 | MSA | V35352 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 01:47 | MSA | V35352 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/14/23 01:47 | MSA | V35352 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/14/23 01:47 | MSA | V35352 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/14/23 01:47 | MSA | V35352 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 01:47 | MSA | V35352 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/14/23 01:47 | MSA | V35352 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/14/23 01:47 | MSA | V35352 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/14/23 01:47 | MSA | V35352 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 01:47 | MSA | V35352 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/14/23 01:47 | MSA | V35352 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89066**
Sample ID : **18686 MW-9**

Matrix: **Aqueous**
Sampled: **7/5/2023 11:15**

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 01:47 | | V35352 |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1 | 07/14/23 01:47 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 1 | 07/14/23 01:47 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.6 | | Limits: 63-136% | | 1 | 07/14/23 01:47 | MSA | V35352 |
| Surrogate: Toluene-d8 | 99.4 | | Limits: 77-123% | | 1 | 07/14/23 01:47 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89067**
Sample ID : **18686 MW-11R**

Matrix: **Aqueous**
Sampled: **7/5/2023 11:21**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 02:12 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 102 | | Limits: 80-124% | | 1 | 07/14/23 02:12 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 1 | 07/14/23 02:12 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.4 | | Limits: 63-136% | | 1 | 07/14/23 02:12 | MSA | V35352 |
| Surrogate: Toluene-d8 | 100 | | Limits: 77-123% | | 1 | 07/14/23 02:12 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Tisdales Quick Stop
Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89067**
Sample ID : **18686 MW-11R**

Matrix: **Aqueous**
Sampled: **7/5/2023 11:21**

**Analytical Method:** 8011 **Prep Batch(es):** **V35225** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00338 | µg/L | 0.00338 | 0.0205 | 1 | 07/12/23 14:41 | TJW | V35261 |
| Surrogate: 4-Bromofluorobenzene | 104 | | Limits: 70-130% | | 1 | 07/12/23 14:41 | TJW | V35261 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/14/23 02:12 | MSA | V35352 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 02:12 | MSA | V35352 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/14/23 02:12 | MSA | V35352 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 02:12 | MSA | V35352 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/14/23 02:12 | MSA | V35352 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 02:12 | MSA | V35352 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/14/23 02:12 | MSA | V35352 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/14/23 02:12 | MSA | V35352 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/14/23 02:12 | MSA | V35352 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 02:12 | MSA | V35352 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/14/23 02:12 | MSA | V35352 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/14/23 02:12 | MSA | V35352 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/14/23 02:12 | MSA | V35352 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 02:12 | MSA | V35352 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/14/23 02:12 | MSA | V35352 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89067**
Sample ID : **18686 MW-11R**

Matrix: **Aqueous**
Sampled: **7/5/2023 11:21**

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 02:12 | | V35352 |
| Surrogate: 4-Bromofluorobenzene | 102 | | Limits: 80-124% | | 1 | 07/14/23 02:12 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 1 | 07/14/23 02:12 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.4 | | Limits: 63-136% | | 1 | 07/14/23 02:12 | MSA | V35352 |
| Surrogate: Toluene-d8 | 100 | | Limits: 77-123% | | 1 | 07/14/23 02:12 | MSA | V35352 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
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Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89068**
Sample ID : **18686 MW-12R**

Matrix: **Aqueous**
Sampled: **7/5/2023 11:36**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 02:37 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 102 | | Limits: 80-124% | | 1 | 07/14/23 02:37 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 1 | 07/14/23 02:37 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 101 | | Limits: 63-136% | | 1 | 07/14/23 02:37 | MSA | V35352 |
| Surrogate: Toluene-d8 | 100 | | Limits: 77-123% | | 1 | 07/14/23 02:37 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89068**
Sample ID : **18686 MW-12R**

Matrix: **Aqueous**
Sampled: **7/5/2023 11:36**

**Analytical Method:** 8011 **Prep Batch(es):** **V35225** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00337 | µg/L | 0.00337 | 0.0204 | 1 | 07/12/23 15:02 | TJW | V35261 |
| Surrogate: 4-Bromofluorobenzene | 105 | | Limits: 70-130% | | 1 | 07/12/23 15:02 | TJW | V35261 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | **0.228 J** | µg/L | 0.180 | 0.500 | 1 | 07/14/23 02:37 | MSA | V35352 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 02:37 | MSA | V35352 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/14/23 02:37 | MSA | V35352 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 02:37 | MSA | V35352 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/14/23 02:37 | MSA | V35352 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 02:37 | MSA | V35352 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/14/23 02:37 | MSA | V35352 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/14/23 02:37 | MSA | V35352 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/14/23 02:37 | MSA | V35352 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 02:37 | MSA | V35352 |
| tert-Amyl Alcohol (TAA) | **3.41 J** | µg/L | 1.90 | 10.0 | 1 | 07/14/23 02:37 | MSA | V35352 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/14/23 02:37 | MSA | V35352 |
| Toluene | **0.520** | µg/L | 0.220 | 0.500 | 1 | 07/14/23 02:37 | MSA | V35352 |
| o-Xylene | **0.230 J** | µg/L | 0.210 | 0.500 | 1 | 07/14/23 02:37 | MSA | V35352 |
| m,p-Xylene | **0.424 J** | µg/L | 0.420 | 1.00 | 1 | 07/14/23 02:37 | MSA | V35352 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

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Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89068**
Sample ID : **18686 MW-12R**

Matrix: **Aqueous**
Sampled: **7/5/2023 11:36**

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | **0.654 J** | µg/L | 0.210 | 0.500 | 1 | 07/14/23 02:37 | | V35352 |
| Surrogate: 4-Bromofluorobenzene | 102 | | Limits: 80-124% | | 1 | 07/14/23 02:37 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 1 | 07/14/23 02:37 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 101 | | Limits: 63-136% | | 1 | 07/14/23 02:37 | MSA | V35352 |
| Surrogate: Toluene-d8 | 100 | | Limits: 77-123% | | 1 | 07/14/23 02:37 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89069**
Sample ID : **18686 MW-13**

Matrix: **Aqueous**
Sampled: **7/5/2023 11:43**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 03:01 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1 | 07/14/23 03:01 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 99.6 | | Limits: 75-129% | | 1 | 07/14/23 03:01 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.2 | | Limits: 63-136% | | 1 | 07/14/23 03:01 | MSA | V35352 |
| Surrogate: Toluene-d8 | 100 | | Limits: 77-123% | | 1 | 07/14/23 03:01 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89069**
Sample ID : **18686 MW-13**

Matrix: **Aqueous**
Sampled: **7/5/2023 11:43**

**Analytical Method:** 8011 **Prep Batch(es):** **V35225** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00340 | µg/L | 0.00340 | 0.0206 | 1 | 07/12/23 15:24 | TJW | V35261 |
| Surrogate: 4-Bromofluorobenzene | 112 | | Limits: 70-130% | | 1 | 07/12/23 15:24 | TJW | V35261 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/14/23 03:01 | MSA | V35352 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 03:01 | MSA | V35352 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/14/23 03:01 | MSA | V35352 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 03:01 | MSA | V35352 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/14/23 03:01 | MSA | V35352 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 03:01 | MSA | V35352 |
| Methyl tert-butyl ether (MTBE) | **0.625** | µg/L | 0.140 | 0.500 | 1 | 07/14/23 03:01 | MSA | V35352 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/14/23 03:01 | MSA | V35352 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/14/23 03:01 | MSA | V35352 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 03:01 | MSA | V35352 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/14/23 03:01 | MSA | V35352 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/14/23 03:01 | MSA | V35352 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/14/23 03:01 | MSA | V35352 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 03:01 | MSA | V35352 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/14/23 03:01 | MSA | V35352 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89069**
Sample ID : **18686 MW-13**

Matrix: **Aqueous**
Sampled: **7/5/2023 11:43**

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 03:01 | | V35352 |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1 | 07/14/23 03:01 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 99.6 | | Limits: 75-129% | | 1 | 07/14/23 03:01 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.2 | | Limits: 63-136% | | 1 | 07/14/23 03:01 | MSA | V35352 |
| Surrogate: Toluene-d8 | 100 | | Limits: 77-123% | | 1 | 07/14/23 03:01 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89070**
Sample ID : **18686 MW-14**

Matrix: **Aqueous**
Sampled: **7/5/2023 14:53**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 03:26 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1 | 07/14/23 03:26 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 1 | 07/14/23 03:26 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 100 | | Limits: 63-136% | | 1 | 07/14/23 03:26 | MSA | V35352 |
| Surrogate: Toluene-d8 | 100 | | Limits: 77-123% | | 1 | 07/14/23 03:26 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89070**
Sample ID : **18686 MW-14**

Matrix: **Aqueous**
Sampled: **7/5/2023 14:53**

**Analytical Method:** 8011 **Prep Batch(es):** **V35225** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00335 | µg/L | 0.00335 | 0.0203 | 1 | 07/12/23 15:46 | TJW | V35261 |
| Surrogate: 4-Bromofluorobenzene | 114 | | Limits: 70-130% | | 1 | 07/12/23 15:46 | TJW | V35261 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/14/23 03:26 | MSA | V35352 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 03:26 | MSA | V35352 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/14/23 03:26 | MSA | V35352 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 03:26 | MSA | V35352 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/14/23 03:26 | MSA | V35352 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 03:26 | MSA | V35352 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/14/23 03:26 | MSA | V35352 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/14/23 03:26 | MSA | V35352 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/14/23 03:26 | MSA | V35352 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 03:26 | MSA | V35352 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/14/23 03:26 | MSA | V35352 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/14/23 03:26 | MSA | V35352 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/14/23 03:26 | MSA | V35352 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 03:26 | MSA | V35352 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/14/23 03:26 | MSA | V35352 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89070**
Sample ID : **18686 MW-14**

Matrix: **Aqueous**
Sampled: **7/5/2023 14:53**

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 03:26 | | V35352 |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1 | 07/14/23 03:26 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 1 | 07/14/23 03:26 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 100 | | Limits: 63-136% | | 1 | 07/14/23 03:26 | MSA | V35352 |
| Surrogate: Toluene-d8 | 100 | | Limits: 77-123% | | 1 | 07/14/23 03:26 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Date : 07/20/2023
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Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89071**
Sample ID : **18686 MW-15**

Matrix: **Aqueous**
Sampled: **7/5/2023 15:03**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 03:51 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1 | 07/14/23 03:51 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 101 | | Limits: 75-129% | | 1 | 07/14/23 03:51 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 102 | | Limits: 63-136% | | 1 | 07/14/23 03:51 | MSA | V35352 |
| Surrogate: Toluene-d8 | 98.6 | | Limits: 77-123% | | 1 | 07/14/23 03:51 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89071**
Sample ID : **18686 MW-15**

Matrix: **Aqueous**
Sampled: **7/5/2023 15:03**

**Analytical Method:** 8011 **Prep Batch(es):** **V35225** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00337 | µg/L | 0.00337 | 0.0204 | 1 | 07/12/23 16:07 | TJW | V35261 |
| Surrogate: 4-Bromofluorobenzene | 120 | | Limits: 70-130% | | 1 | 07/12/23 16:07 | TJW | V35261 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/14/23 03:51 | MSA | V35352 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 03:51 | MSA | V35352 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/14/23 03:51 | MSA | V35352 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 03:51 | MSA | V35352 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/14/23 03:51 | MSA | V35352 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 03:51 | MSA | V35352 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/14/23 03:51 | MSA | V35352 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/14/23 03:51 | MSA | V35352 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/14/23 03:51 | MSA | V35352 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 03:51 | MSA | V35352 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/14/23 03:51 | MSA | V35352 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/14/23 03:51 | MSA | V35352 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/14/23 03:51 | MSA | V35352 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 03:51 | MSA | V35352 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/14/23 03:51 | MSA | V35352 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Tisdales Quick Stop
Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89071**
Sample ID : **18686 MW-15**

Matrix: **Aqueous**
Sampled: **7/5/2023 15:03**

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 03:51 | | V35352 |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1 | 07/14/23 03:51 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 101 | | Limits: 75-129% | | 1 | 07/14/23 03:51 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 102 | | Limits: 63-136% | | 1 | 07/14/23 03:51 | MSA | V35352 |
| Surrogate: Toluene-d8 | 98.6 | | Limits: 77-123% | | 1 | 07/14/23 03:51 | MSA | V35352 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
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Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89072**
Sample ID : **18686 MW-16R**

Matrix: **Aqueous**
Sampled: **7/5/2023 15:13**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <100 | µg/L | 100 | 1000 | 100 | 07/14/23 03:28 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 102 | | Limits: 80-124% | | 100 | 07/14/23 03:28 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 100 | 07/14/23 03:28 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 96.8 | | Limits: 63-136% | | 100 | 07/14/23 03:28 | MSA | V35336 |
| Surrogate: Toluene-d8 | 98.8 | | Limits: 77-123% | | 100 | 07/14/23 03:28 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Date : 07/20/2023
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Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89072**
Sample ID : **18686 MW-16R**

Matrix: **Aqueous**
Sampled: **7/5/2023 15:13**

**Analytical Method:** 8011 **Prep Batch(es):** **V35225** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00337 | µg/L | 0.00337 | 0.0204 | 1 | 07/12/23 16:28 | TJW | V35261 |
| Surrogate: 4-Bromofluorobenzene | 110 | | Limits: 70-130% | | 1 | 07/12/23 16:28 | TJW | V35261 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | **529** | µg/L | 18.0 | 50.0 | 100 | 07/14/23 03:28 | MSA | V35336 |
| Di-Isopropyl Ether (DIPE) | <96.0 | µg/L | 96.0 | 500 | 100 | 07/14/23 03:28 | MSA | V35336 |
| 1,2-Dichloroethane | <15.0 | µg/L | 15.0 | 50.0 | 100 | 07/14/23 03:28 | MSA | V35336 |
| Ethanol | <4200 | µg/L | 4200 | 20000 | 100 | 07/14/23 03:28 | MSA | V35336 |
| Ethylbenzene | **443** | µg/L | 17.0 | 50.0 | 100 | 07/14/23 03:28 | MSA | V35336 |
| Ethyl Tertiary Butyl Ether (ETBE) | <180 | µg/L | 180 | 1000 | 100 | 07/14/23 03:28 | MSA | V35336 |
| Methyl tert-butyl ether (MTBE) | <14.0 | µg/L | 14.0 | 50.0 | 100 | 07/14/23 03:28 | MSA | V35336 |
| Naphthalene | <47.0 | µg/L | 47.0 | 100 | 100 | 07/14/23 03:28 | MSA | V35336 |
| tert-Butyl Alcohol (TBA) | <160 | µg/L | 160 | 1000 | 100 | 07/14/23 03:28 | MSA | V35336 |
| tert-Butyl formate (TBF) | <35.0 | µg/L | 35.0 | 1000 | 100 | 07/14/23 03:28 | MSA | V35336 |
| tert-Amyl Alcohol (TAA) | **771 J** | µg/L | 190 | 1000 | 100 | 07/14/23 03:28 | MSA | V35336 |
| tert-Amyl Methyl Ether (TAME) | <28.0 | µg/L | 28.0 | 1000 | 100 | 07/14/23 03:28 | MSA | V35336 |
| Toluene | **3960** | µg/L | 22.0 | 50.0 | 100 | 07/14/23 03:28 | MSA | V35336 |
| o-Xylene | **1620** | µg/L | 21.0 | 50.0 | 100 | 07/14/23 03:28 | MSA | V35336 |
| m,p-Xylene | **1980** | µg/L | 42.0 | 100 | 100 | 07/14/23 03:28 | MSA | V35336 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89072**
Sample ID : **18686 MW-16R**

Matrix: **Aqueous**
Sampled: **7/5/2023 15:13**

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | **3600** | µg/L | 21.0 | 50.0 | 100 | 07/14/23 03:28 | | V35336 |
| Surrogate: 4-Bromofluorobenzene | 102 | | Limits: 80-124% | | 100 | 07/14/23 03:28 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 100 | 07/14/23 03:28 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 96.8 | | Limits: 63-136% | | 100 | 07/14/23 03:28 | MSA | V35336 |
| Surrogate: Toluene-d8 | 98.8 | | Limits: 77-123% | | 100 | 07/14/23 03:28 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89073**
Sample ID : **18686 MW-18R**

Matrix: **Aqueous**
Sampled: **7/5/2023 15:21**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 04:16 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 99.8 | | Limits: 80-124% | | 1 | 07/14/23 04:16 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 102 | | Limits: 75-129% | | 1 | 07/14/23 04:16 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 104 | | Limits: 63-136% | | 1 | 07/14/23 04:16 | MSA | V35352 |
| Surrogate: Toluene-d8 | 99.2 | | Limits: 77-123% | | 1 | 07/14/23 04:16 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89073**
Sample ID : **18686 MW-18R**

Matrix: **Aqueous**
Sampled: **7/5/2023 15:21**

**Analytical Method:** 8011 **Prep Batch(es):** **V35225** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00337 | µg/L | 0.00337 | 0.0204 | 1 | 07/12/23 16:50 | TJW | V35261 |
| Surrogate: 4-Bromofluorobenzene | 116 | | Limits: 70-130% | | 1 | 07/12/23 16:50 | TJW | V35261 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/14/23 04:16 | MSA | V35352 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 04:16 | MSA | V35352 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/14/23 04:16 | MSA | V35352 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 04:16 | MSA | V35352 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/14/23 04:16 | MSA | V35352 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 04:16 | MSA | V35352 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/14/23 04:16 | MSA | V35352 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/14/23 04:16 | MSA | V35352 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/14/23 04:16 | MSA | V35352 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 04:16 | MSA | V35352 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/14/23 04:16 | MSA | V35352 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/14/23 04:16 | MSA | V35352 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/14/23 04:16 | MSA | V35352 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 04:16 | MSA | V35352 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/14/23 04:16 | MSA | V35352 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89073**
Sample ID : **18686 MW-18R**

Matrix: **Aqueous**
Sampled: **7/5/2023 15:21**

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 04:16 | | V35352 |
| Surrogate: 4-Bromofluorobenzene | 99.8 | | Limits: 80-124% | | 1 | 07/14/23 04:16 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 102 | | Limits: 75-129% | | 1 | 07/14/23 04:16 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 104 | | Limits: 63-136% | | 1 | 07/14/23 04:16 | MSA | V35352 |
| Surrogate: Toluene-d8 | 99.2 | | Limits: 77-123% | | 1 | 07/14/23 04:16 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89074**
Sample ID : **18686 MW-21**

Matrix: **Aqueous**
Sampled: **7/6/2023 10:10**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 04:41 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 101 | | Limits: 80-124% | | 1 | 07/14/23 04:41 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 1 | 07/14/23 04:41 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 97.0 | | Limits: 63-136% | | 1 | 07/14/23 04:41 | MSA | V35352 |
| Surrogate: Toluene-d8 | 99.6 | | Limits: 77-123% | | 1 | 07/14/23 04:41 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
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Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89074**
Sample ID : **18686 MW-21**

Matrix: **Aqueous**
Sampled: **7/6/2023 10:10**

**Analytical Method:** 8011 **Prep Batch(es):** **V35225** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00335 | µg/L | 0.00335 | 0.0203 | 1 | 07/12/23 17:12 | TJW | V35261 |
| Surrogate: 4-Bromofluorobenzene | 114 | | Limits: 70-130% | | 1 | 07/12/23 17:12 | TJW | V35261 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/14/23 04:41 | MSA | V35352 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 04:41 | MSA | V35352 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/14/23 04:41 | MSA | V35352 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 04:41 | MSA | V35352 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/14/23 04:41 | MSA | V35352 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 04:41 | MSA | V35352 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/14/23 04:41 | MSA | V35352 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/14/23 04:41 | MSA | V35352 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/14/23 04:41 | MSA | V35352 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 04:41 | MSA | V35352 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/14/23 04:41 | MSA | V35352 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/14/23 04:41 | MSA | V35352 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/14/23 04:41 | MSA | V35352 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 04:41 | MSA | V35352 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/14/23 04:41 | MSA | V35352 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89074**
Sample ID : **18686 MW-21**

Matrix: **Aqueous**
Sampled: **7/6/2023 10:10**

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 04:41 | | V35352 |
| Surrogate: 4-Bromofluorobenzene | 101 | | Limits: 80-124% | | 1 | 07/14/23 04:41 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 1 | 07/14/23 04:41 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 97.0 | | Limits: 63-136% | | 1 | 07/14/23 04:41 | MSA | V35352 |
| Surrogate: Toluene-d8 | 99.6 | | Limits: 77-123% | | 1 | 07/14/23 04:41 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Date : 07/20/2023
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Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89075**
Sample ID : **18686 MW-23**

Matrix: **Aqueous**
Sampled: **7/6/2023 10:21**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 05:06 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1 | 07/14/23 05:06 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 99.6 | | Limits: 75-129% | | 1 | 07/14/23 05:06 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 97.2 | | Limits: 63-136% | | 1 | 07/14/23 05:06 | MSA | V35352 |
| Surrogate: Toluene-d8 | 99.8 | | Limits: 77-123% | | 1 | 07/14/23 05:06 | MSA | V35352 |
| Surrogate: 4-Bromofluorobenzene | 97.8 | | Limits: 80-124% | | 10 | 07/14/23 05:30 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 99.8 | | Limits: 75-129% | | 10 | 07/14/23 05:30 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 99.8 | | Limits: 63-136% | | 10 | 07/14/23 05:30 | MSA | V35352 |
| Surrogate: Toluene-d8 | 99.2 | | Limits: 77-123% | | 10 | 07/14/23 05:30 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Tisdales Quick Stop
Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89075**
Sample ID : **18686 MW-23**

Matrix: **Aqueous**
Sampled: **7/6/2023 10:21**

**Analytical Method:** 8011 **Prep Batch(es):** **V35226** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00335 | µg/L | 0.00335 | 0.0203 | 1 | 07/12/23 18:32 | AMP | V35272 |
| Surrogate: 4-Bromofluorobenzene | 121 | | Limits: 70-130% | | 1 | 07/12/23 18:32 | AMP | V35272 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/14/23 05:06 | MSA | V35352 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 05:06 | MSA | V35352 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/14/23 05:06 | MSA | V35352 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 05:06 | MSA | V35352 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/14/23 05:06 | MSA | V35352 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 05:06 | MSA | V35352 |
| Methyl tert-butyl ether (MTBE) | **19.7** | µg/L | 0.140 | 0.500 | 1 | 07/14/23 05:06 | MSA | V35352 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/14/23 05:06 | MSA | V35352 |
| tert-Butyl Alcohol (TBA) | **18.8** | µg/L | 1.60 | 10.0 | 1 | 07/14/23 05:06 | MSA | V35352 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 05:06 | MSA | V35352 |
| tert-Amyl Alcohol (TAA) | **366** | µg/L | 19.0 | 100 | 10 | 07/14/23 05:30 | MSA | V35352 |
| tert-Amyl Methyl Ether (TAME) | **2.32 J** | µg/L | 0.280 | 10.0 | 1 | 07/14/23 05:06 | MSA | V35352 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/14/23 05:06 | MSA | V35352 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 05:06 | MSA | V35352 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/14/23 05:06 | MSA | V35352 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89075**
Sample ID : **18686 MW-23**

Matrix: **Aqueous**
Sampled: **7/6/2023 10:21**

**Analytical Method:** 8260D **Prep Batch(es):** **V35351** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 05:06 | | V35352 |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1 | 07/14/23 05:06 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 99.6 | | Limits: 75-129% | | 1 | 07/14/23 05:06 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 97.2 | | Limits: 63-136% | | 1 | 07/14/23 05:06 | MSA | V35352 |
| Surrogate: Toluene-d8 | 99.8 | | Limits: 77-123% | | 1 | 07/14/23 05:06 | MSA | V35352 |
| Surrogate: 4-Bromofluorobenzene | 97.8 | | Limits: 80-124% | | 10 | 07/14/23 05:30 | MSA | V35352 |
| Surrogate: Dibromofluoromethane | 99.8 | | Limits: 75-129% | | 10 | 07/14/23 05:30 | MSA | V35352 |
| Surrogate: 1,2-Dichloroethane - d4 | 99.8 | | Limits: 63-136% | | 10 | 07/14/23 05:30 | MSA | V35352 |
| Surrogate: Toluene-d8 | 99.2 | | Limits: 77-123% | | 10 | 07/14/23 05:30 | MSA | V35352 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89076**
Sample ID : **18686 MW-25**

Matrix: **Aqueous**
Sampled: **7/6/2023 9:53**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/13/23 22:52 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 101 | | Limits: 80-124% | | 1 | 07/13/23 22:52 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 101 | | Limits: 75-129% | | 1 | 07/13/23 22:52 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 97.8 | | Limits: 63-136% | | 1 | 07/13/23 22:52 | MSA | V35336 |
| Surrogate: Toluene-d8 | 100 | | Limits: 77-123% | | 1 | 07/13/23 22:52 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89076**
Sample ID : **18686 MW-25**

Matrix: **Aqueous**
Sampled: **7/6/2023 9:53**

**Analytical Method:** 8011 **Prep Batch(es):** **V35226** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00335 | µg/L | 0.00335 | 0.0203 | 1 | 07/12/23 18:52 | AMP | V35272 |
| Surrogate: 4-Bromofluorobenzene | 123 | | Limits: 70-130% | | 1 | 07/12/23 18:52 | AMP | V35272 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/13/23 22:52 | MSA | V35336 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/13/23 22:52 | MSA | V35336 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/13/23 22:52 | MSA | V35336 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/13/23 22:52 | MSA | V35336 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/13/23 22:52 | MSA | V35336 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/13/23 22:52 | MSA | V35336 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/13/23 22:52 | MSA | V35336 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/13/23 22:52 | MSA | V35336 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/13/23 22:52 | MSA | V35336 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/13/23 22:52 | MSA | V35336 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/13/23 22:52 | MSA | V35336 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/13/23 22:52 | MSA | V35336 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/13/23 22:52 | MSA | V35336 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/13/23 22:52 | MSA | V35336 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/13/23 22:52 | MSA | V35336 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89076**
Sample ID : **18686 MW-25**

Matrix: **Aqueous**
Sampled: **7/6/2023 9:53**

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/13/23 22:52 | | V35336 |
| Surrogate: 4-Bromofluorobenzene | 101 | | Limits: 80-124% | | 1 | 07/13/23 22:52 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 101 | | Limits: 75-129% | | 1 | 07/13/23 22:52 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 97.8 | | Limits: 63-136% | | 1 | 07/13/23 22:52 | MSA | V35336 |
| Surrogate: Toluene-d8 | 100 | | Limits: 77-123% | | 1 | 07/13/23 22:52 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89077**
Sample ID : **18686 MW-26**

Matrix: **Aqueous**
Sampled: **7/6/2023 9:32**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/13/23 23:19 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1 | 07/13/23 23:19 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 101 | | Limits: 75-129% | | 1 | 07/13/23 23:19 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.0 | | Limits: 63-136% | | 1 | 07/13/23 23:19 | MSA | V35336 |
| Surrogate: Toluene-d8 | 98.4 | | Limits: 77-123% | | 1 | 07/13/23 23:19 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89077**
Sample ID : **18686 MW-26**

Matrix: **Aqueous**
Sampled: **7/6/2023 9:32**

**Analytical Method:** 8011 **Prep Batch(es):** **V35226** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00340 | µg/L | 0.00340 | 0.0206 | 1 | 07/12/23 19:12 | AMP | V35272 |
| Surrogate: 4-Bromofluorobenzene | 113 | | Limits: 70-130% | | 1 | 07/12/23 19:12 | AMP | V35272 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/13/23 23:19 | MSA | V35336 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/13/23 23:19 | MSA | V35336 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/13/23 23:19 | MSA | V35336 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/13/23 23:19 | MSA | V35336 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/13/23 23:19 | MSA | V35336 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/13/23 23:19 | MSA | V35336 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/13/23 23:19 | MSA | V35336 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/13/23 23:19 | MSA | V35336 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/13/23 23:19 | MSA | V35336 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/13/23 23:19 | MSA | V35336 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/13/23 23:19 | MSA | V35336 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/13/23 23:19 | MSA | V35336 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/13/23 23:19 | MSA | V35336 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/13/23 23:19 | MSA | V35336 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/13/23 23:19 | MSA | V35336 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89077**
Sample ID : **18686 MW-26**

Matrix: **Aqueous**
Sampled: **7/6/2023 9:32**

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/13/23 23:19 | | V35336 |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1 | 07/13/23 23:19 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 101 | | Limits: 75-129% | | 1 | 07/13/23 23:19 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.0 | | Limits: 63-136% | | 1 | 07/13/23 23:19 | MSA | V35336 |
| Surrogate: Toluene-d8 | 98.4 | | Limits: 77-123% | | 1 | 07/13/23 23:19 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89078**
Sample ID : **18686 MW-27**

Matrix: **Aqueous**
Sampled: **7/6/2023 9:42**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/13/23 23:47 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 101 | | Limits: 80-124% | | 1 | 07/13/23 23:47 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 102 | | Limits: 75-129% | | 1 | 07/13/23 23:47 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 99.0 | | Limits: 63-136% | | 1 | 07/13/23 23:47 | MSA | V35336 |
| Surrogate: Toluene-d8 | 99.0 | | Limits: 77-123% | | 1 | 07/13/23 23:47 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89078**
Sample ID : **18686 MW-27**

Matrix: **Aqueous**
Sampled: **7/6/2023 9:42**

**Analytical Method:** 8011 **Prep Batch(es):** **V35226** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00332 | µg/L | 0.00332 | 0.0201 | 1 | 07/12/23 19:32 | AMP | V35272 |
| Surrogate: 4-Bromofluorobenzene | 111 | | Limits: 70-130% | | 1 | 07/12/23 19:32 | AMP | V35272 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/13/23 23:47 | MSA | V35336 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/13/23 23:47 | MSA | V35336 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/13/23 23:47 | MSA | V35336 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/13/23 23:47 | MSA | V35336 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/13/23 23:47 | MSA | V35336 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/13/23 23:47 | MSA | V35336 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/13/23 23:47 | MSA | V35336 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/13/23 23:47 | MSA | V35336 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/13/23 23:47 | MSA | V35336 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/13/23 23:47 | MSA | V35336 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/13/23 23:47 | MSA | V35336 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/13/23 23:47 | MSA | V35336 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/13/23 23:47 | MSA | V35336 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/13/23 23:47 | MSA | V35336 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/13/23 23:47 | MSA | V35336 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89078**
Sample ID : **18686 MW-27**

Matrix: **Aqueous**
Sampled: **7/6/2023 9:42**

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/13/23 23:47 | | V35336 |
| Surrogate: 4-Bromofluorobenzene | 101 | | Limits: 80-124% | | 1 | 07/13/23 23:47 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 102 | | Limits: 75-129% | | 1 | 07/13/23 23:47 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 99.0 | | Limits: 63-136% | | 1 | 07/13/23 23:47 | MSA | V35336 |
| Surrogate: Toluene-d8 | 99.0 | | Limits: 77-123% | | 1 | 07/13/23 23:47 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89079**
Sample ID : **18686 MW-31**

Matrix: **Aqueous**
Sampled: **7/6/2023 9:20**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 00:14 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1 | 07/14/23 00:14 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 101 | | Limits: 75-129% | | 1 | 07/14/23 00:14 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.0 | | Limits: 63-136% | | 1 | 07/14/23 00:14 | MSA | V35336 |
| Surrogate: Toluene-d8 | 99.6 | | Limits: 77-123% | | 1 | 07/14/23 00:14 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89079**
Sample ID : **18686 MW-31**

Matrix: **Aqueous**
Sampled: **7/6/2023 9:20**

**Analytical Method:** 8011 **Prep Batch(es):** **V35226** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00337 | µg/L | 0.00337 | 0.0204 | 1 | 07/12/23 19:52 | AMP | V35272 |
| Surrogate: 4-Bromofluorobenzene | 94.5 | | Limits: 70-130% | | 1 | 07/12/23 19:52 | AMP | V35272 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/14/23 00:14 | MSA | V35336 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 00:14 | MSA | V35336 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/14/23 00:14 | MSA | V35336 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 00:14 | MSA | V35336 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/14/23 00:14 | MSA | V35336 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 00:14 | MSA | V35336 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/14/23 00:14 | MSA | V35336 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/14/23 00:14 | MSA | V35336 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/14/23 00:14 | MSA | V35336 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 00:14 | MSA | V35336 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/14/23 00:14 | MSA | V35336 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/14/23 00:14 | MSA | V35336 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/14/23 00:14 | MSA | V35336 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 00:14 | MSA | V35336 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/14/23 00:14 | MSA | V35336 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Date : 07/20/2023
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Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89079**
Sample ID : **18686 MW-31**

Matrix: **Aqueous**
Sampled: **7/6/2023 9:20**

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 00:14 | | V35336 |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1 | 07/14/23 00:14 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 101 | | Limits: 75-129% | | 1 | 07/14/23 00:14 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.0 | | Limits: 63-136% | | 1 | 07/14/23 00:14 | MSA | V35336 |
| Surrogate: Toluene-d8 | 99.6 | | Limits: 77-123% | | 1 | 07/14/23 00:14 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
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Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89080**
Sample ID : **18686 MW-1A**

Matrix: **Aqueous**
Sampled: **7/5/2023 12:16**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <10.0 | µg/L | 10.0 | 100 | 10 | 07/14/23 03:00 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 10 | 07/14/23 03:00 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 102 | | Limits: 75-129% | | 10 | 07/14/23 03:00 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 99.2 | | Limits: 63-136% | | 10 | 07/14/23 03:00 | MSA | V35336 |
| Surrogate: Toluene-d8 | 100 | | Limits: 77-123% | | 10 | 07/14/23 03:00 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Date : 07/20/2023
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Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89080**
Sample ID : **18686 MW-1A**

Matrix: **Aqueous**
Sampled: **7/5/2023 12:16**

**Analytical Method:** 8011 **Prep Batch(es):** **V35226** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00335 | µg/L | 0.00335 | 0.0203 | 1 | 07/12/23 20:12 | AMP | V35272 |
| Surrogate: 4-Bromofluorobenzene | 111 | | Limits: 70-130% | | 1 | 07/12/23 20:12 | AMP | V35272 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | **228** | µg/L | 1.80 | 5.00 | 10 | 07/14/23 03:00 | MSA | V35336 |
| Di-Isopropyl Ether (DIPE) | <9.60 | µg/L | 9.60 | 50.0 | 10 | 07/14/23 03:00 | MSA | V35336 |
| 1,2-Dichloroethane | <1.50 | µg/L | 1.50 | 5.00 | 10 | 07/14/23 03:00 | MSA | V35336 |
| Ethanol | <420 | µg/L | 420 | 2000 | 10 | 07/14/23 03:00 | MSA | V35336 |
| Ethylbenzene | **2.72 J** | µg/L | 1.70 | 5.00 | 10 | 07/14/23 03:00 | MSA | V35336 |
| Ethyl Tertiary Butyl Ether (ETBE) | <18.0 | µg/L | 18.0 | 100 | 10 | 07/14/23 03:00 | MSA | V35336 |
| Methyl tert-butyl ether (MTBE) | **6.59** | µg/L | 1.40 | 5.00 | 10 | 07/14/23 03:00 | MSA | V35336 |
| Naphthalene | <4.70 | µg/L | 4.70 | 10.0 | 10 | 07/14/23 03:00 | MSA | V35336 |
| tert-Butyl Alcohol (TBA) | <16.0 | µg/L | 16.0 | 100 | 10 | 07/14/23 03:00 | MSA | V35336 |
| tert-Butyl formate (TBF) | <3.50 | µg/L | 3.50 | 100 | 10 | 07/14/23 03:00 | MSA | V35336 |
| tert-Amyl Alcohol (TAA) | **379** | µg/L | 19.0 | 100 | 10 | 07/14/23 03:00 | MSA | V35336 |
| tert-Amyl Methyl Ether (TAME) | <2.80 | µg/L | 2.80 | 100 | 10 | 07/14/23 03:00 | MSA | V35336 |
| Toluene | **79.2** | µg/L | 2.20 | 5.00 | 10 | 07/14/23 03:00 | MSA | V35336 |
| o-Xylene | **7.27** | µg/L | 2.10 | 5.00 | 10 | 07/14/23 03:00 | MSA | V35336 |
| m,p-Xylene | **14.8** | µg/L | 4.20 | 10.0 | 10 | 07/14/23 03:00 | MSA | V35336 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
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Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89080**
Sample ID : **18686 MW-1A**

Matrix: **Aqueous**
Sampled: **7/5/2023 12:16**

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | **22.1** | µg/L | 2.10 | 5.00 | 10 | 07/14/23 03:00 | | V35336 |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 10 | 07/14/23 03:00 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 102 | | Limits: 75-129% | | 10 | 07/14/23 03:00 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 99.2 | | Limits: 63-136% | | 10 | 07/14/23 03:00 | MSA | V35336 |
| Surrogate: Toluene-d8 | 100 | | Limits: 77-123% | | 10 | 07/14/23 03:00 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Date : 07/20/2023
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Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89081**
Sample ID : **18686 MW-2A**

Matrix: **Aqueous**
Sampled: **7/5/2023 12:05**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <100 | µg/L | 100 | 1000 | 100 | 07/14/23 03:55 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 101 | | Limits: 80-124% | | 100 | 07/14/23 03:55 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 98.4 | | Limits: 75-129% | | 100 | 07/14/23 03:55 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 99.8 | | Limits: 63-136% | | 100 | 07/14/23 03:55 | MSA | V35336 |
| Surrogate: Toluene-d8 | 99.8 | | Limits: 77-123% | | 100 | 07/14/23 03:55 | MSA | V35336 |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1000 | 07/14/23 04:23 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 101 | | Limits: 75-129% | | 1000 | 07/14/23 04:23 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 97.0 | | Limits: 63-136% | | 1000 | 07/14/23 04:23 | MSA | V35336 |
| Surrogate: Toluene-d8 | 98.8 | | Limits: 77-123% | | 1000 | 07/14/23 04:23 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89081**
Sample ID : **18686 MW-2A**

Matrix: **Aqueous**
Sampled: **7/5/2023 12:05**

**Analytical Method:** 8011 **Prep Batch(es):** **V35226** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | **0.125** | µg/L | 0.00337 | 0.0204 | 1 | 07/12/23 20:32 | AMP | V35272 |
| Surrogate: 4-Bromofluorobenzene | 94.9 | | Limits: 70-130% | | 1 | 07/12/23 20:32 | AMP | V35272 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | **28800** | µg/L | 180 | 500 | 1000 | 07/14/23 04:23 | MSA | V35336 |
| Di-Isopropyl Ether (DIPE) | <96.0 | µg/L | 96.0 | 500 | 100 | 07/14/23 03:55 | MSA | V35336 |
| 1,2-Dichloroethane | <15.0 | µg/L | 15.0 | 50.0 | 100 | 07/14/23 03:55 | MSA | V35336 |
| Ethanol | <4200 | µg/L | 4200 | 20000 | 100 | 07/14/23 03:55 | MSA | V35336 |
| Ethylbenzene | **2890** | µg/L | 17.0 | 50.0 | 100 | 07/14/23 03:55 | MSA | V35336 |
| Ethyl Tertiary Butyl Ether (ETBE) | <180 | µg/L | 180 | 1000 | 100 | 07/14/23 03:55 | MSA | V35336 |
| Methyl tert-butyl ether (MTBE) | **110** | µg/L | 14.0 | 50.0 | 100 | 07/14/23 03:55 | MSA | V35336 |
| Naphthalene | **723** | µg/L | 47.0 | 100 | 100 | 07/14/23 03:55 | MSA | V35336 |
| tert-Butyl Alcohol (TBA) | **168 J** | µg/L | 160 | 1000 | 100 | 07/14/23 03:55 | MSA | V35336 |
| tert-Butyl formate (TBF) | <35.0 | µg/L | 35.0 | 1000 | 100 | 07/14/23 03:55 | MSA | V35336 |
| tert-Amyl Alcohol (TAA) | **24300** | µg/L | 1900 | 10000 | 1000 | 07/14/23 04:23 | MSA | V35336 |
| tert-Amyl Methyl Ether (TAME) | **58.6 J** | µg/L | 28.0 | 1000 | 100 | 07/14/23 03:55 | MSA | V35336 |
| Toluene | **44700** | µg/L | 220 | 500 | 1000 | 07/14/23 04:23 | MSA | V35336 |
| o-Xylene | **4830** | µg/L | 21.0 | 50.0 | 100 | 07/14/23 03:55 | MSA | V35336 |
| m,p-Xylene | **9970** | µg/L | 42.0 | 100 | 100 | 07/14/23 03:55 | MSA | V35336 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89081**
Sample ID : **18686 MW-2A**

Matrix: **Aqueous**
Sampled: **7/5/2023 12:05**

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | **14800** | µg/L | 21.0 | 50.0 | 100 | 07/14/23 03:55 | | V35336 |
| Surrogate: 4-Bromofluorobenzene | 101 | | Limits: 80-124% | | 100 | 07/14/23 03:55 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 98.4 | | Limits: 75-129% | | 100 | 07/14/23 03:55 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 99.8 | | Limits: 63-136% | | 100 | 07/14/23 03:55 | MSA | V35336 |
| Surrogate: Toluene-d8 | 99.8 | | Limits: 77-123% | | 100 | 07/14/23 03:55 | MSA | V35336 |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1000 | 07/14/23 04:23 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 101 | | Limits: 75-129% | | 1000 | 07/14/23 04:23 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 97.0 | | Limits: 63-136% | | 1000 | 07/14/23 04:23 | MSA | V35336 |
| Surrogate: Toluene-d8 | 98.8 | | Limits: 77-123% | | 1000 | 07/14/23 04:23 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89082**
Sample ID : **18686 MW-4A**

Matrix: **Aqueous**
Sampled: **7/5/2023 12:26**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <100 | µg/L | 100 | 1000 | 100 | 07/14/23 04:51 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 100 | 07/14/23 04:51 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 99.2 | | Limits: 75-129% | | 100 | 07/14/23 04:51 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 99.0 | | Limits: 63-136% | | 100 | 07/14/23 04:51 | MSA | V35336 |
| Surrogate: Toluene-d8 | 98.0 | | Limits: 77-123% | | 100 | 07/14/23 04:51 | MSA | V35336 |
| Surrogate: 4-Bromofluorobenzene | 101 | | Limits: 80-124% | | 1000 | 07/14/23 05:18 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 102 | | Limits: 75-129% | | 1000 | 07/14/23 05:18 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.8 | | Limits: 63-136% | | 1000 | 07/14/23 05:18 | MSA | V35336 |
| Surrogate: Toluene-d8 | 98.8 | | Limits: 77-123% | | 1000 | 07/14/23 05:18 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Tisdales Quick Stop
Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89082**
Sample ID : **18686 MW-4A**

Matrix: **Aqueous**
Sampled: **7/5/2023 12:26**

**Analytical Method:** 8011 **Prep Batch(es):** **V35226** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | **0.0624** | µg/L | 0.00338 | 0.0205 | 1 | 07/12/23 20:51 | AMP | V35272 |
| Surrogate: 4-Bromofluorobenzene | 128 | | Limits: 70-130% | | 1 | 07/12/23 20:51 | AMP | V35272 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | **11500** | µg/L | 180 | 500 | 1000 | 07/14/23 05:18 | MSA | V35336 |
| Di-Isopropyl Ether (DIPE) | <96.0 | µg/L | 96.0 | 500 | 100 | 07/14/23 04:51 | MSA | V35336 |
| 1,2-Dichloroethane | <15.0 | µg/L | 15.0 | 50.0 | 100 | 07/14/23 04:51 | MSA | V35336 |
| Ethanol | <4200 | µg/L | 4200 | 20000 | 100 | 07/14/23 04:51 | MSA | V35336 |
| Ethylbenzene | **1640** | µg/L | 17.0 | 50.0 | 100 | 07/14/23 04:51 | MSA | V35336 |
| Ethyl Tertiary Butyl Ether (ETBE) | <180 | µg/L | 180 | 1000 | 100 | 07/14/23 04:51 | MSA | V35336 |
| Methyl tert-butyl ether (MTBE) | <14.0 | µg/L | 14.0 | 50.0 | 100 | 07/14/23 04:51 | MSA | V35336 |
| Naphthalene | **566** | µg/L | 47.0 | 100 | 100 | 07/14/23 04:51 | MSA | V35336 |
| tert-Butyl Alcohol (TBA) | <160 | µg/L | 160 | 1000 | 100 | 07/14/23 04:51 | MSA | V35336 |
| tert-Butyl formate (TBF) | <35.0 | µg/L | 35.0 | 1000 | 100 | 07/14/23 04:51 | MSA | V35336 |
| tert-Amyl Alcohol (TAA) | **3650** | µg/L | 190 | 1000 | 100 | 07/14/23 04:51 | MSA | V35336 |
| tert-Amyl Methyl Ether (TAME) | <28.0 | µg/L | 28.0 | 1000 | 100 | 07/14/23 04:51 | MSA | V35336 |
| Toluene | **35900** | µg/L | 220 | 500 | 1000 | 07/14/23 05:18 | MSA | V35336 |
| o-Xylene | **4760** | µg/L | 21.0 | 50.0 | 100 | 07/14/23 04:51 | MSA | V35336 |
| m,p-Xylene | **9080** | µg/L | 42.0 | 100 | 100 | 07/14/23 04:51 | MSA | V35336 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89082**
Sample ID : **18686 MW-4A**

Matrix: **Aqueous**
Sampled: **7/5/2023 12:26**

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | **13800** | µg/L | 21.0 | 50.0 | 100 | 07/14/23 04:51 | | V35336 |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 100 | 07/14/23 04:51 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 99.2 | | Limits: 75-129% | | 100 | 07/14/23 04:51 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 99.0 | | Limits: 63-136% | | 100 | 07/14/23 04:51 | MSA | V35336 |
| Surrogate: Toluene-d8 | 98.0 | | Limits: 77-123% | | 100 | 07/14/23 04:51 | MSA | V35336 |
| Surrogate: 4-Bromofluorobenzene | 101 | | Limits: 80-124% | | 1000 | 07/14/23 05:18 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 102 | | Limits: 75-129% | | 1000 | 07/14/23 05:18 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.8 | | Limits: 63-136% | | 1000 | 07/14/23 05:18 | MSA | V35336 |
| Surrogate: Toluene-d8 | 98.8 | | Limits: 77-123% | | 1000 | 07/14/23 05:18 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89083**
Sample ID : **18686 TW-1**

Matrix: **Aqueous**
Sampled: **7/6/2023 8:45**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 00:42 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1 | 07/14/23 00:42 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 102 | | Limits: 75-129% | | 1 | 07/14/23 00:42 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.2 | | Limits: 63-136% | | 1 | 07/14/23 00:42 | MSA | V35336 |
| Surrogate: Toluene-d8 | 99.6 | | Limits: 77-123% | | 1 | 07/14/23 00:42 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Date : 07/20/2023
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Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89083**
Sample ID : **18686 TW-1**

Matrix: **Aqueous**
Sampled: **7/6/2023 8:45**

**Analytical Method:** 8011 **Prep Batch(es):** **V35226** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00335 | µg/L | 0.00335 | 0.0203 | 1 | 07/12/23 21:11 | AMP | V35272 |
| Surrogate: 4-Bromofluorobenzene | 99.4 | | Limits: 70-130% | | 1 | 07/12/23 21:11 | AMP | V35272 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/14/23 00:42 | MSA | V35336 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 00:42 | MSA | V35336 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/14/23 00:42 | MSA | V35336 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 00:42 | MSA | V35336 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/14/23 00:42 | MSA | V35336 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 00:42 | MSA | V35336 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/14/23 00:42 | MSA | V35336 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/14/23 00:42 | MSA | V35336 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/14/23 00:42 | MSA | V35336 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 00:42 | MSA | V35336 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/14/23 00:42 | MSA | V35336 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/14/23 00:42 | MSA | V35336 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/14/23 00:42 | MSA | V35336 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 00:42 | MSA | V35336 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/14/23 00:42 | MSA | V35336 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89083**
Sample ID : **18686 TW-1**

Matrix: **Aqueous**
Sampled: **7/6/2023 8:45**

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 00:42 | | V35336 |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1 | 07/14/23 00:42 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 102 | | Limits: 75-129% | | 1 | 07/14/23 00:42 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.2 | | Limits: 63-136% | | 1 | 07/14/23 00:42 | MSA | V35336 |
| Surrogate: Toluene-d8 | 99.6 | | Limits: 77-123% | | 1 | 07/14/23 00:42 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89084**
Sample ID : **18686 TW-2**

Matrix: **Aqueous**
Sampled: **7/6/2023 10:49**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 01:10 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 103 | | Limits: 80-124% | | 1 | 07/14/23 01:10 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 102 | | Limits: 75-129% | | 1 | 07/14/23 01:10 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 99.2 | | Limits: 63-136% | | 1 | 07/14/23 01:10 | MSA | V35336 |
| Surrogate: Toluene-d8 | 99.0 | | Limits: 77-123% | | 1 | 07/14/23 01:10 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
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Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89084**
Sample ID : **18686 TW-2**

Matrix: **Aqueous**
Sampled: **7/6/2023 10:49**

**Analytical Method:** 8011 **Prep Batch(es):** **V35226** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00333 | µg/L | 0.00333 | 0.0202 | 1 | 07/12/23 21:30 | AMP | V35272 |
| Surrogate: 4-Bromofluorobenzene | 113 | | Limits: 70-130% | | 1 | 07/12/23 21:30 | AMP | V35272 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/14/23 01:10 | MSA | V35336 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 01:10 | MSA | V35336 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/14/23 01:10 | MSA | V35336 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 01:10 | MSA | V35336 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/14/23 01:10 | MSA | V35336 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 01:10 | MSA | V35336 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/14/23 01:10 | MSA | V35336 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/14/23 01:10 | MSA | V35336 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/14/23 01:10 | MSA | V35336 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 01:10 | MSA | V35336 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/14/23 01:10 | MSA | V35336 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/14/23 01:10 | MSA | V35336 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/14/23 01:10 | MSA | V35336 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 01:10 | MSA | V35336 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/14/23 01:10 | MSA | V35336 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89084**
Sample ID : **18686 TW-2**

Matrix: **Aqueous**
Sampled: **7/6/2023 10:49**

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 01:10 | | V35336 |
| Surrogate: 4-Bromofluorobenzene | 103 | | Limits: 80-124% | | 1 | 07/14/23 01:10 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 102 | | Limits: 75-129% | | 1 | 07/14/23 01:10 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 99.2 | | Limits: 63-136% | | 1 | 07/14/23 01:10 | MSA | V35336 |
| Surrogate: Toluene-d8 | 99.0 | | Limits: 77-123% | | 1 | 07/14/23 01:10 | MSA | V35336 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89085**
Sample ID : **18686 DUP-A**

Matrix: **Aqueous**
Sampled: **7/5/2023 14:43**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <100 | µg/L | 100 | 1000 | 100 | 07/14/23 05:46 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 100 | 07/14/23 05:46 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 99.8 | | Limits: 75-129% | | 100 | 07/14/23 05:46 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.6 | | Limits: 63-136% | | 100 | 07/14/23 05:46 | MSA | V35336 |
| Surrogate: Toluene-d8 | 99.2 | | Limits: 77-123% | | 100 | 07/14/23 05:46 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89085**
Sample ID : **18686 DUP-A**

Matrix: **Aqueous**
Sampled: **7/5/2023 14:43**

**Analytical Method:** 8011 **Prep Batch(es):** **V35226** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00340 | µg/L | 0.00340 | 0.0206 | 1 | 07/12/23 21:49 | AMP | V35272 |
| Surrogate: 4-Bromofluorobenzene | 113 | | Limits: 70-130% | | 1 | 07/12/23 21:49 | AMP | V35272 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | **6130** | µg/L | 18.0 | 50.0 | 100 | 07/14/23 05:46 | MSA | V35336 |
| Di-Isopropyl Ether (DIPE) | <96.0 | µg/L | 96.0 | 500 | 100 | 07/14/23 05:46 | MSA | V35336 |
| 1,2-Dichloroethane | <15.0 | µg/L | 15.0 | 50.0 | 100 | 07/14/23 05:46 | MSA | V35336 |
| Ethanol | <4200 | µg/L | 4200 | 20000 | 100 | 07/14/23 05:46 | MSA | V35336 |
| Ethylbenzene | **1090** | µg/L | 17.0 | 50.0 | 100 | 07/14/23 05:46 | MSA | V35336 |
| Ethyl Tertiary Butyl Ether (ETBE) | <180 | µg/L | 180 | 1000 | 100 | 07/14/23 05:46 | MSA | V35336 |
| Methyl tert-butyl ether (MTBE) | **142** | µg/L | 14.0 | 50.0 | 100 | 07/14/23 05:46 | MSA | V35336 |
| Naphthalene | **445** | µg/L | 47.0 | 100 | 100 | 07/14/23 05:46 | MSA | V35336 |
| tert-Butyl Alcohol (TBA) | **183 J** | µg/L | 160 | 1000 | 100 | 07/14/23 05:46 | MSA | V35336 |
| tert-Butyl formate (TBF) | <35.0 | µg/L | 35.0 | 1000 | 100 | 07/14/23 05:46 | MSA | V35336 |
| tert-Amyl Alcohol (TAA) | **9450** | µg/L | 190 | 1000 | 100 | 07/14/23 05:46 | MSA | V35336 |
| tert-Amyl Methyl Ether (TAME) | <28.0 | µg/L | 28.0 | 1000 | 100 | 07/14/23 05:46 | MSA | V35336 |
| Toluene | **8980** | µg/L | 22.0 | 50.0 | 100 | 07/14/23 05:46 | MSA | V35336 |
| o-Xylene | **2050** | µg/L | 21.0 | 50.0 | 100 | 07/14/23 05:46 | MSA | V35336 |
| m,p-Xylene | **4650** | µg/L | 42.0 | 100 | 100 | 07/14/23 05:46 | MSA | V35336 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89085**
Sample ID : **18686 DUP-A**

Matrix: **Aqueous**
Sampled: **7/5/2023 14:43**

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | **6700** | µg/L | 21.0 | 50.0 | 100 | 07/14/23 05:46 | | V35336 |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 100 | 07/14/23 05:46 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 99.8 | | Limits: 75-129% | | 100 | 07/14/23 05:46 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.6 | | Limits: 63-136% | | 100 | 07/14/23 05:46 | MSA | V35336 |
| Surrogate: Toluene-d8 | 99.2 | | Limits: 77-123% | | 100 | 07/14/23 05:46 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Tisdales Quick Stop

Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89086**
Sample ID : **18686 DUP-B**

Matrix: **Aqueous**
Sampled: **7/5/2023 14:25**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <100 | µg/L | 100 | 1000 | 100 | 07/14/23 06:41 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 101 | | Limits: 80-124% | | 100 | 07/14/23 06:41 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 99.8 | | Limits: 75-129% | | 100 | 07/14/23 06:41 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.2 | | Limits: 63-136% | | 100 | 07/14/23 06:41 | MSA | V35336 |
| Surrogate: Toluene-d8 | 97.6 | | Limits: 77-123% | | 100 | 07/14/23 06:41 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Date : 07/20/2023
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Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89086**
Sample ID : **18686 DUP-B**

Matrix: **Aqueous**
Sampled: **7/5/2023 14:25**

**Analytical Method:** 8011 **Prep Batch(es):** **V35226** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00338 | µg/L | 0.00338 | 0.0205 | 1 | 07/12/23 22:08 | AMP | V35272 |
| Surrogate: 4-Bromofluorobenzene | 98.8 | | Limits: 70-130% | | 1 | 07/12/23 22:08 | AMP | V35272 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | **7070** | µg/L | 18.0 | 50.0 | 100 | 07/14/23 06:41 | MSA | V35336 |
| Di-Isopropyl Ether (DIPE) | <96.0 | µg/L | 96.0 | 500 | 100 | 07/14/23 06:41 | MSA | V35336 |
| 1,2-Dichloroethane | <15.0 | µg/L | 15.0 | 50.0 | 100 | 07/14/23 06:41 | MSA | V35336 |
| Ethanol | <4200 | µg/L | 4200 | 20000 | 100 | 07/14/23 06:41 | MSA | V35336 |
| Ethylbenzene | **932** | µg/L | 17.0 | 50.0 | 100 | 07/14/23 06:41 | MSA | V35336 |
| Ethyl Tertiary Butyl Ether (ETBE) | <180 | µg/L | 180 | 1000 | 100 | 07/14/23 06:41 | MSA | V35336 |
| Methyl tert-butyl ether (MTBE) | <14.0 | µg/L | 14.0 | 50.0 | 100 | 07/14/23 06:41 | MSA | V35336 |
| Naphthalene | **435** | µg/L | 47.0 | 100 | 100 | 07/14/23 06:41 | MSA | V35336 |
| tert-Butyl Alcohol (TBA) | <160 | µg/L | 160 | 1000 | 100 | 07/14/23 06:41 | MSA | V35336 |
| tert-Butyl formate (TBF) | <35.0 | µg/L | 35.0 | 1000 | 100 | 07/14/23 06:41 | MSA | V35336 |
| tert-Amyl Alcohol (TAA) | **3440** | µg/L | 190 | 1000 | 100 | 07/14/23 06:41 | MSA | V35336 |
| tert-Amyl Methyl Ether (TAME) | <28.0 | µg/L | 28.0 | 1000 | 100 | 07/14/23 06:41 | MSA | V35336 |
| Toluene | **2820** | µg/L | 22.0 | 50.0 | 100 | 07/14/23 06:41 | MSA | V35336 |
| o-Xylene | **545** | µg/L | 21.0 | 50.0 | 100 | 07/14/23 06:41 | MSA | V35336 |
| m,p-Xylene | **3600** | µg/L | 42.0 | 100 | 100 | 07/14/23 06:41 | MSA | V35336 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89086**
Sample ID : **18686 DUP-B**

Matrix: **Aqueous**
Sampled: **7/5/2023 14:25**

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | **4150** | µg/L | 21.0 | 50.0 | 100 | 07/14/23 06:41 | | V35336 |
| Surrogate: 4-Bromofluorobenzene | 101 | | Limits: 80-124% | | 100 | 07/14/23 06:41 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 99.8 | | Limits: 75-129% | | 100 | 07/14/23 06:41 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.2 | | Limits: 63-136% | | 100 | 07/14/23 06:41 | MSA | V35336 |
| Surrogate: Toluene-d8 | 97.6 | | Limits: 77-123% | | 100 | 07/14/23 06:41 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Date : 07/20/2023
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Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89087**
Sample ID : **18686 MW-FB-1**

Matrix: **Aqueous**
Sampled: **7/5/2023 8:00**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 13:32 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 102 | | Limits: 80-124% | | 1 | 07/14/23 13:32 | MSA | V35397 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 1 | 07/14/23 13:32 | MSA | V35397 |
| Surrogate: 1,2-Dichloroethane - d4 | 101 | | Limits: 63-136% | | 1 | 07/14/23 13:32 | MSA | V35397 |
| Surrogate: Toluene-d8 | 101 | | Limits: 77-123% | | 1 | 07/14/23 13:32 | MSA | V35397 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Date : 07/20/2023
Received : 07/07/2023

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Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89087**
Sample ID : **18686 MW-FB-1**

Matrix: **Aqueous**
Sampled: **7/5/2023 8:00**

**Analytical Method:** 8011 **Prep Batch(es):** **V35226** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00335 | µg/L | 0.00335 | 0.0203 | 1 | 07/12/23 22:26 | AMP | V35272 |
| Surrogate: 4-Bromofluorobenzene | 101 | | Limits: 70-130% | | 1 | 07/12/23 22:26 | AMP | V35272 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35395** 07/14/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/14/23 13:32 | MSA | V35397 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 13:32 | MSA | V35397 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/14/23 13:32 | MSA | V35397 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 13:32 | MSA | V35397 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/14/23 13:32 | MSA | V35397 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 13:32 | MSA | V35397 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/14/23 13:32 | MSA | V35397 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/14/23 13:32 | MSA | V35397 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/14/23 13:32 | MSA | V35397 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 13:32 | MSA | V35397 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/14/23 13:32 | MSA | V35397 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/14/23 13:32 | MSA | V35397 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/14/23 13:32 | MSA | V35397 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 13:32 | MSA | V35397 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/14/23 13:32 | MSA | V35397 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89087**
Sample ID : **18686 MW-FB-1**

Matrix: **Aqueous**
Sampled: **7/5/2023 8:00**

**Analytical Method:** 8260D **Prep Batch(es):** **V35395** 07/14/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 13:32 | | V35397 |
| Surrogate: 4-Bromofluorobenzene | 102 | | Limits: 80-124% | | 1 | 07/14/23 13:32 | MSA | V35397 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 1 | 07/14/23 13:32 | MSA | V35397 |
| Surrogate: 1,2-Dichloroethane - d4 | 101 | | Limits: 63-136% | | 1 | 07/14/23 13:32 | MSA | V35397 |
| Surrogate: Toluene-d8 | 101 | | Limits: 77-123% | | 1 | 07/14/23 13:32 | MSA | V35397 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89088**
Sample ID : **18686 MW-FB-2**

Matrix: **Aqueous**
Sampled: **7/6/2023 8:05**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 13:56 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 101 | | Limits: 80-124% | | 1 | 07/14/23 13:56 | MSA | V35397 |
| Surrogate: Dibromofluoromethane | 101 | | Limits: 75-129% | | 1 | 07/14/23 13:56 | MSA | V35397 |
| Surrogate: 1,2-Dichloroethane - d4 | 102 | | Limits: 63-136% | | 1 | 07/14/23 13:56 | MSA | V35397 |
| Surrogate: Toluene-d8 | 98.6 | | Limits: 77-123% | | 1 | 07/14/23 13:56 | MSA | V35397 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89088**
Sample ID : **18686 MW-FB-2**

Matrix: **Aqueous**
Sampled: **7/6/2023 8:05**

**Analytical Method:** 8011 **Prep Batch(es):** **V35226** 07/12/23 09:21
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00337 | µg/L | 0.00337 | 0.0204 | 1 | 07/12/23 22:44 | AMP | V35272 |
| Surrogate: 4-Bromofluorobenzene | 106 | | Limits: 70-130% | | 1 | 07/12/23 22:44 | AMP | V35272 |

**Analytical Method:** 8260D **Prep Batch(es):** **V35395** 07/14/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/14/23 13:56 | MSA | V35397 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 13:56 | MSA | V35397 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/14/23 13:56 | MSA | V35397 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 13:56 | MSA | V35397 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/14/23 13:56 | MSA | V35397 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 13:56 | MSA | V35397 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/14/23 13:56 | MSA | V35397 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/14/23 13:56 | MSA | V35397 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/14/23 13:56 | MSA | V35397 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 13:56 | MSA | V35397 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/14/23 13:56 | MSA | V35397 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/14/23 13:56 | MSA | V35397 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/14/23 13:56 | MSA | V35397 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 13:56 | MSA | V35397 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/14/23 13:56 | MSA | V35397 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89088**
Sample ID : **18686 MW-FB-2**

Matrix: **Aqueous**
Sampled: **7/6/2023 8:05**

**Analytical Method:** 8260D **Prep Batch(es):** **V35395** 07/14/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 13:56 | | V35397 |
| Surrogate: 4-Bromofluorobenzene | 101 | | Limits: 80-124% | | 1 | 07/14/23 13:56 | MSA | V35397 |
| Surrogate: Dibromofluoromethane | 101 | | Limits: 75-129% | | 1 | 07/14/23 13:56 | MSA | V35397 |
| Surrogate: 1,2-Dichloroethane - d4 | 102 | | Limits: 63-136% | | 1 | 07/14/23 13:56 | MSA | V35397 |
| Surrogate: Toluene-d8 | 98.6 | | Limits: 77-123% | | 1 | 07/14/23 13:56 | MSA | V35397 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89089**
Sample ID : **18686 MW-TB**

Matrix: **Aqueous**
Sampled: **7/5/2023 7:45**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 14:21 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1 | 07/14/23 14:21 | MSA | V35397 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 1 | 07/14/23 14:21 | MSA | V35397 |
| Surrogate: 1,2-Dichloroethane - d4 | 97.8 | | Limits: 63-136% | | 1 | 07/14/23 14:21 | MSA | V35397 |
| Surrogate: Toluene-d8 | 101 | | Limits: 77-123% | | 1 | 07/14/23 14:21 | MSA | V35397 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89089**
Sample ID : **18686 MW-TB**

Matrix: **Aqueous**
Sampled: **7/5/2023 7:45**

**Analytical Method:** 8260D **Prep Batch(es):** **V35395** 07/14/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/14/23 14:21 | MSA | V35397 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 14:21 | MSA | V35397 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/14/23 14:21 | MSA | V35397 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 14:21 | MSA | V35397 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/14/23 14:21 | MSA | V35397 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 14:21 | MSA | V35397 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/14/23 14:21 | MSA | V35397 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/14/23 14:21 | MSA | V35397 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/14/23 14:21 | MSA | V35397 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 14:21 | MSA | V35397 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/14/23 14:21 | MSA | V35397 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/14/23 14:21 | MSA | V35397 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/14/23 14:21 | MSA | V35397 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 14:21 | MSA | V35397 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/14/23 14:21 | MSA | V35397 |
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/14/23 14:21 | | V35397 |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1 | 07/14/23 14:21 | MSA | V35397 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 1 | 07/14/23 14:21 | MSA | V35397 |
| Surrogate: 1,2-Dichloroethane - d4 | 97.8 | | Limits: 63-136% | | 1 | 07/14/23 14:21 | MSA | V35397 |
| Surrogate: Toluene-d8 | 101 | | Limits: 77-123% | | 1 | 07/14/23 14:21 | MSA | V35397 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Tisdales Quick Stop

Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89090**
Sample ID : **18686 WSW-1**

Matrix: **Aqueous**
Sampled: **7/6/2023 11:30**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 01:37 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 102 | | Limits: 80-124% | | 1 | 07/14/23 01:37 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 101 | | Limits: 75-129% | | 1 | 07/14/23 01:37 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 97.2 | | Limits: 63-136% | | 1 | 07/14/23 01:37 | MSA | V35336 |
| Surrogate: Toluene-d8 | 98.8 | | Limits: 77-123% | | 1 | 07/14/23 01:37 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89090**
Sample ID : **18686 WSW-1**

Matrix: **Aqueous**
Sampled: **7/6/2023 11:30**

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 01:37 | MSA | V35336 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 01:37 | MSA | V35336 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 01:37 | MSA | V35336 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/14/23 01:37 | MSA | V35336 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 01:37 | MSA | V35336 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/14/23 01:37 | MSA | V35336 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/14/23 01:37 | MSA | V35336 |
| Surrogate: 4-Bromofluorobenzene | 102 | | Limits: 80-124% | | 1 | 07/14/23 01:37 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 101 | | Limits: 75-129% | | 1 | 07/14/23 01:37 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 97.2 | | Limits: 63-136% | | 1 | 07/14/23 01:37 | MSA | V35336 |
| Surrogate: Toluene-d8 | 98.8 | | Limits: 77-123% | | 1 | 07/14/23 01:37 | MSA | V35336 |

**Analytical Method:** EPA-504.1 **Prep Batch(es):** **V35162** 07/11/23 09:46
**Prep Method:** EPA-504.1(PREP)

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.0205 | µg/L | | 0.0205 | 1 | 07/11/23 15:11 | TJW | V35214 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89091**
Sample ID : **18686 WSW-3**

Matrix: **Aqueous**
Sampled: **7/6/2023 11:50**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 02:05 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 99.6 | | Limits: 80-124% | | 1 | 07/14/23 02:05 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 103 | | Limits: 75-129% | | 1 | 07/14/23 02:05 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.2 | | Limits: 63-136% | | 1 | 07/14/23 02:05 | MSA | V35336 |
| Surrogate: Toluene-d8 | 101 | | Limits: 77-123% | | 1 | 07/14/23 02:05 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Tisdales Quick Stop
Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89091**
Sample ID : **18686 WSW-3**

Matrix: **Aqueous**
Sampled: **7/6/2023 11:50**

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 02:05 | MSA | V35336 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 02:05 | MSA | V35336 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 02:05 | MSA | V35336 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/14/23 02:05 | MSA | V35336 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 02:05 | MSA | V35336 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/14/23 02:05 | MSA | V35336 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/14/23 02:05 | MSA | V35336 |
| Surrogate: 4-Bromofluorobenzene | 99.6 | | Limits: 80-124% | | 1 | 07/14/23 02:05 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 103 | | Limits: 75-129% | | 1 | 07/14/23 02:05 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.2 | | Limits: 63-136% | | 1 | 07/14/23 02:05 | MSA | V35336 |
| Surrogate: Toluene-d8 | 101 | | Limits: 77-123% | | 1 | 07/14/23 02:05 | MSA | V35336 |

**Analytical Method:** EPA-504.1 **Prep Batch(es):** **V35162** 07/11/23 09:46
**Prep Method:** EPA-504.1(PREP)

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.0208 | µg/L | | 0.0208 | 1 | 07/11/23 15:34 | TJW | V35214 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Tisdales Quick Stop

Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89092**
Sample ID : **18686 DUP-C**

Matrix: **Aqueous**
Sampled: **7/6/2023 11:31**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 02:33 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1 | 07/14/23 02:33 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 102 | | Limits: 75-129% | | 1 | 07/14/23 02:33 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.4 | | Limits: 63-136% | | 1 | 07/14/23 02:33 | MSA | V35336 |
| Surrogate: Toluene-d8 | 98.8 | | Limits: 77-123% | | 1 | 07/14/23 02:33 | MSA | V35336 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89092**
Sample ID : **18686 DUP-C**

Matrix: **Aqueous**
Sampled: **7/6/2023 11:31**

**Analytical Method:** 8260D **Prep Batch(es):** **V35335** 07/13/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 02:33 | MSA | V35336 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 02:33 | MSA | V35336 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 02:33 | MSA | V35336 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/14/23 02:33 | MSA | V35336 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 02:33 | MSA | V35336 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/14/23 02:33 | MSA | V35336 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/14/23 02:33 | MSA | V35336 |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1 | 07/14/23 02:33 | MSA | V35336 |
| Surrogate: Dibromofluoromethane | 102 | | Limits: 75-129% | | 1 | 07/14/23 02:33 | MSA | V35336 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.4 | | Limits: 63-136% | | 1 | 07/14/23 02:33 | MSA | V35336 |
| Surrogate: Toluene-d8 | 98.8 | | Limits: 77-123% | | 1 | 07/14/23 02:33 | MSA | V35336 |

**Analytical Method:** EPA-504.1 **Prep Batch(es):** **V35162** 07/11/23 09:46
**Prep Method:** EPA-504.1(PREP)

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.0207 | µg/L | | 0.0207 | 1 | 07/11/23 15:56 | TJW | V35214 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Tisdales Quick Stop
Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Danyale Love
Project Manager

Lab No : **89093**
Sample ID : **18686 WSW-FB**

Matrix: **Aqueous**
Sampled: **7/6/2023 9:00**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 14:46 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1 | 07/14/23 14:46 | MSA | V35397 |
| Surrogate: Dibromofluoromethane | 99.4 | | Limits: 75-129% | | 1 | 07/14/23 14:46 | MSA | V35397 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.2 | | Limits: 63-136% | | 1 | 07/14/23 14:46 | MSA | V35397 |
| Surrogate: Toluene-d8 | 99.6 | | Limits: 77-123% | | 1 | 07/14/23 14:46 | MSA | V35397 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Tisdales Quick Stop
Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89093**
Sample ID : **18686 WSW-FB**

Matrix: **Aqueous**
Sampled: **7/6/2023 9:00**

**Analytical Method:** 8260D **Prep Batch(es):** **V35395** 07/14/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 14:46 | MSA | V35397 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 14:46 | MSA | V35397 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 14:46 | MSA | V35397 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/14/23 14:46 | MSA | V35397 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 14:46 | MSA | V35397 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/14/23 14:46 | MSA | V35397 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/14/23 14:46 | MSA | V35397 |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 80-124% | | 1 | 07/14/23 14:46 | MSA | V35397 |
| Surrogate: Dibromofluoromethane | 99.4 | | Limits: 75-129% | | 1 | 07/14/23 14:46 | MSA | V35397 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.2 | | Limits: 63-136% | | 1 | 07/14/23 14:46 | MSA | V35397 |
| Surrogate: Toluene-d8 | 99.6 | | Limits: 77-123% | | 1 | 07/14/23 14:46 | MSA | V35397 |

**Analytical Method:** EPA-504.1 **Prep Batch(es):** **V35162** 07/11/23 09:46
**Prep Method:** EPA-504.1(PREP)

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.0205 | µg/L | | 0.0205 | 1 | 07/11/23 16:16 | TJW | V35214 |

**Qualifiers/ Definitions**
DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89094**
Sample ID : **18686 WSW-TB**

Matrix: **Aqueous**
Sampled: **7/6/2023 8:00**

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Method |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/14/23 15:11 | MSA | 8260D |
| Surrogate: 4-Bromofluorobenzene | 101 | | Limits: 80-124% | | 1 | 07/14/23 15:11 | MSA | V35397 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 1 | 07/14/23 15:11 | MSA | V35397 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.8 | | Limits: 63-136% | | 1 | 07/14/23 15:11 | MSA | V35397 |
| Surrogate: Toluene-d8 | 99.8 | | Limits: 77-123% | | 1 | 07/14/23 15:11 | MSA | V35397 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

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Project Tisdales Quick Stop

Information : GRI #1543

Report Date : 07/20/2023
Received : 07/07/2023

Danyale Love
Project Manager

Report Number : **23-188-0021**

***REPORT OF ANALYSIS***

Lab No : **89094**
Sample ID : **18686 WSW-TB**

Matrix: **Aqueous**
Sampled: **7/6/2023 8:00**

**Analytical Method:** 8260D **Prep Batch(es):** **V35395** 07/14/23 09:00
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/14/23 15:11 | MSA | V35397 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/14/23 15:11 | MSA | V35397 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/14/23 15:11 | MSA | V35397 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/14/23 15:11 | MSA | V35397 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/14/23 15:11 | MSA | V35397 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/14/23 15:11 | MSA | V35397 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/14/23 15:11 | MSA | V35397 |
| Surrogate: 4-Bromofluorobenzene | 101 | | Limits: 80-124% | | 1 | 07/14/23 15:11 | MSA | V35397 |
| Surrogate: Dibromofluoromethane | 100 | | Limits: 75-129% | | 1 | 07/14/23 15:11 | MSA | V35397 |
| Surrogate: 1,2-Dichloroethane - d4 | 98.8 | | Limits: 63-136% | | 1 | 07/14/23 15:11 | MSA | V35397 |
| Surrogate: Toluene-d8 | 99.8 | | Limits: 77-123% | | 1 | 07/14/23 15:11 | MSA | V35397 |

**Qualifiers/ Definitions**

DF Dilution Factor
MQL Method Quantitation Limit
J Estimated value

**Pace Analytical Services, LLC**
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

July 14, 2023

Danyale Love
Waypoint Analytical, LLC
449 Springbrook Rd
Charlotte, NC 28217

RE: Project: 21-188-0021 (3885EXP)
Pace Project No.: 92676396

Dear Danyale Love:

Enclosed are the analytical results for sample(s) received by the laboratory on July 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Matthew Brainard
matthew.brainard@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Angela Overcash, Waypoint Analytical



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## CERTIFICATIONS

Project: 21-188-0021 (3885EXP)
Pace Project No.: 92676396

**Pace Analytical Services Charlotte**

South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 21-188-0021 (3885EXP)
Pace Project No.: 92676396

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **92676396001** | **18686 WSW-1** | Drinking Water | 07/06/23 11:30 | 07/10/23 15:45 |
| **92676396002** | **18686 WSW-3** | Drinking Water | 07/06/23 11:50 | 07/10/23 15:45 |
| **92676396003** | **18686 DUP-C** | Drinking Water | 07/06/23 11:31 | 07/10/23 15:45 |
| **92676396004** | **18686 WSW-FB** | Drinking Water | 07/06/23 09:00 | 07/10/23 15:45 |
| **92676396005** | **18686 WSW-TB** | Drinking Water | 07/06/23 08:00 | 07/10/23 15:45 |



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## SAMPLE ANALYTE COUNT

Project: 21-188-0021 (3885EXP)
Pace Project No.: 92676396

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **92676396001** | **18686 WSW-1** | EPA 524.2 | JJK | 11 | PASI-C |
| **92676396002** | **18686 WSW-3** | EPA 524.2 | JJK | 11 | PASI-C |
| **92676396003** | **18686 DUP-C** | EPA 524.2 | JJK | 11 | PASI-C |
| **92676396004** | **18686 WSW-FB** | EPA 524.2 | JJK | 11 | PASI-C |
| **92676396005** | **18686 WSW-TB** | EPA 524.2 | JJK | 11 | PASI-C |

PASI-C = Pace Analytical Services - Charlotte



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# ANALYTICAL RESULTS

Project: 21-188-0021 (3885EXP)
Pace Project No.: 92676396

**Sample: 18686 WSW-1** **Lab ID: 92676396001** Collected: 07/06/23 11:30 Received: 07/10/23 15:45 Matrix: Drinking Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **524.2 MSV SC List** | Analytical Method: EPA 524.2 | | | | | | | | |
| | Pace Analytical Services - Charlotte | | | | | | | | |
| Benzene | ND | mg/L | 0.00050 | 0.00021 | 1 | | 07/12/23 19:57 | 71-43-2 | |
| 1,2-Dichloroethane | ND | mg/L | 0.00050 | 0.00016 | 1 | | 07/12/23 19:57 | 107-06-2 | |
| Ethylbenzene | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/12/23 19:57 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | mg/L | 0.00050 | 0.00014 | 1 | | 07/12/23 19:57 | 1634-04-4 | |
| Naphthalene | ND | mg/L | 0.00050 | 0.00035 | 1 | | 07/12/23 19:57 | 91-20-3 | |
| Toluene | ND | mg/L | 0.00050 | 0.00020 | 1 | | 07/12/23 19:57 | 108-88-3 | |
| Xylene (Total) | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/12/23 19:57 | 1330-20-7 | |
| m&p-Xylene | ND | mg/L | 0.0010 | 0.00039 | 1 | | 07/12/23 19:57 | 179601-23-1 | |
| o-Xylene | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/12/23 19:57 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 85 | % | 70-130 | | 1 | | 07/12/23 19:57 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 112 | % | 70-130 | | 1 | | 07/12/23 19:57 | 460-00-4 | |

**Sample: 18686 WSW-3** **Lab ID: 92676396002** Collected: 07/06/23 11:50 Received: 07/10/23 15:45 Matrix: Drinking Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **524.2 MSV SC List** | Analytical Method: EPA 524.2 | | | | | | | | |
| | Pace Analytical Services - Charlotte | | | | | | | | |
| Benzene | ND | mg/L | 0.00050 | 0.00021 | 1 | | 07/12/23 20:23 | 71-43-2 | |
| 1,2-Dichloroethane | ND | mg/L | 0.00050 | 0.00016 | 1 | | 07/12/23 20:23 | 107-06-2 | |
| Ethylbenzene | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/12/23 20:23 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | mg/L | 0.00050 | 0.00014 | 1 | | 07/12/23 20:23 | 1634-04-4 | |
| Naphthalene | ND | mg/L | 0.00050 | 0.00035 | 1 | | 07/12/23 20:23 | 91-20-3 | |
| Toluene | ND | mg/L | 0.00050 | 0.00020 | 1 | | 07/12/23 20:23 | 108-88-3 | |
| Xylene (Total) | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/12/23 20:23 | 1330-20-7 | |
| m&p-Xylene | ND | mg/L | 0.0010 | 0.00039 | 1 | | 07/12/23 20:23 | 179601-23-1 | |
| o-Xylene | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/12/23 20:23 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 105 | % | 70-130 | | 1 | | 07/12/23 20:23 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 117 | % | 70-130 | | 1 | | 07/12/23 20:23 | 460-00-4 | |

**Sample: 18686 DUP-C** **Lab ID: 92676396003** Collected: 07/06/23 11:31 Received: 07/10/23 15:45 Matrix: Drinking Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **524.2 MSV SC List** | Analytical Method: EPA 524.2 | | | | | | | | |
| | Pace Analytical Services - Charlotte | | | | | | | | |
| Benzene | ND | mg/L | 0.00050 | 0.00021 | 1 | | 07/12/23 20:49 | 71-43-2 | |
| 1,2-Dichloroethane | ND | mg/L | 0.00050 | 0.00016 | 1 | | 07/12/23 20:49 | 107-06-2 | |
| Ethylbenzene | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/12/23 20:49 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | mg/L | 0.00050 | 0.00014 | 1 | | 07/12/23 20:49 | 1634-04-4 | |

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## ANALYTICAL RESULTS

Project: 21-188-0021 (3885EXP)
Pace Project No.: 92676396

**Sample: 18686 DUP-C** **Lab ID: 92676396003** Collected: 07/06/23 11:31 Received: 07/10/23 15:45 Matrix: Drinking Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **524.2 MSV SC List** | Analytical Method: EPA 524.2 | | | | | | | | |
| | Pace Analytical Services - Charlotte | | | | | | | | |
| Naphthalene | ND | mg/L | 0.00050 | 0.00035 | 1 | | 07/12/23 20:49 | 91-20-3 | |
| Toluene | ND | mg/L | 0.00050 | 0.00020 | 1 | | 07/12/23 20:49 | 108-88-3 | |
| Xylene (Total) | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/12/23 20:49 | 1330-20-7 | |
| m&p-Xylene | ND | mg/L | 0.0010 | 0.00039 | 1 | | 07/12/23 20:49 | 179601-23-1 | |
| o-Xylene | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/12/23 20:49 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 107 | % | 70-130 | | 1 | | 07/12/23 20:49 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 115 | % | 70-130 | | 1 | | 07/12/23 20:49 | 460-00-4 | |

**Sample: 18686 WSW-FB** **Lab ID: 92676396004** Collected: 07/06/23 09:00 Received: 07/10/23 15:45 Matrix: Drinking Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **524.2 MSV SC List** | Analytical Method: EPA 524.2 | | | | | | | | |
| | Pace Analytical Services - Charlotte | | | | | | | | |
| Benzene | ND | mg/L | 0.00050 | 0.00021 | 1 | | 07/12/23 15:33 | 71-43-2 | |
| 1,2-Dichloroethane | ND | mg/L | 0.00050 | 0.00016 | 1 | | 07/12/23 15:33 | 107-06-2 | |
| Ethylbenzene | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/12/23 15:33 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | mg/L | 0.00050 | 0.00014 | 1 | | 07/12/23 15:33 | 1634-04-4 | |
| Naphthalene | ND | mg/L | 0.00050 | 0.00035 | 1 | | 07/12/23 15:33 | 91-20-3 | |
| Toluene | ND | mg/L | 0.00050 | 0.00020 | 1 | | 07/12/23 15:33 | 108-88-3 | |
| Xylene (Total) | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/12/23 15:33 | 1330-20-7 | |
| m&p-Xylene | ND | mg/L | 0.0010 | 0.00039 | 1 | | 07/12/23 15:33 | 179601-23-1 | |
| o-Xylene | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/12/23 15:33 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 89 | % | 70-130 | | 1 | | 07/12/23 15:33 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 88 | % | 70-130 | | 1 | | 07/12/23 15:33 | 460-00-4 | |

**Sample: 18686 WSW-TB** **Lab ID: 92676396005** Collected: 07/06/23 08:00 Received: 07/10/23 15:45 Matrix: Drinking Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **524.2 MSV SC List** | Analytical Method: EPA 524.2 | | | | | | | | |
| | Pace Analytical Services - Charlotte | | | | | | | | |
| Benzene | ND | mg/L | 0.00050 | 0.00021 | 1 | | 07/12/23 16:00 | 71-43-2 | |
| 1,2-Dichloroethane | ND | mg/L | 0.00050 | 0.00016 | 1 | | 07/12/23 16:00 | 107-06-2 | |
| Ethylbenzene | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/12/23 16:00 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | mg/L | 0.00050 | 0.00014 | 1 | | 07/12/23 16:00 | 1634-04-4 | |
| Naphthalene | ND | mg/L | 0.00050 | 0.00035 | 1 | | 07/12/23 16:00 | 91-20-3 | |
| Toluene | ND | mg/L | 0.00050 | 0.00020 | 1 | | 07/12/23 16:00 | 108-88-3 | |
| Xylene (Total) | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/12/23 16:00 | 1330-20-7 | |
| m&p-Xylene | ND | mg/L | 0.0010 | 0.00039 | 1 | | 07/12/23 16:00 | 179601-23-1 | |

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## ANALYTICAL RESULTS

Project: 21-188-0021 (3885EXP)
Pace Project No.: 92676396

**Sample: 18686 WSW-TB** **Lab ID: 92676396005** Collected: 07/06/23 08:00 Received: 07/10/23 15:45 Matrix: Drinking Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **524.2 MSV SC List** | Analytical Method: EPA 524.2<br>Pace Analytical Services - Charlotte | | | | | | | | |
| o-Xylene | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/12/23 16:00 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 88 | % | 70-130 | | 1 | | 07/12/23 16:00 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 87 | % | 70-130 | | 1 | | 07/12/23 16:00 | 460-00-4 | |

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## QUALITY CONTROL DATA

Project: 21-188-0021 (3885EXP)
Pace Project No.: 92676396

QC Batch: 786173 | Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 | Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92676396001, 92676396002, 92676396003, 92676396004, 92676396005

METHOD BLANK: 4076009 Matrix: Water
Associated Lab Samples: 92676396001, 92676396002, 92676396003, 92676396004, 92676396005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | mg/L | ND | 0.00050 | 0.00016 | 07/12/23 12:29 | |
| Benzene | mg/L | ND | 0.00050 | 0.00021 | 07/12/23 12:29 | |
| Ethylbenzene | mg/L | ND | 0.00050 | 0.00022 | 07/12/23 12:29 | |
| m&p-Xylene | mg/L | ND | 0.0010 | 0.00039 | 07/12/23 12:29 | |
| Methyl-tert-butyl ether | mg/L | ND | 0.00050 | 0.00014 | 07/12/23 12:29 | |
| Naphthalene | mg/L | ND | 0.00050 | 0.00035 | 07/12/23 12:29 | |
| o-Xylene | mg/L | ND | 0.00050 | 0.00022 | 07/12/23 12:29 | |
| Toluene | mg/L | ND | 0.00050 | 0.00020 | 07/12/23 12:29 | |
| Xylene (Total) | mg/L | ND | 0.00050 | 0.00022 | 07/12/23 12:29 | |
| 1,2-Dichlorobenzene-d4 (S) | % | 87 | 70-130 | | 07/12/23 12:29 | |
| 4-Bromofluorobenzene (S) | % | 83 | 70-130 | | 07/12/23 12:29 | |

LABORATORY CONTROL SAMPLE: 4076010

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | mg/L | 0.02 | 0.021 | 103 | 70-130 | |
| Benzene | mg/L | 0.02 | 0.024 | 121 | 70-130 | |
| Ethylbenzene | mg/L | 0.02 | 0.023 | 113 | 70-130 | |
| m&p-Xylene | mg/L | 0.04 | 0.046 | 114 | 70-130 | |
| Methyl-tert-butyl ether | mg/L | 0.02 | 0.020 | 98 | 70-130 | |
| Naphthalene | mg/L | 0.02 | 0.022 | 110 | 70-130 | |
| o-Xylene | mg/L | 0.02 | 0.023 | 113 | 70-130 | |
| Toluene | mg/L | 0.02 | 0.021 | 106 | 70-130 | |
| Xylene (Total) | mg/L | 0.06 | 0.068 | 114 | | |
| 1,2-Dichlorobenzene-d4 (S) | % | | | 99 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 99 | 70-130 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

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# QUALIFIERS

Project: 21-188-0021 (3885EXP)
Pace Project No.: 92676396

**DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 21-188-0021 (3885EXP)
Pace Project No.: 92676396

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **92676396001** | **18686 WSW-1** | EPA 524.2 | 786173 | | |
| **92676396002** | **18686 WSW-3** | EPA 524.2 | 786173 | | |
| **92676396003** | **18686 DUP-C** | EPA 524.2 | 786173 | | |
| **92676396004** | **18686 WSW-FB** | EPA 524.2 | 786173 | | |
| **92676396005** | **18686 WSW-TB** | EPA 524.2 | 786173 | | |



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Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

**Sample Condition Upon Receipt**

Client Name: Waypoint

Project #: WO# : 92676396

92676396

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☑ No

Date/Initials Person Examining Contents: GMH 7/10/23

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 92700

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.5 Correction Factor: Add/Subtract (°C) 0

Cooler Temp Corrected (°C): 1.5

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil ( ☑ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

| | | | | Comments/Discrepancy: |
|---|---|---|---|---|
| Chain of Custody Present? | ☑ Yes | ☐ No | ☐ N/A | 1. |
| Samples Arrived within Hold Time? | ☑ Yes | ☐ No | ☐ N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? | ☐ Yes | ☑ No | ☐ N/A | 3. |
| Rush Turn Around Time Requested? | ☑ Yes | ☐ No | ☐ N/A | 4. |
| Sufficient Volume? | ☑ Yes | ☐ No | ☐ N/A | 5. |
| Correct Containers Used? | ☑ Yes | ☐ No | ☐ N/A | 6. |
| -Pace Containers Used? | ☑ Yes | ☐ No | ☐ N/A | |
| Containers Intact? | ☑ Yes | ☐ No | ☐ N/A | 7. |
| Dissolved analysis: Samples Field Filtered? | ☐ Yes | ☐ No | ☑ N/A | 8. |
| Sample Labels Match COC? | ☑ Yes | ☐ No | ☐ N/A | 9. |
| -Includes Date/Time/ID/Analysis Matrix: WT | | | | |
| Headspace in VOA Vials (>5-6mm)? | ☐ Yes | ☑ No | ☐ N/A | 10. |
| Trip Blank Present? | ☑ Yes | ☐ No | ☐ N/A | 11. |
| Trip Blank Custody Seals Present? | ☐ Yes | ☑ No | ☐ N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92676396**

PM: MWB Due Date: 07/17/23

CLIENT: 92-Prism

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A – lab) | SP2T-250 mL Sterile Plastic (N/A – lab) | VG9H | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

## pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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9267639L



07/10/2023 14:29:45
**Export Batch Report**
**Export Batch Id : 3885EXP**

**Created:** 7/10/2023 14:29:27
Computer: WPALMS-064
User: Danyale Love
Project Manager: Danyale Love

**To:** Pace Analytical - Huntersville, NC
9800 Kincey Ave / Suite 100
Huntersville, NC 28078
704-875-9092

**From:** Waypoint Analytical, LLC (Charlotte)
449 Springbrook Road
Charlotte, NC 28217
704-529-6364

| Report No | Due Date | Sample Date | Customer Sample No | Rush | Matrix | Lab No | Method No | Fee Code Description | |
|---|---|---|---|---|---|---|---|---|---|
| 23-188-0021 | 07/14/2023 | 07/06/2023 11:30 | 18686 WSW-1 | | AQU | 89090 | EPA-524.2 (EXP) | 524.2 BTEX/MTBE/Naphthalene/1,2-DCA (Sub to Pace) | 001 |
| 23-188-0021 | 07/14/2023 | 07/06/2023 11:50 | 18686 WSW-3 | | AQU | 89091 | EPA-524.2 (EXP) | 524.2 BTEX/MTBE/Naphthalene/1,2-DCA (Sub to Pace) | 002 |
| 23-188-0021 | 07/14/2023 | 07/06/2023 11:31 | 18686 DUP-C | | AQU | 89092 | EPA-524.2 (EXP) | 524.2 BTEX/MTBE/Naphthalene/1,2-DCA (Sub to Pace) | 003 |
| 23-188-0021 | 07/14/2023 | 07/06/2023 09:00 | 18686 WSW-FB | | AQU | 89093 | EPA-524.2 (EXP) | 524.2 BTEX/MTBE/Naphthalene/1,2-DCA (Sub to Pace) | 004 |
| 23-188-0021 | 07/14/2023 | 07/06/2023 08:00 | 18686 WSW-TB | | AQU | 89094 | EPA-524.2 (EXP) | 524.2 BTEX/MTBE/Naphthalene/1,2-DCA (Sub to Pace) | 005 |

| Sampled By | Method of Shipment | Blank / Cooler Temp. | |
|---|---|---|---|
| | LAB | | |
| Remarks | SC Samples | | |
| Relinquished By (sign) | Date / Time | Received By (sign) | Date / Time |
| [signature] | 7/10/23 15:45 | GMR Pace HR | 7/10/23 1545 |
| Relinquished By (sign) | Date / Time | Received By (sign) | Date / Time |
| | | | |

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# Quality Control Data

**Client ID:** Geological Resources, Inc.
**Project Description:** Tisdales Quick Stop
**Report No:** 23-188-0021

**QC Prep:** V35225
**QC Prep Batch Method:** 8011
**QC Analytical Batch(es):** V35261
**Analysis Method:** 8011
**Analysis Description:** EDB and DBCP by Microextraction GC/ECD

**Lab Reagent Blank** LRB-V35225 Matrix: AQU
Associated Lab Samples: 89061, 89062, 89063, 89064, 89065, 89066, 89067, 89068, 89069, 89070, 89071, 89072, 89073, 89074

| Parameter | Units | Blank Result | MDL | MQL | Analyzed | % Recovery | % Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | µg/L | <0.00330 | 0.00330 | 0.0200 | 07/12/23 10:43 | | |
| 4-Bromofluorobenzene (S) | | | | | 07/12/23 10:43 | 111 | 70-130 |

**Laboratory Control Sample & LCSD** LCS-V35225 LCSD-V35225

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS %Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | µg/L | 0.250 | 0.288 | 0.282 | 115 | 113 | 60-140 | 2.1 | 20.0 |
| 4-Bromofluorobenzene (S) | | | | | 102 | 98.4 | 70-130 | | |

**Duplicate** V 89062-DUP-V35225

| Parameter | Units | DUP Result | Surrogate Recovery | Analyzed |
|---|---|---|---|---|
| 4-Bromofluorobenzene (S) | µg/L | 5.00 | 98.4 | 07/12/23 12:08 |

**Matrix Spike** V 89061-MS-V35225

| Parameter | Units | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS %Rec | %Rec Limits | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | µg/L | < 0.00333 | 0.253 | | 0.254 | | 100 | 60-140 | |
| 4-Bromofluorobenzene (S) | | | | | | | 104 | 70-130 | |

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# Quality Control Data

**Client ID:** Geological Resources, Inc.
**Project Description:** Tisdales Quick Stop
**Report No:** 23-188-0021

**QC Prep:** V35226
**QC Prep Batch Method:** 8011
**QC Analytical Batch(es):** V35272
**Analysis Method:** 8011
**Analysis Description:** EDB and DBCP by Microextraction GC/ECD

**Lab Reagent Blank** LRB-V35226 Matrix: AQU
Associated Lab Samples: 89075, 89076, 89077, 89078, 89079, 89080, 89081, 89082, 89083, 89084, 89085, 89086, 89087, 89088

| Parameter | Units | Blank Result | MDL | MQL | Analyzed | % Recovery | % Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | µg/L | <0.00330 | 0.00330 | 0.0200 | 07/12/23 10:43 | | |
| 4-Bromofluorobenzene (S) | | | | | 07/12/23 10:43 | 111 | 70-130 |

**Laboratory Control Sample & LCSD** LCS-V35226 LCSD-V35226

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS %Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | µg/L | 0.250 | 0.288 | 0.282 | 115 | 113 | 60-140 | 2.1 | 20.0 |
| 4-Bromofluorobenzene (S) | | | | | 102 | 98.4 | 70-130 | | |

**Duplicate** V 89076-DUP-V35226

| Parameter | Units | DUP Result | Surrogate Recovery | Analyzed |
|---|---|---|---|---|
| 4-Bromofluorobenzene (S) | µg/L | 6.04 | 120 | 07/12/23 18:12 |

**Matrix Spike** V 89075-MS-V35226

| Parameter | Units | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS %Rec | %Rec Limits | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | µg/L | < 0.00330 | 0.250 | | 0.311 | | 124 | 60-140 | |
| 4-Bromofluorobenzene (S) | | | | | | | 106 | 70-130 | |

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# Quality Control Data

**Client ID:** **Geological Resources, Inc.**
**Project Description:** **Tisdales Quick Stop**
**Report No:** **23-188-0021**

**QC Prep:** V35335
**QC Prep Batch Method:** 5030B
**QC Analytical Batch(es):** V35336
**Analysis Method:** 8260D
**Analysis Description:** Volatile Organic Compounds - GC/MS

**Lab Reagent Blank** LRB-V35335 Matrix: AQU
Associated Lab Samples: 89072, 89076, 89077, 89078, 89079, 89080, 89081, 89082, 89083, 89084, 89085, 89086, 89090, 89091, 89092

| Parameter | Units | Blank Result | MDL | MQL | Analyzed | % Recovery | % Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | µg/L | <0.180 | 0.180 | 0.500 | 07/13/23 21:56 | | |
| Di-Isopropyl Ether (DIPE) | µg/L | <0.960 | 0.960 | 5.00 | 07/13/23 21:56 | | |
| 1,2-Dichloroethane | µg/L | <0.150 | 0.150 | 0.500 | 07/13/23 21:56 | | |
| Ethanol | µg/L | <42.0 | 42.0 | 200 | 07/13/23 21:56 | | |
| Ethylbenzene | µg/L | <0.170 | 0.170 | 0.500 | 07/13/23 21:56 | | |
| Ethyl Tertiary Butyl Ether (ETBE) | µg/L | <1.80 | 1.80 | 10.0 | 07/13/23 21:56 | | |
| Methyl tert-butyl ether (MTBE) | µg/L | <0.140 | 0.140 | 0.500 | 07/13/23 21:56 | | |
| Naphthalene | µg/L | <0.470 | 0.470 | 1.00 | 07/13/23 21:56 | | |
| tert-Butyl Alcohol (TBA) | µg/L | <1.60 | 1.60 | 10.0 | 07/13/23 21:56 | | |
| tert-Butyl formate (TBF) | µg/L | <0.350 | 0.350 | 10.0 | 07/13/23 21:56 | | |
| tert-Amyl Alcohol (TAA) | µg/L | <1.90 | 1.90 | 10.0 | 07/13/23 21:56 | | |
| tert-Amyl Methyl Ether (TAME) | µg/L | <0.280 | 0.280 | 10.0 | 07/13/23 21:56 | | |
| Toluene | µg/L | <0.220 | 0.220 | 0.500 | 07/13/23 21:56 | | |
| o-Xylene | µg/L | <0.210 | 0.210 | 0.500 | 07/13/23 21:56 | | |
| m,p-Xylene | µg/L | <0.420 | 0.420 | 1.00 | 07/13/23 21:56 | | |
| 3,3-Dimethyl-1-butanol | µg/L | <1.00 | 1.00 | 10.0 | 07/13/23 21:56 | | |
| 4-Bromofluorobenzene (S) | | | | | 07/13/23 21:56 | 99.6 | 80-124 |
| Dibromofluoromethane (S) | | | | | 07/13/23 21:56 | 101 | 75-129 |
| 1,2-Dichloroethane - d4 (S) | | | | | 07/13/23 21:56 | 99.0 | 63-136 |
| Toluene-d8 (S) | | | | | 07/13/23 21:56 | 99.2 | 77-123 |

**Laboratory Control Sample** LCS-V35335

| Parameter | Units | Spike Conc. | LCS Result | LCS %Rec | % Rec Limits |
|---|---|---|---|---|---|
| tert-Butyl formate (TBF) | µg/L | 40.0 | 66.3 | 166* | 60-140 |

* QC Fail

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# Quality Control Data

**Client ID:** Geological Resources, Inc.
**Project Description:** Tisdales Quick Stop
**Report No:** 23-188-0021

**QC Prep:** V35335
**QC Prep Batch Method:** 5030B
**QC Analytical Batch(es):** V35336
**Analysis Method:** 8260D
**Analysis Description:** Volatile Organic Compounds - GC/MS

**Laboratory Control Sample & LCSD** LCS-V35335 LCSD-V35335

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS %Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | µg/L | 20.0 | 21.4 | 21.7 | 107 | 109 | 77-128 | 1.3 | 20.0 |
| Di-Isopropyl Ether (DIPE) | µg/L | 20.0 | 20.9 | 21.1 | 105 | 106 | 60-154 | 0.9 | 20.0 |
| 1,2-Dichloroethane | µg/L | 20.0 | 20.1 | 20.2 | 101 | 101 | 68-131 | 0.4 | 20.0 |
| Ethanol | µg/L | 500 | 432 | 556 | 86.4 | 111 | 70-130 | 25.1* | 20.0 |
| Ethylbenzene | µg/L | 20.0 | 21.1 | 20.7 | 106 | 104 | 80-127 | 1.9 | 20.0 |
| Ethyl Tertiary Butyl Ether (ETBE) | µg/L | 40.0 | 43.5 | 44.4 | 109 | 111 | 70-130 | 2.0 | 20.0 |
| Methyl tert-butyl ether (MTBE) | µg/L | 20.0 | 21.7 | 22.1 | 109 | 111 | 68-135 | 1.8 | 20.0 |
| Naphthalene | µg/L | 20.0 | 18.4 | 18.6 | 92.0 | 93.0 | 64-136 | 1.0 | 20.0 |
| tert-Butyl Alcohol (TBA) | µg/L | 40.0 | 33.5 | 34.8 | 83.7 | 87.0 | 60-140 | 3.8 | 20.0 |
| tert-Amyl Alcohol (TAA) | µg/L | 20.0 | 22.0 | 22.6 | 110 | 113 | 60-140 | 2.6 | 20.0 |
| tert-Amyl Methyl Ether (TAME) | µg/L | 40.0 | 43.1 | 43.6 | 108 | 109 | 60-140 | 1.1 | 20.0 |
| Toluene | µg/L | 20.0 | 21.1 | 21.6 | 106 | 108 | 76-131 | 2.3 | 20.0 |
| o-Xylene | µg/L | 20.0 | 21.6 | 21.7 | 108 | 109 | 78-128 | 0.4 | 20.0 |
| m,p-Xylene | µg/L | 40.0 | 44.3 | 44.6 | 111 | 112 | 77-133 | 0.6 | 20.0 |
| 3,3-Dimethyl-1-butanol | µg/L | 20.0 | 19.9 | 20.1 | 99.5 | 101 | 70-130 | 1.0 | 20.0 |
| 4-Bromofluorobenzene (S) | | | | | 98.6 | 99.8 | 80-124 | | |
| Dibromofluoromethane (S) | | | | | 99.6 | 102 | 75-129 | | |
| 1,2-Dichloroethane - d4 (S) | | | | | 99.8 | 102 | 63-136 | | |
| Toluene-d8 (S) | | | | | 100 | 100 | 77-123 | | |

* QC Fail

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# Quality Control Data

**Client ID:** Geological Resources, Inc.
**Project Description:** Tisdales Quick Stop
**Report No:** 23-188-0021

**QC Prep:** V35351
**QC Prep Batch Method:** 5030B
**QC Analytical Batch(es):** V35352
**Analysis Method:** 8260D
**Analysis Description:** Volatile Organic Compounds - GC/MS

**Lab Reagent Blank** LRB-V35351 Matrix: AQU
Associated Lab Samples: 89061, 89062, 89064, 89065, 89066, 89067, 89068, 89069, 89070, 89071, 89073, 89074, 89075

| Parameter | Units | Blank Result | MDL | MQL | Analyzed | % Recovery | % Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | µg/L | <0.180 | 0.180 | 0.500 | 07/13/23 22:53 | | |
| Di-Isopropyl Ether (DIPE) | µg/L | <0.960 | 0.960 | 5.00 | 07/13/23 22:53 | | |
| 1,2-Dichloroethane | µg/L | <0.150 | 0.150 | 0.500 | 07/13/23 22:53 | | |
| Ethanol | µg/L | <42.0 | 42.0 | 200 | 07/13/23 22:53 | | |
| Ethylbenzene | µg/L | <0.170 | 0.170 | 0.500 | 07/13/23 22:53 | | |
| Ethyl Tertiary Butyl Ether (ETBE) | µg/L | <1.80 | 1.80 | 10.0 | 07/13/23 22:53 | | |
| Methyl tert-butyl ether (MTBE) | µg/L | <0.140 | 0.140 | 0.500 | 07/13/23 22:53 | | |
| Naphthalene | µg/L | <0.470 | 0.470 | 1.00 | 07/13/23 22:53 | | |
| tert-Butyl Alcohol (TBA) | µg/L | <1.60 | 1.60 | 10.0 | 07/13/23 22:53 | | |
| tert-Butyl formate (TBF) | µg/L | <0.350 | 0.350 | 10.0 | 07/13/23 22:53 | | |
| tert-Amyl Alcohol (TAA) | µg/L | <1.90 | 1.90 | 10.0 | 07/13/23 22:53 | | |
| tert-Amyl Methyl Ether (TAME) | µg/L | <0.280 | 0.280 | 10.0 | 07/13/23 22:53 | | |
| Toluene | µg/L | <0.220 | 0.220 | 0.500 | 07/13/23 22:53 | | |
| o-Xylene | µg/L | <0.210 | 0.210 | 0.500 | 07/13/23 22:53 | | |
| m,p-Xylene | µg/L | <0.420 | 0.420 | 1.00 | 07/13/23 22:53 | | |
| 3,3-Dimethyl-1-butanol | µg/L | <1.00 | 1.00 | 10.0 | 07/13/23 22:53 | | |
| 4-Bromofluorobenzene (S) | | | | | 07/13/23 22:53 | 99.6 | 80-124 |
| Dibromofluoromethane (S) | | | | | 07/13/23 22:53 | 99.2 | 75-129 |
| 1,2-Dichloroethane - d4 (S) | | | | | 07/13/23 22:53 | 96.2 | 63-136 |
| Toluene-d8 (S) | | | | | 07/13/23 22:53 | 100 | 77-123 |

**Laboratory Control Sample & LCSD** LCS-V35351 LCSD-V35351

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS %Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | µg/L | 20.0 | 21.0 | 21.8 | 105 | 109 | 77-128 | 3.7 | 20.0 |
| Di-Isopropyl Ether (DIPE) | µg/L | 20.0 | 20.1 | 20.9 | 101 | 105 | 60-154 | 3.9 | 20.0 |

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# Quality Control Data

**Client ID:** **Geological Resources, Inc.**
**Project Description:** **Tisdales Quick Stop**
**Report No:** **23-188-0021**

**QC Prep:** V35351
**QC Prep Batch Method:** 5030B
**QC Analytical Batch(es):** V35352
**Analysis Method:** 8260D
**Analysis Description:** Volatile Organic Compounds - GC/MS

**Laboratory Control Sample & LCSD** LCS-V35351 LCSD-V35351

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS %Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | µg/L | 20.0 | 21.1 | 21.6 | 106 | 108 | 68-131 | 2.3 | 20.0 |
| Ethanol | µg/L | 500 | 442 | 468 | 88.4 | 93.6 | 70-130 | 5.7 | 20.0 |
| Ethylbenzene | µg/L | 20.0 | 20.2 | 21.2 | 101 | 106 | 80-127 | 4.8 | 20.0 |
| Ethyl Tertiary Butyl Ether (ETBE) | µg/L | 40.0 | 43.0 | 44.2 | 108 | 111 | 70-130 | 2.7 | 20.0 |
| Methyl tert-butyl ether (MTBE) | µg/L | 20.0 | 20.8 | 21.0 | 104 | 105 | 68-135 | 0.9 | 20.0 |
| Naphthalene | µg/L | 20.0 | 23.9 | 24.3 | 120 | 122 | 64-136 | 1.6 | 20.0 |
| tert-Butyl Alcohol (TBA) | µg/L | 40.0 | 43.0 | 42.8 | 108 | 107 | 60-140 | 0.4 | 20.0 |
| tert-Butyl formate (TBF) | µg/L | 40.0 | 53.6 | 60.8 | 134 | 152* | 60-140 | 12.5 | 20.0 |
| tert-Amyl Alcohol (TAA) | µg/L | 20.0 | 21.4 | 22.4 | 107 | 112 | 60-140 | 4.5 | 20.0 |
| tert-Amyl Methyl Ether (TAME) | µg/L | 40.0 | 42.0 | 43.2 | 105 | 108 | 60-140 | 2.8 | 20.0 |
| Toluene | µg/L | 20.0 | 20.5 | 21.7 | 103 | 109 | 76-131 | 5.6 | 20.0 |
| o-Xylene | µg/L | 20.0 | 20.7 | 21.7 | 104 | 109 | 78-128 | 4.7 | 20.0 |
| m,p-Xylene | µg/L | 40.0 | 42.9 | 45.6 | 107 | 114 | 77-133 | 6.1 | 20.0 |
| 3,3-Dimethyl-1-butanol | µg/L | 20.0 | 18.1 | 17.9 | 90.5 | 89.5 | 70-130 | 1.1 | 20.0 |
| 4-Bromofluorobenzene (S) | | | | | 99.4 | 100 | 80-124 | | |
| Dibromofluoromethane (S) | | | | | 99.4 | 99.6 | 75-129 | | |
| 1,2-Dichloroethane - d4 (S) | | | | | 102 | 100 | 63-136 | | |
| Toluene-d8 (S) | | | | | 100 | 100 | 77-123 | | |

* QC Fail

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# Quality Control Data

**Client ID:** Geological Resources, Inc.
**Project Description:** Tisdales Quick Stop
**Report No:** 23-188-0021

**QC Prep:** V35395
**QC Prep Batch Method:** 5030B
**QC Analytical Batch(es):** V35397
**Analysis Method:** 8260D
**Analysis Description:** Volatile Organic Compounds - GC/MS

**Lab Reagent Blank** LRB-V35395 Matrix: AQU
Associated Lab Samples: 89063, 89087, 89088, 89089, 89093, 89094

| Parameter | Units | Blank Result | MDL | MQL | Analyzed | % Recovery | % Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | µg/L | <0.180 | 0.180 | 0.500 | 07/14/23 13:07 | | |
| Di-Isopropyl Ether (DIPE) | µg/L | <0.960 | 0.960 | 5.00 | 07/14/23 13:07 | | |
| 1,2-Dichloroethane | µg/L | <0.150 | 0.150 | 0.500 | 07/14/23 13:07 | | |
| Ethanol | µg/L | <42.0 | 42.0 | 200 | 07/14/23 13:07 | | |
| Ethylbenzene | µg/L | <0.170 | 0.170 | 0.500 | 07/14/23 13:07 | | |
| Ethyl Tertiary Butyl Ether (ETBE) | µg/L | <1.80 | 1.80 | 10.0 | 07/14/23 13:07 | | |
| Methyl tert-butyl ether (MTBE) | µg/L | <0.140 | 0.140 | 0.500 | 07/14/23 13:07 | | |
| Naphthalene | µg/L | <0.470 | 0.470 | 1.00 | 07/14/23 13:07 | | |
| tert-Butyl Alcohol (TBA) | µg/L | <1.60 | 1.60 | 10.0 | 07/14/23 13:07 | | |
| tert-Butyl formate (TBF) | µg/L | <0.350 | 0.350 | 10.0 | 07/14/23 13:07 | | |
| tert-Amyl Alcohol (TAA) | µg/L | <1.90 | 1.90 | 10.0 | 07/14/23 13:07 | | |
| tert-Amyl Methyl Ether (TAME) | µg/L | <0.280 | 0.280 | 10.0 | 07/14/23 13:07 | | |
| Toluene | µg/L | <0.220 | 0.220 | 0.500 | 07/14/23 13:07 | | |
| o-Xylene | µg/L | <0.210 | 0.210 | 0.500 | 07/14/23 13:07 | | |
| m,p-Xylene | µg/L | <0.420 | 0.420 | 1.00 | 07/14/23 13:07 | | |
| 3,3-Dimethyl-1-butanol | µg/L | <1.00 | 1.00 | 10.0 | 07/14/23 13:07 | | |
| 4-Bromofluorobenzene (S) | | | | | 07/14/23 13:07 | 100 | 80-124 |
| Dibromofluoromethane (S) | | | | | 07/14/23 13:07 | 101 | 75-129 |
| 1,2-Dichloroethane - d4 (S) | | | | | 07/14/23 13:07 | 99.6 | 63-136 |
| Toluene-d8 (S) | | | | | 07/14/23 13:07 | 99.6 | 77-123 |

**Laboratory Control Sample** LCS-V35395

| Parameter | Units | Spike Conc. | LCS Result | LCS %Rec | % Rec Limits |
|---|---|---|---|---|---|
| tert-Butyl formate (TBF) | µg/L | 40.0 | 66.0 | 165* | 60-140 |

* QC Fail

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# Quality Control Data

**Client ID:** Geological Resources, Inc.
**Project Description:** Tisdales Quick Stop
**Report No:** 23-188-0021

**QC Prep:** V35395
**QC Prep Batch Method:** 5030B
**QC Analytical Batch(es):** V35397
**Analysis Method:** 8260D
**Analysis Description:** Volatile Organic Compounds - GC/MS

**Laboratory Control Sample & LCSD** LCS-V35395 LCSD-V35395

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS %Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | µg/L | 20.0 | 21.0 | 21.0 | 105 | 105 | 77-128 | 0.0 | 20.0 |
| Di-Isopropyl Ether (DIPE) | µg/L | 20.0 | 20.7 | 20.7 | 104 | 104 | 60-154 | 0.0 | 20.0 |
| 1,2-Dichloroethane | µg/L | 20.0 | 21.3 | 21.3 | 107 | 107 | 68-131 | 0.0 | 20.0 |
| Ethanol | µg/L | 500 | 498 | 587 | 99.6 | 117 | 70-130 | 16.4 | 20.0 |
| Ethylbenzene | µg/L | 20.0 | 20.3 | 20.5 | 102 | 103 | 80-127 | 0.9 | 20.0 |
| Ethyl Tertiary Butyl Ether (ETBE) | µg/L | 40.0 | 43.9 | 43.6 | 110 | 109 | 70-130 | 0.6 | 20.0 |
| Methyl tert-butyl ether (MTBE) | µg/L | 20.0 | 20.9 | 20.9 | 105 | 105 | 68-135 | 0.0 | 20.0 |
| Naphthalene | µg/L | 20.0 | 22.4 | 23.1 | 112 | 116 | 64-136 | 3.0 | 20.0 |
| tert-Butyl Alcohol (TBA) | µg/L | 40.0 | 41.8 | 41.9 | 105 | 105 | 60-140 | 0.2 | 20.0 |
| tert-Amyl Alcohol (TAA) | µg/L | 20.0 | 17.7 | 20.9 | 88.5 | 105 | 60-140 | 16.5 | 20.0 |
| tert-Amyl Methyl Ether (TAME) | µg/L | 40.0 | 42.7 | 42.2 | 107 | 106 | 60-140 | 1.1 | 20.0 |
| Toluene | µg/L | 20.0 | 20.8 | 20.7 | 104 | 104 | 76-131 | 0.4 | 20.0 |
| o-Xylene | µg/L | 20.0 | 20.7 | 20.8 | 104 | 104 | 78-128 | 0.4 | 20.0 |
| m,p-Xylene | µg/L | 40.0 | 43.8 | 43.8 | 110 | 110 | 77-133 | 0.0 | 20.0 |
| 3,3-Dimethyl-1-butanol | µg/L | 20.0 | 20.4 | 19.3 | 102 | 96.5 | 70-130 | 5.5 | 20.0 |
| 4-Bromofluorobenzene (S) | | | | | 99.6 | 99.8 | 80-124 | | |
| Dibromofluoromethane (S) | | | | | 100 | 99.6 | 75-129 | | |
| 1,2-Dichloroethane - d4 (S) | | | | | 102 | 101 | 63-136 | | |
| Toluene-d8 (S) | | | | | 100 | 99.6 | 77-123 | | |

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Main 704.529.6364
www.waypointanalytical.com

# Quality Control Data

**Client ID:** Geological Resources, Inc.
**Project Description:** Tisdales Quick Stop
**Report No:** 23-188-0021

**QC Prep:** V35162
**QC Prep Batch Method:** EPA-504.1(PREP)
**QC Analytical Batch(es):** V35214
**Analysis Method:** EPA-504.1
**Analysis Description:** EDB and DBCP by Microextraction GC/ECD

**Lab Reagent Blank** LRB-V35162 Matrix: AQU
Associated Lab Samples: 89090, 89091, 89092, 89093

| Parameter | Units | Blank Result | MQL | Analyzed |
|---|---|---|---|---|
| 1,2-Dibromoethane | µg/L | < 0.0200 | 0.0200 | 07/11/23 10:06 |

**Laboratory Control Sample & LCSD** LCS-V35162 LCSD-V35162

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS %Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | µg/L | 0.250 | 0.249 | 0.271 | 99.6 | 108 | 70-130 | 8.4 | 20.0 |

**Duplicate** V 89021-DUP-V35162

| Parameter | Units | Result | DUP Result | RPD | Max RPD | Analyzed |
|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | µg/L | 16.4 | 16.4 | 0.0 | 20.0 | 07/11/23 12:18 |

**Matrix Spike** V 89006-MS-V35162

| Parameter | Units | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS %Rec | %Rec Limits | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | µg/L | < 0.0209 | 0.261 | | 0.312 | | 120 | 70-130 | |

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## Shipment Receipt Form

Customer Number: **00087**
Customer Name: **Geological Resources, Inc.**
Report Number: **23-188-0021**

### Shipping Method

| | | | | |
|---|---|---|---|---|
| ○ Fed Ex | ○ US Postal | ◉ Lab | ○ Other : | |
| ○ UPS | ○ Client | ○ Courier | Thermometer ID: | IRT15 2.8C |

| | | | |
|---|---|---|---|
| Shipping container/cooler uncompromised? | ◉ Yes | ○ No | |
| Number of coolers/boxes received | 1 | | |
| Custody seals intact on shipping container/cooler? | ○ Yes | ○ No | ◉ Not Present |
| Custody seals intact on sample bottles? | ○ Yes | ○ No | ◉ Not Present |
| Chain of Custody (COC) present? | ◉ Yes | ○ No | |
| COC agrees with sample label(s)? | ◉ Yes | ○ No | |
| COC properly completed | ◉ Yes | ○ No | |
| Samples in proper containers? | ◉ Yes | ○ No | |
| Sample containers intact? | ◉ Yes | ○ No | |
| Sufficient sample volume for indicated test(s)? | ◉ Yes | ○ No | |
| All samples received within holding time? | ◉ Yes | ○ No | |
| Cooler temperature in compliance? | ◉ Yes | ○ No | |
| Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun. | ◉ Yes | ○ No | |
| Water - Sample containers properly preserved | ◉ Yes | ○ No | ○ N/A |
| Water - VOA vials free of headspace | ◉ Yes | ○ No | ○ N/A |
| Trip Blanks received with VOAs | ◉ Yes | ○ No | ○ N/A |
| Soil VOA method 5035 – compliance criteria met | ○ Yes | ○ No | ◉ N/A |

☐ High concentration container (48 hr)
☐ Low concentration EnCore samplers (48 hr)
☐ High concentration pre-weighed (methanol -14 d)
☐ Low conc pre-weighed vials (Sod Bis -14 d)

| | | |
|---|---|---|
| Special precautions or instructions included? | ○ Yes | ◉ No |

Comments:

Signature: Angelo Norvell  Date & Time: 07/07/2023 18:54:32

| Client Name/Address | Client Project Manager/Contact | Billing Information | For Laboratory Use Only |
|---|---|---|---|
| GRI<br>Cust #87 | Scott Ball | Same | |

| Project Description | Project/Site Location (City/State) | | Method of Shipment | Matrix Key |
|---|---|---|---|---|
| Tisdales Quick Stop | Kingtree, SC | ☐ RUSH – Additional charges apply<br>☐ Special Detection Limit(s)<br>Date Results Needed | ☐ Fed Ex ☐ UPS ☐ USPS<br>☐ Courier ☐ Client Drop Off<br>Other | WW – Wastewater GW – Groundwater<br>DW – Drinking Water S – Soil /Solid O – Oil<br>P - Product M - Misc |

| Project Number | Project Manager Phone # | Project Manager Email | Purchase Order Number | Site/Facility ID # |
|---|---|---|---|---|
| GRI #1543 | 704-845-4010 | wsb@geologicalresourcesinc.com | GRI #1543 | |

Waypoint ANALYTICAL
449 Springbrook Road
Charlotte, NC 28217
Phone: 704-529-6364
Fax: 704-525-0409

Unless noted, all containers per Table II of 40 CFR Part 136

| | |
|---|---|
| A | Cool < 10C Na2S2O3 (Micro Only) |
| B | Cool <= 6C |
| C | H2SO4 pH<2 |
| D | None Required |
| E | NaOH pH>10 |
| F | HNO3 pH<2 |
| G | HCL pH<2 |
| H | H3PO4 pH<2 |
| I | Cool <= 6C NA2S2O3 |

| Date | Time | Sample Identification | Number of Containers | Matrix (Refer to Key) | (G)rab or (C)omposite | 8260* | 8011 | 524.2** | 8260 Oxys | 504.1 | | | | | Comments/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Required Analysis / Preservative | | | | | | | | | | | | |
| ~~7/5/23~~ 7/6/23 | 1442 | 18686 MW-1 | 6 | GW | | X | X | | | | | | | | *BTEX/MTBE/N/1,2-DCA + Oxys |
| 7/5/23 | 1424 | 18686 MW-2 | 6 | GW | | X | X | | | | | | | | **BTEX/MTBE/N/1,2-DCA |
| 7/5/23 | 1432 | 18686 MW-3 | 6 | GW | | X | X | | | | | | | | |
| 7/5/23 | 1415 | 18686 MW-7 | 6 | GW | | X | X | | | | | | | | |
| 7/6/23 | 1151 | 18686 MW-8 | 6 | GW | | X | X | | | | | | | | |
| 7/6/23 | 1115 | 18686 MW-9 | 6 | GW | | X | X | | | | | | | | |
| 7/5/23 | 1121 | 18686 MW-11R | 6 | GW | | X | X | | | | | | | | |
| 7/5/23 | 1136 | 18686 MW-12R | 6 | GW | | X | X | | | | | | | | |
| 7/6/23 | 1143 | 18686 MW-13 | 6 | GW | | X | X | | | | | | | | |
| 7/6/23 | 1453 | 18686 MW-14 | 6 | GW | | X | X | | | | | | | | |

Geological Resources, Inc.
Tisdales Quick Stop
23-188-0021
00087
07-07-2023
18:53:05

| For Laboratory Use Only | | | Sampled by (Name – Print) | Client Remarks/Comments |
|---|---|---|---|---|
| Ice (Y/N) | Custody Seals (Y/N) | Lab Comments | Jase Bowers | SC DHEC UST management Prgm<br>UST # 18686 |
| Blank/Cooler Temp<br>IR TS 2.8 | | | | |

| | Date Time | | Date Time |
|---|---|---|---|
| Relinquished by: (SIGNATURE) | | Received by: (SIGNATURE) | 7-7-23 8:43 |
| Relinquished by: (SIGNATURE) | Date Time | Received by: (SIGNATURE) | Date Time |
| Relinquished by: (SIGNATURE) | Date Time<br>7-7-23 14:05 | Received by: (SIGNATURE) | Date Time<br>7/7/23 1405 |

| Client Name/Address | Client Project Manager/Contact | Billing Information | For Laboratory Use Only |
|---|---|---|---|
| GRI<br>Cust #87 | Scott Ball | Same | |

| Project Description | Project/Site Location (City/State) | | Method of Shipment | Matrix Key |
|---|---|---|---|---|
| Tisdales Quick Stop | Kingtree, SC | ☐ RUSH – Additional charges apply<br>☐ Special Detection Limit(s)<br>Date Results Needed | ☐ Fed Ex ☐ UPS ☐ USPS<br>☐ Courier ☐ Client Drop Off<br>Other | WW – Wastewater GW – Groundwater<br>DW – Drinking Water S – Soil /Solid O – Oil<br>P - Product M - Misc |

| Project Number | Project Manager Phone # | Project Manager Email | Purchase Order Number | Site/Facility ID # |
|---|---|---|---|---|
| GRI #1543 | 704-845-4010 | wsb@geologicalresourcesinc.com | GRI #1543 | |

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449 Springbrook Road
Charlotte, NC 28217
Phone: 704-529-6364
Fax: 704-525-0409

Unless noted, all containers per Table II of 40 CFR Part 136

| | |
|---|---|
| A | Cool < 10C Na2S2O3 (Micro Only) |
| B | Cool <= 6C |
| C | H2SO4 pH<2 |
| D | None Required |
| E | NaOH pH>10 |
| F | HNO3 pH<2 |
| G | HCL pH<2 |
| H | H3PO4 pH<2 |
| I | Cool <= 6C NA2S2O3 |

| Date | Time | Sample Identification | Number of Containers | Matrix (Refer to Key) | (G)rab or (C)omposite | 8260* | 8011 | 524.2** | 8260 Oxys | 504.1 | | | | | Comments/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Required Analysis / Preservative | | | | | | | | | | | | |
| 7/5/23 | 1563 | 18686 mw-15 | 6 | GW | | X | X | | | | | | | | *BTEX/MTBE/N/1,2-DCA + Oxys |
| 7/5/23 | 1513 | 18686 mw-16R | 6 | GW | | X | X | | | | | | | | **BTEX/MTBE/N/1,2-DCA |
| 7/5/23 | 1521 | 18686 mw-18R | 6 | GW | | X | X | | | | | | | | |
| 7/6/23 | 1010 | 18686 mw-21 | 6 | GW | | X | X | | | | | | | | |
| 7/6/23 | 1021 | 18686 mw-23 | 6 | GW | | X | X | | | | | | | | |
| 7/6/23 | 0953 | 18686 mw-25 | 6 | GW | | X | X | | | | | | | | |
| 7/6/23 | 0932 | 18686 mw-26 | 6 | GW | | X | X | | | | | | | | |
| 7/6/23 | 0942 | 18686 mw-27 | 6 | GW | | X | X | | | | | | | | |
| 7/6/23 | 0920 | 18686 mw-31 | 6 | GW | | X | X | | | | | | | | |
| 7/6/23 | 1216 | 18686 mw-1A | 6 | GW | | X | X | | | | | | | | |

23-188-0021
00087
07-07-2023
18:53:05
Geological Resources, Inc.
Tisdales Quick Stop

| For Laboratory Use Only | | | Sampled by (Name – Print) | Client Remarks/Comments |
|---|---|---|---|---|
| Ice: Y / N | Custody Seals: Y / N | Lab Comments | Jase Bowers | SCDHEC UST Management Prgm<br>UST # 18686 |
| Blank/Cooler Temp: 2.8 | | | | |

| Relinquished by: (SIGNATURE) | Date Time | Received by: (SIGNATURE) | Date Time |
|---|---|---|---|
| | | | 7.7.23 8:43 |
| Relinquished by: (SIGNATURE) | Date Time | Received by: (SIGNATURE) | Date Time |
| | | | |
| Relinquished by: (SIGNATURE) | Date Time | Received by: (SIGNATURE) | Date Time |
| | 7.7.23 14:05 | | 7/7/23 1405 |

| Client Name/Address | Client Project Manager/Contact | Billing Information | For Laboratory Use Only |
|---|---|---|---|
| GRI<br>Cust #87 | Scott Ball | Same | |

| Project Description | Project/Site Location (City/State) | | Method of Shipment | Matrix Key |
|---|---|---|---|---|
| Tisdales Quick Stop | Kingtree, SC | ☐ RUSH – Additional charges apply<br>☐ Special Detection Limit(s)<br>Date Results Needed | ☐ Fed Ex ☐ UPS ☐ USPS<br>☐ Courier ☐ Client Drop Off<br>Other | WW – Wastewater GW – Groundwater<br>DW – Drinking Water S – Soil /Solid O – Oil<br>P - Product M - Misc |

| Project Number | Project Manager Phone # | Project Manager Email | Purchase Order Number | Site/Facility ID # |
|---|---|---|---|---|
| GRI #1543 | 704-845-4010 | wsb@geologicalresourcesinc.com | GRI #1543 | |

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Phone: 704-529-6364
Fax: 704-525-0409

Unless noted, all containers per Table II of 40 CFR Part 136

| | |
|---|---|
| A | Cool < 10C Na2S2O3 (Micro Only) |
| B | Cool <= 6C |
| C | H2SO4 pH<2 |
| D | None Required |
| E | NaOH pH>10 |
| F | HNO3 pH<2 |
| G | HCL pH<2 |
| H | H3PO4 pH<2 |
| I | Cool <= 6C NA2S2O3 |

| Date | Time | Sample Identification | Number of Containers | Matrix (Refer to Key) | (G)rab or (C)omposite | 8260* | 8011 | 524.2** | 8260 Oxys | 504.1 | | | | | Comments/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Required Analysis / Preservative | | | | | | | | | | | | |
| 7/5/23 | 1205 | 18686 MW-2A | 6 | GW | | X | X | | | | | | | | *BTEX/MTBE/N/1,2-DCA + Oxys |
| 7/5/23 | 1226 | 18686 MW-4A | 6 | GW | | X | X | | | | | | | | **BTEX/MTBE/N/1,2-DCA |
| 7/6/23 | 0845 | 18686 TW-1 | 6 | GW | | X | X | | | | | | | | |
| 7/6/23 | 1049 | 18686 TW-2 | 6 | GW | | X | X | | | | | | | | |
| 7/5/23 | 1443 | 18686 Dup-A | 6 | GW | | X | X | | | | | | | | |
| 7/5/23 | 1425 | 18686 Dup-B | 6 | GW | | X | X | | | | | | | | |
| 7/5/23 | 0806 | 18686 MW-FB-1 | 6 | GW | | X | X | | | | | | | | |
| 7/6/23 | 0805 | 18686 MW-FB-2 | 6 | GW | | X | X | | | | | | | | |
| 7/5/23 | 0745 | 18686 MW-TB | 2 | GW | | X | | X | | | | | | | |
| 7/6/23 | 1130 | 18686 WSW-1 | 9 | DW | | | | X | X | X | | | | | |

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Tisdales Quick Stop
23-188-0021
00087
07-07-2023
18:53:05

| For Laboratory Use Only | | | Sampled by (Name – Print) | Client Remarks/Comments |
|---|---|---|---|---|
| Ice: N | Custody Seals: Y / N | Lab Comments | Jase Bowers | SC DHEC UST management Pgm<br>UST #18686 |

| Blank/Cooler Temp | Relinquished by: (SIGNATURE) | Date Time | Received by: (SIGNATURE) | Date Time |
|---|---|---|---|---|
| 2.8 | Jase Bowers | | | 7.7.23 8:43 |
| | Relinquished by: (SIGNATURE) | Date Time | Received by: (SIGNATURE) | Date Time |
| | Relinquished by: (SIGNATURE) | Date Time 7.7.23 14:03 | Received by: (SIGNATURE) | Date Time 7/7/23 1405 |

| Client Name/Address | Client Project Manager/Contact | Billing Information | For Laboratory Use Only |
|---|---|---|---|
| GRI<br>Cust #87 | Scott Ball | Same | |

| Project Description | Project/Site Location (City/State) | | Method of Shipment | Matrix Key |
|---|---|---|---|---|
| Tisdales Quick Stop | Kingtree, SC | ☐ RUSH – Additional charges apply<br>☐ Special Detection Limit(s)<br>Date Results Needed | ☐ Fed Ex ☐ UPS ☐ USPS<br>☐ Courier ☐ Client Drop Off<br>Other | WW – Wastewater GW – Groundwater<br>DW – Drinking Water S – Soil /Solid O – Oil<br>P - Product M - Misc |

| Project Number | Project Manager Phone # | Project Manager Email | Purchase Order Number | Site/Facility ID # |
|---|---|---|---|---|
| GRI #1543 | 704-845-4010 | wsb@geologicalresourcesinc.com | GRI #1543 | |

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Charlotte, NC 28217
Phone: 704-529-6364
Fax: 704-525-0409

Unless noted, all containers per Table II of 40 CFR Part 136

| | |
|---|---|
| A | Cool < 10C Na2S2O3 (Micro Only) |
| B | Cool <= 6C |
| C | H2SO4 pH<2 |
| D | None Required |
| E | NaOH pH>10 |
| F | HNO3 pH<2 |
| G | HCL pH<2 |
| H | H3PO4 pH<2 |
| I | Cool <= 6C NA2S2O3 |

| Date | Time | Sample Identification | Number of Containers | Matrix (Refer to Key) | (G)rab or (C)omposite | 8260* | 8011 | 524.2** | 8260 Oxys | 504.1 | Comments/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Required Analysis / Preservative | | | | | | | | |
| 7/6/23 | 1150 | 18686 WSW-3 | 9 | DW | | | | X | X | X | *BTEX/MTBE/N/1,2-DCA + Oxys |
| 7/6/23 | 1131 | 18686 Dup-C | 9 | DW | | | | X | X | X | **BTEX/MTBE/N/1,2-DCA |
| 7/6/23 | 0900 | 18686 WSW-FB | 9 | DW | | | | X | X | X | |
| 7/6/23 | 0800 | 18686 WSW-TB | 4 | DW | | | | X | X | | |

| For Laboratory Use Only | | | Sampled by (Name – Print) | Client Remarks/Comments |
|---|---|---|---|---|
| Ice: Y / N | Custody Seals: Y / N | Lab Comments | Jase Bowers | SC DHEC UST management Prgm<br>UST # 18686 |
| Blank/Cooler Temp: 2.8 | | | | |

| Relinquished by: (SIGNATURE) | Date Time | Received by: (SIGNATURE) | Date Time |
|---|---|---|---|
| | | | 7.7.23 8:43 |
| Relinquished by: (SIGNATURE) | Date Time | Received by: (SIGNATURE) | Date Time |
| | | | |
| Relinquished by: (SIGNATURE) | Date Time | Received by: (SIGNATURE) | Date Time |
| | 7.7.23 1420 | | 7/7/23 1405 |

**APPENDIX B**

Field Data Information Sheets

dhec

# Underground Storage Tank Management Division
## Field Data Information Sheet – Monitoring Well Gauging

### Site Information

| | | |
|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop |
| County: Williamsburg | Project Manager: Arthur Brown | Field Personnel: Jase Bowers |

### 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 | 20.15 | 10-20 | - | 16.02 | - | y | ~ | y | 0/2 | y |
| MW-2 | 25.00 | 10-25 | - | 16.25 | - | y | ~ | y | 0/2 | ~ |
| MW-3 | 25.40 | 10-25 | - | 16.02 | - | y | ~ | y | 0/2 | ~ |
| MW-4 | 13.65 | 10-25 | - | - | - | y | ~ | y | 0/2 | ~ |
| MW-5R | | 10-25 | | | | | | | | |
| MW-6 | | 11.5-21.5 | | | | | | | | |
| MW-7 | 21.17 | 12-22 | - | 15.67 | - | y | ~ | y | 0/3 | ~ |
| MW-8 | 21.10 | 12-22 | - | 15.92 | - | y | ~ | buried | 0/3 | ~ |
| MW-9 | 21.11 | 12-22 | - | 16.93 | - | y | ~ | y | 0/3 | ~ |
| MW-10 | | 10-25 | | | | | | | | |
| MW-11R | 14.72 | 5-20 | - | 14.36 | - | y | ~ | y | 1/2 | ~ |
| MW-12R | 19.64 | 5-20 | - | 14.77 | - | y | ~ | buried | 0/2 | y |
| MW-13 | 24.09 | 10-25 | - | 16.75 | - | y | ~ | y | 0/3 | ~ |

Notes: _____

Signature: Jase B

dhec

# Underground Storage Tank Management Division
## Field Data Information Sheet – Monitoring Well Gauging

### Site Information

| | | |
|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop |
| County: Williamsburg | Project Manager: Arthur Brown | Field Personnel: Jase Bowers |

### 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-14 | 23.62 | 10-25 | - | 16.07 | - | y | ~ | y | 0/3 | ~ |
| MW-15 | 23.91 | 10-25 | | 17.51 | | | | | | |
| MW-16R | 24.75 | 10-25 | - | 16.20 | - | y | ~ | y | 1/2 | y |
| MW-17R | | 10-25 | | | | | | | | |
| MW-18R | 25.30 | 10-25 | | 18.30 | - | y | ~ | y | 1/2 | ~ |
| MW-19 | | 10-25 | | | | | | | | |
| MW-20 | | 10-25 | | | | | | | | |
| MW-21 | 20.36 | 8-23 | - | 15.65 | - | y | ~ | buried | 0/3 | ~ |
| MW-22 | | 10-25 | | | | | | | | |
| MW-23 | 22.38 | 9-24 | - | 16.02 | - | y | ~ | buried | 0/3 | y |
| MW-24 | | 8-23 | | | | | | | | |
| MW-25 | 21.00 | 8-23 | - | 14.14 | - | y | ~ | buried | 0/3 | ~ |
| MW-26 | 19.44 | 6-21 | - | 13.15 | - | y | ~ | y | 0/3 | ~~y~~ |

Notes: _____

Signature: Jase Bowers

dhec

# Underground Storage Tank Management Division
# Field Data Information Sheet – Monitoring Well Gauging

## Site Information

| | | |
|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop |
| County: Williamsburg | Project Manager: Arthur Brown | Field Personnel: Jase Bowers |

## 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-27 | 21.47 | 10-25 | - | 14.31 | - | Y | ~ | buried | 0/3 | ~ |
| MW-28 | | 10-25 | | | | | | | | |
| MW-29 – | | 10-25 | | | | | | | | |
| MW-30 – | | 7-22 | | | | | | | | |
| MW-31 | 20.20 | 10-20 | - | 17.00 | - | Y | ~ | Y | 0/2 | ~ |
| MW-1A | 21.20 | unknown | - | 15.61 | - | Y | ~ | Y | 0/3 | ~ |
| MW-2A | 20.64 | unknown | - | 15.74 | - | Y | ~ | Y | 0/3 | ~ |
| MW-3A – | | unknown | | | | | | | | |
| MW-4A | 20.70 | unknown | - | 16.13 | - | Y | ~ | Y | 0/3 | ~ |
| TW-1 | 42.71 | 41-46 | - | 17.04 | - | Y | ~ | Y | 0/3 bolts | ~ |
| TW-2 | 44.54 | 46-51 | - | 15.35 | - | Y | ~ | buried | 0/3 | ~ |
| | | | | | | | | | | |
| | | | | | | | | | | |

Notes: _____

Signature: _____

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 |
| ✔ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | Screened Interval (ft.): 10 to 20 | Total Well Depth (TWD) (ft.): 20.15 | |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 16.02 | Free Product Thickness (ft.): | |
| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*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: Jase Bowers | Sampling Time: 14:12 | Duplicate: ✔ or N | If yes, Duplicate Time: 14:13 |

Notes: Oil Sheen, parameters not taken
No Purge

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 |
| ✔ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | | Screened Interval (ft.): 10 to 25 | | Total Well Depth (TWD) (ft.): 25.00 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 16.25 | | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | | 5 casing volumes (5*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: Jase Bowers | Sampling Time: 1421 | Duplicate: Y or N | If yes, Duplicate Time: 1425 |

Notes: No purge
oil sheen; parameters not taken

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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.): 25.40 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 16.02 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*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: Jase Bowers | Sampling Time: 1432 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: NO Purge
oil Sheen; Parameters not taken

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 |
| ✔ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | | Screened Interval (ft.): 10 to 25 | Total Well Depth (TWD) (ft.): 13.65 |
| 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*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: Jase Bowers | Sampling Time: | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: dry

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ or N | |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-5R | 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.): |
| 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*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: Jase Bowers | Sampling Time: | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: NF

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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 |
| ✓ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | | Screened Interval (ft.): 11.5 to 21.5 | 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*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: Jase Bowers | Sampling Time: | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: N F

Signature: Jase Bowers

dhec

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 |
| ✔MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW | Screened Interval (ft.): 12 to 22 | Total Well Depth (TWD) (ft.): 21.17 | |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 15.67 | Free Product Thickness (ft.): | |
| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 1411 | | | | | | | |
| PH (s.u.) | 4.86 | | | | | | | |
| Specific Conductivity (µS/cm) | 33.8 | | | | | | | |
| Water Temperature (°C) | 23.2 | | | | | | | |
| Turbidity (NTU) | 113.56 | | | | | | | |
| Dissolved Oxygen (mg/L) | 7.14 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1415 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: NO Purge

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 |
| ✔ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | | Screened Interval (ft.): 12 to 22 | Total Well Depth (TWD) (ft.): 21.10 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 15.92 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 1150 | | | | | | | |
| PH (s.u.) | 4.83 | | | | | | | |
| Specific Conductivity (µS/cm) | 63.3 | | | | | | | |
| Water Temperature (°C) | 23.9 | | | | | | | |
| Turbidity (NTU) | 52.58 | | | | | | | |
| Dissolved Oxygen (mg/L) | 4.49 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1151 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: no Purge

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 |
| ✔ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | Screened Interval (ft.): 12 to 22 | | Total Well Depth (TWD) (ft.): 21.11 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 16.93 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 1114 | | | | | | | |
| PH (s.u.) | 6.21 | | | | | | | |
| Specific Conductivity (µS/cm) | 133.9 | | | | | | | |
| Water Temperature (°C) | 21.2 | | | | | | | |
| Turbidity (NTU) | 50.14 | | | | | | | |
| Dissolved Oxygen (mg/L) | 6.47 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1115 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: NO Purge

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 |
| ✔ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | Screened Interval (ft.): 10 to 25 | 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*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: Jase Bowers | Sampling Time: | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: nf

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ or N | |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW- 11R | 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.): 5 to 20 | | Total Well Depth (TWD) (ft.): 19.72 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 14.36 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 1120 | | | | | | | |
| PH (s.u.) | 5.47 | | | | | | | |
| Specific Conductivity (µS/cm) | 85.1 | | | | | | | |
| Water Temperature (°C) | 23.4 | | | | | | | |
| Turbidity (NTU) | 99.61 | | | | | | | |
| Dissolved Oxygen (mg/L) | 5.68 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase. Bowers | Sampling Time: 1121 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: NO purge

Signature: Jase Bowers



SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: | Ambient Air Temp (°F): |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ or N | |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW- 12R | 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.): 5 to 20 | Total Well Depth (TWD) (ft.): 19.64 | |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 14.77 | Free Product Thickness (ft.): | |
| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 1133 | | | | | | | |
| PH (s.u.) | 5.82 | | | | | | | |
| Specific Conductivity (µS/cm) | 115.4 | | | | | | | |
| Water Temperature (°C) | 23.7 | | | | | | | |
| Turbidity (NTU) | 100.19 | | | | | | | |
| Dissolved Oxygen (mg/L) | 3.54 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1134 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: No Purge

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 |
| ✔ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | | Screened Interval (ft.): 10 to 25 | | Total Well Depth (TWD) (ft.): 24.09 |
| Depth to Free Product (DFP) (ft.): | | Depth to Groundwater (DGW) (ft.): 16.75 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 1142 | | | | | | | |
| PH (s.u.) | 5.61 | | | | | | | |
| Specific Conductivity (µS/cm) | 110.8 | | | | | | | |
| Water Temperature (°C) | 22.9 | | | | | | | |
| Turbidity (NTU) | 77.39 | | | | | | | |
| Dissolved Oxygen (mg/L) | 7.43 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1143 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: NO Purge

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny 90 | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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 |
| ✓ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | | Screened Interval (ft.): 10 to 25 | Total Well Depth (TWD) (ft.): 23.62 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 16.07 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 1452 | | | | | | | |
| PH (s.u.) | 5.81 | | | | | | | |
| Specific Conductivity (µS/cm) | 163.2 | | | | | | | |
| Water Temperature (°C) | 24.4 | | | | | | | |
| Turbidity (NTU) | 156.71 | | | | | | | |
| Dissolved Oxygen (mg/L) | 8.24 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1453 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: NO purge

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 |
| ✔ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | Screened Interval (ft.): 10 to 25 | Total Well Depth (TWD) (ft.): 23.91 | |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 16.07 | Free Product Thickness (ft.): | |
| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 1502 | | | | | | | |
| PH (s.u.) | 4.88 | | | | | | | |
| Specific Conductivity (µS/cm) | 68.6 | | | | | | | |
| Water Temperature (°C) | 23.7 | | | | | | | |
| Turbidity (NTU) | 225.26 | | | | | | | |
| Dissolved Oxygen (mg/L) | 6.59 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1503 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: no Purge

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ or N | |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-16R | 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.): 24.75 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 16.20 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 1512 | | | | | | | |
| PH (s.u.) | 5.76 | | | | | | | |
| Specific Conductivity (µS/cm) | 385.4 | | | | | | | |
| Water Temperature (°C) | 24.4 | | | | | | | |
| Turbidity (NTU) | 134.28 | | | | | | | |
| Dissolved Oxygen (mg/L) | 3.12 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1513 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: No Purge

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ or N | |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-17R | 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.): |
| 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*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: Jase Bowers | Sampling Time: | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: NF

Signature: Jase B

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/5/2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ or N | |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-18R | 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.): 25.30 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 18.30 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 1520 | | | | | | | |
| PH (s.u.) | 5.32 | | | | | | | |
| Specific Conductivity (µS/cm) | 92.4 | | | | | | | |
| Water Temperature (°C) | 21.8 | | | | | | | |
| Turbidity (NTU) | 576.96 | | | | | | | |
| Dissolved Oxygen (mg/L) | 5.04 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1521 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: No Purge

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 |
| ✔ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | Screened Interval (ft.): 10 to 25 | 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*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: Jase Bowers | Sampling Time: | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: NF

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 |
| ✔ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | | Screened Interval (ft.): 10 to 25 | 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*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: Jase Bowers | Sampling Time: | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: NF

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 |
| ✔ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | Screened Interval (ft.): 8 to 23 | Total Well Depth (TWD) (ft.): 20.36 | |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 15.65 | Free Product Thickness (ft.): | |
| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 1059 | | | | | | | |
| PH (s.u.) | 5.19 | | | | | | | |
| Specific Conductivity (µS/cm) | 21.6 | | | | | | | |
| Water Temperature (°C) | 21.7 | | | | | | | |
| Turbidity (NTU) | 183.56 | | | | | | | |
| Dissolved Oxygen (mg/L) | 7.79 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1010 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: NO purge

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 |
| ✔ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | | Screened Interval (ft.): 10 to 25 | 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*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: Jase Bowers | Sampling Time: | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: NF

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/6/2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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 |
| ✓ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | | Screened Interval (ft.): 9 to 24 | Total Well Depth (TWD) (ft.): 22.38 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 16.02 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 1020 | | | | | | | |
| PH (s.u.) | 4.72 | | | | | | | |
| Specific Conductivity (µS/cm) | 58.4 | | | | | | | |
| Water Temperature (°C) | 22.3 | | | | | | | |
| Turbidity (NTU) | 25.47 | | | | | | | |
| Dissolved Oxygen (mg/L) | 4.03 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1021 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: No Purge

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 |
| ✔ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | | Screened Interval (ft.): 8 to 23 | 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*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: Jase Bowers | Sampling Time: | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: NF

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 6 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 |
| ✔ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | | Screened Interval (ft.): 8 to 23 | Total Well Depth (TWD) (ft.): 21.00 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 14.18 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 0953 | | | | | | | |
| PH (s.u.) | 5.28 | | | | | | | |
| Specific Conductivity (µS/cm) | 92.9 | | | | | | | |
| Water Temperature (°C) | 21.4 | | | | | | | |
| Turbidity (NTU) | 74.26 | | | | | | | |
| Dissolved Oxygen (mg/L) | 4.51 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 0954 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: No Purge

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 |
| ✔ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | Screened Interval (ft.): 6 to 21 | Total Well Depth (TWD) (ft.): 19.48 | |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 13.15 | Free Product Thickness (ft.): | |
| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 0931 | | | | | | | |
| PH (s.u.) | 5.63 | | | | | | | |
| Specific Conductivity (µS/cm) | 27.5 | | | | | | | |
| Water Temperature (°C) | 29.4 | | | | | | | |
| Turbidity (NTU) | 111.44 | | | | | | | |
| Dissolved Oxygen (mg/L) | 6.34 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 0932 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: No Purge

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 6 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 |
| ✔ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | Screened Interval (ft.): 10 to 25 | Total Well Depth (TWD) (ft.): 21.47 | |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 18.31 | Free Product Thickness (ft.): | |
| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 0941 | | | | | | | |
| PH (s.u.) | 3.95 | | | | | | | |
| Specific Conductivity (µS/cm) | 370.3 | | | | | | | |
| Water Temperature (°C) | 21.4 | | | | | | | |
| Turbidity (NTU) | 44.79 | | | | | | | |
| Dissolved Oxygen (mg/L) | 7.85 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 0942 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: No Purge

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 |
| ✔ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | | Screened Interval (ft.): 10 to 25 | 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*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: Jase Bowers | Sampling Time: | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: NF

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 |
| ✔ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | | Screened Interval (ft.): 10 to 25 | 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*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: Jase Bowers | Sampling Time: | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: NF

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 |
| ✔ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | Screened Interval (ft.): 7 to 22 | 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*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: Jase Bowers | Sampling Time: | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: NF

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 6 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 |
| ✔ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | | Screened Interval (ft.): 16 to 20 | Total Well Depth (TWD) (ft.): 20.20 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 17.00 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | | | | | | | |
| Time (military) | 0919 | | | | | | | |
| PH (s.u.) | 21.4 5.27 | | | | | | | |
| Specific Conductivity (µS/cm) | 21.4 | | | | | | | |
| Water Temperature (°C) | 23.6 | | | | | | | |
| Turbidity (NTU) | 283.26 | | | | | | | |
| Dissolved Oxygen (mg/L) | 6.85 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 0920 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: NO Purge

Signature: Jase Bowers

dhec

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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 |
| ✓ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | | Screened Interval (ft.): to N/A | Total Well Depth (TWD) (ft.): 21.20 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 15.61 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): 5.59 | 1 casing volume (CV=LWC*C)(gals): 1 | 3 casing volumes 3*CV)(gals): 3 | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 1 | 2 | 3 | | | | |
| Time (military) | | | | | | | | |
| PH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1216 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: Historically HOT! ; Oil sheen; no parameters taken
dry @ 1.75 gal

Signature: Jase B

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 |
| ✔ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | Screened Interval (ft.): to N/A | Total Well Depth (TWD) (ft.): 20.68 | |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 15.78 | Free Product Thickness (ft.): | |
| Length of water column (LWC=TWD-DGW)(ft.): 4.9 | 1 casing volume (CV=LWC*C)(gals): .75 | 3 casing volumes 3*CV)(gals): 2.25 | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | .75 | 1.5 | 2.25 | | | | |
| Time (military) | | | | | | | | |
| PH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1205 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: Oil sheen; no parameters taken dry @ 2nd vol

Signature: Jase Bowers

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ or N | |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-3R | 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 N/A | 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*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*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: Jase Bowers | Sampling Time: | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: NF

Signature: Jase Bowers

dhec

# Underground Storage Tank Management Division
## Field Data Information Sheet – Sampling

### Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 5 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

### Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✓ or N | pH 7.0: ✓ or N | pH 10.0: ✓ or N | S.C.: ✓ or N |
| Dissolved Oxygen | | ✓ or N | | | |
| Turbidity | | 20.0 NTU: ✓ or N | 100.0 NTU: ✓ or N | 800.0 NTU: ✓ 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 |
| ✓ MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | | Screened Interval (ft.): to N/A | Total Well Depth (TWD) (ft.): 20.70 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 16.13 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): 4.57 | 1 casing volume (CV=LWC*C)(gals): .75 | 3 casing volumes 3*CV)(gals): 2.25 | 5 casing volumes (5*CV)(gals): |

### Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | .75 | 1.5 | 2.25 | | | | |
| Time (military) | | | | | | | | |
| PH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

### Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1226 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: oil sheen, no parameters taken dry @ 2nd vol

Signature: Jase B

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 6 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name: YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 X Pump |
| ___MW ___IW ___RW ✔ Other Telescoping Well ___Private WSW ___Public WSW | Screened Interval (ft.): 41 to 46 | Total Well Depth (TWD) (ft.): 42.71 | |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 17.08 | Free Product Thickness (ft.): | |
| Length of water column (LWC=TWD-DGW)(ft.): 25.63 | 1 casing volume (CV=LWC*C)(gals): 4 | 3 casing volumes 3*CV)(gals): 12 | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 4 | 8 | 12 | | | | |
| Time (military) | 0812 | 0822 | 0832 | 0844 | | | | |
| PH (s.u.) | 5.82 | 4.94 | 4.92 | 4.91 | | | | |
| Specific Conductivity (µS/cm) | 121.8 | 116.3 | 114.4 | 113.8 | | | | |
| Water Temperature (°C) | 23.4 | 22.7 | 22.3 | 22.1 | | | | |
| Turbidity (NTU) | 7.23 | 22.83 | 22.91 | 23.0 | | | | |
| Dissolved Oxygen (mg/L) | 5.01 | 4.97 | 4.94 | 4.90 | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 0845 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: _____

Signature: _____

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 07/ 6 /2023 | Site ID #: 18686 | Site Name: Tisdales Quick Stop | Field Personnel: Jase Bowers |
| County: Williamsburg | Project Manager: Arthur Brown | General Weather Conditions: Sunny | Ambient Air Temp (°F): 90 |

## Quality Assurance

| | | | | | |
|---|---|---|---|---|---|
| Meter Name YSI Pro DSS | Serial #: 19A101835 | Calibration: | | | |
| pH, Specific Conductivity, Temperature | | pH 4.0: ✔ or N | pH 7.0: ✔ or N | pH 10.0: ✔ or N | S.C.: ✔ or N |
| Dissolved Oxygen | | ✔ or N | | | |
| Turbidity | | 20.0 NTU: ✔ or N | 100.0 NTU: ✔ or N | 800.0 NTU: ✔ 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 X Pump |
| ___MW ___IW ___RW ✔ Other Telescoping Well ___Private WSW ___Public WSW | | Screened Interval (ft.): 46 to 51 | Total Well Depth (TWD) (ft.): 44.54 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 15.35 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): 29.19 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 0.25 | 4.5 | 9 | 13.5 | | | | |
| Time (military) | 1024 | | | 1048 | | | | |
| PH (s.u.) | 5.31 | 5.51 | 5.52 | 5.54 | | | | |
| Specific Conductivity (µS/cm) | 41.8 | 41.2 | 41.1 | 40.9 | | | | |
| Water Temperature (°C) | 13.3 | 21.8 | 21.6 | 21.6 | | | | |
| Turbidity (NTU) | 8.67 | 18.63 | 20.11 | 20.13 | | | | |
| Dissolved Oxygen (mg/L) | 6.03 | 6.21 | 6.19 | 6.20 | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Jase Bowers | Sampling Time: 1049 | Duplicate: Y or ✔ | If yes, Duplicate Time: |

Notes: _____

Signature: _____

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

**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: TISDALES QUICK STOP, 1989 THURGOOD MARSHALL BLVD, KINGSTREE, SC

4. Generator's Phone ( NA ) UST PERMIT # 18686

5. Transporter 1 Company Name: GEOLOGICAL RESOURCES, INC

6. US EPA ID Number

A. State Transporter's ID: GRI

B. Transporter 1 Phone: (704) 845-4010

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

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. PETROLEUM CONTACT WATER | 1 | DRUM | 4.75 | GALLONS |
| b. | | | | |
| c. | | | | |
| d. | | | | |

G. Additonal Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information: PCW GENERATED WHEN SAMPLING MONITORING WELLS @ TISDALE'S QUICK STOP SITE. SCDHEC UST PERMIT NO. 18686

**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: W. Scott Ball for TISDALE'S QUICK STOP | Signature: W Scott Ball | Date: Month 7 Day 5 Year 23

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jase Bowers | Signature: Jase Bowers | Date: Month 7 Day 5 Year 23

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 maifest, except as noted in item 19.

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

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 | | |

| Item # | Item | Yes | No | N/A |
|---|---|---|---|---|
| 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 |
| 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 | | |

| Item # | Item | Yes | No | N/A |
|---|---|---|---|---|
| 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 16 2024

EASLER MARTY
196 RICHBURD RD
GREELEYVILLE SC 29056

Re: **Site Specific Work Plan Request for Groundwater Sampling**
Tisdales Quick Stop, 1989 Thurgood Marshall Boulevard (Highway 527), Kingstree, SC
UST Permit #18686
Release reported March 30, 2001
Monitoring Report received August 11, 2023
Williamsburg County

To Whom It May Concern:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report submitted by your contractor. The report documents petroleum chemicals in the soil and/or groundwater above Risk-Based Screening Levels.

Pursuant to S.C. Code Ann. Section 44-2-40(D), "The SUPERB Account and the SUPERB Financial Responsibility Fund shall provide combined coverage for site rehabilitation and third party claims, respectively, not to exceed one million dollars per occurrence". **According to UST Division records, approximately $602,655.42 has been expended from the SUPERB Account to date.**

Your selected contractor has proposed groundwater sampling as the next appropriate scope of work. 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 R.61-92, submittal of the Site Specific Work Plan (SSWP) for groundwater sampling may proceed. All work must be conducted in compliance with the current revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan, and all applicable regulations. The QAPP is available at scdhec.gov/Environment/Land-Waste/Underground-Storage-Tanks/Release-Assessment-Clean/Quality-Assurance.

Groundwater samples should be collected from all monitoring wells associated with this release along with all water supply wells and surface waters within a 1,000 foot radius of the site. Samples should be analyzed for BTEX, Naphthalene, MTBE, 1,2-DCA, the 8 oxygenates, and EDB. All wells should be purged prior to sampling.

**Your contractor must complete the SSWP 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.**

**If the plan cannot be submitted by the required due date, an extension must be requested by submitting a written request, either via postal mail or email, to my attention prior to the due date. The Department will issue a Notice of Alleged Violation if the report/plan is not submitted by the required due date.**

On all correspondence concerning this site, please reference UST Permit number above. Should you have any questions, please contact me by phone at (803) 898-0500, by fax at (803) 898-0673, or by email at brownaj@dhec.sc.gov.

Sincerely,

Guinevere Brown, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Geological Resources, Inc., 3502 Hayes Road, Monroe, NC 28110 (w/o enc)
Technical file

**Geological Resources, Inc.**

April 30, 2024

RECEIVED
MAY 02 2024
UST DIVISION

UST 90 DOCKETING

Ms. Guinevere Brown
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. 24-287
Site Specific Work Plan – Ground Water Sampling
Tisdale's Quick Stop
1989 Thurgood Marshall Blvd
Kingstree, Williamsburg County
UST Permit No. 18686
GRI Project No. 1543

Dear Ms. Brown:

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

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: Guinevere Brown (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
Current Use of Property: Abandoned 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 (8260D)
- ☑ Oxygenates (8260D)
- ☑ EDB (8011)
- ☐ PAH (8270E)
- ☐ Lead
- ☐ 8 RCRA Metals
- ☐ TPH
- ☐ pH
- ☐ BOD
- ☐ Nitrate
- ☐ Sulfate
- ☐ Other
- ☐ Methane
- ☐ Ethanol
- ☐ Dissolved Iron

Drinking Water Supply Wells:

- ☑ BTEXNMDCA (524.2)
- ☑ Oxygenates & Ethanol (8260D)
- ☐ Mecury (200.8 245.1 or 245.2)
- ☐ RCRA Metals (200.8)
- ☑ EDB (504.1)

Soil:

- ☐ BTEXNM
- ☐ Lead
- ☐ PAH
- ☐ 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 | 3 Water Supply Wells | ____ Air | 3 Field Blank |
| 36 Monitoring Wells | ____ 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: NA Estimated Footage: ____ feet per point
# of deep wells: NA Estimated Footage: ____ feet per point
# of recovery wells: NA Estimated Footage: ____ feet per point
Comments, if warranted:

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

**Implementation Schedule** (Number of calendar days from approval)
Field Work Start-Up: 20 days from approval of SSWP Field Work Completion: 22 days from approval of SSWP
Report Submittal: 60 days from approval of SSWP # 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: 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 MW-4, MW-5R, MW-6 through MW-10, MW-11R, MW-12R, MW-13 through MW-15, MW-16R, MW-17R, MW-18R, MW-19 through MW-31, MW-1A through MW-4A, TW-1, TW-2 and water supply wells WSW-1 through WSW-3. All monitoring wells will be purged prior to sampling. The appropriate number of duplicate samples, field blanks and trip blanks will be collected/submitted. Monitoring well samples will be submitted for analyses of BTEX, MTBE, naphthalene, 1,2-DCA and 8 oxygenates using Method 8260 and EDB using Method 8011. WSW samples will be submitted for analyses of BTEX, MTBE, naphthalene and 1,2-DCA by Method 524.2, 8 oxygenates by Method 8260 and EDB by Method 504.1. Purge water from historically contaminated wells will be containerized.

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

____ 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

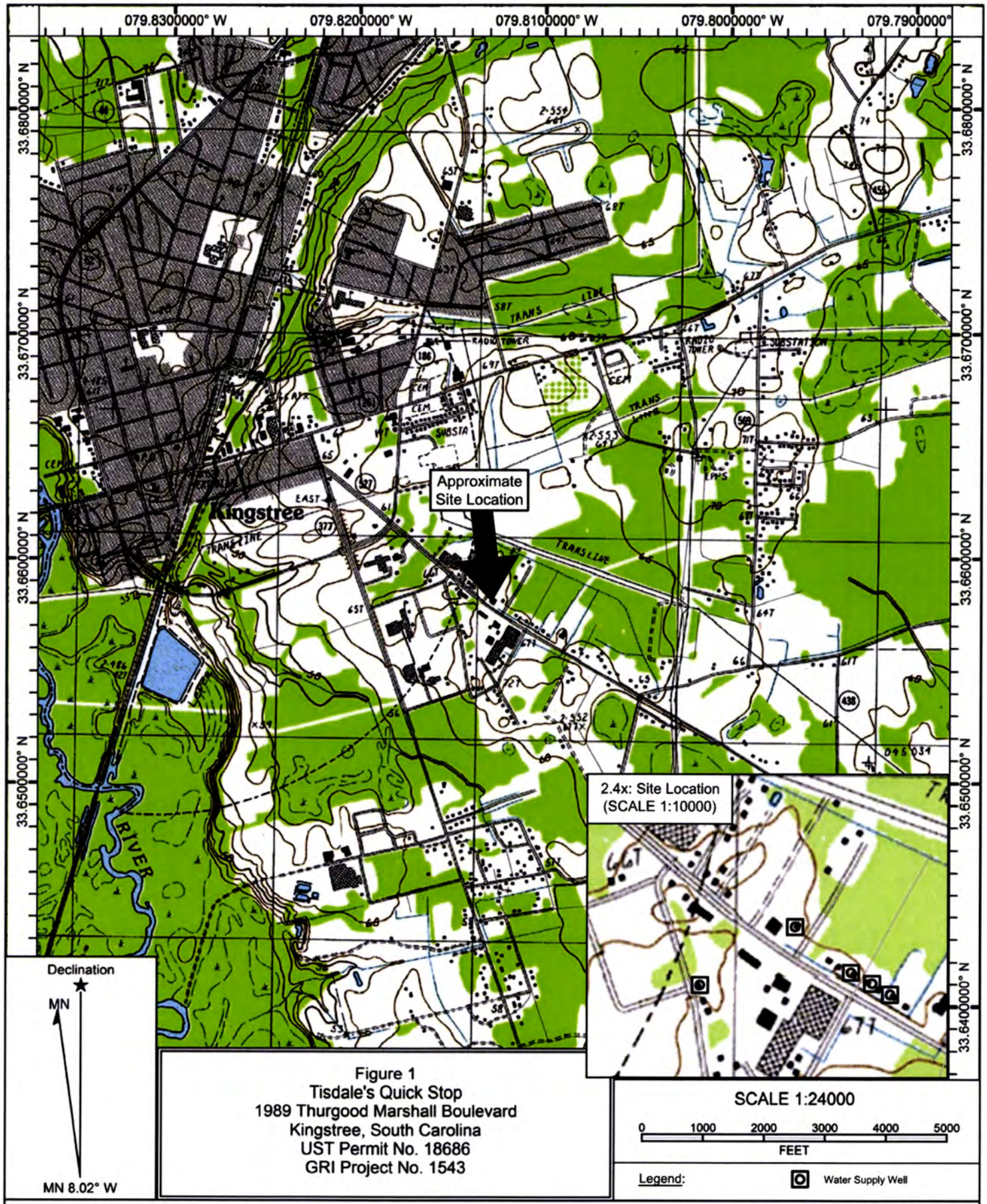



Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit No. 18686
GRI Project No. 1543

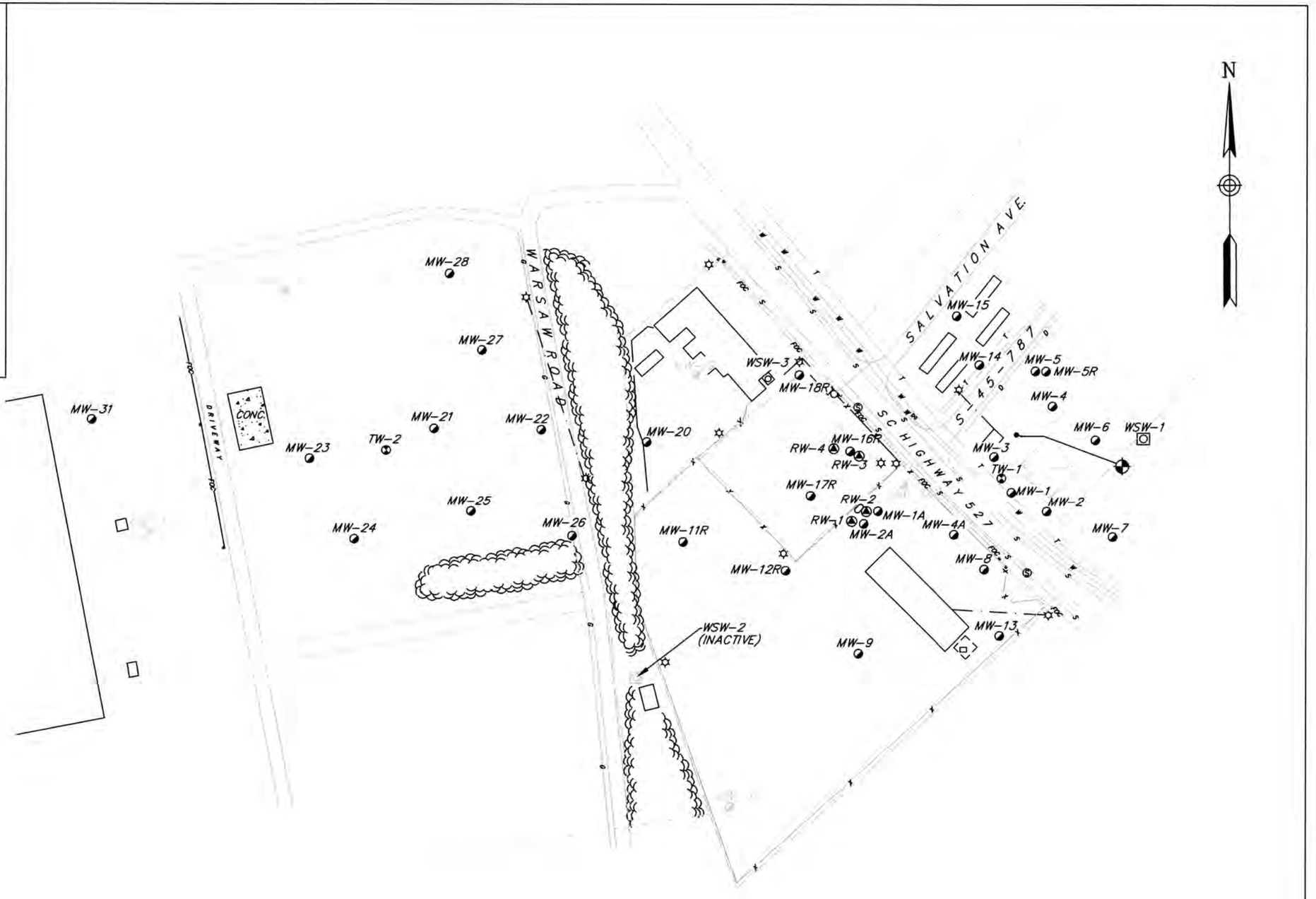
Name: Topographic Map
Date: 08/08/16
Scale: 1 inch = 2,000 ft.

Map Center Location: 033.6579897° N 079.8127613° W

Generated by Geological Resources, Inc.

LEGEND

- TYPE III MONITORING WELL
- TELESCOPING MONITORING WELL
- 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
- RECOVERY WELL




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: 08/12/2020 | Drawn by: DTH | Figure: 2 |
|---|---|---|

C:\Users\DARHOWARD\Desktop\New folder (2)\1543\1543 Base Map.dwg, Model, 8/12/2020 9:11:33 AM, DARHOWARD

**ASSESSMENT COMPONENT COST AGREEMENT**
South Carolina Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
August 9, 2023

**Facility Name:** **Tisdales Quick Stop**

GRI Proposal No. 24-287

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

| ITEM | QUANTITY | UNIT | UNIT PRICE | | TOTAL |
|---|---|---|---|---|---|
| **A. Plan Preparation** | | | | | |
| 1.2 Site-specific Work Plan | 1 | each | $183.22 | | $183.22 |
| 2.2 Tax Map | | each | $85.50 | | $0.00 |
| 3.2 QAPP Contractor Addendum (App B) | | each | $250.00 | | $0.00 |
| **B. Survey** | | | | | |
| 1.1 Receptor Survey | | each | $673.06 | | $0.00 |
| **C. Survey** | | | | | |
| 1.2 Comprehensive Survey | | each | $1,270.36 | | $0.00 |
| 5.1 Ground Penetrating Radar Survey (100 x 100) | | each | $1,111.57 | | $0.00 |
| **D. Mob/Demob** | | | | | |
| 1.2 Equipment | | each | $1,245.93 | | $0.00 |
| 2.2 Personnel | 3 | each | $516.69 | | $1,550.07 |
| 3.2 Adverse Terrain Vehicle | | each | $610.75 | | $0.00 |
| **E. Soil Borings** | | | | | |
| 1.1 Soil Borings (hand auger) | | foot | $21.80 | | $0.00 |
| **F. Soil Borings (requiring equipment, push technology, etc) or Field Screening (including sampling and analyst)** | | | | | |
| 1.2 Standard | | per foot | $33.50 | | $0.00 |
| 2.2 Fractured Rock | | per foot | $41.40 | | $0.00 |
| **G.** | | | | | |
| **H. Well Abandonment** | | | | | |
| 1.2 2" diameter or less | | per foot | $3.79 | | $0.00 |
| 2.2 Greater than 2" to 6" diameter | | per foot | $5.50 | | $0.00 |
| 3.2 Dug/Bored well (up to 6 feet diameter) | | per foot | $18.32 | | $0.00 |
| **I. Well Installation (In accordance with R.61-71)** | | | | | |
| 1.2 Water Table (hand augered) | | per foot | $31.40 | | $0.00 |
| 2.B Water Table (drill rig) 2" Diameter | | per foot | $54.90 | | $0.00 |
| 2.2 Single-cased 2" Diameter Monitoring Well >50ft | | per foot | $59.80 | | $0.00 |
| 3.2 Telescoping | | per foot | $84.70 | | $0.00 |
| 4.2 Rock Drilling | | per foot | $81.80 | | $0.00 |
| 5.2 2" Rock Coring | | per foot | $88.50 | | $0.00 |
| 6.2 Multi-sampling ports/screens | | per foot | $59.40 | | $0.00 |
| 7.2 Recovery Well (4" diameter) | | per foot | $69.60 | | $0.00 |
| 9.2 Rotosonic (2" diameter) | | per foot | $119.00 | | $0.00 |
| 10.2 Re-develop Existing Well | | per foot | $13.44 | | $0.00 |

| | | | | |
|---|---|---|---|---|
| **J. Groundwater Sample Collection / Gauging Depth to Water/Product** | | | | |
| 1.2 Groundwater Purge | 36 | per well | $73.29 | $2,638.44 |
| 2.2 Air or Vapors | | sample | $14.66 | $0.00 |
| 3.2 Water Supply Sample | 3 | sample | $26.87 | $80.61 |
| 4.1A HydraSleeve | | sample | $34.20 | $0.00 |
| 4.2B No-purge Groundwater Sample/Surface water | | sample | $57.24 | $0.00 |
| 5.2 Gauge Well only | | sample | $8.55 | $0.00 |
| 6.2 Sample Below Product | | sample | $14.66 | $0.00 |
| 7.2 Passive Diffusion Bag | | sample | $31.75 | $0.00 |
| 8.2 Field Duplicates (MWs & WSWs) and Field Bla | 6 | sample | $30.06 | $180.36 |
| 9.2 Groundwater (low flow purge) | | sample | $111.16 | $0.00 |
| 10.2 Equipment Blank | | sample | $30.06 | $0.00 |
| 11.1 Sample Product | | per well | $52.66 | $0.00 |
| **K. Laboratory Analyses-Groundwater** | | | | |
| 1.2 BTEXNM+Oxyg's+1,2 DCA+Eth(8260D) | 41 | per sample | $149.02 | $6,109.82 |
| 2.2 Lead, Filtered | | per sample | $16.85 | $0.00 |
| 3.2 Rush EPA Method 8260B | | per sample | $187.62 | $0.00 |
| 4.2 Trimethal, Butyl, and Isopropyl Benzenes | | per sample | $34.20 | $0.00 |
| 5.2 PAH's | | per sample | $74.02 | $0.00 |
| 6.2 Lead | | per sample | $19.54 | $0.00 |
| 7.2 EDB by EPA 8011 | 40 | per sample | $55.21 | $2,208.40 |
| 8.2 EDB by EPA Method 8011 Rush | | per sample | $83.31 | $0.00 |
| 9.2 8 RCRA Metals | | per sample | $77.45 | $0.00 |
| 10.2 TPH (9070) | | per sample | $50.09 | $0.00 |
| 11.2 PH | | per sample | $6.35 | $0.00 |
| 12.2 BOD | | per sample | $24.42 | $0.00 |
| 13.2 Ethanol | | per sample | $18.08 | $0.00 |
| **K. Analyses-Drinking Water** | | | | |
| 14.2 BTEXNM+1,2 DCA (524.2) | 6 | per sample | $151.52 | $909.12 |
| 15.2 7-OXYGENATES & ETHANOL (8260D) | 6 | per sample | $112.07 | $672.42 |
| 16.2 EDB (504.1) | 5 | per sample | $97.11 | $485.55 |
| 17.2 RCRA METALS (200.8) | | per sample | $122.15 | $0.00 |
| **K. Analyses-Soil** | | | | |
| 18.2 BTEX + Naphth. | | per sample | $78.18 | $0.00 |
| 19.2 PAH's | | per sample | $78.22 | $0.00 |
| 20.2 8 RCRA Metals | | per sample | $68.89 | $0.00 |
| 21.2 TPH-DRO (3550C/8015C) | | per sample | $48.86 | $0.00 |
| 22.2 TPH-GRO (5035B/8015C) | | per sample | $43.92 | $0.00 |
| 23.2 Grain size/hydrometer | | per sample | $127.04 | $0.00 |
| 24.2 Total Organic Carbon | | per sample | $37.38 | $0.00 |
| **K. Analyses-Air** | | | | |
| 25.2 BTEX + Naphthalene | | per sample | $263.84 | $0.00 |

| | | | | | |
|---|---|---|---|---|---|
| **K. Hydrocarbon Fuel Identification** | | | | | |
| 27.1 C3-C44 Whole Oil (ASTM D3328) | | per sample | $465.93 | | $0.00 |
| 28.1 Fuel Oxygenates (1624 Mod) | | per sample | $398.39 | | $0.00 |
| 29.1 ALKYL Leads, EDB MMT (8080) | | per sample | $398.39 | | $0.00 |
| 30.1 C8-C40 Full Scan (ASTM 5739) | | per sample | $629.64 | | $0.00 |
| 31.1 Simulated Distillation (ASTM 2887) | | per sample | $398.39 | | $0.00 |
| 32.1 Parent & Alk. PAH Com. (8270 SIM) | | per sample | $723.63 | | $0.00 |
| 33.1 C3-C10 Piano (8260 MOD) | | per sample | $599.88 | | $0.00 |
| 34.1 C10+Alkane Fingerprints | | per sample | $599.88 | | $0.00 |
| 35.1 Expert Data Interpretation & Report | | each | $595.30 | | $0.00 |
| **L. Aquifer Characterization** | | | | | |
| 1.2 Pumping Test | | per hour | $28.09 | | $0.00 |
| 2.2 Slug Test | | per test | $233.31 | | $0.00 |
| 3.2 Fractured Rock | | per test | $122.15 | | $0.00 |
| **M. Free Product** | | | | | |
| 1.1 Free Product Recovery Rate Test | | each | $46.42 | | $0.00 |
| **N.** | | | | | |
| **O. Risk Evaluation** | | | | | |
| 1.2 Tier I Risk Evaluation | | each | $366.45 | | $0.00 |
| 2.2 Tier II Risk Evaluation | | each | $122.15 | | $0.00 |
| **P. Survey** | | | | | |
| 1.1 Subsequent Survey | | each | $297.65 | | $0.00 |
| **Q. Disposal (gallons or tons)** | | | | | |
| 1.2 Wastewater | 100 | gallon | $1.19 | | $119.00 |
| 2.2 Free Product | | gallon | $1.63 | | $0.00 |
| 3.2 Soil Treatment/Disposal | | ton | $156.25 | | $0.00 |
| 4.2 Drilling fluids | | gallon | $1.25 | | $0.00 |
| **R. Miscellaneous (attach receipts)** | | | | | |
| | | each | $0.00 | | $0.00 |
| | | each | $0.00 | | $0.00 |
| | | each | $0.00 | | $0.00 |
| **T. Tier I Assessment (Use DHEC 3665 form)** | | | | | |
| 1.2 Southeast Region | | standard | $12,622.56 | | $0.00 |
| 2.2 All Other Counties | | standard | $13,844.06 | | $0.00 |
| **U. IGWA (Use DHEC 3666 form)** | | | | | |
| 1.2 Southeast Region | | standard | $4,353.67 | | $0.00 |
| 2.2 All Other Counties | | standard | $4,720.01 | | $0.00 |
| **22. Active Correction Action** | | PFP | Bid Cost | | $0.00 |

| | | | | | |
|---|---|---|---|---|---|
| **W. Aggressive Fluid & Vapor Recovery (AFVR)** | | | | | |
| 1.2 8-hour Event | | per event | $1,787.40 | | $0.00 |
| 2.1 24-hour Event | | per event | $4,407.78 | | $0.00 |
| 3.1 48-hour Event | | per event | $7,242.29 | | $0.00 |
| 4.1 96-hour Event | | per event | $14,482.28 | | $0.00 |
| 5.1 Off-gas Treatment 8 hour | | per event | $141.17 | | $0.00 |
| 6.2 Off-gas Treatment 24 hour | | per event | $294.30 | | $0.00 |
| 7.2 Off-gas Treatment 48 hour | | per event | $386.10 | | $0.00 |
| 8.1 Off-gas Treatment 96 hour | | per event | $898.84 | | $0.00 |
| 9.1 Off-gas Treatment 8 hour (w/chlorinated compounds) | | per event | $464.40 | | $0.00 |
| 10.1 Off-gas Treatment 24 hour (w/chlorinated compounds) | | per event | $540.00 | | $0.00 |
| 11.1 Off-gas Treatment 48 hour (w/chlorinated compounds) | | per event | $1,080.00 | | $0.00 |
| 12.1 Off-gas Treatment 96 hour (w/chlorinated compounds) | | per event | $2,160.00 | | $0.00 |
| 13.2 AFVR Effluent Disposal(w/chlorinated compounds) | | gallon | $0.64 | | $0.00 |
| 14.2 AFVR Site Reconnaissance | | each | $302.40 | | $0.00 |
| 15.1 Additional Hook-ups | | each | $29.68 | | $0.00 |
| 16.2 AFVR Effluent Disposal | | gallon | $0.53 | | $0.00 |
| 17.2 AFVR Mobilization/Demobilization | | each | $777.60 | | $0.00 |
| 18.1 Mobilization for absorbents/skimmers | | each | $516.69 | | $0.00 |
| 19.1 Well sock 2" ID well | | each | $36.94 | | $0.00 |
| 20.1 Well sock 4" ID well | | each | $49.03 | | $0.00 |
| 21.1 pad (per pad) | | each | $49.95 | | $0.00 |
| 22.1 3" diameter x 10' length boom | | each | $108.00 | | $0.00 |
| 23.1 5" diameter x 10' length boom | | each | $132.84 | | $0.00 |
| 24.1 New FPP recovery skimmer (2" wells) | | each | $791.10 | | $0.00 |
| 25.1 New FPP recovery skimmer (4" wells) | | each | $1,247.40 | | $0.00 |
| 26.1 Refurbished FPP recovery skimmer (2" or 4" wells) | | each | $760.32 | | $0.00 |
| 27.1 Disposal of Absorbents | | pound | $4.10 | | $0.00 |
| 28.1 Disposal of product from skimmers | | gallon | $0.50 | | $0.00 |
| **X. Granulated Activated Carbon (GAC) filter system installation & service:** | | | | | |
| 1.2 New GAC System Installation | | each | $2,320.86 | | $0.00 |
| 2.2 Refurbished GAC Sys. Install | | each | $1,099.35 | | $0.00 |
| 3.2 Filter replacement/removal | | each | $427.53 | | $0.00 |
| 4.2 GAC System removal, cleaning, & refurbishment | | each | $335.92 | | $0.00 |
| 5.2 GAC System housing | | each | $305.38 | | $0.00 |
| 6.2 In-line particulate filter | | each | $183.22 | | $0.00 |
| 7.2 Additional piping & fittings | | foot | $1.84 | | $0.00 |
| **Y. Well Repair** | | | | | |
| 1.2 Additional Copies of the Report Delivered | 1 | each | $61.07 | | $61.07 |
| 2.2 Repair 2x2 MW pad | | each | $61.07 | | $0.00 |
| 3.2 Repair 4x4 MW pad | | each | $107.49 | | $0.00 |
| 4.2 Replace well vault | | each | $144.14 | | $0.00 |
| 5.2 Replace well cover bolts | | each | $3.18 | | $0.00 |
| 6.2 Replace locking well cap & lock | | each | $18.32 | | $0.00 |
| 7.2 Replace/Repair stick-up | | each | $163.68 | | $0.00 |
| 8.2 Convert Flush-mount to Stick-up | | each | $183.22 | | $0.00 |
| 9.2 Convert Stick-up to Flush-mount | | each | $158.79 | | $0.00 |
| 10.2 Replace missing/illegible well ID plate | | each | $14.66 | | $0.00 |
| 11.1 Down-hole Camera | | per foot | $29.25 | | $0.00 |

| | | | | | |
|---|---|---|---|---|---|
| Z. **High Resolution Site Characterization** | | | | | |
| 1.1 HRSC Screening Equipment Mobilization | | each | $1,468.80 | | $0.00 |
| 2.1 HRSC Drilling Category 1 | | per foot | $31.32 | | $0.00 |
| 3.1 HRSC Drilling Category 2 | | per foot | $36.18 | | $0.00 |
| 4.1 HRSC Drilling Category 3 | | per foot | $29.16 | | $0.00 |
| 5.1 HRSC 3-D Model | | each | $4,363.20 | | $0.00 |
| **S. Report Prep & Project Management** | 12% | percent | $15,198.08 | | $1,823.77 |
| **TOTAL** | | | | | $17,021.85 |

dhec
Healthy People. Healthy Communities.

JUN 14 2024

UST 91 DOCKETING

EASLER MARTY
196 RICHBURG RD
GREELEYVILLE SC 29056

Re: **Site Specific Work Plan Approval and Groundwater Sampling Notice to Proceed**
Tisdales Quick Stop, 1989 Thurgood Marshall Boulevard (Highway 527), Kingstree, SC
UST Permit #18686; CA #68788
Release #1 reported March 30, 2001
Site Specific Work Plan received May 2, 2024
Williamsburg County

Dear Mr. Easler:

The Underground Storage Tank Management Division (UST 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. The groundwater sampling event should begin immediately upon receipt of this letter. All work should be conducted in compliance with the current revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan, and all applicable regulations. The QAPP is available at scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance.

Pursuant to S.C. Code Ann. Section 44-2-40(D), "The SUPERB Account and the SUPERB Financial Responsibility Fund shall provide combined coverage for site rehabilitation and third party claims, respectively, not to exceed one million dollars per occurrence". **According to UST Division records, approximately $602,655.42 has been expended from the SUPERB Account to date.** This scope of work, as recommended by your contractor, is anticipated to cost approximately $17,021.85

**The contractor must provide notification to the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes to the schedule, the UST Project Manager must be contacted within 24 hours of those changes.**

In accordance with Section IV.A.4.c of the SUPERB Site Rehabilitation & Fund Access Regulation (R.61-98), the contractor shall be required to indemnify the property owner, underground storage tank owner/operator and the State of South Carolina from and against all claims, damages, losses and expenses arising out of or resulting from activity conducted by the contractor, its agents, employees or subcontractors.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. **The Monitoring Report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the UST Division within sixty (60) days of the date of this correspondence.** 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.

**If the report cannot be submitted by the required due date, an extension may be requested by submitting a written request, either via postal mail or email, to my attention prior to the due date. The Department will issue a Notice of Alleged Violation if the report is not submitted by the required due date.**

Please note that sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that the SUPERB Account cannot compensate any costs that are not pre-approved. 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 UST 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 UST 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. **Per Section III.3.b of the SUPERB Site Rehabilitation and Fund Access Regulations (R.61-98), reimbursement for site rehabilitation activities shall in no event exceed the actual costs incurred.**

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 a DHEC-certified site rehabilitation contractor as required by the SUPERB Site Rehabilitation and Fund Access Regulation, R.61-98.

The UST 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.

The contractor will be responsible for keeping and preserving suitable records of hydrological and other site assessments, site plans, contracts, accounts, invoices, or other transactions related to the cleanup and rehabilitation and the records must be accessible to the department during regular business hours. In addition, this includes all subcontractor agreements, invoices, correspondence, plans, reports, records, including electronic and paper formats. All records must be maintained for 10 years after project completion.

On all correspondence regarding this site, please reference the UST Permit number above. Should you have any questions, please contact me by phone at (803) 898-0500, by fax at (803) 898-0673, or by email at brownaj@dhec.sc.gov.

Sincerely,

Guinevere Brown, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

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

# Approved Cost Agreement 68788

Facility: 18686 TISDALES QUICK STOP
BROWNAJ
PO Number:

| Task / Description | Categories | Item | Description | Qty / Pct | Unit Price | Amount |
|---|---|---|---|---|---|---|
| A PLAN PREPARATION | | | | | | |
| | | 1.2 | SITE SPECIFIC WORK PLAN | 1.0000 | $183.220 | 183.22 |
| D MOB/DEMOB | | | | | | |
| | | 2.2 | PERSONNEL | 3.0000 | $516.690 | 1,550.07 |
| J SAMPLE COLLECTION | | | | | | |
| | | 1.2 | GROUND WATER PURGE | 36.0000 | $73.290 | 2,638.44 |
| | | 3.2 | WATER SUPPLY SAMPLE | 3.0000 | $26.870 | 80.61 |
| | | 8.2 | FIELD DUPL. (MWS & WSWS) & FB | 6.0000 | $30.060 | 180.36 |
| K ANALYSES | | | | | | |
| | DW DRINKING WATER | 14.2 | BTEXNM+1,2 DCA (524.2) WSW | 6.0000 | $151.520 | 909.12 |
| | | 15.2 | OXYGENATES & ETHANOL 8260D | 6.0000 | $112.070 | 672.42 |
| | | 16.2 | EDB (504.1) | 5.0000 | $97.110 | 485.55 |
| | GW GROUNDWATER | 1.2 | BTEXNM+OXYGS+1,2 DCA+ETH 8260D | 41.0000 | $149.020 | 6,109.82 |
| | | 7.2 | EDB BY EPA 8011 | 40.0000 | $55.210 | 2,208.40 |
| Q DISPOSAL | | | | | | |
| | | 1.2 | WASTEWATER | 100.0000 | $1.190 | 119.00 |
| S REPORT PROJECT MANAGEMENT | | | | | | |
| | | S | REPORT PREP & PROJ. MANAGEMENT | 0.1200 | $15,198.080 | 1,823.77 |
| Y WELL REPAIR | | | | | | |
| | | 1.2 | ADDITIONAL COPIES OF REPORT | 1.0000 | $61.070 | 61.07 |
| | | | | **Total Amount** | | 17,021.85 |

# Document Receipt Information

☐ Hard Copy ☐ CD ☐ Email

Date Received 8-13-24

Permit Number 1686

Project Manager G. Brown

Name of Contractor GRF

Description GWM

92 tcf

Docket Number

Scanned

Verified

Geological Resources, Inc.

August 9, 2024

Ms. Guinevere Brown
SCDHEC
UST Management Division
Bureau of Land & Waste Management
2600 Bull Street
Columbia, SC 29201

Re: Ground Water Monitoring Report
June 2024
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County
South Carolina
UST Permit Number: 18686
GRI Project Number: 1543

Dear Ms. Brown,

Please find enclosed the referenced report for the abovementioned site.
If you have any questions, please do not hesitate to contact Scott Ball at (704) 845-4010.

Sincerely,
**Geological Resources, Inc.**

Christa Benton
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**

Geological Resources, Inc.

Ground Water Monitoring Report
June 2024
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, Williamsburg County
South Carolina
UST Permit Number: 18686
GRI Project Number: 1543

Prepared for:

Mr. Marty Easler
196 Richburg Road
Greeleyville, South Carolina 29056

August 9, 2024

W. Scott Ball
Project Manager

SAMUEL L. McKAY, III
REGISTERED
No. 2783
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

Samuel L. McKay, III, P.G.
License No. 2783

**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**
**Class 1 UST Site Rehabilitation Contractor #74**

**ACRONYMS**

ACM: Asbestos Containing Materials

AFVR: Aggressive Fluid-Vapor Recovery

AS: Air Sparging

AST: Aboveground Storage Tank

ASTM: American Society for Testing and Materials

BGS: Below Ground Surface

BLWM: Bureau of Land and Waste Management

CA: Cost Agreement

CAP: Corrective Action Plan

CFR: Code of Federal Regulations

COC: Chain of Custody

CoC: Chemical of Concern

DPE: Dual Phase Extraction

DRO: Total Petroleum Hydrocarbons Diesel Range Organics

EPA: Environmental Protection Agency

ER: Engineering Report

ESA: Environmental Site Assessment

GC: Gas Chromatograph

GRI: Geological Resources, Inc.

GRO: Total Petroleum Hydrocarbons Gasoline Range Organics

IGWA: Initial Ground Water Assessment

MCL: Maximum Contaminant Level

MDL: Method Detection Limit

MNA: Monitored Natural Attenuation

NAPL: Non-Aqueous Phase Liquid, "Free Product"

NPDES: National Pollutant Discharge Elimination System

OVA: Organic Vapor Analyzer

PAHs: Polynuclear Aromatic Hydrocarbons

QA: Quality Assurance

QAPP: Quality Assurance Project Plan

QC: Quality Control

QMP: Quality Management Plan

RBSL: Risk-Based Screening Level

SCDES: South Carolina Department of Environmental Services

SCDHEC: South Carolina Department of Health and Environmental Control

SCDOT: South Carolina Department of Transportation

SOP: Standard Operating Procedure

SPCC: Spill Prevention Control and Countermeasures

SSTL: Site Specific Target Level

SSWP: Site Specific Work Plan

SVE: Soil Vapor Extraction

SVOCs: Semi-Volatile Organic Compounds

SWPPP: Stormwater Pollution Prevention Plan

TCLP: Toxicity Characteristic Leaching Procedure (EPA Method SW-846 1311)

TOC: Top of Casing

TPH: Total Petroleum Hydrocarbons

USGS: United States Geological Survey

UST: Underground Storage Tank

UVF: Ultraviolet Fluorescence

VOCs: Volatile Organic Compounds

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Appendix C: Disposal Manifest
Appendix D: Contractor Checklist

## 1. INTRODUCTION

### 1.1 Project Background

This report presents the results of ground water sampling activities conducted in June 2024 at the Tisdale's Quick Stop site, located at 1989 Thurgood Marshall Boulevard in Kingstree, Williamsburg County, South Carolina. A topographic map of the general site location and the surrounding area is included as **Figure 1**. The activities were conducted in accordance with the "Site-Specific Work Plan Approval and Groundwater Sampling Notice to Proceed" dated June 14, 2024, 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 facility and currently operates as a convenience store and grill. Adjacent properties are currently used for residential and commercial purposes.

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. According to the SCDHEC 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 USTs and one 1,000-gallon diesel UST were removed in March 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.

Five water supply wells (WSW-1 through WSW-5) were identified within 1,000 feet of the source area during a receptor survey conducted in January 2002. WSW-1 is located on an adjacent property approximately 170 feet northeast of the on-site source area. Water supply well WSW-2 is located approximately 650 feet to the southwest of the source area. Currently, WSW-2 is inoperable. Water supply wells WSW-3 through WSW-5 are located to the southeast of the source area on single family residential properties fronting the north side of Highway 527. Each of these properties has access to the municipal water supply, and the wells are not in use or are used for irrigation purposes only. No surface water bodies were identified within a 1,000-foot radius of the site.

Four recovery wells (RW-1 through RW-4) were installed in the area of highest contaminant concentrations in January 2019. Two 96-hour AFVR events were conducted in February 2019 on MW-2A, MW-16R, RW-1, RW-2, RW-3 and RW-4 to reduce concentrations of chemicals of concern. The last comprehensive ground water sampling event conducted at the site occurred in July 2023. This report summarizes the June 2024 ground water monitoring results. Please refer to earlier submittals for additional information regarding previous assessment activities.

### 1.2 Regional Geology/Hydrogeology

The site is located in Williamsburg County in the Lower Coastal Plain Physiographic Province of South Carolina. The Coastal Plain is an extensive geologic province that roughly parallels the Atlantic Ocean and continues northward and southward through the neighboring states. In South Carolina, the Coastal Plain is expressed physiographically in three regional belts: the Upper Coastal Plain, the Middle Coastal Plain and the Lower Coastal Plain. The surface deposits in the Coastal Plain are generally characterized by a recurrent sequence of clean fine to medium sand, muddy fine sand, and clean to muddy, medium to coarse sand or gravelly sand. These textures represent changes in depositional environments from beach, to back barrier, to river respectively.

The major aquifer systems in the Middle and Lower Coastal Plain are the Middendorf Aquifer System, the Black Creek Aquifer System, the Tertiary Aquifer System and the Surficial Aquifer System. The surficial aquifer system consists mostly of beds of unconsolidated sand, shelly sand and shells. In places, clay beds are sufficiently thick and continuous to divide the system into two or three aquifers; however, the system is mostly undivided. Complex interbedding of fine-and coarse-grained textured rocks is typical of the system. The thickness of the surficial aquifer system is typically less than 50 feet and thickens coastward. The rocks that comprise the surficial aquifer system range from late Miocene to Holocene in age.

## 2. SITE INFORMATION

- **Site Identification**
  - Site Name: Tisdale's Quick Stop
  - Location of Source Area: 1989 Thurgood Marshall Boulevard<br>Kingstree, SC 29526<br>Williamsburg County<br>33.6579897°N, 79.8127613°W (Topographical Map)
  - UST Permit Number: 18686
  - Land Use: Commercial

- **Information about Contacts Associated with the Leaking UST System**

**UST Owner/Operator**
Marty Easler
196 Richburg Road
Greeleyville, SC 29056
(843) 372-2502

**Property Owner**
Andy McKnight (Life)
316 McCullough Loop
Kingstree, SC 29566
(843) 382-2474

**Analytical Laboratory**
Waypoint Analytical, LLC
449 Springbrook Road
Charlotte, NC 28217
State Certification No. 99012
(704) 529-6364

**Site Rehabilitation Contractor**
Geological Resources, Inc.
3502 Hayes Road
Monroe, NC 28110
704-845-4010
Class 1, Certification Number 74

- **Information about Release**
  - Release was discovered March 30, 2001.
  - An unknown amount of product was released from a leaking UST system.
  - Two 550-gallon gasoline USTs and one 1,000-gallon diesel UST were removed March 1, 2001.

## 3. ASSESSMENT INFORMATION

### 3.1 Site Geology/Hydrogeology

Based on information obtained during the site assessment activities, the material encountered during subsurface exploration consisted of various silts, clays and sands to depths of approximately 51 feet, the maximum depth investigated.

Eighteen Type III monitoring wells (MW-1, MW-2, MW-7, MW-9, MW-11R, MW-12R, MW-13, MW-14, MW-15, MW-16R, MW-17R, MW-26, MW-27, MW-28, MW-31, MW-1A, MW-2A and MW-4A), one

telescoping monitoring well (TW-1), and two water supply wells (WSW-1 and WSW-3) were gauged, purged and/or sampled on June 27, 2024. Monitoring wells MW-3, MW-4, MW-5R, MW-6, MW-8, MW-10, MW-18R, MW-19 through MW-25, MW-29, MW-30, MW-3A, and TW-2 were inaccessible or could not be located; therefore, they were neither gauged nor sampled. Measurable free product was not observed in any of the monitoring wells during the June 2024 gauging activities.

The depths to ground water in the Type III monitoring wells at the site, measured on June 27, 2024, ranged from 9.15 feet to 19.16 feet below the top of casings. Ground water elevations in the Type III monitoring wells relative to a temporary benchmark of 100.00 ranged from 78.01 to 89.49 feet. Based on this data, the general direction of ground water flow in the Type III wells was toward the northwest. The shallow horizontal hydraulic gradient calculated across the site was approximately 0.018 feet/foot. The vertical hydraulic gradient between paired wells MW-1/TW-1 was 0.035 feet/foot downward. A Site Map showing the locations of the monitoring wells and the structures on-site is included as **Figure 2**. A Water Table Surface Map is included as **Figure 3**. A summary of ground water gauging data for the June 2024 sampling event is included in **Table 1**. A summary of the June 2024 gauging data is shown below:

| **Well No.** | **Top of Casing Elevation** (ft) | **Depth to Ground Water** (ft) | **Ground Water Elevation** (ft) | **Constructed Well Depth** (ft) | **Screened Interval** (ft) |
|---|---|---|---|---|---|
| MW-1 | 98.80 | 14.92 | 83.88 | 20 | 10-20 |
| MW-2 | 98.81 | 9.32 | 89.49 | 25 | 10-25 |
| MW-3 | 98.75 | NM | NM | 25 | 10-25 |
| MW-4 | 98.58 | NM | NM | 25 | 10-25 |
| MW-5R | 98.23 | NM | NM | 25 | 10-25 |
| MW-6 | 95.42 | NM | NM | 21.5 | 11.5-21.5 |
| MW-7 | 98.20 | 14.58 | 83.62 | 22 | 12-22 |
| MW-8 | 98.14 | NM | NM | 22 | 12-22 |
| MW-9 | 98.50 | 15.67 | 82.83 | 22 | 12-22 |
| MW-10 | 96.68 | NM | NM | 25 | 10-25 |
| MW-11R | 95.13 | 13.32 | 81.81 | 20 | 5-20 |
| MW-12R | 96.04 | 13.62 | 82.42 | 20 | 5-20 |
| MW-13 | 98.97 | 15.53 | 83.44 | 25 | 10-25 |
| MW-14 | 98.37 | 15.12 | 83.25 | 25 | 10-25 |
| MW-15 | 99.53 | 16.51 | 83.02 | 25 | 10-25 |
| MW-16R | 97.98 | 9.15 | 88.83 | 25 | 10-25 |
| MW-17R | 96.90 | 14.37 | 82.53 | 25 | 10-25 |
| MW-18R | 99.36 | NM | NM | 25 | 10-25 |
| MW-19 | 100.27 | NM | NM | 25 | 10-25 |
| MW-20 | 97.19 | NM | NM | 25 | 10-25 |
| MW-21 | 95.68 | NM | NM | 23 | 8-23 |
| MW-22 | 96.62 | NM | NM | 25 | 10-25 |
| MW-23 | 95.78 | NM | NM | 24 | 9-24 |
| MW-24 | 93.85 | NM | NM | 23 | 8-23 |
| MW-25 | 94.28 | NM | NM | 23 | 8-23 |
| MW-26 | 93.92 | 12.51 | 81.41 | 21 | 6-21 |
| MW-27 | 98.18 | 16.99 | 81.19 | 25 | 10-25 |
| MW-28 | 98.43 | 17.34 | 81.09 | 25 | 10-25 |
| MW-29 | NM | NM | NM | 25 | 10-25 |
| MW-30 | NM | NM | NM | 22 | 7-22 |

| Well No. | Top of Casing Elevation (ft) | Depth to Ground Water (ft) | Ground Water Elevation (ft) | Constructed Well Depth (ft) | Screened Interval (ft) |
|---|---|---|---|---|---|
| MW-31 | 95.95 | 16.08 | 79.87 | 20 | 10-20 |
| MW-1A | 97.17 | 19.16 | 78.01 | Unknown | Unknown |
| MW-2A | 97.28 | 14.43 | 82.85 | Unknown | Unknown |
| MW-3A | NM | NM | NM | Unknown | Unknown |
| MW-4A | 98.07 | 14.76 | 83.31 | Unknown | Unknown |
| TW-1 | 99.00 | 16.12 | 82.88 | 46 | 41-46 |
| TW-2 | 95.29 | NM | NM | 51 | 46-51 |

### 3.2 Ground Water Quality

Field readings (pH, specific conductivity, temperature, dissolved oxygen, and turbidity) were collected from the purged wells after each well volume was removed and recorded on field data information sheets. Ground water samples collected from the monitoring wells were analyzed for the following compounds: BTEX, MTBE, naphthalene, 1,2-DCA and 8 oxygenates by EPA Method 8260D and EDB by Method 8011. The ground water samples collected from the water supply wells were submitted for analyses of BTEX, MTBE, naphthalene, and 1,2-DCA by Method 524.2, 8 oxygenates by Method 8260D, and EDB by 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-14, MW-16R, MW-17R, MW-27, MW-1A, MW-2A, and MW-4A. No detectable concentrations of oxygenates exceeded the action levels reported in the collected ground water samples. No detectable concentrations of requested method constituents were reported in the samples collected from water supply wells WSW-1 or WSW-3. A summary of the June 2024 ground water sampling data is shown below:

| Well No. | 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 | **5,030** | **4,000** | **1,300** | 6,500 | **91.7** | **341** | <15.0 | <0.00742 |
| MW-2 | **13,200** | **9,960** | **1,460** | 6,770 | <140 | **538 J** | <150 | **0.221** |
| MW-3 | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-4 | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-5R | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-6 | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-7 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00739 |
| MW-8 | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-9 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | 0.0461 |
| MW-10 | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-11R | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00742 |
| MW-12R | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00756 |
| MW-13 | 4.02 | 5.16 | 0.396 J | 2.62 | 1.10 | <0.470 | <0.150 | <0.00756 |
| MW-14 | **5.09** | 0.436 J | 0.451 J | 0.269 J | 0.423 J | 0.546 J | <0.150 | 0.0316 Q |
| MW-15 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00739 |
| MW-16R | **358** | **1,730** | 225 | 1,520 | <14.0 | **48.0 J** | <15.0 | <0.00742 |

| Well No. | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | Naphthalene | 1,2-DCA | EDB |
|---|---|---|---|---|---|---|---|---|
| MW-17R | **1,570** | 116 | 173 | 256 | **297** | **49.3** | <1.50 | <0.00746 |
| MW-18R | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-19 | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-20 | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-21 | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-22 | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-23 | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-24 | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-25 | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-26 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00742 |
| MW-27 | 0.639 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | **0.128 Q** |
| MW-28 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00735 |
| MW-29 | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-30 | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-31 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00742 |
| MW-1A | **712** | 234 | 6.96 | 93.5 | 35.2 | <4.70 | <1.50 | <0.00725 |
| MW-2A | **19,200** | **29,900** | **2,380** | **13,900** | <140 | **2,190** | <150 | **0.146** |
| MW-3A | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-4A | **1,320** | **2,720** | 212 | 4,430 | <14.0 | **179** | <15.0 | <0.00735 |
| TW-1 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00725 |
| TW-2 | NS | NS | NS | NS | NS | NS | NS | NS |
| WSW-1 | <0.00021 | <0.00020 | <0.00022 | <0.00022 | <0.00014 | <0.00035 | <0.00016 | <0.00343 |
| WSW-3 | <0.00021 | <0.00020 | <0.00022 | <0.00022 | <0.00014 | <0.00035 | <0.00016 | <0.00353 |

A Ground Water Quality Map based on data from the June 2024 sampling event is included as **Figure 4**. Summaries of ground water analytical results are presented in **Table 2** and **Table 3**. A complete laboratory analytical report is included as **Appendix A**. Field Data Information Sheets are included as **Appendix B**.

## 4. 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 (DUP-A) and from water supply well WSW-3 (DUP-C), and field blanks were collected during the sampling activities. Laboratory provided trip blanks were included in the sample cooler. Laboratory results for each sample and their respective duplicate sample showed the same compounds at similar concentrations. No detectable concentrations of requested method constituents were reported in the field blanks or trip blanks. All applicable items on the Contractor Checklist were reviewed and verified. A copy of the Contractor Checklist is included as **Appendix C**.

## 5. CONCLUSIONS AND RECOMMENDATIONS

- Eighteen Type III monitoring wells, one telescoping monitoring well, and two water supply wells were gauged, purged, and/or sampled on June 27, 2024.

- The depths to ground water in the Type III monitoring wells at the site, measured on June 27, 2024, ranged from 9.15 feet to 19.16 feet below the top of casings. Ground water elevations in the Type III monitoring wells relative to a temporary benchmark of 100.00 ranged from 78.01 to 89.49 feet. Based on this data, the general direction of ground water flow in the Type III wells was toward the northwest. The shallow horizontal hydraulic gradient calculated across the site was approximately 0.018 feet/foot. The vertical hydraulic gradient between paired wells MW-1/TW-1 was 0.035 feet/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-14, MW-16R, MW-17R, MW-27, MW-1A, MW-2A, and MW-4A. No detectable concentrations of oxygenates exceeded the action levels reported in the collected ground water samples. No detectable concentrations of requested method constituents were reported in the samples collected from water supply wells WSW-1 or WSW-3.
- GRI makes the following recommendations:
- Additional AFVR events should be conducted to reduce concentrations of chemicals of concern.
- Due to the presence of nearby water supply wells, ground water sampling events should continue at the site as directed by SCDHEC.

## 6. 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**

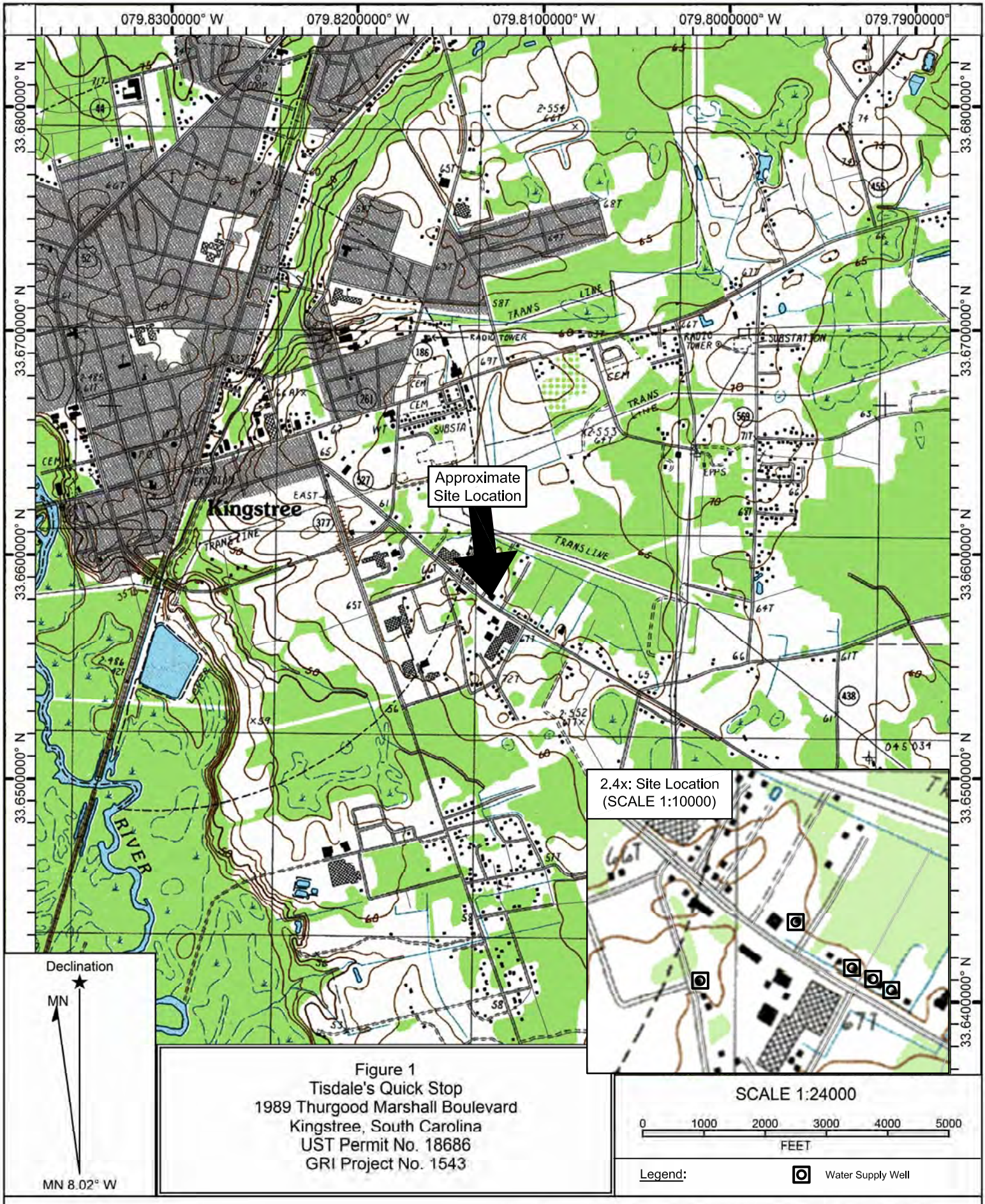



Figure 1
Tisdale's Quick Stop
1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
UST Permit No. 18686
GRI Project No. 1543

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
- RECOVERY WELL

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: 08/12/2020 | Drawn by: DTH | Figure: 2 |
|---|---|---|

C:\Users\DARHOWARD\Desktop\New folder (2)\1543\1543 Base Map.dwg, Model, 8/12/2020 9:11:33 AM, DARHOWARD

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
- 82.0 — 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 (06/24/2024)

Tisdale's Quick Stop
UST Permit No. 18686
GRI Project No. 1543

1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
Williamsburg County

Date: 06/27/2024 | Drawn by: DTH | Figure: 3

## 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

| | |
|---|---|
| **6,100** | BENZENE |
| **8,540** | TOLUENE |
| **1,090** | ETHYLBENZENE |
| 6,560 | XYLENES |
| **150** | MTBE |
| **369** | NAPHTHALENE |

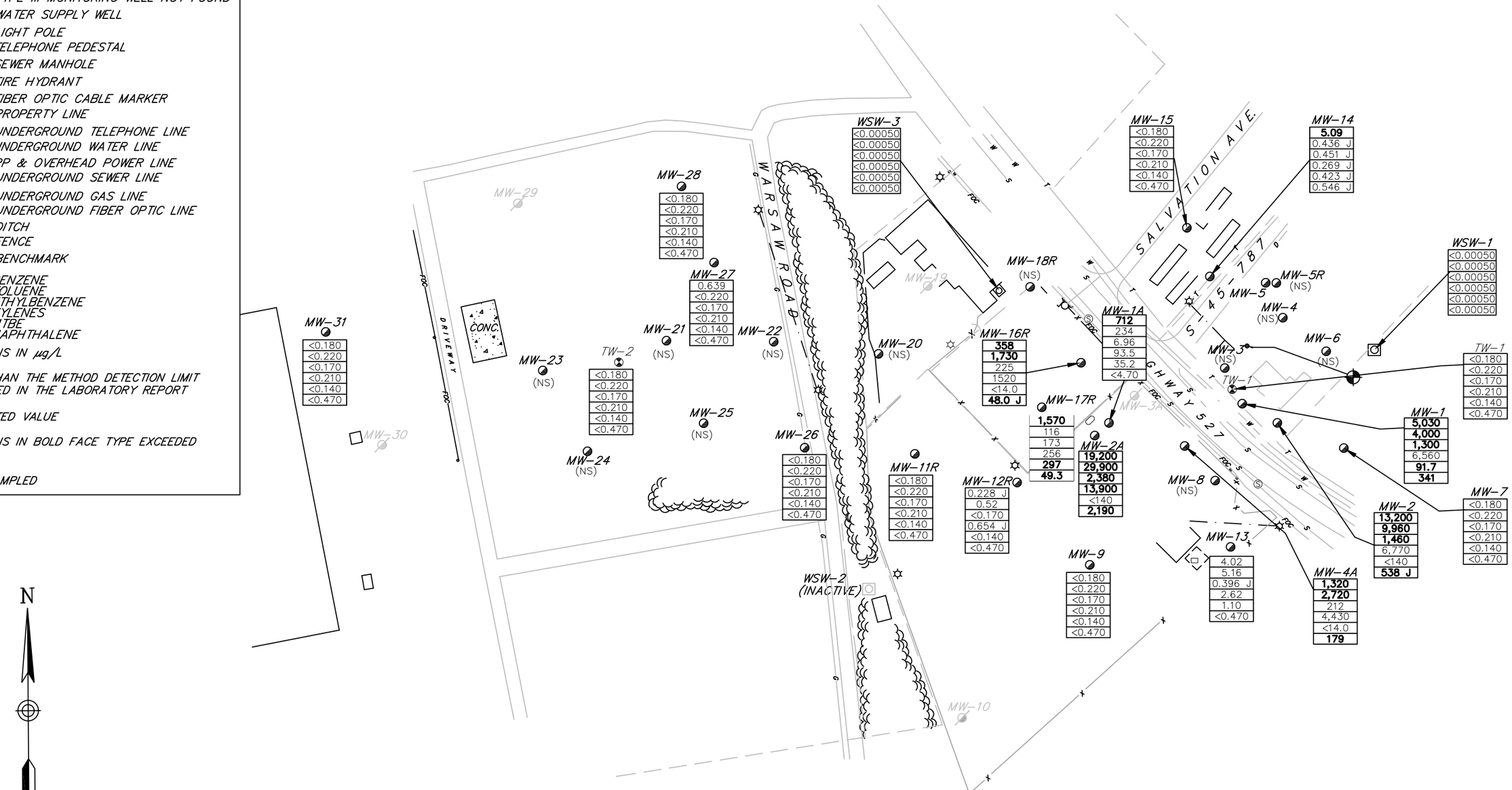
CONCENTRATIONS IN µg/L

<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.

0 50 100 200

( IN FEET )
1 inch = 100 ft

GROUND WATER QUALITY MAP (06/27/2024)

Tisdale's Quick Stop
UST Permit No. 18686
GRI Project No. 1543

1989 Thurgood Marshall Boulevard
Kingstree, South Carolina
Williamsburg County

Date: 08/05/2024 | Drawn by: DTH | Figure: 4

**TABLES**

**TABLE 1**
**SUMMARY OF GROUND WATER ELEVATION DATA**
**TISDALES QUICK STOP**

| 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 | | |
| | 07/16/20 | | 12.63 | --- | 86.17 | | |
| | 04/13/21 | | 10.80 | --- | 88.00 | | |
| | 06/07/22 | | 15.89 | --- | 82.91 | | |
| | 07/05/23 | | 16.02 | --- | 82.78 | | |
| | 06/27/24 | | 14.92 | --- | 83.88 | | |
| 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 | | |
| | 07/16/20 | | 12.88 | --- | 85.93 | | |
| | 04/13/21 | | 11.01 | --- | 87.80 | | |
| | 06/07/22 | | 16.14 | --- | 82.67 | | |
| | 07/05/23 | | 16.25 | --- | 82.56 | | |
| | 06/27/24 | | 9.32 | --- | 89.49 | | |
| 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 | | |
| | 07/16/20 | | 12.77 | --- | 85.98 | | |
| | 04/13/21 | | 10.93 | --- | 87.82 | | |
| | 06/07/22 | | 15.98 | --- | 82.77 | | |
| | 07/05/23 | | 16.02 | --- | 82.73 | | |
| | 06/27/24 | | NM | NM | NM | | |

**TABLE 1**
**SUMMARY OF GROUND WATER ELEVATION DATA**
**TISDALES QUICK STOP**

| 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-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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 07/05/23 | | NM | NM | NM | | |
| | 06/27/24 | | NM | NM | NM | | |
| 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 |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 10.65 | --- | 87.58 | | |
| | 06/07/22 | | 15.96 | --- | 82.27 | | |
| | 07/05/23 | | NM | NM | NM | | |
| | 06/27/24 | | NM | NM | NM | | |
| 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 | | |
| | 07/16/20 | | NM | --- | NM | | |
| | 04/13/21 | | NM | NM | NM | | |
| | 06/07/22 | | NM | NM | NM | | |
| | 07/05/23 | | NM | NM | NM | | |
| | 06/27/24 | | NM | NM | NM | | |

**TABLE 1**
**SUMMARY OF GROUND WATER ELEVATION DATA**
**TISDALES QUICK STOP**

| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | NM | NM | NM | | |
| | 06/07/22 | | 15.62 | --- | 82.58 | | |
| | 07/05/23 | | 15.67 | --- | 82.53 | | |
| | 06/27/24 | | 14.58 | --- | 83.62 | | |
| 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 | | |
| | 07/16/20 | | 12.46 | --- | 85.68 | | |
| | 04/13/21 | | 10.75 | --- | 87.39 | | |
| | 06/07/22 | | 15.85 | --- | 82.29 | | |
| | 07/05/23 | | 15.92 | --- | 82.22 | | |
| | 06/27/24 | | NM | NM | NM | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 11.77 | --- | 86.73 | | |
| | 06/07/22 | | 16.88 | --- | 81.62 | | |
| | 07/05/23 | | 16.93 | --- | 81.57 | | |
| | 06/27/24 | | 15.67 | --- | 82.83 | | |

**TABLE 1**
**SUMMARY OF GROUND WATER ELEVATION DATA**
**TISDALES QUICK STOP**

| 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-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 | | |
| | 07/05/23 | | NM | NM | NM | | |
| | 06/27/24 | | NM | NM | NM | | |
| 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 | NM | | |
| MW-11R | 04/18/18 | 95.13 | 11.94 | --- | 83.19 | 20 | 5-20 |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 9.51 | --- | 85.62 | | |
| | 06/07/22 | | 14.31 | --- | 80.82 | | |
| | 07/05/23 | | 14.36 | --- | 80.77 | | |
| | 06/27/24 | | 13.32 | --- | 81.81 | | |
| 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 | NM | | |
| MW-12R | 04/18/18 | 96.04 | 12.33 | --- | 83.71 | 20 | 5-20 |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 9.76 | --- | 86.28 | | |
| | 06/07/22 | | 14.73 | --- | 81.31 | | |
| | 07/05/23 | | 14.77 | --- | 81.27 | | |
| | 06/27/24 | | 13.62 | --- | 82.42 | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 11.51 | --- | 87.46 | | |
| | 06/07/22 | | 16.66 | --- | 82.31 | | |
| | 07/05/23 | | 16.75 | --- | 82.22 | | |
| | 06/27/24 | | 15.53 | --- | 83.44 | | |

**TABLE 1**
**SUMMARY OF GROUND WATER ELEVATION DATA**
**TISDALES QUICK STOP**

| 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 | | |
| | 07/16/20 | | 12.76 | --- | 85.61 | | |
| | 04/13/21 | | 10.97 | --- | 87.40 | | |
| | 06/07/22 | | 15.73 | --- | 82.64 | | |
| | 07/05/23 | | 16.07 | --- | 82.30 | | |
| | 06/27/24 | | 15.12 | --- | 83.25 | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 12.53 | --- | 87.00 | | |
| | 06/07/22 | | 17.36 | --- | 82.17 | | |
| | 07/05/23 | | 17.51 | --- | 82.02 | | |
| | 06/27/24 | | 16.51 | --- | 83.02 | | |
| 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 | NM | | |
| MW-16R | 04/18/18 | 97.98 | 13.83 | --- | 84.15 | 25 | 10-25 |
| | 07/16/20 | | 12.75 | --- | 85.23 | | |
| | 04/13/21 | | 11.16 | --- | 86.82 | | |
| | 06/07/22 | | 16.03 | --- | 81.95 | | |
| | 07/05/23 | | 16.20 | --- | 81.78 | | |
| | 06/27/24 | | 9.15 | --- | 88.83 | | |
| 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 | NM | | |

**TABLE 1**
**SUMMARY OF GROUND WATER ELEVATION DATA**
**TISDALES QUICK STOP**

| 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-17R | 04/18/18 | 96.90 | 13.10 | --- | 83.80 | 25 | 10-25 |
| | 07/16/20 | | 12.22 | --- | 84.68 | | |
| | 04/13/21 | | 10.61 | --- | 86.29 | | |
| | 06/07/22 | | NM | NM | NM | | |
| | 07/05/23 | | NM | NM | NM | | |
| | 06/27/24 | | 14.37 | --- | 82.53 | | |
| 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 | NM | | |
| MW-18R | 04/18/18 | 99.36 | 15.86 | --- | 83.50 | 25 | 10-25 |
| | 07/16/20 | | NM | --- | NM | | |
| | 04/13/21 | | 13.37 | --- | 85.99 | | |
| | 06/07/22 | | 18.22 | --- | 81.14 | | |
| | 07/05/23 | | 18.30 | --- | 81.06 | | |
| | 06/27/24 | | NM | 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 | | |
| | 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 | | |
| | 04/13/21 | | NM | NM | NM | | |
| | 06/07/22 | | NM | NM | NM | | |
| | 07/05/23 | | NM | NM | NM | | |
| | 06/27/24 | | 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | NM | NM | NM | | |
| | 06/07/22 | | NM | NM | NM | | |
| | 07/05/23 | | NM | NM | NM | | |
| | 06/27/24 | | NM | NM | NM | | |

**TABLE 1**
**SUMMARY OF GROUND WATER ELEVATION DATA**
**TISDALES QUICK STOP**

| 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 | 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 11.06 | --- | 84.62 | | |
| | 06/07/22 | | 15.79 | --- | 79.89 | | |
| | 07/05/23 | | 15.65 | --- | 80.03 | | |
| | 06/27/24 | | NM | NM | NM | | |
| 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 | | |
| | 07/16/20 | | 13.17 | --- | 83.45 | | |
| | 04/13/21 | | NM | NM | NM | | |
| | 06/07/22 | | NM | NM | NM | | |
| | 07/05/23 | | NM | NM | NM | | |
| | 06/27/24 | | NM | NM | NM | | |
| 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 | | |
| | 07/16/20 | | 12.99 | --- | 82.79 | | |
| | 04/13/21 | | 11.46 | --- | 84.32 | | |
| | 06/07/22 | | 15.56 | --- | 80.22 | | |
| | 07/05/23 | | 16.02 | --- | 79.76 | | |
| | 06/27/24 | | NM | NM | NM | | |

**TABLE 1**
**SUMMARY OF GROUND WATER ELEVATION DATA**
**TISDALES QUICK STOP**

| 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-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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 9.31 | --- | 84.54 | | |
| | 06/07/22 | | NM | NM | NM | | |
| | 07/05/23 | | NM | NM | NM | | |
| | 06/27/24 | | NM | NM | NM | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 9.42 | --- | 84.86 | | |
| | 06/07/22 | | 14.12 | --- | 80.16 | | |
| | 07/05/23 | | 14.18 | --- | 80.10 | | |
| | 06/27/24 | | NM | NM | NM | | |

**TABLE 1**
**SUMMARY OF GROUND WATER ELEVATION DATA**
**TISDALES QUICK STOP**

| 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-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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 8.91 | --- | 85.01 | | |
| | 06/07/22 | | 13.38 | --- | 80.54 | | |
| | 07/05/23 | | 13.15 | --- | 80.77 | | |
| | 06/27/24 | | 12.51 | --- | 81.41 | | |
| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 13.27 | --- | 84.91 | | |
| | 06/07/22 | | 18.89 | --- | 79.29 | | |
| | 07/05/23 | | 18.31 | --- | 79.87 | | |
| | 06/27/24 | | 16.99 | --- | 81.19 | | |

**TABLE 1**
**SUMMARY OF GROUND WATER ELEVATION DATA**
**TISDALES QUICK STOP**

| 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-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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 13.63 | --- | 84.80 | | |
| | 06/07/22 | | 18.24 | --- | 80.19 | | |
| | 07/05/23 | | NM | NM | NM | | |
| | 06/27/24 | | 17.34 | --- | 81.09 | | |
| 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 | | |
| | 07/05/23 | | NM | NM | NM | | |
| | 06/27/24 | | 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 | | |
| | 07/05/23 | | NM | NM | NM | | |
| | 06/27/24 | | NM | NM | NM | | |

**TABLE 1**
**SUMMARY OF GROUND WATER ELEVATION DATA**
**TISDALES QUICK STOP**

| 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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 12.53 | --- | 83.42 | | |
| | 06/07/22 | | 16.93 | --- | 79.02 | | |
| | 07/05/23 | | 17.00 | --- | 78.95 | | |
| | 06/27/24 | | 16.08 | --- | 79.87 | | |
| 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 | | |
| | 07/16/20 | | 12.22 | --- | 84.95 | | |
| | 04/13/21 | | 10.64 | --- | 86.53 | | |
| | 06/07/22 | | 15.51 | --- | 81.66 | | |
| | 07/05/23 | | 15.61 | --- | 81.56 | | |
| | 06/27/24 | | 19.16 | --- | 78.01 | | |

**TABLE 1**
**SUMMARY OF GROUND WATER ELEVATION DATA**
**TISDALES QUICK STOP**

| 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 | | |
| | 07/16/20 | | 12.36 | --- | 84.92 | | |
| | 04/13/21 | | 10.93 | --- | 86.35 | | |
| | 06/07/22 | | 15.65 | --- | 81.63 | | |
| | 07/05/23 | | 15.78 | --- | 81.50 | | |
| | 06/27/24 | | 14.43 | --- | 82.85 | | |
| 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 | | |
| | 07/05/23 | | NM | NM | NM | | |
| | 06/27/24 | | NM | NM | NM | | |
| 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 | | |
| | 07/16/20 | | 12.69 | --- | 85.38 | | |
| | 04/13/21 | | 11.01 | --- | 87.06 | | |
| | 06/07/22 | | 16.06 | --- | 82.01 | | |
| | 07/05/23 | | 16.13 | --- | 81.94 | | |
| | 06/27/24 | | 14.76 | --- | 83.31 | | |

**TABLE 1**
**SUMMARY OF GROUND WATER ELEVATION DATA**
**TISDALES QUICK STOP**

| 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-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 | | |
| | 07/16/20 | | NM | NM | NM | | |
| | 04/13/21 | | 12.02 | --- | 86.98 | | |
| | 06/07/22 | | 17.04 | --- | 81.96 | | |
| | 07/05/23 | | 17.08 | --- | 81.92 | | |
| | 06/27/24 | | 16.12 | --- | 82.88 | | |
| 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 | | |
| | 07/16/20 | | 12.22 | --- | 83.07 | | |
| | 04/13/21 | | 10.71 | --- | 84.58 | | |
| | 06/07/22 | | 15.32 | --- | 79.97 | | |
| | 07/05/23 | | 15.35 | --- | 79.94 | | |
| | 06/27/24 | | NM | NM | NM | | |

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; gauging not request by SCDHEC.
- 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 |
| | 07/16/20 | **101** | 437 | 98.7 | 654 | <1.1 | **45.7** | <1.6 | <0.0096 |
| | 04/13/21 | **1,230** | **2,040** | 53.4 | 2,640 | **53.1** | **117 J** | <16 | <0.0050 |
| | 06/07/22 | **2,140** | **4,220** | 322 | 2,500 | <11 | **104 J** | <16 | <0.0093 |
| | 07/05/23 | **6,100** | **8,540** | **1,090** | 6,560 | **150** | **369** | <15.0 | <0.00338 |
| | 06/27/24 | **5,030** | **4,000** | **1,300** | 6,500 | **91.7** | **341** | <15.0 | <0.00742 |
| 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 |
| | 07/16/20 | **214** | 820 | 179 | 1,210 | <2.3 | **86.1** | <3.1 | <0.0095 |
| | 04/13/21 | **1,240** | **2,000** | 53.4 | 2,590 | **56.2** | **120 J** | <16 | <0.0050 |
| | 06/07/22 | **1,560** | **2,840** | 278 | 2,060 | 32.5 J | **97.5 J** | <16 | <0.0095 |
| | 07/05/23 | **6,130** | **8,980** | **1,090** | 6,700 | **142** | **445** | <15.0 | <0.00340 |
| | 06/27/24 | **5,170** | **4,130** | **1,030** | 5,120 | **102** | **289** | <15.0 | <0.00728 |
| 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** |
| | 07/16/20 | **1,100** | 390 | 197 | 937 | <4.6 | **68.8 J** | <6.2 | <0.0093 |
| | 04/13/21 | **1,990** | 434 | 329 | 1,380 | 8.5 J | **139** | <7.8 | <0.0050 |
| | 06/07/22 | **8,050** | 870 | **721** | 3,260 | <5.7 | **245** | <7.8 | <0.0093 |
| | 07/05/23 | **6,830** | **2,760** | **941** | 4,240 | <14.0 | **235** | <15.0 | <0.00338 |
| | 06/27/24 | **13,200** | **9,960** | **1,460** | 6,770 | <140 | **538 J** | <150 | **0.221** |
| MW-2 DUP | 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** |
| | 07/05/23 | **7,070** | **2,820** | **932** | 4,150 | <14.0 | **435** | <15.0 | <0.00338 |
| 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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0095 |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/07/22 | **17.2** | 3.6 | 4.0 | 2.3 J | <0.23 | 1.9 J | <0.31 | <0.0093 |
| | 07/05/23 | **11.3** | 4.24 | 3.41 | 3.84 J | <0.140 | 1.40 | <0.150 | <0.00338 |
| | 06/27/24 | 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-3 | 06/24/15 | 0.24 J | 14.2 | 16.1 | 112 | <0.30 | 8.1 | <0.20 | <0.0095 |
| DUP | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | 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 | - | <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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/07/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | 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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0095 |
| | 07/05/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00338 |
| | 06/27/24 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00739 |
| 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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/07/22 | 1.0 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0096 |
| | 07/05/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00338 |
| | 06/27/24 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 07/05/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00340 |
| | 06/27/24 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | 0.0461 |

**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-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 |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | 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 |
| MW-11R | 04/18/18 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0093 |
| | 07/05/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00338 |
| | 06/27/24 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00742 |
| 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 |
| MW-12R | 04/18/18 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0093 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0095 |
| | 07/05/23 | 0.228 J | 0.52 | <0.170 | 0.654 J | <0.140 | <0.470 | <0.150 | <0.00337 |
| | 06/27/24 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00756 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | 2.4 | <1.0 | <0.31 | <0.0049 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 07/05/23 | <0.180 | <0.220 | <0.170 | <0.210 | 0.63 | <0.470 | <0.150 | <0.00340 |
| | 06/27/24 | 4.02 | 5.16 | 0.396 J | 2.62 | 1.10 | <0.470 | <0.150 | <0.00756 |

**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-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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | 0.013 J |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 07/05/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00335 |
| | 06/27/24 | **5.09** | 0.436 J | 0.451 J | 0.269 J | 0.423 J | 0.546 J | <0.150 | 0.0316 Q |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 07/05/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00337 |
| | 06/27/24 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00739 |
| 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 |
| MW-16R | 04/18/18 | **16,300** | **59,700** | **6,460** | **34,900** | **56.7 J** | **1,320** | <62 | **0.21** |
| | 07/16/20 | **209** | **4,420** | 652 | 5,340 | <11 | **54.9 J** | <16 | <0.0094 |
| | 04/13/21 | **162** | **1,190** | 488 | 3,370 | <4.6 | **85.1 J** | <6.2 | <0.0050 |
| | 06/07/22 | **532** | **3,140** | 322 | 2,480 | <4.6 | **94.4 J** | <6.2 | <0.0092 |
| | 07/05/23 | **529** | **3,960** | 443 | 3,600 | <14.0 | <47.0 | <15.0 | <0.00337 |
| | 06/27/24 | **358** | **1,730** | 225 | 1,520 | <14.0 | **48.0 J** | <15.0 | <0.00742 |
| 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 |
| | 07/16/20 | **26.2** | 325 | 87.1 | 387 | 4.3 J | 13.6 J | <1.6 | <0.0094 |
| | 04/13/21 | 3.2 | 3.7 | 5.6 | 75.6 | 2.1 | 2.2 J | <0.31 | <0.0051 |
| | 06/07/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | **1,570** | 116 | 173 | 256 | **297** | **49.3** | <1.50 | <0.00746 |

**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-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-18R | 04/18/18 | 1.9 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0093 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 07/05/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00337 |
| | 06/27/24 | 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 |
| | 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 |
| | 04/18/18 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-19 DUP | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/06/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | 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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/06/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0092 |
| | 07/06/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00335 |
| | 06/27/24 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | 0.58 J | <1.0 | <0.31 | 0.028 |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/06/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | 4.6 | <1.0 | <0.31 | <0.0095 |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/06/22 | <0.31 | <0.30 | <0.36 | <0.72 | 5.6 | <1.0 | <0.31 | <0.0093 |
| | 07/06/23 | <0.180 | <0.220 | <0.170 | <0.210 | 19.70 | <0.470 | <0.150 | <0.00335 |
| | 06/27/24 | NS | NS | NS | NS | NS | NS | NS | NS |

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**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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0051 |
| | 06/06/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/06/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 07/06/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00335 |
| | 06/27/24 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/06/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0093 |
| | 07/06/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00340 |
| | 06/27/24 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00742 |

**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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/06/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0093 |
| | 07/06/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00332 |
| | 06/27/24 | 0.639 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | **0.128 Q** |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/06/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0095 |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00735 |
| 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 |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | 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-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 |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0049 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0097 |
| | 07/05/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00337 |
| | 06/27/24 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00742 |

**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-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 |
| | 07/16/20 | **869** | **2,180** | 50.5 | 1,840 | <5.7 | <25 | <7.8 | <0.0093 |
| | 04/13/21 | **132** | 116 | 3.5 | 344 | <0.46 | 6.4 J | <0.62 | <0.0050 |
| | 06/07/22 | **81.0** | 51.0 | 2.6 | 94.6 | <0.46 | 2.9 J | <0.62 | <0.0096 |
| | 07/05/23 | **228** | 79.2 | 2.72 J | 22.1 | 6.59 | <4.70 | <1.50 | <0.00335 |
| | 06/27/24 | **712** | 234 | 6.96 | 93.5 | 35.2 | <4.70 | <1.50 | <0.00725 |
| 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** |
| | 07/16/20 | **3,970** | **9,330** | 571 | 5,290 | <11 | **272** | <16 | <0.0094 |
| | 04/13/21 | **3,300** | **8,950** | 526 | 8,970 | <46 | **253 J** | <62 | 0.0094 J |
| | 06/07/22 | **19,900** | **22,500** | **2,310** | **12,200** | **173 J** | **618 J** | <62 | **0.16** |
| | 07/05/23 | **28,800** | **44,700** | **2,890** | **14,800** | **110** | **723** | <15.0 | **0.125** |
| | 06/27/24 | **19,200** | **29,900** | **2,380** | **13,900** | <140 | **2,190** | <150 | **0.146** |
| MW-2A DUP | 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** |
| | 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 |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | 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** |

**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-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** |
| | 07/16/20 | **3,560** | **10,800** | 289 | 4,560 | <46 | <200 | <62 | <0.0095 |
| | 04/13/21 | **5,590** | **17,300** | 584 | **10,100** | <57 | <250 | <78 | 0.0086 J |
| | 06/07/22 | **1,140** | **5,320** | 379 | 7,040 | <23 | **197 J** | <31 | <0.0097 |
| | 07/05/23 | **11,500** | **35,900** | **1,640** | **13,800** | <14.0 | **566** | <15.0 | 0.062 |
| | 06/27/24 | **1,320** | **2,720** | 212 | 4,430 | <14.0 | **179** | <15.0 | <0.00735 |
| MW-4A DUP | 06/24/15 | **8,140** | **37,100** | **2,460** | **19,900** | 7.4 | **867 J** | 1.6 | **0.0624** |
| | 04/13/21 | **5,250** | **15,900** | 544 | 9,680 | <46 | <200 | <62 | 0.013 J |
| | 06/07/22 | **974** | **6,100** | 302 | 6,900 | <4.6 | **203** | <6.2 | <0.0094 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0096 |
| | 07/06/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00335 |
| | 06/27/24 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00725 |
| 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 |
| | 07/16/20 | 1.5 | <0.30 | <0.36 | <0.72 | 0.67 J | <1.0 | <0.31 | <0.0092 |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | 1.6 | <1.0 | <0.31 | <0.0050 |
| | 06/07/22 | 1.0 | <0.30 | <0.36 | <0.72 | 1.9 | <1.0 | <0.31 | <0.0096 |
| | 07/06/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00333 |
| | 06/27/24 | 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** |
| 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 |
| | 07/16/20 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0042 |
| | 04/13/21 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0038 |
| | 06/07/22 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.0039 |
| | 07/06/23 | <0.00021 | <0.00020 | <0.00022 | <0.00022 | <0.00014 | <0.00035 | <0.00016 | <0.0205 |
| | 06/27/24 | <0.00021 | <0.00020 | <0.00022 | <0.00022 | <0.00014 | <0.00035 | <0.00016 | <0.00343 |
| WSW-1 DUP | 04/19/18 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.0040 |
| | 07/16/20 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0040 |
| | 06/07/22 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.0039 |
| | 07/06/23 | <0.00021 | <0.00020 | <0.00022 | <0.00022 | <0.00014 | <0.00035 | <0.00016 | <0.0205 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | 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 |
| | 07/16/20 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.042 |
| | 04/13/21 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0039 |
| | 06/07/22 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.0039 |
| | 07/06/23 | <0.00021 | <0.00020 | <0.00022 | <0.00022 | <0.00014 | <0.00035 | <0.00016 | <0.0208 |
| | 06/27/24 | <0.00021 | <0.00020 | <0.00022 | <0.00022 | <0.00014 | <0.00035 | <0.00016 | <0.00353 |
| WSW-3 DUP | 03/08/17 | <0.080 | <0.070 | <0.060 | <0.32 | <0.10 | <0.050 | <0.12 | <0.0086 |
| | 04/13/21 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0039 |
| | 06/27/24 | <0.00021 | <0.00020 | <0.00022 | <0.00022 | <0.00014 | <0.00035 | <0.00016 | <0.00347 |
| 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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0096 |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0050 |
| | 06/06/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0093 |
| | 06/07/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | <0.0094 |
| | 07/05/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00335 |
| | 07/06/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00337 |
| | 06/27/24 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | <0.00714 |

**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 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 |
| | 07/16/20 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | NR |
| | 04/13/21 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | NR |
| | 06/06/22 | <0.31 | <0.30 | <0.36 | <0.72 | <0.23 | <1.0 | <0.31 | NR |
| | 07/05/23 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | NR |
| | 06/27/24 | <0.180 | <0.220 | <0.170 | <0.210 | <0.140 | <0.470 | <0.150 | NR |
| WSW FIELD BLANK | 03/08/17 | <0.080 | <0.070 | <0.060 | <0.32 | <0.10 | <0.050 | 1 | <0.0087 |
| | 04/19/18 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.0040 |
| | 07/16/20 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0040 |
| | 04/13/21 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.0039 |
| | 06/07/22 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.0039 |
| | 07/06/23 | <0.00021 | <0.00020 | <0.00022 | <0.00022 | <0.00014 | <0.00035 | <0.00016 | <0.0205 |
| | 06/27/24 | NS | NS | NS | NS | NS | NS | NS | <0.00343 |
| 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 |
| | 07/16/20 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | NR |
| | 04/13/21 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | NR |
| | 06/07/22 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 | NR |
| | 07/06/23 | <0.00021 | <0.00020 | <0.00022 | <0.00022 | <0.00014 | <0.00035 | <0.00016 | NR |
| | 06/27/24 | NS | NS | NS | NS | NS | NS | NS | NS |

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; sampling not requested by SCDHEC.
- 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 | <2,300 | <20 | **12,200** | <22 | <880 | <400 |
| | 06/24/15 | <20 | <1,000 | <3,500 | <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 |
| | 07/16/20 | <1.2 | <50 | <410 | <1.2 | **265** | <1.2 | <27 | <25 |
| | 04/13/21 | <12 | <500 | <4,100 | <12 | **4,710** | <12 | <270 | <250 |
| | 06/07/22 | <12 | <500 | <4,100 | <12 | **4,220** | <12 | <270 | <250 |
| | 07/05/23 | <96.0 | <100 | <4200 | <180 | **9,800 J** | <28.0 | <160 | <35.0 |
| | 06/27/24 | <96.0 | <100 | <4200 | <180 | <190 | <28.0 | <160 | <35.0 |
| 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 |
| | 07/16/20 | <2.4 | <100 | <820 | <2.4 | **427** | <2.4 | <53 | <50 |
| | 04/13/21 | <12 | <500 | <4,100 | <12 | **5,330** | <12 | <270 | <250 |
| | 06/07/22 | <12 | <500 | <4,100 | <12 | **3,650** | <12 | <270 | <250 |
| | 07/05/23 | <96.0 | <100 | <4200 | <180 | **9,450** | <28.0 | 183 J | <35.0 |
| | 06/27/24 | <96.0 | <100 | <4200 | <180 | <190 | <28.0 | <160 | <35.0 |
| 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 |
| | 07/16/20 | <4.8 | <200 | <1,600 | <4.7 | **703** | <4.9 | <110 | <100 |
| | 04/13/21 | <6.0 | <250 | <2,000 | <5.9 | **5,880** | <6.1 | <130 | <130 |
| | 06/07/22 | <6.0 | <250 | <2,000 | <5.9 | **11,300** | <6.1 | 213 J | <130 |
| | 07/05/23 | <96.0 | <100 | <4200 | <180 | **4,260** | <28.0 | <160 | <35.0 |
| | 06/27/24 | <960 | <1000 | <42000 | <1800 | <1900 | <280 | <1600 | <350 |
| MW-2 DUP | 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 |
| | 07/05/23 | <96.0 | <100 | <4200 | <180 | **3,440** | <28.0 | <160 | <35.0 |
| 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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | 9.1 J | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | <0.960 | <1.00 | <42.0 | <1.80 | 2.77 J | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-3 DUP | 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 |

**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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | 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 |
| | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | 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 |
| | 04/18/18 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |

**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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | <0.960 | <1.00 | <42.0 | <1.80 | 3.41 J | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |

**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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | 0.76 J | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | <0.960 | <1.00 | <42.0 | <1.80 | <0.190 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/16/20 | <12 | <500 | <4,100 | <12 | <260 | <12 | <270 | <250 |
| | 04/13/21 | <4.8 | <200 | <1,600 | <4.7 | **376 J** | <4.9 | <110 | <100 |
| | 06/07/22 | <4.8 | <200 | <1,600 | <4.7 | **794** | <4.9 | <110 | <100 |
| | 07/05/23 | <96.0 | <100 | <4200 | <180 | **771 J** | <28.0 | <160 | <35.0 |
| | 06/27/24 | <96.0 | <100 | <4200 | <180 | <190 | <28.0 | <160 | <35.0 |

**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-17R | 04/18/18 | <4.8 | <200 | <1,600 | 11.6 J | **4,690** | 11.0 J | <110 | <100 |
| | 07/16/20 | <1.2 | <50 | <410 | <1.2 | <26 | <1.2 | <27 | <25 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | 13.2 J | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | <9.60 | <10.0 | <420 | <18.0 | <19.0 | <2.80 | <16.0 | <3.50 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | 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 |
| | 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 |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-19 DUP | 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/07/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | 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-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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/06/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | 103 | 0.29 J | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <0.24 | <10 | <82 | <0.24 | 120 | 0.45 J | 5.9 J | <5.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | **366** | 2.32 J | 18.8 | <0.350 |
| | 06/27/24 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | 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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/05/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | 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-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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/16/20 | <6.0 | <250 | <2,000 | <5.9 | **979** | <6.1 | <130 | <130 |
| | 04/13/21 | <0.48 | <20 | <160 | <0.47 | **1,100** | <0.49 | <11 | <10 |
| | 06/07/22 | <0.48 | <20 | <160 | <0.47 | 153 | <0.49 | <11 | <10 |
| | 07/06/23 | <9.60 | <10.0 | <420 | <18.0 | 379.00 | <2.80 | <16.0 | <3.50 |
| | 06/27/24 | <9.60 | <10.0 | <420 | <18.0 | <19.0 | <2.80 | <16.0 | <3.50 |
| 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 |
| | 07/16/20 | <12 | <500 | <4,100 | <12 | **5,160** | 14.2 J | <270 | <250 |
| | 04/13/21 | <48 | <2,000 | <16,000 | <47 | **4,010** | <49 | <1,100 | <1,000 |
| | 06/07/22 | <48 | <2,000 | <16,000 | <47 | **36,400** | <49 | <1,100 | <1,000 |
| | 07/05/23 | <96.0 | <100 | <4200 | <180 | **24,300** | 58.6 J | 168 J | <35.0 |
| | 06/27/24 | <960 | <1000 | <42000 | <1800 | <1900 | <280 | <1600 | <350 |
| MW-2A DUP | 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 |
| | 07/06/23 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 06/27/24 | 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 |
| 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 |
| | 07/16/20 | <48 | <2,000 | <16,000 | <47 | **2,120 J** | <49 | <1,100 | <1,000 |
| | 04/13/21 | <60 | <2,500 | <20,000 | <59 | **2,510 J** | <61 | <1,300 | <1,300 |
| | 06/07/22 | <24 | <1,000 | <8,200 | <24 | **1,190 J** | <24 | <530 | <500 |
| | 07/06/23 | <96.0 | <100 | <4200 | <180 | **3,650** | <28.0 | <160 | <35.0 |
| | 06/27/24 | <96.0 | <100 | <4200 | <180 | <190 | <28.0 | <160 | <35.0 |

**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-4A DUP | 06/24/15 | <0.20 | <10 | <35 | 6.1 | **4,840** | 22.6 | <5.4 | <4.0 |
| | 04/13/21 | <48 | <2,000 | <16,000 | <47 | **2,670 J** | <49 | <1,100 | <1,000 |
| | 06/07/22 | <4.8 | <200 | <1,600 | <4.7 | **1,100** | <4.9 | <110 | <100 |
| 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 |
| | 07/16/20 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | 29.0 | <0.25 | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | 52.1 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | 86.2 | <0.24 | <5.3 | <5.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | NS | NS | NS | NS | NS | NS | NS | NS |
| 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 |
| | 07/16/20 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 04/13/21 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 06/07/22 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <8.0 | <2.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 M | <0.350 |
| WSW-1 DUP | 04/19/18 | <0.40 | <8.0 | <40 | <0.40 | <8.0 | <0.42 | <8.0 | <2.0 |
| | 07/16/20 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| WSW-1 DUP C | 06/07/22 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <8.0 | <2.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| 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 |
| | 07/16/20 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 04/13/21 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 06/07/22 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <8.0 | <2.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 M | <0.350 |
| WSW-3 DUP | 03/08/17 | <0.40 | <8.0 | <40 | <0.40 | <8.0 | <0.40 | <8.0 | <2.0 |
| | 04/13/21 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 06/27/24 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 M | <0.350 |

**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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/07/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/05/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 M | <0.350 |
| 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 |
| | 07/16/20 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 04/13/21 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 06/06/22 | <0.24 | <10 | <82 | <0.24 | <5.3 | <0.24 | <5.3 | <5.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 M | <0.350 |
| 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 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 04/13/21 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | 0.96 J | <2.0 |
| | 06/07/22 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <8.0 | <2.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 M | <0.350 |
| 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 | <52 | <0.40 | <8.0 | <0.42 | <0.40 | <2.0 |
| | 04/13/21 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | 1.8 J | <2.0 |
| | 06/07/22 | <0.40 | <8.0 | <52 | <0.40 | <8.0 | <0.42 | <8.0 | <2.0 |
| | 07/06/23 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 | <0.350 |
| | 06/27/24 | <0.960 | <1.00 | <42.0 | <1.80 | <1.90 | <0.280 | <1.60 M | <0.350 |

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; sampling not requested by SCDHEC.
- FP: Free Product.
- Concentrations in bold face type exceeded the Action Level.

**APPENDICES**

**APPENDIX A**

Laboratory Analytical Report – Ground Water Samples

449 Springbrook Rd, Charlotte, NC 28217
Main 704.529.6364
www.waypointanalytical.com

7/16/2024

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

Ref: Analytical Testing
Lab Report Number: 24-181-0003
Client Project Description: Tisdales Quick Stop
GRI #1543

Dear Scott Ball:

Waypoint Analytical, LLC (Charlotte) received sample(s) on 6/28/2024 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) unless otherwise indicated.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Danyale Love
Project Manager

***Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.***

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# Certification Summary

**Laboratory ID: WP CNC: Waypoint Analytical Carolina, Inc. (C), Charlotte, NC**

| State | Program | Lab ID | Expiration Date |
|---|---|---|---|
| North Carolina | State Program | 37735 | 07/31/2024 |
| North Carolina | State Program | 402 | 12/31/2024 |
| South Carolina | State Program | 99012 | 07/31/2024 |
| South Carolina | State Program | 99012 | 12/31/2024 |

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## Sample Summary Table

**Report Number:** **24-181-0003**

**Client Project Description:** **Tisdales Quick Stop GRI #1543**

| Lab No | Client Sample ID | Matrix | Date Collected | Date Received | Method | Lab ID |
|---|---|---|---|---|---|---|
| 96688 | 18686- MW-1 | Aqueous | 06/27/2024 14:35 | 06/28/2024 13:24 | | |
| 96689 | 18686- MW-2 | Aqueous | 06/27/2024 14:18 | 06/28/2024 13:24 | | |
| 96690 | 18686- MW-7 | Aqueous | 06/27/2024 14:45 | 06/28/2024 13:24 | | |
| 96691 | 18686- MW-9 | Aqueous | 06/27/2024 11:18 | 06/28/2024 13:24 | | |
| 96692 | 18686- MW-11R | Aqueous | 06/27/2024 11:45 | 06/28/2024 13:24 | | |
| 96693 | 18686- MW-12R | Aqueous | 06/27/2024 12:35 | 06/28/2024 13:24 | | |
| 96694 | 18686- MW-13 | Aqueous | 06/27/2024 12:00 | 06/28/2024 13:24 | | |
| 96695 | 18686- MW-14 | Aqueous | 06/27/2024 14:13 | 06/28/2024 13:24 | | |
| 96696 | 18686- MW-15 | Aqueous | 06/27/2024 13:44 | 06/28/2024 13:24 | | |
| 96697 | 18686- MW-16R | Aqueous | 06/27/2024 12:07 | 06/28/2024 13:24 | | |
| 96698 | 18686- MW-17R | Aqueous | 06/27/2024 12:32 | 06/28/2024 13:24 | | |
| 96699 | 18686- MW-26 | Aqueous | 06/27/2024 15:33 | 06/28/2024 13:24 | | |
| 96700 | 18686- MW-27 | Aqueous | 06/27/2024 16:06 | 06/28/2024 13:24 | | |
| 96701 | 18686- MW-28 | Aqueous | 06/27/2024 15:35 | 06/28/2024 13:24 | | |
| 96702 | 18686- MW-31 | Aqueous | 06/27/2024 16:25 | 06/28/2024 13:24 | | |
| 96703 | 18686- MW-1A | Aqueous | 06/27/2024 10:50 | 06/28/2024 13:24 | | |
| 96704 | 18686- MW-2A | Aqueous | 06/27/2024 11:20 | 06/28/2024 13:24 | | |
| 96705 | 18686- MW-4A | Aqueous | 06/27/2024 10:55 | 06/28/2024 13:24 | | |
| 96706 | 18686- TW-1 | Aqueous | 06/27/2024 13:52 | 06/28/2024 13:24 | | |
| 96707 | 18686- MW-1 DUP | Aqueous | 06/27/2024 | 06/28/2024 13:24 | | |
| 96709 | 18686- MW-Trip Blank | Aqueous | 06/27/2024 08:00 | 06/28/2024 13:24 | | |
| 96710 | 18686-MW-Field Blank | Aqueous | 06/27/2024 08:05 | 06/28/2024 13:24 | | |
| 96711 | 18686- WSW-1 | Aqueous | 06/27/2024 15:15 | 06/28/2024 13:24 | 524.2 | |
| 96711 | 18686- WSW-1 | Aqueous | 06/27/2024 15:15 | 06/28/2024 13:24 | | |
| 96712 | 18686- WSW-3 | Aqueous | 06/27/2024 14:55 | 06/28/2024 13:24 | 524.2 | |
| 96712 | 18686- WSW-3 | Aqueous | 06/27/2024 14:55 | 06/28/2024 13:24 | | |

: Pace Analytical - Huntersville, NC, Huntersville, NC

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## Sample Summary Table

**Report Number:** **24-181-0003**

**Client Project Description:** **Tisdales Quick Stop GRI #1543**

| Lab No | Client Sample ID | Matrix | Date Collected | Date Received | Method | Lab ID |
|---|---|---|---|---|---|---|
| 96713 | 18686- WSW-DUP C | Aqueous | 06/27/2024 | 06/28/2024 13:24 | 524.2 | |
| 96713 | 18686- WSW-DUP C | Aqueous | 06/27/2024 | 06/28/2024 13:24 | | |
| 96714 | 18686- WSW-Trip Blank | Aqueous | 06/27/2024 08:06 | 06/28/2024 13:24 | 524.2 | |
| 96714 | 18686- WSW-Trip Blank | Aqueous | 06/27/2024 08:06 | 06/28/2024 13:24 | | |
| 96715 | 18686- WSW-Field Blank | Aqueous | 06/27/2024 08:00 | 06/28/2024 13:24 | 524.2 | |
| 96715 | 18686- WSW-Field Blank | Aqueous | 06/27/2024 08:00 | 06/28/2024 13:24 | | |

: Pace Analytical - Huntersville, NC, Huntersville, NC

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## Summary of Detected Analytes

**Project:** Tisdales Quick Stop

**Report Number:** 24-181-0003

| Client Sample ID / Method | Lab Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **18686- MW-1** | **V 96688** | | | | | |
| 8260D | Benzene | 5030 | µg/L | 18.0 | 07/02/2024 03:17 | |
| 8260D | Ethylbenzene | 1300 | µg/L | 17.0 | 07/02/2024 03:17 | |
| 8260D | Methyl tert-butyl ether (MTBE) | 91.7 | µg/L | 14.0 | 07/02/2024 03:17 | |
| 8260D | Naphthalene | 341 | µg/L | 47.0 | 07/02/2024 03:17 | |
| 8260D | Toluene | 4000 | µg/L | 22.0 | 07/02/2024 03:17 | |
| 8260D | o-Xylene | 1240 | µg/L | 21.0 | 07/02/2024 03:17 | |
| 8260D | m,p-Xylene | 5260 | µg/L | 42.0 | 07/02/2024 03:17 | |
| 8260D | Xylene (Total) | 6500 | µg/L | 21.0 | 07/02/2024 03:17 | |
| **18686- MW-2** | **V 96689** | | | | | |
| 8011 | 1,2-Dibromoethane | 0.221 | µg/L | 0.00742 | 07/08/2024 20:04 | |
| 8260D | Benzene | 13200 | µg/L | 180 | 07/02/2024 04:58 | |
| 8260D | Ethylbenzene | 1460 | µg/L | 170 | 07/02/2024 04:58 | |
| 8260D | Naphthalene | 538 | µg/L | 470 | 07/02/2024 04:58 | J |
| 8260D | Toluene | 9960 | µg/L | 220 | 07/02/2024 04:58 | |
| 8260D | o-Xylene | 1390 | µg/L | 210 | 07/02/2024 04:58 | |
| 8260D | m,p-Xylene | 5380 | µg/L | 420 | 07/02/2024 04:58 | |
| 8260D | Xylene (Total) | 6770 | µg/L | 210 | 07/02/2024 04:58 | |
| **18686- MW-9** | **V 96691** | | | | | |
| 8011 | 1,2-Dibromoethane | 0.0461 | µg/L | 0.00735 | 07/08/2024 20:59 | |
| **18686- MW-13** | **V 96694** | | | | | |
| 8260D | Benzene | 4.02 | µg/L | 0.180 | 07/01/2024 23:06 | |
| 8260D | Ethylbenzene | 0.396 | µg/L | 0.170 | 07/01/2024 23:06 | J |
| 8260D | Methyl tert-butyl ether (MTBE) | 1.10 | µg/L | 0.140 | 07/01/2024 23:06 | |
| 8260D | Toluene | 5.16 | µg/L | 0.220 | 07/01/2024 23:06 | |
| 8260D | o-Xylene | 0.876 | µg/L | 0.210 | 07/01/2024 23:06 | |
| 8260D | m,p-Xylene | 1.74 | µg/L | 0.420 | 07/01/2024 23:06 | |
| 8260D | Xylene (Total) | 2.62 | µg/L | 0.210 | 07/01/2024 23:06 | |
| **18686- MW-14** | **V 96695** | | | | | |
| 8011 | 1,2-Dibromoethane | 0.0316 | µg/L | 0.00739 | 07/08/2024 22:29 | Q |
| 8260D | Benzene | 5.09 | µg/L | 0.180 | 07/01/2024 23:31 | |
| 8260D | Ethylbenzene | 0.451 | µg/L | 0.170 | 07/01/2024 23:31 | J |
| 8260D | Methyl tert-butyl ether (MTBE) | 0.423 | µg/L | 0.140 | 07/01/2024 23:31 | J |
| 8260D | Naphthalene | 0.546 | µg/L | 0.470 | 07/01/2024 23:31 | J |
| 8260D | Toluene | 0.436 | µg/L | 0.220 | 07/01/2024 23:31 | J |

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## Summary of Detected Analytes

**Project:** Tisdales Quick Stop

**Report Number:** 24-181-0003

| Client Sample ID / Method | Lab Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **18686- MW-14** | **V 96695** | | | | | |
| 8260D | o-Xylene | 0.269 | µg/L | 0.210 | 07/01/2024 23:31 | J |
| 8260D | Xylene (Total) | 0.269 | µg/L | 0.210 | 07/01/2024 23:31 | J |
| **18686- MW-16R** | **V 96697** | | | | | |
| 8260D | Benzene | 358 | µg/L | 18.0 | 07/02/2024 03:42 | |
| 8260D | Ethylbenzene | 225 | µg/L | 17.0 | 07/02/2024 03:42 | |
| 8260D | Naphthalene | 48.0 | µg/L | 47.0 | 07/02/2024 03:42 | J |
| 8260D | Toluene | 1730 | µg/L | 22.0 | 07/02/2024 03:42 | |
| 8260D | o-Xylene | 678 | µg/L | 21.0 | 07/02/2024 03:42 | |
| 8260D | m,p-Xylene | 845 | µg/L | 42.0 | 07/02/2024 03:42 | |
| 8260D | Xylene (Total) | 1520 | µg/L | 21.0 | 07/02/2024 03:42 | |
| **18686- MW-17R** | **V 96698** | | | | | |
| 8260D | Benzene | 1570 | µg/L | 18.0 | 07/13/2024 20:59 | |
| 8260D | Ethylbenzene | 173 | µg/L | 1.70 | 07/02/2024 02:27 | |
| 8260D | Methyl tert-butyl ether (MTBE) | 297 | µg/L | 1.40 | 07/02/2024 02:27 | |
| 8260D | Naphthalene | 49.3 | µg/L | 4.70 | 07/02/2024 02:27 | |
| 8260D | Toluene | 116 | µg/L | 2.20 | 07/02/2024 02:27 | |
| 8260D | o-Xylene | 77.1 | µg/L | 2.10 | 07/02/2024 02:27 | |
| 8260D | m,p-Xylene | 179 | µg/L | 4.20 | 07/02/2024 02:27 | |
| 8260D | Xylene (Total) | 256 | µg/L | 2.10 | 07/02/2024 02:27 | |
| **18686- MW-27** | **V 96700** | | | | | |
| 8011 | 1,2-Dibromoethane | 0.128 | µg/L | 0.00728 | 07/09/2024 00:37 | Q |
| 8260D | Benzene | 0.639 | µg/L | 0.180 | 07/02/2024 00:46 | |
| **18686- MW-1A** | **V 96703** | | | | | |
| 8260D | Benzene | 712 | µg/L | 1.80 | 07/02/2024 02:52 | |
| 8260D | Ethylbenzene | 6.96 | µg/L | 1.70 | 07/02/2024 02:52 | |
| 8260D | Methyl tert-butyl ether (MTBE) | 35.2 | µg/L | 1.40 | 07/02/2024 02:52 | |
| 8260D | Toluene | 234 | µg/L | 2.20 | 07/02/2024 02:52 | |
| 8260D | o-Xylene | 43.8 | µg/L | 2.10 | 07/02/2024 02:52 | |
| 8260D | m,p-Xylene | 49.7 | µg/L | 4.20 | 07/02/2024 02:52 | |
| 8260D | Xylene (Total) | 93.5 | µg/L | 2.10 | 07/02/2024 02:52 | |
| **18686- MW-2A** | **V 96704** | | | | | |
| 8011 | 1,2-Dibromoethane | 0.146 | µg/L | 0.00725 | 07/05/2024 20:35 | |
| 8260D | Benzene | 19200 | µg/L | 180 | 07/02/2024 05:23 | |
| 8260D | Ethylbenzene | 2380 | µg/L | 170 | 07/02/2024 05:23 | |

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## Summary of Detected Analytes

**Project:** **Tisdales Quick Stop**

**Report Number:** **24-181-0003**

| Client Sample ID / Method | Lab Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **18686- MW-2A** | **V 96704** | | | | | |
| 8260D | Naphthalene | 2190 | µg/L | 470 | 07/02/2024 05:23 | |
| 8260D | Toluene | 29900 | µg/L | 220 | 07/02/2024 05:23 | |
| 8260D | o-Xylene | 4490 | µg/L | 210 | 07/02/2024 05:23 | |
| 8260D | m,p-Xylene | 9410 | µg/L | 420 | 07/02/2024 05:23 | |
| 8260D | Xylene (Total) | 13900 | µg/L | 210 | 07/02/2024 05:23 | |
| **18686- MW-4A** | **V 96705** | | | | | |
| 8260D | Benzene | 1320 | µg/L | 18.0 | 07/02/2024 04:08 | |
| 8260D | Ethylbenzene | 212 | µg/L | 17.0 | 07/02/2024 04:08 | |
| 8260D | Naphthalene | 179 | µg/L | 47.0 | 07/02/2024 04:08 | |
| 8260D | Toluene | 2720 | µg/L | 22.0 | 07/02/2024 04:08 | |
| 8260D | o-Xylene | 1640 | µg/L | 21.0 | 07/02/2024 04:08 | |
| 8260D | m,p-Xylene | 2790 | µg/L | 42.0 | 07/02/2024 04:08 | |
| 8260D | Xylene (Total) | 4430 | µg/L | 21.0 | 07/02/2024 04:08 | |
| **18686- MW-1 DUP** | **V 96707** | | | | | |
| 8260D | Benzene | 5170 | µg/L | 18.0 | 07/02/2024 04:33 | |
| 8260D | Ethylbenzene | 1030 | µg/L | 17.0 | 07/02/2024 04:33 | |
| 8260D | Methyl tert-butyl ether (MTBE) | 102 | µg/L | 14.0 | 07/02/2024 04:33 | |
| 8260D | Naphthalene | 289 | µg/L | 47.0 | 07/02/2024 04:33 | |
| 8260D | Toluene | 4130 | µg/L | 22.0 | 07/02/2024 04:33 | |
| 8260D | o-Xylene | 1060 | µg/L | 21.0 | 07/02/2024 04:33 | |
| 8260D | m,p-Xylene | 4060 | µg/L | 42.0 | 07/02/2024 04:33 | |
| 8260D | Xylene (Total) | 5120 | µg/L | 21.0 | 07/02/2024 04:33 | |

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Client: Geological Resources, Inc. **CASE NARRATIVE**
Project: Tisdales Quick Stop
Lab Report Number: 24-181-0003
Date: 7/16/2024

**EDB and DBCP by Microextraction GC/ECD Method EPA-504.1**
Sample 96713 (18686- WSW-DUP C)
Analyte: 1,2-Dibromoethane
QC Batch No: V49303/V49217
Matrix spike/matrix spike duplicate recoveries are outside of control limits. Acceptable LCS recovery indicates the system was in control, but the reported result could be affected by matrix interference.

**EDB and DBCP by Microextraction GC/ECD Method 8011**
Sample 96704 (18686- MW-2A)
QC Batch No: V49316/V49268
Surrogate(s) were flagged for recoveries in the associated project sample. During the extraction step, the extraction technician noted that a significant emulsion formed. Batch QC samples (Method Blank and Laboratory Control Samples) all showed surrogate recoveries within QC limits, indicating that the biased recoveries were due to the sample matrix.

Sample 96705 (18686- MW-4A)
QC Batch No: V49316/V49268
Surrogate(s) were flagged for recoveries in the associated project sample. During the extraction step, the extraction technician noted that a significant emulsion formed. Batch QC samples (Method Blank and Laboratory Control Samples) all showed surrogate recoveries within QC limits, indicating that the biased recoveries were due to the sample matrix.

Sample 96706 (18686- TW-1)
QC Batch No: V49316/V49268
Surrogate(s) was flagged for recovery outside QC limits in this project sample. This sample was re-analyzed for verification, and/or dilution of target analytes. Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.

Sample 96707 (18686- MW-1 DUP)
QC Batch No: V49316/V49268
Surrogate(s) were flagged for recoveries in the associated project sample. During the extraction step, the extraction technician noted that a significant emulsion formed. Batch QC samples (Method Blank and Laboratory Control Samples) all showed surrogate recoveries within QC limits, indicating that the biased recoveries were due to the sample matrix.

Sample 96688 (18686- MW-1)
QC Batch No: V49373/V49269
Surrogate(s) were flagged for recoveries in the associated project sample. During the extraction step, the extraction technician noted that a significant emulsion formed. Batch QC samples (Method Blank and Laboratory Control Samples) all showed surrogate recoveries within QC limits, indicating that the biased recoveries were due to the sample matrix.

Sample 96689 (18686- MW-2)
QC Batch No: V49373/V49269
Surrogate(s) were flagged for recoveries in the associated project sample. During the extraction step, the extraction technician noted that a significant emulsion formed. Batch QC samples (Method Blank and Laboratory Control Samples) all showed surrogate recoveries within QC limits, indicating that the biased recoveries were due to the sample matrix.

Sample 96690 (18686- MW-7)
QC Batch No: V49373/V49269
Surrogate(s) was flagged for recovery outside QC limits in this project sample. This sample was re-analyzed for verification, and/or dilution of target analytes. Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.

Sample 96691 (18686- MW-9)
QC Batch No: V49373/V49269
Surrogate(s) was flagged for recovery outside QC limits in this project sample. This sample was re-analyzed for verification, and/or dilution of target analytes. Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.

Sample 96692 (18686- MW-11R)
QC Batch No: V49373/V49269
Surrogate(s) were flagged for recoveries in the associated project sample. During the extraction step, the extraction technician noted that a significant emulsion formed. Batch QC samples (Method Blank and Laboratory Control Samples) all showed surrogate recoveries within QC limits, indicating that the biased recoveries were due to the sample matrix.

Sample 96693 (18686- MW-12R)
QC Batch No: V49373/V49269
Surrogate(s) were flagged for recoveries in the associated project sample. During the extraction step, the extraction technician noted that a significant emulsion formed. Batch QC samples (Method Blank and Laboratory Control Samples) all showed surrogate recoveries within QC limits, indicating that the biased recoveries were due to the sample matrix.

Sample 96694 (18686- MW-13)
QC Batch No: V49373/V49269
Surrogate(s) were flagged for recoveries in the associated project sample. During the extraction step, the extraction technician noted that a significant emulsion formed. Batch QC samples (Method Blank and Laboratory Control Samples) all showed surrogate recoveries within QC limits, indicating that the biased recoveries were due to the sample matrix.

Sample 96695 (18686- MW-14)
QC Batch No: V49373/V49269
Surrogate(s) were flagged for recoveries in the associated project sample. During the extraction step, the extraction technician noted that a significant emulsion formed. Batch QC samples (Method Blank and Laboratory Control Samples) all showed surrogate recoveries within QC limits, indicating that the biased recoveries were due to the sample matrix.

Sample 96696 (18686- MW-15)
QC Batch No: V49373/V49269
Surrogate(s) was flagged for recovery outside QC limits in this project sample. This sample was re-analyzed for verification, and/or dilution of target analytes. Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.

Sample 96697 (18686- MW-16R)
QC Batch No: V49373/V49269
Surrogate(s) were flagged for recoveries in the associated project sample. During the extraction step, the extraction technician noted that a significant emulsion formed. Batch QC samples (Method Blank and Laboratory Control Samples) all showed surrogate recoveries within QC limits, indicating that the biased recoveries were due to the sample matrix.

Sample 96698 (18686- MW-17R)
QC Batch No: V49373/V49269
Surrogate(s) were flagged for recoveries in the associated project sample. During the extraction step, the extraction technician noted that a significant emulsion formed. Batch QC samples (Method Blank and Laboratory Control Samples) all showed surrogate recoveries within QC limits, indicating that the biased recoveries were due to the sample matrix.

Sample 96691 (18686- MW-9)
Analyte: 1,2-Dibromoethane
QC Batch No: V49373/V49269
Relative Percent Difference (RPD) for the duplicate analysis was outside of the allowable QC limits.

Sample 96695 (18686- MW-14)
Analyte: 1,2-Dibromoethane
QC Batch No: V49373/V49269
Analyte was detected in both the primary and confirmatory analyses, with a relative percent difference (RPD) of greater than 40% between the two results. These results are flagged Q and the lower of the two values is reported. Analytes with RPD values greater than 100% are reported as non-detect.

Sample 96700 (18686- MW-27)
Analyte: 1,2-Dibromoethane
QC Batch No: V49373/V49269
Analyte was detected in both the primary and confirmatory analyses, with a relative percent difference (RPD) of greater than 40% between the two results. These results are flagged Q and the lower of the two values is reported. Analytes with RPD values greater than 100% are reported as non-detect.

**Volatile Organic Compounds - GC/MS Method 8260D**
Analyte: 3,3-Dimethyl-1-butanol
QC Batch No: V49168/V49159
Relative Percent Difference (RPD) for the duplicate analysis was outside of the allowable QC limits.

Analyte: Naphthalene
QC Batch No: V49219/V49159
Target analyte did not meet calibration verification criteria. Analysis of a low level check demonstrated that there was adequate sensitivity to report this compound at the laboratory reporting limit as non-detect.

Analyte: tert-Butyl alcohol
QC Batch No: V49219/V49159
This target analyte was flagged for recovery outside QC limits in the associated CCV. Data for this analyte is flagged "M" to indicate that results should be considered minimum concentration due to the potential for a low bias.

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Project Tisdales Quick Stop
Information : GRI #1543

Report Date : 07/16/2024
Received : 06/28/2024

Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96688**
Sample ID : **18686- MW-1**

Matrix: **Aqueous**
Sampled: **6/27/2024 14:35**

**Analytical Method:** 8011 **Prep Batch(es):** **V49269** 07/08/24 14:00
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00742 | µg/L | 0.00742 | 0.0212 | 1 | 07/08/24 19:46 | NDL | V49373 |
| Surrogate: 4-Bromofluorobenzene | **50.6 *** | | Limits: 70-130% | | 1 | 07/08/24 19:46 | NDL | V49373 |

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <100 | µg/L | 100 | 1000 | 100 | 07/02/24 03:17 | ASH | V49168 |
| Benzene | **5030** | µg/L | 18.0 | 50.0 | 100 | 07/02/24 03:17 | ASH | V49168 |
| Di-Isopropyl Ether (DIPE) | <96.0 | µg/L | 96.0 | 500 | 100 | 07/02/24 03:17 | ASH | V49168 |
| 1,2-Dichloroethane | <15.0 | µg/L | 15.0 | 50.0 | 100 | 07/02/24 03:17 | ASH | V49168 |
| Ethanol | <4200 | µg/L | 4200 | 20000 | 100 | 07/02/24 03:17 | ASH | V49168 |
| Ethylbenzene | **1300** | µg/L | 17.0 | 50.0 | 100 | 07/02/24 03:17 | ASH | V49168 |
| Ethyl Tertiary Butyl Ether (ETBE) | <180 | µg/L | 180 | 1000 | 100 | 07/02/24 03:17 | ASH | V49168 |
| Methyl tert-butyl ether (MTBE) | **91.7** | µg/L | 14.0 | 50.0 | 100 | 07/02/24 03:17 | ASH | V49168 |
| Naphthalene | **341** | µg/L | 47.0 | 100 | 100 | 07/02/24 03:17 | ASH | V49168 |
| tert-Butyl Alcohol (TBA) | <160 | µg/L | 160 | 1000 | 100 | 07/02/24 03:17 | ASH | V49168 |
| tert-Butyl formate (TBF) | <35.0 | µg/L | 35.0 | 1000 | 100 | 07/02/24 03:17 | ASH | V49168 |
| tert-Amyl Alcohol (TAA) | <190 | µg/L | 190 | 1000 | 100 | 07/02/24 03:17 | ASH | V49168 |
| tert-Amyl Methyl Ether (TAME) | <28.0 | µg/L | 28.0 | 1000 | 100 | 07/02/24 03:17 | ASH | V49168 |
| Toluene | **4000** | µg/L | 22.0 | 50.0 | 100 | 07/02/24 03:17 | ASH | V49168 |
| o-Xylene | **1240** | µg/L | 21.0 | 50.0 | 100 | 07/02/24 03:17 | ASH | V49168 |
| m,p-Xylene | **5260** | µg/L | 42.0 | 100 | 100 | 07/02/24 03:17 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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***REPORT OF ANALYSIS***

Lab No : **96688**
Sample ID : **18686- MW-1**

Matrix: **Aqueous**
Sampled: **6/27/2024 14:35**

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | **6500** | µg/L | 21.0 | 50.0 | 100 | 07/02/24 03:17 | | V49168 |
| Surrogate: 4-Bromofluorobenzene | 97.2 | | Limits: 70-130% | | 100 | 07/02/24 03:17 | ASH | V49168 |
| Surrogate: Dibromofluoromethane | 88.6 | | Limits: 70-130% | | 100 | 07/02/24 03:17 | ASH | V49168 |
| Surrogate: 1,2-Dichloroethane - d4 | 95.4 | | Limits: 70-130% | | 100 | 07/02/24 03:17 | ASH | V49168 |
| Surrogate: Toluene-d8 | 95.4 | | Limits: 70-130% | | 100 | 07/02/24 03:17 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96689**
Sample ID : **18686- MW-2**

Matrix: **Aqueous**
Sampled: **6/27/2024 14:18**

**Analytical Method:** 8011 **Prep Batch(es):** **V49269** 07/08/24 14:00
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | **0.221** | µg/L | 0.00742 | 0.0212 | 1 | 07/08/24 20:04 | NDL | V49373 |
| Surrogate: 4-Bromofluorobenzene | **38.6 *** | | Limits: 70-130% | | 1 | 07/08/24 20:04 | NDL | V49373 |

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1000 | µg/L | 1000 | 10000 | 1000 | 07/02/24 04:58 | ASH | V49168 |
| Benzene | **13200** | µg/L | 180 | 500 | 1000 | 07/02/24 04:58 | ASH | V49168 |
| Di-Isopropyl Ether (DIPE) | <960 | µg/L | 960 | 5000 | 1000 | 07/02/24 04:58 | ASH | V49168 |
| 1,2-Dichloroethane | <150 | µg/L | 150 | 500 | 1000 | 07/02/24 04:58 | ASH | V49168 |
| Ethanol | <42000 | µg/L | 42000 | 200000 | 1000 | 07/02/24 04:58 | ASH | V49168 |
| Ethylbenzene | **1460** | µg/L | 170 | 500 | 1000 | 07/02/24 04:58 | ASH | V49168 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1800 | µg/L | 1800 | 10000 | 1000 | 07/02/24 04:58 | ASH | V49168 |
| Methyl tert-butyl ether (MTBE) | <140 | µg/L | 140 | 500 | 1000 | 07/02/24 04:58 | ASH | V49168 |
| Naphthalene | **538 J** | µg/L | 470 | 1000 | 1000 | 07/02/24 04:58 | ASH | V49168 |
| tert-Butyl Alcohol (TBA) | <1600 | µg/L | 1600 | 10000 | 1000 | 07/02/24 04:58 | ASH | V49168 |
| tert-Butyl formate (TBF) | <350 | µg/L | 350 | 10000 | 1000 | 07/02/24 04:58 | ASH | V49168 |
| tert-Amyl Alcohol (TAA) | <1900 | µg/L | 1900 | 10000 | 1000 | 07/02/24 04:58 | ASH | V49168 |
| tert-Amyl Methyl Ether (TAME) | <280 | µg/L | 280 | 10000 | 1000 | 07/02/24 04:58 | ASH | V49168 |
| Toluene | **9960** | µg/L | 220 | 500 | 1000 | 07/02/24 04:58 | ASH | V49168 |
| o-Xylene | **1390** | µg/L | 210 | 500 | 1000 | 07/02/24 04:58 | ASH | V49168 |
| m,p-Xylene | **5380** | µg/L | 420 | 1000 | 1000 | 07/02/24 04:58 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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***REPORT OF ANALYSIS***

Lab No : **96689**
Sample ID : **18686- MW-2**

Matrix: **Aqueous**
Sampled: **6/27/2024 14:18**

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | **6770** | µg/L | 210 | 500 | 1000 | 07/02/24 04:58 | | V49168 |
| Surrogate: 4-Bromofluorobenzene | 97.8 | | Limits: 70-130% | | 1000 | 07/02/24 04:58 | ASH | V49168 |
| Surrogate: Dibromofluoromethane | 87.0 | | Limits: 70-130% | | 1000 | 07/02/24 04:58 | ASH | V49168 |
| Surrogate: 1,2-Dichloroethane - d4 | 94.4 | | Limits: 70-130% | | 1000 | 07/02/24 04:58 | ASH | V49168 |
| Surrogate: Toluene-d8 | 94.6 | | Limits: 70-130% | | 1000 | 07/02/24 04:58 | ASH | V49168 |

| **Qualifiers/ Definitions** | | | | |
|---|---|---|---|---|
| | * | Outside QC Limit | DF | Dilution Factor |
| | J | Estimated value | M | Minimum value |
| | MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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***REPORT OF ANALYSIS***

Lab No : **96690**
Sample ID : **18686- MW-7**

Matrix: **Aqueous**
Sampled: **6/27/2024 14:45**

**Analytical Method:** 8011 **Prep Batch(es):** **V49269** 07/08/24 14:00
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00739 | µg/L | 0.00739 | 0.0211 | 1 | 07/08/24 20:40 | NDL | V49373 |
| Surrogate: 4-Bromofluorobenzene | **44.9 *** | | Limits: 70-130% | | 1 | 07/08/24 20:40 | NDL | V49373 |

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/01/24 21:25 | ASH | V49168 |
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/01/24 21:25 | ASH | V49168 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/01/24 21:25 | ASH | V49168 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/01/24 21:25 | ASH | V49168 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/01/24 21:25 | ASH | V49168 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/01/24 21:25 | ASH | V49168 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/01/24 21:25 | ASH | V49168 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/01/24 21:25 | ASH | V49168 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/01/24 21:25 | ASH | V49168 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/01/24 21:25 | ASH | V49168 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/01/24 21:25 | ASH | V49168 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/01/24 21:25 | ASH | V49168 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/01/24 21:25 | ASH | V49168 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/01/24 21:25 | ASH | V49168 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/01/24 21:25 | ASH | V49168 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/01/24 21:25 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Information : GRI #1543

Report Date : 07/16/2024
Received : 06/28/2024

Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96690**
Sample ID : **18686- MW-7**

Matrix: **Aqueous**
Sampled: **6/27/2024 14:45**

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/01/24 21:25 | | V49168 |
| Surrogate: 4-Bromofluorobenzene | 99.0 | | Limits: 70-130% | | 1 | 07/01/24 21:25 | ASH | V49168 |
| Surrogate: Dibromofluoromethane | 88.0 | | Limits: 70-130% | | 1 | 07/01/24 21:25 | ASH | V49168 |
| Surrogate: 1,2-Dichloroethane - d4 | 95.2 | | Limits: 70-130% | | 1 | 07/01/24 21:25 | ASH | V49168 |
| Surrogate: Toluene-d8 | 95.2 | | Limits: 70-130% | | 1 | 07/01/24 21:25 | ASH | V49168 |

| **Qualifiers/ Definitions** | | | | |
|---|---|---|---|---|
| | * | Outside QC Limit | DF | Dilution Factor |
| | J | Estimated value | M | Minimum value |
| | MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Project Tisdales Quick Stop
Information : GRI #1543

Report Date : 07/16/2024
Received : 06/28/2024

Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96691**
Sample ID : **18686- MW-9**

Matrix: **Aqueous**
Sampled: **6/27/2024 11:18**

**Analytical Method:** 8011 **Prep Batch(es):** **V49269** 07/08/24 14:00
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | **0.0461** | µg/L | 0.00735 | 0.0210 | 1 | 07/08/24 20:59 | NDL | V49373 |
| Surrogate: 4-Bromofluorobenzene | **50.8 *** | | Limits: 70-130% | | 1 | 07/08/24 20:59 | NDL | V49373 |

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/01/24 21:50 | ASH | V49168 |
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/01/24 21:50 | ASH | V49168 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/01/24 21:50 | ASH | V49168 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/01/24 21:50 | ASH | V49168 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/01/24 21:50 | ASH | V49168 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/01/24 21:50 | ASH | V49168 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/01/24 21:50 | ASH | V49168 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/01/24 21:50 | ASH | V49168 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/01/24 21:50 | ASH | V49168 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/01/24 21:50 | ASH | V49168 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/01/24 21:50 | ASH | V49168 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/01/24 21:50 | ASH | V49168 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/01/24 21:50 | ASH | V49168 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/01/24 21:50 | ASH | V49168 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/01/24 21:50 | ASH | V49168 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/01/24 21:50 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96691**
Sample ID : **18686- MW-9**

Matrix: **Aqueous**
Sampled: **6/27/2024 11:18**

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/01/24 21:50 | | V49168 |
| Surrogate: 4-Bromofluorobenzene | 98.6 | | Limits: 70-130% | | 1 | 07/01/24 21:50 | ASH | V49168 |
| Surrogate: Dibromofluoromethane | 89.0 | | Limits: 70-130% | | 1 | 07/01/24 21:50 | ASH | V49168 |
| Surrogate: 1,2-Dichloroethane - d4 | 96.0 | | Limits: 70-130% | | 1 | 07/01/24 21:50 | ASH | V49168 |
| Surrogate: Toluene-d8 | 93.8 | | Limits: 70-130% | | 1 | 07/01/24 21:50 | ASH | V49168 |

| **Qualifiers/ Definitions** | | | | |
|---|---|---|---|---|
| | * | Outside QC Limit | DF | Dilution Factor |
| | J | Estimated value | M | Minimum value |
| | MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96692**
Sample ID : **18686- MW-11R**

Matrix: **Aqueous**
Sampled: **6/27/2024 11:45**

**Analytical Method:** 8011 **Prep Batch(es):** **V49269** 07/08/24 14:00
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00742 | µg/L | 0.00742 | 0.0212 | 1 | 07/08/24 21:35 | NDL | V49373 |
| Surrogate: 4-Bromofluorobenzene | **55.6 *** | | Limits: 70-130% | | 1 | 07/08/24 21:35 | NDL | V49373 |

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/01/24 22:15 | ASH | V49168 |
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/01/24 22:15 | ASH | V49168 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/01/24 22:15 | ASH | V49168 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/01/24 22:15 | ASH | V49168 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/01/24 22:15 | ASH | V49168 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/01/24 22:15 | ASH | V49168 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/01/24 22:15 | ASH | V49168 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/01/24 22:15 | ASH | V49168 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/01/24 22:15 | ASH | V49168 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/01/24 22:15 | ASH | V49168 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/01/24 22:15 | ASH | V49168 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/01/24 22:15 | ASH | V49168 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/01/24 22:15 | ASH | V49168 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/01/24 22:15 | ASH | V49168 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/01/24 22:15 | ASH | V49168 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/01/24 22:15 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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***REPORT OF ANALYSIS***

Lab No : **96692**
Sample ID : **18686- MW-11R**

Matrix: **Aqueous**
Sampled: **6/27/2024 11:45**

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/01/24 22:15 | | V49168 |
| Surrogate: 4-Bromofluorobenzene | 97.8 | | Limits: 70-130% | | 1 | 07/01/24 22:15 | ASH | V49168 |
| Surrogate: Dibromofluoromethane | 89.8 | | Limits: 70-130% | | 1 | 07/01/24 22:15 | ASH | V49168 |
| Surrogate: 1,2-Dichloroethane - d4 | 95.8 | | Limits: 70-130% | | 1 | 07/01/24 22:15 | ASH | V49168 |
| Surrogate: Toluene-d8 | 95.0 | | Limits: 70-130% | | 1 | 07/01/24 22:15 | ASH | V49168 |

| **Qualifiers/ Definitions** | | | | |
|---|---|---|---|---|
| | * | Outside QC Limit | DF | Dilution Factor |
| | J | Estimated value | M | Minimum value |
| | MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96693**
Sample ID : **18686- MW-12R**

Matrix: **Aqueous**
Sampled: **6/27/2024 12:35**

**Analytical Method:** 8011 **Prep Batch(es):** **V49269** 07/08/24 14:00
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00756 | µg/L | 0.00756 | 0.0216 | 1 | 07/08/24 21:53 | NDL | V49373 |
| Surrogate: 4-Bromofluorobenzene | **52.3 *** | | Limits: 70-130% | | 1 | 07/08/24 21:53 | NDL | V49373 |

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/01/24 22:40 | ASH | V49168 |
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/01/24 22:40 | ASH | V49168 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/01/24 22:40 | ASH | V49168 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/01/24 22:40 | ASH | V49168 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/01/24 22:40 | ASH | V49168 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/01/24 22:40 | ASH | V49168 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/01/24 22:40 | ASH | V49168 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/01/24 22:40 | ASH | V49168 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/01/24 22:40 | ASH | V49168 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/01/24 22:40 | ASH | V49168 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/01/24 22:40 | ASH | V49168 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/01/24 22:40 | ASH | V49168 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/01/24 22:40 | ASH | V49168 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/01/24 22:40 | ASH | V49168 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/01/24 22:40 | ASH | V49168 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/01/24 22:40 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96693**
Sample ID : **18686- MW-12R**

Matrix: **Aqueous**
Sampled: **6/27/2024 12:35**

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/01/24 22:40 | | V49168 |
| Surrogate: 4-Bromofluorobenzene | 98.0 | | Limits: 70-130% | | 1 | 07/01/24 22:40 | ASH | V49168 |
| Surrogate: Dibromofluoromethane | 88.8 | | Limits: 70-130% | | 1 | 07/01/24 22:40 | ASH | V49168 |
| Surrogate: 1,2-Dichloroethane - d4 | 96.2 | | Limits: 70-130% | | 1 | 07/01/24 22:40 | ASH | V49168 |
| Surrogate: Toluene-d8 | 95.4 | | Limits: 70-130% | | 1 | 07/01/24 22:40 | ASH | V49168 |

| **Qualifiers/ Definitions** | | | | |
|---|---|---|---|---|
| | * | Outside QC Limit | DF | Dilution Factor |
| | J | Estimated value | M | Minimum value |
| | MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Date : 07/16/2024
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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96694**
Sample ID : **18686- MW-13**

Matrix: **Aqueous**
Sampled: **6/27/2024 12:00**

**Analytical Method:** 8011 **Prep Batch(es):** **V49269** 07/08/24 14:00
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00756 | µg/L | 0.00756 | 0.0216 | 1 | 07/08/24 22:11 | NDL | V49373 |
| Surrogate: 4-Bromofluorobenzene | **53.9 *** | | Limits: 70-130% | | 1 | 07/08/24 22:11 | NDL | V49373 |

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/01/24 23:06 | ASH | V49168 |
| Benzene | **4.02** | µg/L | 0.180 | 0.500 | 1 | 07/01/24 23:06 | ASH | V49168 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/01/24 23:06 | ASH | V49168 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/01/24 23:06 | ASH | V49168 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/01/24 23:06 | ASH | V49168 |
| Ethylbenzene | **0.396 J** | µg/L | 0.170 | 0.500 | 1 | 07/01/24 23:06 | ASH | V49168 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/01/24 23:06 | ASH | V49168 |
| Methyl tert-butyl ether (MTBE) | **1.10** | µg/L | 0.140 | 0.500 | 1 | 07/01/24 23:06 | ASH | V49168 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/01/24 23:06 | ASH | V49168 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/01/24 23:06 | ASH | V49168 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/01/24 23:06 | ASH | V49168 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/01/24 23:06 | ASH | V49168 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/01/24 23:06 | ASH | V49168 |
| Toluene | **5.16** | µg/L | 0.220 | 0.500 | 1 | 07/01/24 23:06 | ASH | V49168 |
| o-Xylene | **0.876** | µg/L | 0.210 | 0.500 | 1 | 07/01/24 23:06 | ASH | V49168 |
| m,p-Xylene | **1.74** | µg/L | 0.420 | 1.00 | 1 | 07/01/24 23:06 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96694**
Sample ID : **18686- MW-13**

Matrix: **Aqueous**
Sampled: **6/27/2024 12:00**

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | **2.62** | µg/L | 0.210 | 0.500 | 1 | 07/01/24 23:06 | | V49168 |
| Surrogate: 4-Bromofluorobenzene | 98.2 | | Limits: 70-130% | | 1 | 07/01/24 23:06 | ASH | V49168 |
| Surrogate: Dibromofluoromethane | 88.8 | | Limits: 70-130% | | 1 | 07/01/24 23:06 | ASH | V49168 |
| Surrogate: 1,2-Dichloroethane - d4 | 93.8 | | Limits: 70-130% | | 1 | 07/01/24 23:06 | ASH | V49168 |
| Surrogate: Toluene-d8 | 95.2 | | Limits: 70-130% | | 1 | 07/01/24 23:06 | ASH | V49168 |

| **Qualifiers/ Definitions** | | | | |
|---|---|---|---|---|
| | * | Outside QC Limit | DF | Dilution Factor |
| | J | Estimated value | M | Minimum value |
| | MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Date : 07/16/2024
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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96695**
Sample ID : **18686- MW-14**

Matrix: **Aqueous**
Sampled: **6/27/2024 14:13**

**Analytical Method:** 8011 **Prep Batch(es):** **V49269** 07/08/24 14:00
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | **0.0316 Q** | µg/L | 0.00739 | 0.0211 | 1 | 07/08/24 22:29 | NDL | V49373 |
| Surrogate: 4-Bromofluorobenzene | **61.3 *** | | Limits: 70-130% | | 1 | 07/08/24 22:29 | NDL | V49373 |

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/01/24 23:31 | ASH | V49168 |
| Benzene | **5.09** | µg/L | 0.180 | 0.500 | 1 | 07/01/24 23:31 | ASH | V49168 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/01/24 23:31 | ASH | V49168 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/01/24 23:31 | ASH | V49168 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/01/24 23:31 | ASH | V49168 |
| Ethylbenzene | **0.451 J** | µg/L | 0.170 | 0.500 | 1 | 07/01/24 23:31 | ASH | V49168 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/01/24 23:31 | ASH | V49168 |
| Methyl tert-butyl ether (MTBE) | **0.423 J** | µg/L | 0.140 | 0.500 | 1 | 07/01/24 23:31 | ASH | V49168 |
| Naphthalene | **0.546 J** | µg/L | 0.470 | 1.00 | 1 | 07/01/24 23:31 | ASH | V49168 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/01/24 23:31 | ASH | V49168 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/01/24 23:31 | ASH | V49168 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/01/24 23:31 | ASH | V49168 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/01/24 23:31 | ASH | V49168 |
| Toluene | **0.436 J** | µg/L | 0.220 | 0.500 | 1 | 07/01/24 23:31 | ASH | V49168 |
| o-Xylene | **0.269 J** | µg/L | 0.210 | 0.500 | 1 | 07/01/24 23:31 | ASH | V49168 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/01/24 23:31 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Date : 07/16/2024
Received : 06/28/2024

Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96695**
Sample ID : **18686- MW-14**

Matrix: **Aqueous**
Sampled: **6/27/2024 14:13**

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | **0.269 J** | µg/L | 0.210 | 0.500 | 1 | 07/01/24 23:31 | | V49168 |
| Surrogate: 4-Bromofluorobenzene | 98.4 | | Limits: 70-130% | | 1 | 07/01/24 23:31 | ASH | V49168 |
| Surrogate: Dibromofluoromethane | 87.2 | | Limits: 70-130% | | 1 | 07/01/24 23:31 | ASH | V49168 |
| Surrogate: 1,2-Dichloroethane - d4 | 94.6 | | Limits: 70-130% | | 1 | 07/01/24 23:31 | ASH | V49168 |
| Surrogate: Toluene-d8 | 95.4 | | Limits: 70-130% | | 1 | 07/01/24 23:31 | ASH | V49168 |

| **Qualifiers/ Definitions** | | | | |
|---|---|---|---|---|
| | * | Outside QC Limit | DF | Dilution Factor |
| | J | Estimated value | M | Minimum value |
| | MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Date : 07/16/2024
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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96696**
Sample ID : **18686- MW-15**

Matrix: **Aqueous**
Sampled: **6/27/2024 13:44**

**Analytical Method:** 8011 **Prep Batch(es):** **V49269** 07/08/24 14:00
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00739 | µg/L | 0.00739 | 0.0211 | 1 | 07/08/24 22:47 | NDL | V49373 |
| Surrogate: 4-Bromofluorobenzene | **66.9 *** | | Limits: 70-130% | | 1 | 07/08/24 22:47 | NDL | V49373 |

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/01/24 23:56 | ASH | V49168 |
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/01/24 23:56 | ASH | V49168 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/01/24 23:56 | ASH | V49168 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/01/24 23:56 | ASH | V49168 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/01/24 23:56 | ASH | V49168 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/01/24 23:56 | ASH | V49168 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/01/24 23:56 | ASH | V49168 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/01/24 23:56 | ASH | V49168 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/01/24 23:56 | ASH | V49168 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/01/24 23:56 | ASH | V49168 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/01/24 23:56 | ASH | V49168 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/01/24 23:56 | ASH | V49168 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/01/24 23:56 | ASH | V49168 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/01/24 23:56 | ASH | V49168 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/01/24 23:56 | ASH | V49168 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/01/24 23:56 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96696**
Sample ID : **18686- MW-15**

Matrix: **Aqueous**
Sampled: **6/27/2024 13:44**

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/01/24 23:56 | | V49168 |
| Surrogate: 4-Bromofluorobenzene | 97.2 | | Limits: 70-130% | | 1 | 07/01/24 23:56 | ASH | V49168 |
| Surrogate: Dibromofluoromethane | 88.4 | | Limits: 70-130% | | 1 | 07/01/24 23:56 | ASH | V49168 |
| Surrogate: 1,2-Dichloroethane - d4 | 95.2 | | Limits: 70-130% | | 1 | 07/01/24 23:56 | ASH | V49168 |
| Surrogate: Toluene-d8 | 95.8 | | Limits: 70-130% | | 1 | 07/01/24 23:56 | ASH | V49168 |

| **Qualifiers/ Definitions** | | | | |
|---|---|---|---|---|
| | * | Outside QC Limit | DF | Dilution Factor |
| | J | Estimated value | M | Minimum value |
| | MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96697**
Sample ID : **18686- MW-16R**

Matrix: **Aqueous**
Sampled: **6/27/2024 12:07**

**Analytical Method:** 8011 **Prep Batch(es):** **V49269** 07/08/24 14:00
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00742 | µg/L | 0.00742 | 0.0212 | 1 | 07/08/24 23:06 | NDL | V49373 |
| Surrogate: 4-Bromofluorobenzene | **52.7 *** | | Limits: 70-130% | | 1 | 07/08/24 23:06 | NDL | V49373 |

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <100 | µg/L | 100 | 1000 | 100 | 07/02/24 03:42 | ASH | V49168 |
| Benzene | **358** | µg/L | 18.0 | 50.0 | 100 | 07/02/24 03:42 | ASH | V49168 |
| Di-Isopropyl Ether (DIPE) | <96.0 | µg/L | 96.0 | 500 | 100 | 07/02/24 03:42 | ASH | V49168 |
| 1,2-Dichloroethane | <15.0 | µg/L | 15.0 | 50.0 | 100 | 07/02/24 03:42 | ASH | V49168 |
| Ethanol | <4200 | µg/L | 4200 | 20000 | 100 | 07/02/24 03:42 | ASH | V49168 |
| Ethylbenzene | **225** | µg/L | 17.0 | 50.0 | 100 | 07/02/24 03:42 | ASH | V49168 |
| Ethyl Tertiary Butyl Ether (ETBE) | <180 | µg/L | 180 | 1000 | 100 | 07/02/24 03:42 | ASH | V49168 |
| Methyl tert-butyl ether (MTBE) | <14.0 | µg/L | 14.0 | 50.0 | 100 | 07/02/24 03:42 | ASH | V49168 |
| Naphthalene | **48.0 J** | µg/L | 47.0 | 100 | 100 | 07/02/24 03:42 | ASH | V49168 |
| tert-Butyl Alcohol (TBA) | <160 | µg/L | 160 | 1000 | 100 | 07/02/24 03:42 | ASH | V49168 |
| tert-Butyl formate (TBF) | <35.0 | µg/L | 35.0 | 1000 | 100 | 07/02/24 03:42 | ASH | V49168 |
| tert-Amyl Alcohol (TAA) | <190 | µg/L | 190 | 1000 | 100 | 07/02/24 03:42 | ASH | V49168 |
| tert-Amyl Methyl Ether (TAME) | <28.0 | µg/L | 28.0 | 1000 | 100 | 07/02/24 03:42 | ASH | V49168 |
| Toluene | **1730** | µg/L | 22.0 | 50.0 | 100 | 07/02/24 03:42 | ASH | V49168 |
| o-Xylene | **678** | µg/L | 21.0 | 50.0 | 100 | 07/02/24 03:42 | ASH | V49168 |
| m,p-Xylene | **845** | µg/L | 42.0 | 100 | 100 | 07/02/24 03:42 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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***REPORT OF ANALYSIS***

Lab No : **96697**
Sample ID : **18686- MW-16R**

Matrix: **Aqueous**
Sampled: **6/27/2024 12:07**

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | **1520** | µg/L | 21.0 | 50.0 | 100 | 07/02/24 03:42 | | V49168 |
| Surrogate: 4-Bromofluorobenzene | 99.2 | | Limits: 70-130% | | 100 | 07/02/24 03:42 | ASH | V49168 |
| Surrogate: Dibromofluoromethane | 87.6 | | Limits: 70-130% | | 100 | 07/02/24 03:42 | ASH | V49168 |
| Surrogate: 1,2-Dichloroethane - d4 | 93.8 | | Limits: 70-130% | | 100 | 07/02/24 03:42 | ASH | V49168 |
| Surrogate: Toluene-d8 | 95.2 | | Limits: 70-130% | | 100 | 07/02/24 03:42 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96698**
Sample ID : **18686- MW-17R**

Matrix: **Aqueous**
Sampled: **6/27/2024 12:32**

**Analytical Method:** 8011 **Prep Batch(es):** **V49269** 07/08/24 14:00
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00746 | µg/L | 0.00746 | 0.0213 | 1 | 07/08/24 23:24 | NDL | V49373 |
| Surrogate: 4-Bromofluorobenzene | **65.9 *** | | Limits: 70-130% | | 1 | 07/08/24 23:24 | NDL | V49373 |

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14 **V49518** 07/13/24 11:08
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <10.0 | µg/L | 10.0 | 100 | 10 | 07/02/24 02:27 | ASH | V49168 |
| Benzene | **1570** | µg/L | 18.0 | 50.0 | 100 | 07/13/24 20:59 | ENM | V49560 |
| Di-Isopropyl Ether (DIPE) | <9.60 | µg/L | 9.60 | 50.0 | 10 | 07/02/24 02:27 | ASH | V49168 |
| 1,2-Dichloroethane | <1.50 | µg/L | 1.50 | 5.00 | 10 | 07/02/24 02:27 | ASH | V49168 |
| Ethanol | <420 | µg/L | 420 | 2000 | 10 | 07/02/24 02:27 | ASH | V49168 |
| Ethylbenzene | **173** | µg/L | 1.70 | 5.00 | 10 | 07/02/24 02:27 | ASH | V49168 |
| Ethyl Tertiary Butyl Ether (ETBE) | <18.0 | µg/L | 18.0 | 100 | 10 | 07/02/24 02:27 | ASH | V49168 |
| Methyl tert-butyl ether (MTBE) | **297** | µg/L | 1.40 | 5.00 | 10 | 07/02/24 02:27 | ASH | V49168 |
| Naphthalene | **49.3** | µg/L | 4.70 | 10.0 | 10 | 07/02/24 02:27 | ASH | V49168 |
| tert-Butyl Alcohol (TBA) | <16.0 | µg/L | 16.0 | 100 | 10 | 07/02/24 02:27 | ASH | V49168 |
| tert-Butyl formate (TBF) | <3.50 | µg/L | 3.50 | 100 | 10 | 07/02/24 02:27 | ASH | V49168 |
| tert-Amyl Alcohol (TAA) | <19.0 | µg/L | 19.0 | 100 | 10 | 07/02/24 02:27 | ASH | V49168 |
| tert-Amyl Methyl Ether (TAME) | <2.80 | µg/L | 2.80 | 100 | 10 | 07/02/24 02:27 | ASH | V49168 |
| Toluene | **116** | µg/L | 2.20 | 5.00 | 10 | 07/02/24 02:27 | ASH | V49168 |
| o-Xylene | **77.1** | µg/L | 2.10 | 5.00 | 10 | 07/02/24 02:27 | ASH | V49168 |
| m,p-Xylene | **179** | µg/L | 4.20 | 10.0 | 10 | 07/02/24 02:27 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96698**
Sample ID : **18686- MW-17R**

Matrix: **Aqueous**
Sampled: **6/27/2024 12:32**

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14 **V49518** 07/13/24 11:08
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | **256** | µg/L | 2.10 | 5.00 | 10 | 07/02/24 02:27 | | V49168 |
| Surrogate: 4-Bromofluorobenzene | 98.4 | | Limits: 70-130% | | 10 | 07/02/24 02:27 | ASH | V49168 |
| Surrogate: Dibromofluoromethane | 88.8 | | Limits: 70-130% | | 10 | 07/02/24 02:27 | ASH | V49168 |
| Surrogate: 1,2-Dichloroethane - d4 | 95.6 | | Limits: 70-130% | | 10 | 07/02/24 02:27 | ASH | V49168 |
| Surrogate: Toluene-d8 | 94.0 | | Limits: 70-130% | | 10 | 07/02/24 02:27 | ASH | V49168 |
| Surrogate: 4-Bromofluorobenzene | 102 | | Limits: 70-130% | | 100 | 07/13/24 20:59 | ENM | V49560 |
| Surrogate: Dibromofluoromethane | 94.8 | | Limits: 70-130% | | 100 | 07/13/24 20:59 | ENM | V49560 |
| Surrogate: 1,2-Dichloroethane - d4 | 96.6 | | Limits: 70-130% | | 100 | 07/13/24 20:59 | ENM | V49560 |
| Surrogate: Toluene-d8 | 98.6 | | Limits: 70-130% | | 100 | 07/13/24 20:59 | ENM | V49560 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96699**
Sample ID : **18686- MW-26**

Matrix: **Aqueous**
Sampled: **6/27/2024 15:33**

**Analytical Method:** 8011 **Prep Batch(es):** **V49269** 07/08/24 14:00
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00742 | µg/L | 0.00742 | 0.0212 | 1 | 07/08/24 23:42 | NDL | V49373 |
| Surrogate: 4-Bromofluorobenzene | 71.3 | | Limits: 70-130% | | 1 | 07/08/24 23:42 | NDL | V49373 |

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/02/24 00:21 | ASH | V49168 |
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/02/24 00:21 | ASH | V49168 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/02/24 00:21 | ASH | V49168 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/02/24 00:21 | ASH | V49168 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/02/24 00:21 | ASH | V49168 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/02/24 00:21 | ASH | V49168 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/02/24 00:21 | ASH | V49168 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/02/24 00:21 | ASH | V49168 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/02/24 00:21 | ASH | V49168 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/02/24 00:21 | ASH | V49168 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/02/24 00:21 | ASH | V49168 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/02/24 00:21 | ASH | V49168 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/02/24 00:21 | ASH | V49168 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/02/24 00:21 | ASH | V49168 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/02/24 00:21 | ASH | V49168 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/02/24 00:21 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96699**
Sample ID : **18686- MW-26**

Matrix: **Aqueous**
Sampled: **6/27/2024 15:33**

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/02/24 00:21 | | V49168 |
| Surrogate: 4-Bromofluorobenzene | 98.4 | | Limits: 70-130% | | 1 | 07/02/24 00:21 | ASH | V49168 |
| Surrogate: Dibromofluoromethane | 88.4 | | Limits: 70-130% | | 1 | 07/02/24 00:21 | ASH | V49168 |
| Surrogate: 1,2-Dichloroethane - d4 | 95.8 | | Limits: 70-130% | | 1 | 07/02/24 00:21 | ASH | V49168 |
| Surrogate: Toluene-d8 | 94.6 | | Limits: 70-130% | | 1 | 07/02/24 00:21 | ASH | V49168 |

| **Qualifiers/ Definitions** | | | | |
|---|---|---|---|---|
| | * | Outside QC Limit | DF | Dilution Factor |
| | J | Estimated value | M | Minimum value |
| | MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Project Tisdales Quick Stop
Information : GRI #1543

Report Date : 07/16/2024
Received : 06/28/2024

Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96700**
Sample ID : **18686- MW-27**

Matrix: **Aqueous**
Sampled: **6/27/2024 16:06**

**Analytical Method:** 8011 **Prep Batch(es):** **V49269** 07/08/24 14:00
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | **0.128 Q** | µg/L | 0.00728 | 0.0208 | 1 | 07/09/24 00:37 | NDL | V49373 |
| Surrogate: 4-Bromofluorobenzene | 76.0 | | Limits: 70-130% | | 1 | 07/09/24 00:37 | NDL | V49373 |

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/02/24 00:46 | ASH | V49168 |
| Benzene | **0.639** | µg/L | 0.180 | 0.500 | 1 | 07/02/24 00:46 | ASH | V49168 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/02/24 00:46 | ASH | V49168 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/02/24 00:46 | ASH | V49168 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/02/24 00:46 | ASH | V49168 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/02/24 00:46 | ASH | V49168 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/02/24 00:46 | ASH | V49168 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/02/24 00:46 | ASH | V49168 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/02/24 00:46 | ASH | V49168 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/02/24 00:46 | ASH | V49168 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/02/24 00:46 | ASH | V49168 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/02/24 00:46 | ASH | V49168 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/02/24 00:46 | ASH | V49168 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/02/24 00:46 | ASH | V49168 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/02/24 00:46 | ASH | V49168 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/02/24 00:46 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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***REPORT OF ANALYSIS***

Lab No : **96700**
Sample ID : **18686- MW-27**

Matrix: **Aqueous**
Sampled: **6/27/2024 16:06**

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/02/24 00:46 | | V49168 |
| Surrogate: 4-Bromofluorobenzene | 98.8 | | Limits: 70-130% | | 1 | 07/02/24 00:46 | ASH | V49168 |
| Surrogate: Dibromofluoromethane | 87.2 | | Limits: 70-130% | | 1 | 07/02/24 00:46 | ASH | V49168 |
| Surrogate: 1,2-Dichloroethane - d4 | 93.4 | | Limits: 70-130% | | 1 | 07/02/24 00:46 | ASH | V49168 |
| Surrogate: Toluene-d8 | 95.2 | | Limits: 70-130% | | 1 | 07/02/24 00:46 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96701**
Sample ID : **18686- MW-28**

Matrix: **Aqueous**
Sampled: **6/27/2024 15:35**

**Analytical Method:** 8011 **Prep Batch(es):** **V49269** 07/08/24 14:00
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00735 | µg/L | 0.00735 | 0.0210 | 1 | 07/09/24 00:55 | NDL | V49373 |
| Surrogate: 4-Bromofluorobenzene | 76.4 | | Limits: 70-130% | | 1 | 07/09/24 00:55 | NDL | V49373 |

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/02/24 01:12 | ASH | V49168 |
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/02/24 01:12 | ASH | V49168 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/02/24 01:12 | ASH | V49168 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/02/24 01:12 | ASH | V49168 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/02/24 01:12 | ASH | V49168 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/02/24 01:12 | ASH | V49168 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/02/24 01:12 | ASH | V49168 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/02/24 01:12 | ASH | V49168 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/02/24 01:12 | ASH | V49168 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/02/24 01:12 | ASH | V49168 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/02/24 01:12 | ASH | V49168 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/02/24 01:12 | ASH | V49168 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/02/24 01:12 | ASH | V49168 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/02/24 01:12 | ASH | V49168 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/02/24 01:12 | ASH | V49168 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/02/24 01:12 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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***REPORT OF ANALYSIS***

Lab No : **96701**
Sample ID : **18686- MW-28**

Matrix: **Aqueous**
Sampled: **6/27/2024 15:35**

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/02/24 01:12 | | V49168 |
| Surrogate: 4-Bromofluorobenzene | 98.2 | | Limits: 70-130% | | 1 | 07/02/24 01:12 | ASH | V49168 |
| Surrogate: Dibromofluoromethane | 88.6 | | Limits: 70-130% | | 1 | 07/02/24 01:12 | ASH | V49168 |
| Surrogate: 1,2-Dichloroethane - d4 | 96.8 | | Limits: 70-130% | | 1 | 07/02/24 01:12 | ASH | V49168 |
| Surrogate: Toluene-d8 | 95.8 | | Limits: 70-130% | | 1 | 07/02/24 01:12 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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***REPORT OF ANALYSIS***

Lab No : **96702**
Sample ID : **18686- MW-31**

Matrix: **Aqueous**
Sampled: **6/27/2024 16:25**

**Analytical Method:** 8011 **Prep Batch(es):** **V49269** 07/08/24 14:00
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00742 | µg/L | 0.00742 | 0.0212 | 1 | 07/09/24 01:14 | NDL | V49373 |
| Surrogate: 4-Bromofluorobenzene | 80.4 | | Limits: 70-130% | | 1 | 07/09/24 01:14 | NDL | V49373 |

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/02/24 01:37 | ASH | V49168 |
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/02/24 01:37 | ASH | V49168 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/02/24 01:37 | ASH | V49168 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/02/24 01:37 | ASH | V49168 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/02/24 01:37 | ASH | V49168 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/02/24 01:37 | ASH | V49168 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/02/24 01:37 | ASH | V49168 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/02/24 01:37 | ASH | V49168 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/02/24 01:37 | ASH | V49168 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/02/24 01:37 | ASH | V49168 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/02/24 01:37 | ASH | V49168 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/02/24 01:37 | ASH | V49168 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/02/24 01:37 | ASH | V49168 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/02/24 01:37 | ASH | V49168 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/02/24 01:37 | ASH | V49168 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/02/24 01:37 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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***REPORT OF ANALYSIS***

Lab No : **96702**
Sample ID : **18686- MW-31**

Matrix: **Aqueous**
Sampled: **6/27/2024 16:25**

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/02/24 01:37 | | V49168 |
| Surrogate: 4-Bromofluorobenzene | 99.0 | | Limits: 70-130% | | 1 | 07/02/24 01:37 | ASH | V49168 |
| Surrogate: Dibromofluoromethane | 87.6 | | Limits: 70-130% | | 1 | 07/02/24 01:37 | ASH | V49168 |
| Surrogate: 1,2-Dichloroethane - d4 | 96.0 | | Limits: 70-130% | | 1 | 07/02/24 01:37 | ASH | V49168 |
| Surrogate: Toluene-d8 | 94.6 | | Limits: 70-130% | | 1 | 07/02/24 01:37 | ASH | V49168 |

| **Qualifiers/ Definitions** | | | | |
|---|---|---|---|---|
| | * | Outside QC Limit | DF | Dilution Factor |
| | J | Estimated value | M | Minimum value |
| | MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96703**
Sample ID : **18686- MW-1A**

Matrix: **Aqueous**
Sampled: **6/27/2024 10:50**

**Analytical Method:** 8011 **Prep Batch(es):** **V49268** 07/05/24 12:00
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00725 | µg/L | 0.00725 | 0.0207 | 1 | 07/05/24 20:16 | NDL | V49316 |
| Surrogate: 4-Bromofluorobenzene | 87.2 | | Limits: 70-130% | | 1 | 07/05/24 20:16 | NDL | V49316 |

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <10.0 | µg/L | 10.0 | 100 | 10 | 07/02/24 02:52 | ASH | V49168 |
| Benzene | **712** | µg/L | 1.80 | 5.00 | 10 | 07/02/24 02:52 | ASH | V49168 |
| Di-Isopropyl Ether (DIPE) | <9.60 | µg/L | 9.60 | 50.0 | 10 | 07/02/24 02:52 | ASH | V49168 |
| 1,2-Dichloroethane | <1.50 | µg/L | 1.50 | 5.00 | 10 | 07/02/24 02:52 | ASH | V49168 |
| Ethanol | <420 | µg/L | 420 | 2000 | 10 | 07/02/24 02:52 | ASH | V49168 |
| Ethylbenzene | **6.96** | µg/L | 1.70 | 5.00 | 10 | 07/02/24 02:52 | ASH | V49168 |
| Ethyl Tertiary Butyl Ether (ETBE) | <18.0 | µg/L | 18.0 | 100 | 10 | 07/02/24 02:52 | ASH | V49168 |
| Methyl tert-butyl ether (MTBE) | **35.2** | µg/L | 1.40 | 5.00 | 10 | 07/02/24 02:52 | ASH | V49168 |
| Naphthalene | <4.70 | µg/L | 4.70 | 10.0 | 10 | 07/02/24 02:52 | ASH | V49168 |
| tert-Butyl Alcohol (TBA) | <16.0 | µg/L | 16.0 | 100 | 10 | 07/02/24 02:52 | ASH | V49168 |
| tert-Butyl formate (TBF) | <3.50 | µg/L | 3.50 | 100 | 10 | 07/02/24 02:52 | ASH | V49168 |
| tert-Amyl Alcohol (TAA) | <19.0 | µg/L | 19.0 | 100 | 10 | 07/02/24 02:52 | ASH | V49168 |
| tert-Amyl Methyl Ether (TAME) | <2.80 | µg/L | 2.80 | 100 | 10 | 07/02/24 02:52 | ASH | V49168 |
| Toluene | **234** | µg/L | 2.20 | 5.00 | 10 | 07/02/24 02:52 | ASH | V49168 |
| o-Xylene | **43.8** | µg/L | 2.10 | 5.00 | 10 | 07/02/24 02:52 | ASH | V49168 |
| m,p-Xylene | **49.7** | µg/L | 4.20 | 10.0 | 10 | 07/02/24 02:52 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96703**
Sample ID : **18686- MW-1A**

Matrix: **Aqueous**
Sampled: **6/27/2024 10:50**

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | **93.5** | µg/L | 2.10 | 5.00 | 10 | 07/02/24 02:52 | | V49168 |
| Surrogate: 4-Bromofluorobenzene | 99.2 | | Limits: 70-130% | | 10 | 07/02/24 02:52 | ASH | V49168 |
| Surrogate: Dibromofluoromethane | 90.0 | | Limits: 70-130% | | 10 | 07/02/24 02:52 | ASH | V49168 |
| Surrogate: 1,2-Dichloroethane - d4 | 97.2 | | Limits: 70-130% | | 10 | 07/02/24 02:52 | ASH | V49168 |
| Surrogate: Toluene-d8 | 95.8 | | Limits: 70-130% | | 10 | 07/02/24 02:52 | ASH | V49168 |

| **Qualifiers/ Definitions** | | | | |
|---|---|---|---|---|
| | * | Outside QC Limit | DF | Dilution Factor |
| | J | Estimated value | M | Minimum value |
| | MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96704**
Sample ID : **18686- MW-2A**

Matrix: **Aqueous**
Sampled: **6/27/2024 11:20**

**Analytical Method:** 8011 **Prep Batch(es):** **V49268** 07/05/24 12:00
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | **0.146** | µg/L | 0.00725 | 0.0207 | 1 | 07/05/24 20:35 | NDL | V49316 |
| Surrogate: 4-Bromofluorobenzene | **64.8 *** | | Limits: 70-130% | | 1 | 07/05/24 20:35 | NDL | V49316 |

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1000 | µg/L | 1000 | 10000 | 1000 | 07/02/24 05:23 | ASH | V49168 |
| Benzene | **19200** | µg/L | 180 | 500 | 1000 | 07/02/24 05:23 | ASH | V49168 |
| Di-Isopropyl Ether (DIPE) | <960 | µg/L | 960 | 5000 | 1000 | 07/02/24 05:23 | ASH | V49168 |
| 1,2-Dichloroethane | <150 | µg/L | 150 | 500 | 1000 | 07/02/24 05:23 | ASH | V49168 |
| Ethanol | <42000 | µg/L | 42000 | 200000 | 1000 | 07/02/24 05:23 | ASH | V49168 |
| Ethylbenzene | **2380** | µg/L | 170 | 500 | 1000 | 07/02/24 05:23 | ASH | V49168 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1800 | µg/L | 1800 | 10000 | 1000 | 07/02/24 05:23 | ASH | V49168 |
| Methyl tert-butyl ether (MTBE) | <140 | µg/L | 140 | 500 | 1000 | 07/02/24 05:23 | ASH | V49168 |
| Naphthalene | **2190** | µg/L | 470 | 1000 | 1000 | 07/02/24 05:23 | ASH | V49168 |
| tert-Butyl Alcohol (TBA) | <1600 | µg/L | 1600 | 10000 | 1000 | 07/02/24 05:23 | ASH | V49168 |
| tert-Butyl formate (TBF) | <350 | µg/L | 350 | 10000 | 1000 | 07/02/24 05:23 | ASH | V49168 |
| tert-Amyl Alcohol (TAA) | <1900 | µg/L | 1900 | 10000 | 1000 | 07/02/24 05:23 | ASH | V49168 |
| tert-Amyl Methyl Ether (TAME) | <280 | µg/L | 280 | 10000 | 1000 | 07/02/24 05:23 | ASH | V49168 |
| Toluene | **29900** | µg/L | 220 | 500 | 1000 | 07/02/24 05:23 | ASH | V49168 |
| o-Xylene | **4490** | µg/L | 210 | 500 | 1000 | 07/02/24 05:23 | ASH | V49168 |
| m,p-Xylene | **9410** | µg/L | 420 | 1000 | 1000 | 07/02/24 05:23 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96704**
Sample ID : **18686- MW-2A**

Matrix: **Aqueous**
Sampled: **6/27/2024 11:20**

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | **13900** | µg/L | 210 | 500 | 1000 | 07/02/24 05:23 | | V49168 |
| Surrogate: 4-Bromofluorobenzene | 98.4 | | Limits: 70-130% | | 1000 | 07/02/24 05:23 | ASH | V49168 |
| Surrogate: Dibromofluoromethane | 86.8 | | Limits: 70-130% | | 1000 | 07/02/24 05:23 | ASH | V49168 |
| Surrogate: 1,2-Dichloroethane - d4 | 95.6 | | Limits: 70-130% | | 1000 | 07/02/24 05:23 | ASH | V49168 |
| Surrogate: Toluene-d8 | 94.6 | | Limits: 70-130% | | 1000 | 07/02/24 05:23 | ASH | V49168 |

| **Qualifiers/ Definitions** | | | | |
|---|---|---|---|---|
| | * | Outside QC Limit | DF | Dilution Factor |
| | J | Estimated value | M | Minimum value |
| | MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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***REPORT OF ANALYSIS***

Lab No : **96705**
Sample ID : **18686- MW-4A**

Matrix: **Aqueous**
Sampled: **6/27/2024 10:55**

**Analytical Method:** 8011 **Prep Batch(es):** **V49268** 07/05/24 12:00
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00735 | µg/L | 0.00735 | 0.0210 | 1 | 07/05/24 20:53 | NDL | V49316 |
| Surrogate: 4-Bromofluorobenzene | **62.0 *** | | Limits: 70-130% | | 1 | 07/05/24 20:53 | NDL | V49316 |

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <100 | µg/L | 100 | 1000 | 100 | 07/02/24 04:08 | ASH | V49168 |
| Benzene | **1320** | µg/L | 18.0 | 50.0 | 100 | 07/02/24 04:08 | ASH | V49168 |
| Di-Isopropyl Ether (DIPE) | <96.0 | µg/L | 96.0 | 500 | 100 | 07/02/24 04:08 | ASH | V49168 |
| 1,2-Dichloroethane | <15.0 | µg/L | 15.0 | 50.0 | 100 | 07/02/24 04:08 | ASH | V49168 |
| Ethanol | <4200 | µg/L | 4200 | 20000 | 100 | 07/02/24 04:08 | ASH | V49168 |
| Ethylbenzene | **212** | µg/L | 17.0 | 50.0 | 100 | 07/02/24 04:08 | ASH | V49168 |
| Ethyl Tertiary Butyl Ether (ETBE) | <180 | µg/L | 180 | 1000 | 100 | 07/02/24 04:08 | ASH | V49168 |
| Methyl tert-butyl ether (MTBE) | <14.0 | µg/L | 14.0 | 50.0 | 100 | 07/02/24 04:08 | ASH | V49168 |
| Naphthalene | **179** | µg/L | 47.0 | 100 | 100 | 07/02/24 04:08 | ASH | V49168 |
| tert-Butyl Alcohol (TBA) | <160 | µg/L | 160 | 1000 | 100 | 07/02/24 04:08 | ASH | V49168 |
| tert-Butyl formate (TBF) | <35.0 | µg/L | 35.0 | 1000 | 100 | 07/02/24 04:08 | ASH | V49168 |
| tert-Amyl Alcohol (TAA) | <190 | µg/L | 190 | 1000 | 100 | 07/02/24 04:08 | ASH | V49168 |
| tert-Amyl Methyl Ether (TAME) | <28.0 | µg/L | 28.0 | 1000 | 100 | 07/02/24 04:08 | ASH | V49168 |
| Toluene | **2720** | µg/L | 22.0 | 50.0 | 100 | 07/02/24 04:08 | ASH | V49168 |
| o-Xylene | **1640** | µg/L | 21.0 | 50.0 | 100 | 07/02/24 04:08 | ASH | V49168 |
| m,p-Xylene | **2790** | µg/L | 42.0 | 100 | 100 | 07/02/24 04:08 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96705**
Sample ID : **18686- MW-4A**

Matrix: **Aqueous**
Sampled: **6/27/2024 10:55**

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | **4430** | µg/L | 21.0 | 50.0 | 100 | 07/02/24 04:08 | | V49168 |
| Surrogate: 4-Bromofluorobenzene | 98.0 | | Limits: 70-130% | | 100 | 07/02/24 04:08 | ASH | V49168 |
| Surrogate: Dibromofluoromethane | 89.4 | | Limits: 70-130% | | 100 | 07/02/24 04:08 | ASH | V49168 |
| Surrogate: 1,2-Dichloroethane - d4 | 97.4 | | Limits: 70-130% | | 100 | 07/02/24 04:08 | ASH | V49168 |
| Surrogate: Toluene-d8 | 94.4 | | Limits: 70-130% | | 100 | 07/02/24 04:08 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96706**
Sample ID : **18686- TW-1**

Matrix: **Aqueous**
Sampled: **6/27/2024 13:52**

**Analytical Method:** 8011 **Prep Batch(es):** **V49268** 07/05/24 12:00
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00725 | µg/L | 0.00725 | 0.0207 | 1 | 07/05/24 21:11 | NDL | V49316 |
| Surrogate: 4-Bromofluorobenzene | **57.8 *** | | Limits: 70-130% | | 1 | 07/05/24 21:11 | NDL | V49316 |

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/02/24 02:02 | ASH | V49168 |
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/02/24 02:02 | ASH | V49168 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/02/24 02:02 | ASH | V49168 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/02/24 02:02 | ASH | V49168 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/02/24 02:02 | ASH | V49168 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/02/24 02:02 | ASH | V49168 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/02/24 02:02 | ASH | V49168 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/02/24 02:02 | ASH | V49168 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/02/24 02:02 | ASH | V49168 |
| tert-Butyl Alcohol (TBA) | <1.60 | µg/L | 1.60 | 10.0 | 1 | 07/02/24 02:02 | ASH | V49168 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/02/24 02:02 | ASH | V49168 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/02/24 02:02 | ASH | V49168 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/02/24 02:02 | ASH | V49168 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/02/24 02:02 | ASH | V49168 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/02/24 02:02 | ASH | V49168 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/02/24 02:02 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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***REPORT OF ANALYSIS***

Lab No : **96706**
Sample ID : **18686- TW-1**

Matrix: **Aqueous**
Sampled: **6/27/2024 13:52**

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/02/24 02:02 | | V49168 |
| Surrogate: 4-Bromofluorobenzene | 99.2 | | Limits: 70-130% | | 1 | 07/02/24 02:02 | ASH | V49168 |
| Surrogate: Dibromofluoromethane | 89.6 | | Limits: 70-130% | | 1 | 07/02/24 02:02 | ASH | V49168 |
| Surrogate: 1,2-Dichloroethane - d4 | 96.4 | | Limits: 70-130% | | 1 | 07/02/24 02:02 | ASH | V49168 |
| Surrogate: Toluene-d8 | 95.2 | | Limits: 70-130% | | 1 | 07/02/24 02:02 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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***REPORT OF ANALYSIS***

Lab No : **96707**
Sample ID : **18686- MW-1 DUP**

Matrix: **Aqueous**
Sampled: **6/27/2024 0:00**

**Analytical Method:** 8011 **Prep Batch(es):** **V49268** 07/05/24 12:00
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00728 | µg/L | 0.00728 | 0.0208 | 1 | 07/05/24 21:29 | NDL | V49316 |
| Surrogate: 4-Bromofluorobenzene | **55.4 *** | | Limits: 70-130% | | 1 | 07/05/24 21:29 | NDL | V49316 |

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <100 | µg/L | 100 | 1000 | 100 | 07/02/24 04:33 | ASH | V49168 |
| Benzene | **5170** | µg/L | 18.0 | 50.0 | 100 | 07/02/24 04:33 | ASH | V49168 |
| Di-Isopropyl Ether (DIPE) | <96.0 | µg/L | 96.0 | 500 | 100 | 07/02/24 04:33 | ASH | V49168 |
| 1,2-Dichloroethane | <15.0 | µg/L | 15.0 | 50.0 | 100 | 07/02/24 04:33 | ASH | V49168 |
| Ethanol | <4200 | µg/L | 4200 | 20000 | 100 | 07/02/24 04:33 | ASH | V49168 |
| Ethylbenzene | **1030** | µg/L | 17.0 | 50.0 | 100 | 07/02/24 04:33 | ASH | V49168 |
| Ethyl Tertiary Butyl Ether (ETBE) | <180 | µg/L | 180 | 1000 | 100 | 07/02/24 04:33 | ASH | V49168 |
| Methyl tert-butyl ether (MTBE) | **102** | µg/L | 14.0 | 50.0 | 100 | 07/02/24 04:33 | ASH | V49168 |
| Naphthalene | **289** | µg/L | 47.0 | 100 | 100 | 07/02/24 04:33 | ASH | V49168 |
| tert-Butyl Alcohol (TBA) | <160 | µg/L | 160 | 1000 | 100 | 07/02/24 04:33 | ASH | V49168 |
| tert-Butyl formate (TBF) | <35.0 | µg/L | 35.0 | 1000 | 100 | 07/02/24 04:33 | ASH | V49168 |
| tert-Amyl Alcohol (TAA) | <190 | µg/L | 190 | 1000 | 100 | 07/02/24 04:33 | ASH | V49168 |
| tert-Amyl Methyl Ether (TAME) | <28.0 | µg/L | 28.0 | 1000 | 100 | 07/02/24 04:33 | ASH | V49168 |
| Toluene | **4130** | µg/L | 22.0 | 50.0 | 100 | 07/02/24 04:33 | ASH | V49168 |
| o-Xylene | **1060** | µg/L | 21.0 | 50.0 | 100 | 07/02/24 04:33 | ASH | V49168 |
| m,p-Xylene | **4060** | µg/L | 42.0 | 100 | 100 | 07/02/24 04:33 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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***REPORT OF ANALYSIS***

Lab No : **96707**
Sample ID : **18686- MW-1 DUP**

Matrix: **Aqueous**
Sampled: **6/27/2024 0:00**

**Analytical Method:** 8260D **Prep Batch(es):** **V49159** 07/01/24 17:14
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | **5120** | µg/L | 21.0 | 50.0 | 100 | 07/02/24 04:33 | | V49168 |
| Surrogate: 4-Bromofluorobenzene | 98.4 | | Limits: 70-130% | | 100 | 07/02/24 04:33 | ASH | V49168 |
| Surrogate: Dibromofluoromethane | 87.6 | | Limits: 70-130% | | 100 | 07/02/24 04:33 | ASH | V49168 |
| Surrogate: 1,2-Dichloroethane - d4 | 93.2 | | Limits: 70-130% | | 100 | 07/02/24 04:33 | ASH | V49168 |
| Surrogate: Toluene-d8 | 94.2 | | Limits: 70-130% | | 100 | 07/02/24 04:33 | ASH | V49168 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96709**
Sample ID : **18686- MW-Trip Blank**

Matrix: **Aqueous**
Sampled: **6/27/2024 8:00**

**Analytical Method:** 8260D **Prep Batch(es):** **V49207** 07/02/24 17:45
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/02/24 21:32 | ASH | V49219 |
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/02/24 21:32 | ASH | V49219 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/02/24 21:32 | ASH | V49219 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/02/24 21:32 | ASH | V49219 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/02/24 21:32 | ASH | V49219 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/02/24 21:32 | ASH | V49219 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/02/24 21:32 | ASH | V49219 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/02/24 21:32 | ASH | V49219 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/02/24 21:32 | ASH | V49219 |
| tert-Butyl Alcohol (TBA) | <1.60 M | µg/L | 1.60 | 10.0 | 1 | 07/02/24 21:32 | ASH | V49219 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/02/24 21:32 | ASH | V49219 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/02/24 21:32 | ASH | V49219 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/02/24 21:32 | ASH | V49219 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/02/24 21:32 | ASH | V49219 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/02/24 21:32 | ASH | V49219 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/02/24 21:32 | ASH | V49219 |
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/02/24 21:32 | | V49219 |
| Surrogate: 4-Bromofluorobenzene | 98.2 | | Limits: 70-130% | | 1 | 07/02/24 21:32 | ASH | V49219 |
| Surrogate: Dibromofluoromethane | 87.6 | | Limits: 70-130% | | 1 | 07/02/24 21:32 | ASH | V49219 |
| Surrogate: 1,2-Dichloroethane - d4 | 95.2 | | Limits: 70-130% | | 1 | 07/02/24 21:32 | ASH | V49219 |
| Surrogate: Toluene-d8 | 94.2 | | Limits: 70-130% | | 1 | 07/02/24 21:32 | ASH | V49219 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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***REPORT OF ANALYSIS***

Lab No : **96710**
Sample ID : **18686-MW-Field Blank**

Matrix: **Aqueous**
Sampled: **6/27/2024 8:05**

**Analytical Method:** 8011 **Prep Batch(es):** **V49268** 07/05/24 12:00
**Prep Method:** 8011

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00714 | µg/L | 0.00714 | 0.0204 | 1 | 07/05/24 22:06 | NDL | V49316 |
| Surrogate: 4-Bromofluorobenzene | 76.7 | | Limits: 70-130% | | 1 | 07/05/24 22:06 | NDL | V49316 |

**Analytical Method:** 8260D **Prep Batch(es):** **V49207** 07/02/24 17:45
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/02/24 22:22 | ASH | V49219 |
| Benzene | <0.180 | µg/L | 0.180 | 0.500 | 1 | 07/02/24 22:22 | ASH | V49219 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/02/24 22:22 | ASH | V49219 |
| 1,2-Dichloroethane | <0.150 | µg/L | 0.150 | 0.500 | 1 | 07/02/24 22:22 | ASH | V49219 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/02/24 22:22 | ASH | V49219 |
| Ethylbenzene | <0.170 | µg/L | 0.170 | 0.500 | 1 | 07/02/24 22:22 | ASH | V49219 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/02/24 22:22 | ASH | V49219 |
| Methyl tert-butyl ether (MTBE) | <0.140 | µg/L | 0.140 | 0.500 | 1 | 07/02/24 22:22 | ASH | V49219 |
| Naphthalene | <0.470 | µg/L | 0.470 | 1.00 | 1 | 07/02/24 22:22 | ASH | V49219 |
| tert-Butyl Alcohol (TBA) | <1.60 M | µg/L | 1.60 | 10.0 | 1 | 07/02/24 22:22 | ASH | V49219 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/02/24 22:22 | ASH | V49219 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/02/24 22:22 | ASH | V49219 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/02/24 22:22 | ASH | V49219 |
| Toluene | <0.220 | µg/L | 0.220 | 0.500 | 1 | 07/02/24 22:22 | ASH | V49219 |
| o-Xylene | <0.210 | µg/L | 0.210 | 0.500 | 1 | 07/02/24 22:22 | ASH | V49219 |
| m,p-Xylene | <0.420 | µg/L | 0.420 | 1.00 | 1 | 07/02/24 22:22 | ASH | V49219 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Scott Ball
3502 Hayes Road
Monroe , NC 28110

Project Tisdales Quick Stop
Information : GRI #1543

Report Date : 07/16/2024
Received : 06/28/2024

Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96710**
Sample ID : **18686-MW-Field Blank**

Matrix: **Aqueous**
Sampled: **6/27/2024 8:05**

**Analytical Method:** 8260D **Prep Batch(es):** **V49207** 07/02/24 17:45
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| Xylene (Total) | <0.21 | µg/L | 0.210 | 0.500 | 1 | 07/02/24 22:22 | | V49219 |
| Surrogate: 4-Bromofluorobenzene | 99.2 | | Limits: 70-130% | | 1 | 07/02/24 22:22 | ASH | V49219 |
| Surrogate: Dibromofluoromethane | 88.4 | | Limits: 70-130% | | 1 | 07/02/24 22:22 | ASH | V49219 |
| Surrogate: 1,2-Dichloroethane - d4 | 95.6 | | Limits: 70-130% | | 1 | 07/02/24 22:22 | ASH | V49219 |
| Surrogate: Toluene-d8 | 94.4 | | Limits: 70-130% | | 1 | 07/02/24 22:22 | ASH | V49219 |

| **Qualifiers/ Definitions** | | | | |
|---|---|---|---|---|
| | * | Outside QC Limit | DF | Dilution Factor |
| | J | Estimated value | M | Minimum value |
| | MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Project Tisdales Quick Stop
Information : GRI #1543

Report Date : 07/16/2024
Received : 06/28/2024

Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96711**
Sample ID : **18686- WSW-1**

Matrix: **Aqueous**
Sampled: **6/27/2024 15:15**

**Analytical Method:** 8260D **Prep Batch(es):** **V49207** 07/02/24 17:45
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/02/24 22:47 | ASH | V49219 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/02/24 22:47 | ASH | V49219 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/02/24 22:47 | ASH | V49219 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/02/24 22:47 | ASH | V49219 |
| tert-Butyl Alcohol (TBA) | <1.60 M | µg/L | 1.60 | 10.0 | 1 | 07/02/24 22:47 | ASH | V49219 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/02/24 22:47 | ASH | V49219 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/02/24 22:47 | ASH | V49219 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/02/24 22:47 | ASH | V49219 |
| Surrogate: 4-Bromofluorobenzene | 98.4 | | Limits: 70-130% | | 1 | 07/02/24 22:47 | ASH | V49219 |
| Surrogate: Dibromofluoromethane | 89.0 | | Limits: 70-130% | | 1 | 07/02/24 22:47 | ASH | V49219 |
| Surrogate: 1,2-Dichloroethane - d4 | 95.0 | | Limits: 70-130% | | 1 | 07/02/24 22:47 | ASH | V49219 |
| Surrogate: Toluene-d8 | 94.8 | | Limits: 70-130% | | 1 | 07/02/24 22:47 | ASH | V49219 |

**Analytical Method:** EPA-504.1 **Prep Batch(es):** **V49217** 07/03/24 11:00
**Prep Method:** EPA-504.1(PREP)

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00343 | µg/L | 0.00343 | 0.0208 | 1 | 07/03/24 17:39 | NDL | V49303 |

**Qualifiers/ Definitions**

| | | | |
|---|---|---|---|
| * | Outside QC Limit | DF | Dilution Factor |
| J | Estimated value | M | Minimum value |
| MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Project Tisdales Quick Stop
Information : GRI #1543

Report Date : 07/16/2024
Received : 06/28/2024

Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96712**
Sample ID : **18686- WSW-3**

Matrix: **Aqueous**
Sampled: **6/27/2024 14:55**

**Analytical Method:** 8260D **Prep Batch(es):** **V49207** 07/02/24 17:45
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/02/24 23:12 | ASH | V49219 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/02/24 23:12 | ASH | V49219 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/02/24 23:12 | ASH | V49219 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/02/24 23:12 | ASH | V49219 |
| tert-Butyl Alcohol (TBA) | <1.60 M | µg/L | 1.60 | 10.0 | 1 | 07/02/24 23:12 | ASH | V49219 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/02/24 23:12 | ASH | V49219 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/02/24 23:12 | ASH | V49219 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/02/24 23:12 | ASH | V49219 |
| Surrogate: 4-Bromofluorobenzene | 98.8 | | Limits: 70-130% | | 1 | 07/02/24 23:12 | ASH | V49219 |
| Surrogate: Dibromofluoromethane | 89.6 | | Limits: 70-130% | | 1 | 07/02/24 23:12 | ASH | V49219 |
| Surrogate: 1,2-Dichloroethane - d4 | 95.2 | | Limits: 70-130% | | 1 | 07/02/24 23:12 | ASH | V49219 |
| Surrogate: Toluene-d8 | 94.2 | | Limits: 70-130% | | 1 | 07/02/24 23:12 | ASH | V49219 |

**Analytical Method:** EPA-504.1 **Prep Batch(es):** **V49217** 07/03/24 11:00
**Prep Method:** EPA-504.1(PREP)

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00353 | µg/L | 0.00353 | 0.0214 | 1 | 07/03/24 17:57 | NDL | V49303 |

| **Qualifiers/ Definitions** | | | | |
|---|---|---|---|---|
| | * | Outside QC Limit | DF | Dilution Factor |
| | J | Estimated value | M | Minimum value |
| | MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Project Tisdales Quick Stop
Information : GRI #1543

Report Date : 07/16/2024
Received : 06/28/2024

Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96713**
Sample ID : **18686- WSW-DUP C**

Matrix: **Aqueous**
Sampled: **6/27/2024 0:00**

**Analytical Method:** 8260D **Prep Batch(es):** **V49207** 07/02/24 17:45
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/02/24 23:37 | ASH | V49219 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/02/24 23:37 | ASH | V49219 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/02/24 23:37 | ASH | V49219 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/02/24 23:37 | ASH | V49219 |
| tert-Butyl Alcohol (TBA) | <1.60 M | µg/L | 1.60 | 10.0 | 1 | 07/02/24 23:37 | ASH | V49219 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/02/24 23:37 | ASH | V49219 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/02/24 23:37 | ASH | V49219 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/02/24 23:37 | ASH | V49219 |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 70-130% | | 1 | 07/02/24 23:37 | ASH | V49219 |
| Surrogate: Dibromofluoromethane | 89.6 | | Limits: 70-130% | | 1 | 07/02/24 23:37 | ASH | V49219 |
| Surrogate: 1,2-Dichloroethane - d4 | 96.0 | | Limits: 70-130% | | 1 | 07/02/24 23:37 | ASH | V49219 |
| Surrogate: Toluene-d8 | 95.2 | | Limits: 70-130% | | 1 | 07/02/24 23:37 | ASH | V49219 |

**Analytical Method:** EPA-504.1 **Prep Batch(es):** **V49217** 07/03/24 11:00
**Prep Method:** EPA-504.1(PREP)

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00347 | µg/L | 0.00347 | 0.0210 | 1 | 07/03/24 18:15 | NDL | V49303 |

| Qualifiers/ Definitions | | | | |
|---|---|---|---|---|
| | * | Outside QC Limit | DF | Dilution Factor |
| | J | Estimated value | M | Minimum value |
| | MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Project Tisdales Quick Stop
Information : GRI #1543

Report Date : 07/16/2024
Received : 06/28/2024

Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96714**
Sample ID : **18686- WSW-Trip Blank**

Matrix: **Aqueous**
Sampled: **6/27/2024 8:06**

**Analytical Method:** 8260D **Prep Batch(es):** **V49207** 07/02/24 17:45
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/02/24 21:57 | ASH | V49219 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/02/24 21:57 | ASH | V49219 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/02/24 21:57 | ASH | V49219 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/02/24 21:57 | ASH | V49219 |
| tert-Butyl Alcohol (TBA) | <1.60 M | µg/L | 1.60 | 10.0 | 1 | 07/02/24 21:57 | ASH | V49219 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/02/24 21:57 | ASH | V49219 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/02/24 21:57 | ASH | V49219 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/02/24 21:57 | ASH | V49219 |
| Surrogate: 4-Bromofluorobenzene | 100 | | Limits: 70-130% | | 1 | 07/02/24 21:57 | ASH | V49219 |
| Surrogate: Dibromofluoromethane | 88.2 | | Limits: 70-130% | | 1 | 07/02/24 21:57 | ASH | V49219 |
| Surrogate: 1,2-Dichloroethane - d4 | 94.0 | | Limits: 70-130% | | 1 | 07/02/24 21:57 | ASH | V49219 |
| Surrogate: Toluene-d8 | 93.8 | | Limits: 70-130% | | 1 | 07/02/24 21:57 | ASH | V49219 |

| **Qualifiers/ Definitions** | | | | |
|---|---|---|---|---|
| | * | Outside QC Limit | DF | Dilution Factor |
| | J | Estimated value | M | Minimum value |
| | MQL | Method Quantitation Limit | Q | RPD >40% dual column results |

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Project Tisdales Quick Stop
Information : GRI #1543

Report Date : 07/16/2024
Received : 06/28/2024

Report Number : **24-181-0003**

***REPORT OF ANALYSIS***

Lab No : **96715**
Sample ID : **18686- WSW-Field Blank**

Matrix: **Aqueous**
Sampled: **6/27/2024 8:00**

**Analytical Method:** 8260D **Prep Batch(es):** **V49207** 07/02/24 17:45
**Prep Method:** 5030B

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | <1.00 | µg/L | 1.00 | 10.0 | 1 | 07/02/24 20:41 | ASH | V49219 |
| Di-Isopropyl Ether (DIPE) | <0.960 | µg/L | 0.960 | 5.00 | 1 | 07/02/24 20:41 | ASH | V49219 |
| Ethanol | <42.0 | µg/L | 42.0 | 200 | 1 | 07/02/24 20:41 | ASH | V49219 |
| Ethyl Tertiary Butyl Ether (ETBE) | <1.80 | µg/L | 1.80 | 10.0 | 1 | 07/02/24 20:41 | ASH | V49219 |
| tert-Butyl Alcohol (TBA) | <1.60 M | µg/L | 1.60 | 10.0 | 1 | 07/02/24 20:41 | ASH | V49219 |
| tert-Butyl formate (TBF) | <0.350 | µg/L | 0.350 | 10.0 | 1 | 07/02/24 20:41 | ASH | V49219 |
| tert-Amyl Alcohol (TAA) | <1.90 | µg/L | 1.90 | 10.0 | 1 | 07/02/24 20:41 | ASH | V49219 |
| tert-Amyl Methyl Ether (TAME) | <0.280 | µg/L | 0.280 | 10.0 | 1 | 07/02/24 20:41 | ASH | V49219 |
| Surrogate: 4-Bromofluorobenzene | 99.2 | | Limits: 70-130% | | 1 | 07/02/24 20:41 | ASH | V49219 |
| Surrogate: Dibromofluoromethane | 88.2 | | Limits: 70-130% | | 1 | 07/02/24 20:41 | ASH | V49219 |
| Surrogate: 1,2-Dichloroethane - d4 | 95.8 | | Limits: 70-130% | | 1 | 07/02/24 20:41 | ASH | V49219 |
| Surrogate: Toluene-d8 | 95.6 | | Limits: 70-130% | | 1 | 07/02/24 20:41 | ASH | V49219 |

**Analytical Method:** EPA-504.1 **Prep Batch(es):** **V49217** 07/03/24 11:00
**Prep Method:** EPA-504.1(PREP)

| Test | Results | Units | MDL | MQL | DF | Date / Time Analyzed | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | <0.00343 | µg/L | 0.00343 | 0.0208 | 1 | 07/03/24 18:52 | NDL | V49303 |

**Qualifiers/ Definitions** * Outside QC Limit DF Dilution Factor

**Pace Analytical Services, LLC**
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

July 08, 2024

Danyale Love
Waypoint Analytical, LLC
449 Springbrook Rd
Charlotte, NC 28217

RE: Project: 5769 EXP
Pace Project No.: 92739417

Dear Danyale Love:

Enclosed are the analytical results for sample(s) received by the laboratory on July 01, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:
- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sarah Graham
sarah.graham@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jerri Dawson, Waypoint Analytical
Angela Overcash, Waypoint Analytical



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## CERTIFICATIONS

Project: 5769 EXP
Pace Project No.: 92739417

**Pace Analytical Services Charlotte**

South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 5769 EXP
Pace Project No.: 92739417

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **92739417001** | **18686-WSW-1** | Drinking Water | 06/27/24 15:15 | 07/01/24 14:45 |
| **92739417002** | **18686-WSW-3** | Drinking Water | 06/27/24 14:55 | 07/01/24 14:45 |
| **92739417003** | **18686-WSW-DUP-C** | Drinking Water | 06/27/24 00:00 | 07/01/24 14:45 |
| **92739417004** | **18686-WSW-TRIP BLANK** | Drinking Water | 06/27/24 08:06 | 07/01/24 14:45 |
| **92739417005** | **18686-WSW-FIELD BLANK** | Drinking Water | 06/27/24 08:00 | 07/01/24 14:45 |



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## SAMPLE ANALYTE COUNT

Project: 5769 EXP
Pace Project No.: 92739417

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **92739417001** | **18686-WSW-1** | EPA 524.2 | JN | 11 | PASI-C |
| **92739417002** | **18686-WSW-3** | EPA 524.2 | JN | 11 | PASI-C |
| **92739417003** | **18686-WSW-DUP-C** | EPA 524.2 | JN | 11 | PASI-C |
| **92739417004** | **18686-WSW-TRIP BLANK** | EPA 524.2 | JN | 11 | PASI-C |
| **92739417005** | **18686-WSW-FIELD BLANK** | EPA 524.2 | JN | 11 | PASI-C |

PASI-C = Pace Analytical Services - Charlotte

## REPORT OF LABORATORY ANALYSIS

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# ANALYTICAL RESULTS

Project: 5769 EXP
Pace Project No.: 92739417

**Sample: 18686-WSW-1** **Lab ID: 92739417001** Collected: 06/27/24 15:15 Received: 07/01/24 14:45 Matrix: Drinking Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **524.2 MSV SC List** | Analytical Method: EPA 524.2 | | | | | | | | |
| | Pace Analytical Services - Charlotte | | | | | | | | |
| Benzene | ND | mg/L | 0.00050 | 0.00021 | 1 | | 07/04/24 05:48 | 71-43-2 | |
| 1,2-Dichloroethane | ND | mg/L | 0.00050 | 0.00016 | 1 | | 07/04/24 05:48 | 107-06-2 | |
| Ethylbenzene | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/04/24 05:48 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | mg/L | 0.00050 | 0.00014 | 1 | | 07/04/24 05:48 | 1634-04-4 | |
| Naphthalene | ND | mg/L | 0.00050 | 0.00035 | 1 | | 07/04/24 05:48 | 91-20-3 | |
| Toluene | ND | mg/L | 0.00050 | 0.00020 | 1 | | 07/04/24 05:48 | 108-88-3 | |
| Xylene (Total) | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/04/24 05:48 | 1330-20-7 | |
| m&p-Xylene | ND | mg/L | 0.0010 | 0.00039 | 1 | | 07/04/24 05:48 | 179601-23-1 | |
| o-Xylene | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/04/24 05:48 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 97 | % | 70-130 | | 1 | | 07/04/24 05:48 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | | 1 | | 07/04/24 05:48 | 460-00-4 | |

**Sample: 18686-WSW-3** **Lab ID: 92739417002** Collected: 06/27/24 14:55 Received: 07/01/24 14:45 Matrix: Drinking Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **524.2 MSV SC List** | Analytical Method: EPA 524.2 | | | | | | | | |
| | Pace Analytical Services - Charlotte | | | | | | | | |
| Benzene | ND | mg/L | 0.00050 | 0.00021 | 1 | | 07/04/24 06:14 | 71-43-2 | |
| 1,2-Dichloroethane | ND | mg/L | 0.00050 | 0.00016 | 1 | | 07/04/24 06:14 | 107-06-2 | |
| Ethylbenzene | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/04/24 06:14 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | mg/L | 0.00050 | 0.00014 | 1 | | 07/04/24 06:14 | 1634-04-4 | |
| Naphthalene | ND | mg/L | 0.00050 | 0.00035 | 1 | | 07/04/24 06:14 | 91-20-3 | |
| Toluene | ND | mg/L | 0.00050 | 0.00020 | 1 | | 07/04/24 06:14 | 108-88-3 | |
| Xylene (Total) | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/04/24 06:14 | 1330-20-7 | |
| m&p-Xylene | ND | mg/L | 0.0010 | 0.00039 | 1 | | 07/04/24 06:14 | 179601-23-1 | |
| o-Xylene | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/04/24 06:14 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 95 | % | 70-130 | | 1 | | 07/04/24 06:14 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 90 | % | 70-130 | | 1 | | 07/04/24 06:14 | 460-00-4 | |

**Sample: 18686-WSW-DUP-C** **Lab ID: 92739417003** Collected: 06/27/24 00:00 Received: 07/01/24 14:45 Matrix: Drinking Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **524.2 MSV SC List** | Analytical Method: EPA 524.2 | | | | | | | | |
| | Pace Analytical Services - Charlotte | | | | | | | | |
| Benzene | ND | mg/L | 0.00050 | 0.00021 | 1 | | 07/04/24 06:40 | 71-43-2 | |
| 1,2-Dichloroethane | ND | mg/L | 0.00050 | 0.00016 | 1 | | 07/04/24 06:40 | 107-06-2 | |
| Ethylbenzene | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/04/24 06:40 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | mg/L | 0.00050 | 0.00014 | 1 | | 07/04/24 06:40 | 1634-04-4 | |

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## ANALYTICAL RESULTS

Project: 5769 EXP
Pace Project No.: 92739417

**Sample: 18686-WSW-DUP-C** **Lab ID: 92739417003** Collected: 06/27/24 00:00 Received: 07/01/24 14:45 Matrix: Drinking Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **524.2 MSV SC List** | Analytical Method: EPA 524.2<br>Pace Analytical Services - Charlotte | | | | | | | | |
| Naphthalene | ND | mg/L | 0.00050 | 0.00035 | 1 | | 07/04/24 06:40 | 91-20-3 | |
| Toluene | ND | mg/L | 0.00050 | 0.00020 | 1 | | 07/04/24 06:40 | 108-88-3 | |
| Xylene (Total) | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/04/24 06:40 | 1330-20-7 | |
| m&p-Xylene | ND | mg/L | 0.0010 | 0.00039 | 1 | | 07/04/24 06:40 | 179601-23-1 | |
| o-Xylene | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/04/24 06:40 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 96 | % | 70-130 | | 1 | | 07/04/24 06:40 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 93 | % | 70-130 | | 1 | | 07/04/24 06:40 | 460-00-4 | |

**Sample: 18686-WSW-TRIP BLANK** **Lab ID: 92739417004** Collected: 06/27/24 08:06 Received: 07/01/24 14:45 Matrix: Drinking Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **524.2 MSV SC List** | Analytical Method: EPA 524.2<br>Pace Analytical Services - Charlotte | | | | | | | | |
| Benzene | ND | mg/L | 0.00050 | 0.00021 | 1 | | 07/05/24 15:01 | 71-43-2 | |
| 1,2-Dichloroethane | ND | mg/L | 0.00050 | 0.00016 | 1 | | 07/05/24 15:01 | 107-06-2 | |
| Ethylbenzene | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/05/24 15:01 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | mg/L | 0.00050 | 0.00014 | 1 | | 07/05/24 15:01 | 1634-04-4 | |
| Naphthalene | ND | mg/L | 0.00050 | 0.00035 | 1 | | 07/05/24 15:01 | 91-20-3 | |
| Toluene | ND | mg/L | 0.00050 | 0.00020 | 1 | | 07/05/24 15:01 | 108-88-3 | |
| Xylene (Total) | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/05/24 15:01 | 1330-20-7 | |
| m&p-Xylene | ND | mg/L | 0.0010 | 0.00039 | 1 | | 07/05/24 15:01 | 179601-23-1 | |
| o-Xylene | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/05/24 15:01 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 95 | % | 70-130 | | 1 | | 07/05/24 15:01 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | | 1 | | 07/05/24 15:01 | 460-00-4 | |

**Sample: 18686-WSW-FIELD BLANK** **Lab ID: 92739417005** Collected: 06/27/24 08:00 Received: 07/01/24 14:45 Matrix: Drinking Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **524.2 MSV SC List** | Analytical Method: EPA 524.2<br>Pace Analytical Services - Charlotte | | | | | | | | |
| Benzene | ND | mg/L | 0.00050 | 0.00021 | 1 | | 07/05/24 15:27 | 71-43-2 | |
| 1,2-Dichloroethane | ND | mg/L | 0.00050 | 0.00016 | 1 | | 07/05/24 15:27 | 107-06-2 | |
| Ethylbenzene | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/05/24 15:27 | 100-41-4 | |
| Methyl-tert-butyl ether | ND | mg/L | 0.00050 | 0.00014 | 1 | | 07/05/24 15:27 | 1634-04-4 | |
| Naphthalene | ND | mg/L | 0.00050 | 0.00035 | 1 | | 07/05/24 15:27 | 91-20-3 | |
| Toluene | ND | mg/L | 0.00050 | 0.00020 | 1 | | 07/05/24 15:27 | 108-88-3 | |
| Xylene (Total) | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/05/24 15:27 | 1330-20-7 | |
| m&p-Xylene | ND | mg/L | 0.0010 | 0.00039 | 1 | | 07/05/24 15:27 | 179601-23-1 | |

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## ANALYTICAL RESULTS

Project: 5769 EXP
Pace Project No.: 92739417

**Sample: 18686-WSW-FIELD BLANK** **Lab ID: 92739417005** Collected: 06/27/24 08:00 Received: 07/01/24 14:45 Matrix: Drinking Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **524.2 MSV SC List** | Analytical Method: EPA 524.2<br>Pace Analytical Services - Charlotte | | | | | | | | |
| o-Xylene | ND | mg/L | 0.00050 | 0.00022 | 1 | | 07/05/24 15:27 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 95 | % | 70-130 | | 1 | | 07/05/24 15:27 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 92 | % | 70-130 | | 1 | | 07/05/24 15:27 | 460-00-4 | |

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## QUALITY CONTROL DATA

Project: 5769 EXP
Pace Project No.: 92739417

QC Batch: 866055
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92739417001, 92739417002, 92739417003

METHOD BLANK: 4464625 Matrix: Water
Associated Lab Samples: 92739417001, 92739417002, 92739417003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | mg/L | ND | 0.00050 | 0.00016 | 07/04/24 00:08 | |
| Benzene | mg/L | ND | 0.00050 | 0.00021 | 07/04/24 00:08 | |
| Ethylbenzene | mg/L | ND | 0.00050 | 0.00022 | 07/04/24 00:08 | |
| m&p-Xylene | mg/L | ND | 0.0010 | 0.00039 | 07/04/24 00:08 | |
| Methyl-tert-butyl ether | mg/L | ND | 0.00050 | 0.00014 | 07/04/24 00:08 | |
| Naphthalene | mg/L | ND | 0.00050 | 0.00035 | 07/04/24 00:08 | |
| o-Xylene | mg/L | ND | 0.00050 | 0.00022 | 07/04/24 00:08 | |
| Toluene | mg/L | ND | 0.00050 | 0.00020 | 07/04/24 00:08 | |
| Xylene (Total) | mg/L | ND | 0.00050 | 0.00022 | 07/04/24 00:08 | |
| 1,2-Dichlorobenzene-d4 (S) | % | 105 | 70-130 | | 07/04/24 00:08 | |
| 4-Bromofluorobenzene (S) | % | 99 | 70-130 | | 07/04/24 00:08 | |

LABORATORY CONTROL SAMPLE: 4464626

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | mg/L | 0.02 | 0.021 | 104 | 70-130 | |
| Benzene | mg/L | 0.02 | 0.019 | 97 | 70-130 | |
| Ethylbenzene | mg/L | 0.02 | 0.021 | 103 | 70-130 | |
| m&p-Xylene | mg/L | 0.04 | 0.041 | 103 | 70-130 | |
| Methyl-tert-butyl ether | mg/L | 0.02 | 0.020 | 101 | 70-130 | |
| Naphthalene | mg/L | 0.02 | 0.021 | 105 | 70-130 | |
| o-Xylene | mg/L | 0.02 | 0.021 | 105 | 70-130 | |
| Toluene | mg/L | 0.02 | 0.019 | 97 | 70-130 | |
| Xylene (Total) | mg/L | 0.06 | 0.062 | 103 | | |
| 1,2-Dichlorobenzene-d4 (S) | % | | | 108 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 107 | 70-130 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

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## QUALITY CONTROL DATA

Project: 5769 EXP
Pace Project No.: 92739417

QC Batch: 866290
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92739417004, 92739417005

METHOD BLANK: 4465773 Matrix: Water
Associated Lab Samples: 92739417004, 92739417005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | mg/L | ND | 0.00050 | 0.00016 | 07/05/24 13:42 | |
| Benzene | mg/L | ND | 0.00050 | 0.00021 | 07/05/24 13:42 | |
| Ethylbenzene | mg/L | ND | 0.00050 | 0.00022 | 07/05/24 13:42 | |
| m&p-Xylene | mg/L | ND | 0.0010 | 0.00039 | 07/05/24 13:42 | |
| Methyl-tert-butyl ether | mg/L | ND | 0.00050 | 0.00014 | 07/05/24 13:42 | |
| Naphthalene | mg/L | ND | 0.00050 | 0.00035 | 07/05/24 13:42 | |
| o-Xylene | mg/L | ND | 0.00050 | 0.00022 | 07/05/24 13:42 | |
| Toluene | mg/L | ND | 0.00050 | 0.00020 | 07/05/24 13:42 | |
| Xylene (Total) | mg/L | ND | 0.00050 | 0.00022 | 07/05/24 13:42 | |
| 1,2-Dichlorobenzene-d4 (S) | % | 99 | 70-130 | | 07/05/24 13:42 | |
| 4-Bromofluorobenzene (S) | % | 94 | 70-130 | | 07/05/24 13:42 | |

LABORATORY CONTROL SAMPLE: 4465774

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | mg/L | 0.02 | 0.021 | 106 | 70-130 | |
| Benzene | mg/L | 0.02 | 0.021 | 104 | 70-130 | |
| Ethylbenzene | mg/L | 0.02 | 0.021 | 103 | 70-130 | |
| m&p-Xylene | mg/L | 0.04 | 0.042 | 105 | 70-130 | |
| Methyl-tert-butyl ether | mg/L | 0.02 | 0.020 | 99 | 70-130 | |
| Naphthalene | mg/L | 0.02 | 0.021 | 105 | 70-130 | |
| o-Xylene | mg/L | 0.02 | 0.021 | 106 | 70-130 | |
| Toluene | mg/L | 0.02 | 0.020 | 99 | 70-130 | |
| Xylene (Total) | mg/L | 0.06 | 0.063 | 105 | | |
| 1,2-Dichlorobenzene-d4 (S) | % | | | 107 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 106 | 70-130 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

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# QUALIFIERS

Project: 5769 EXP
Pace Project No.: 92739417

**DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5769 EXP
Pace Project No.: 92739417

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **92739417001** | **18686-WSW-1** | EPA 524.2 | 866055 | | |
| **92739417002** | **18686-WSW-3** | EPA 524.2 | 866055 | | |
| **92739417003** | **18686-WSW-DUP-C** | EPA 524.2 | 866055 | | |
| **92739417004** | **18686-WSW-TRIP BLANK** | EPA 524.2 | 866290 | | |
| **92739417005** | **18686-WSW-FIELD BLANK** | EPA 524.2 | 866290 | | |



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**Laboratory receiving samples:**

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

**Sample Condition Upon Receipt**

Client Name: Waypoint Analytical

Project #: **WO#: 92739417**

92739417

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: GMH 7/1/24

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 97078

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.1 Correction Factor: Add/Subtract (°C) 0

Cooler Temp Corrected (°C): 4.1

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil ( ☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

| | | | | Comments/Discrepancy: |
|---|---|---|---|---|
| Chain of Custody Present? | ☑ Yes | ☐ No | ☐ N/A | 1. |
| Samples Arrived within Hold Time? | ☑ Yes | ☐ No | ☐ N/A | 2. |
| **Short Hold Time Analysis (<72 hr.)?** | ☐ Yes | ☑ No | ☐ N/A | 3. |
| **Rush Turn Around Time Requested?** | ☐ Yes | ☑ No | ☐ N/A | 4. |
| Sufficient Volume? | ☑ Yes | ☐ No | ☐ N/A | 5. |
| Correct Containers Used? | ☑ Yes | ☐ No | ☐ N/A | 6. |
| -Pace Containers Used? | ☑ Yes | ☐ No | ☐ N/A | |
| Containers Intact? | ☑ Yes | ☐ No | ☐ N/A | 7. |
| Dissolved analysis: Samples Field Filtered? | ☐ Yes | ☐ No | ☑ N/A | 8. |
| Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT | ☑ Yes | ☐ No | ☐ N/A | 9. |
| Headspace in VOA Vials (>5-6mm)? | ☐ Yes | ☑ No | ☐ N/A | 10. |
| Trip Blank Present? | ☐ Yes | ☐ No | ☐ N/A | 11. |
| Trip Blank Custody Seals Present? | ☐ Yes | ☑ No | ☐ N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project # WO#: 92739417

PM: SMG Due Date: 07/10/24

CLIENT: 92-Prism

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Me...

Client_____ Profile/EZ (Circle one)_____ Notes_____

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG9A-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | VG9T | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

## pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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9273917



07/01/2024 14:11:27

**Export Batch Report**

**Export Batch Id : 5769EXP**

**Created:** 7/1/2024 14:10:59
Computer: WPALMS-117
User: Danyale Love
Project Manager: Danyale Love

**To:** Pace Analytical - Huntersville, NC
9800 Kincey Ave / Suite 100
Huntersville, NC 28078
704-875-9092

**From:** Waypoint Analytical, LLC (Charlotte)
449 Springbrook Road
Charlotte, NC 28217
704-529-6364

| Report No | Due Date | Sample Date | Customer Sample No | Rush | Matrix | Lab No | Method No | Fee Code Description | |
|---|---|---|---|---|---|---|---|---|---|
| 24-181-0003 | 07/09/2024 | 06/27/2024 15:15 | 18686- WSW-1 | | AQU | 96711 | EPA-524.2 (EXP) | 524.2 BTEX/MTBE/Naphthalene/1,2-DCA (Sub to Pace) | 001 |
| 24-181-0003 | 07/09/2024 | 06/27/2024 14:55 | 18686- WSW-3 | | AQU | 96712 | EPA-524.2 (EXP) | 524.2 BTEX/MTBE/Naphthalene/1,2-DCA (Sub to Pace) | 002 |
| 24-181-0003 | 07/09/2024 | 06/27/2024 | 18686- WSW-DUP C | | AQU | 96713 | EPA-524.2 (EXP) | 524.2 BTEX/MTBE/Naphthalene/1,2-DCA (Sub to Pace) | 003 |
| 24-181-0003 | 07/09/2024 | 06/27/2024 08:06 | 18686- WSW-Trip Blank | | AQU | 96714 | EPA-524.2 (EXP) | 524.2 BTEX/MTBE/Naphthalene/1,2-DCA (Sub to Pace) | 004 |
| 24-181-0003 | 07/09/2024 | 06/27/2024 08:00 | 18686- WSW-Field Blank | | AQU | 96715 | EPA-524.2 (EXP) | 524.2 BTEX/MTBE/Naphthalene/1,2-DCA (Sub to Pace) | 005 |

| Sampled By | Method of Shipment | Blank / Cooler Temp. | |
|---|---|---|---|
| Remarks | | | |
| Relinquished By (sign) | Date / Time: 7.1.24 14:45 | Received By (sign): Pace Hvl | Date / Time: 7/1/24 1445 |
| Relinquished By (sign) | Date / Time | Received By (sign) | Date / Time |

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# Quality Control Data

**Client ID:** Geological Resources, Inc.
**Project Description:** Tisdales Quick Stop
**Report No:** 24-181-0003

**QC Prep:** V49268
**QC Prep Batch Method:** 8011
**QC Analytical Batch(es):** V49316
**Analysis Method:** 8011
**Analysis Description:** EDB and DBCP by Microextraction GC/ECD

**Lab Reagent Blank** LRB-V49268 Matrix: AQU
Associated Lab Samples: 96703, 96704, 96705, 96706, 96707, 96710

| Parameter | Units | Blank Result | MDL | MQL | Analyzed | % Recovery | % Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | µg/L | <0.00711 | 0.00711 | 0.0203 | 07/05/24 19:22 | | |
| 4-Bromofluorobenzene (S) | | | | | 07/05/24 19:22 | 73.1 | 70-130 |

**Laboratory Control Sample & LCSD** LCS-V49268 LCSD-V49268

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS %Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | µg/L | 0.251 | 0.248 | 0.257 | 98.8 | 101 | 60-140 | 3.5 | 20.0 |
| 4-Bromofluorobenzene (S) | | | | | 71.5 | 71.0 | 70-130 | | |

**Duplicate** V 96710-DUP-V49268

| Parameter | Units | Result | DUP Result | RPD | Max RPD | Analyzed |
|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | µg/L | < 0.0207 | <0.0207 | 1.4 | 20.0 | 07/05/24 22:24 |
| 4-Bromofluorobenzene (S) | µg/L | 3.55 | | 68.7* | | 07/05/24 22:24 |

**Matrix Spike** V 96707-MS-V49268

| Parameter | Units | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS %Rec | %Rec Limits | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | µg/L | < 0.00739 | 0.263 | | 0.216 | | 82.1 | 60-140 | |
| 4-Bromofluorobenzene (S) | | | | | | | 55.0* | 70-130 | |

* QC Fail

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# Quality Control Data

**Client ID:** Geological Resources, Inc.
**Project Description:** Tisdales Quick Stop
**Report No:** 24-181-0003

**QC Prep:** V49269
**QC Prep Batch Method:** 8011
**QC Analytical Batch(es):** V49373
**Analysis Method:** 8011
**Analysis Description:** EDB and DBCP by Microextraction GC/ECD

**Lab Reagent Blank** LRB-V49269 Matrix: AQU

Associated Lab Samples: 96688, 96689, 96690, 96691, 96692, 96693, 96694, 96695, 96696, 96697, 96698, 96699, 96700, 96701, 96702

| Parameter | Units | Blank Result | MDL | MQL | Analyzed | % Recovery | % Rec Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | µg/L | <0.00704 | 0.00704 | 0.0201 | 07/08/24 15:36 | | |
| 4-Bromofluorobenzene (S) | | | | | 07/08/24 15:36 | 78.7 | 70-130 |

**Laboratory Control Sample & LCSD** LCS-V49269 LCSD-V49269

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS %Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | µg/L | 0.251 | 0.268 | 0.271 | 107 | 108 | 60-140 | 1.1 | 20.0 |
| 4-Bromofluorobenzene (S) | | | | | 84.4 | 83.8 | 70-130 | | |

**Duplicate** V 96691-DUP-V49269

| Parameter | Units | Result | DUP Result | RPD | Max RPD | Analyzed |
|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | µg/L | 0.0461 | 0.0319 | 36.4* | 20.0 | 07/08/24 21:17 |
| 4-Bromofluorobenzene (S) | µg/L | 3.45 | | 64.8* | | 07/08/24 21:17 |

* QC Fail

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# Quality Control Data

**Client ID:** Geological Resources, Inc.
**Project Description:** Tisdales Quick Stop
**Report No:** 24-181-0003

**QC Prep:** V49217
**QC Prep Batch Method:** EPA-504.1(PREP)
**QC Analytical Batch(es):** V49303
**Analysis Method:** EPA-504.1
**Analysis Description:** EDB and DBCP by Microextraction GC/ECD

**Lab Reagent Blank** LRB-V49217 Matrix: AQU
Associated Lab Samples: 96711, 96712, 96713, 96715

| Parameter | Units | Blank Result | MDL | MQL | Analyzed |
|---|---|---|---|---|---|
| 1,2-Dibromoethane | µg/L | <0.00333 | 0.00333 | 0.0202 | 07/03/24 14:13 |

**Laboratory Control Sample & LCSD** LCS-V49217 LCSD-V49217

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS %Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | µg/L | 0.254 | 0.225 | 0.245 | 88.5 | 96.0 | 70-130 | 8.5 | 20.0 |

**Duplicate** V 96715-DUP-V49217

| Parameter | Units | Result | DUP Result | RPD | Max RPD | Analyzed |
|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | µg/L | < 0.0212 | <0.0212 | 1.9 | 20.0 | 07/03/24 19:10 |

**Matrix Spike** V 96713-MS-V49217

| Parameter | Units | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS %Rec | %Rec Limits | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | µg/L | < 0.00345 | 0.262 | | 0.162 | | 61.8* | 70-130 | |

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# Quality Control Data

**Client ID:** Geological Resources, Inc.
**Project Description:** Tisdales Quick Stop
**Report No:** 24-181-0003

**QC Prep:** V49159
**QC Prep Batch Method:** 5030B
**QC Analytical Batch(es):** V49168
**Analysis Method:** 8260D
**Analysis Description:** Volatile Organic Compounds - GC/MS

**Lab Reagent Blank** LRB-V49159 Matrix: AQU

Associated Lab Samples: 96688, 96689, 96690, 96691, 96692, 96693, 96694, 96695, 96696, 96697, 96698, 96699, 96700, 96701, 96702, 96703, 96704, 96705, 96706, 96707

| Parameter | Units | Blank Result | MDL | MQL | Analyzed | % Recovery | % Rec Limits |
|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | µg/L | <1.00 | 1.00 | 10.0 | 07/01/24 21:00 | | |
| Benzene | µg/L | <0.180 | 0.180 | 0.500 | 07/01/24 21:00 | | |
| Di-Isopropyl Ether (DIPE) | µg/L | <0.960 | 0.960 | 5.00 | 07/01/24 21:00 | | |
| 1,2-Dichloroethane | µg/L | <0.150 | 0.150 | 0.500 | 07/01/24 21:00 | | |
| Ethanol | µg/L | <42.0 | 42.0 | 200 | 07/01/24 21:00 | | |
| Ethylbenzene | µg/L | <0.170 | 0.170 | 0.500 | 07/01/24 21:00 | | |
| Ethyl Tertiary Butyl Ether (ETBE) | µg/L | <1.80 | 1.80 | 10.0 | 07/01/24 21:00 | | |
| Methyl tert-butyl ether (MTBE) | µg/L | <0.140 | 0.140 | 0.500 | 07/01/24 21:00 | | |
| Naphthalene | µg/L | <0.470 | 0.470 | 1.00 | 07/01/24 21:00 | | |
| tert-Butyl Alcohol (TBA) | µg/L | <1.60 | 1.60 | 10.0 | 07/01/24 21:00 | | |
| tert-Butyl formate (TBF) | µg/L | <0.350 | 0.350 | 10.0 | 07/01/24 21:00 | | |
| tert-Amyl Alcohol (TAA) | µg/L | <1.90 | 1.90 | 10.0 | 07/01/24 21:00 | | |
| tert-Amyl Methyl Ether (TAME) | µg/L | <0.280 | 0.280 | 10.0 | 07/01/24 21:00 | | |
| Toluene | µg/L | <0.220 | 0.220 | 0.500 | 07/01/24 21:00 | | |
| o-Xylene | µg/L | <0.210 | 0.210 | 0.500 | 07/01/24 21:00 | | |
| m,p-Xylene | µg/L | <0.420 | 0.420 | 1.00 | 07/01/24 21:00 | | |
| 4-Bromofluorobenzene (S) | | | | | 07/01/24 21:00 | 98.2 | 70-130 |
| Dibromofluoromethane (S) | | | | | 07/01/24 21:00 | 88.2 | 70-130 |
| 1,2-Dichloroethane - d4 (S) | | | | | 07/01/24 21:00 | 95.4 | 70-130 |
| Toluene-d8 (S) | | | | | 07/01/24 21:00 | 93.8 | 70-130 |

**Laboratory Control Sample & LCSD** LCS-V49159 LCSD-V49159

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS %Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | µg/L | 20.0 | 18.6 | 14.8 | 93.0 | 74.0 | 70-130 | 22.7* | 20.0 |
| Benzene | µg/L | 20.0 | 18.1 | 17.7 | 90.5 | 88.5 | 77-128 | 2.2 | 20.0 |

* QC Fail

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# Quality Control Data

**Client ID:** Geological Resources, Inc.
**Project Description:** Tisdales Quick Stop
**Report No:** 24-181-0003

**QC Prep:** V49159
**QC Prep Batch Method:** 5030B
**QC Analytical Batch(es):** V49168
**Analysis Method:** 8260D
**Analysis Description:** Volatile Organic Compounds - GC/MS

**Laboratory Control Sample & LCSD** LCS-V49159 LCSD-V49159

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS %Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| Di-Isopropyl Ether (DIPE) | µg/L | 20.0 | 18.4 | 18.7 | 92.0 | 93.5 | 60-154 | 1.6 | 20.0 |
| 1,2-Dichloroethane | µg/L | 20.0 | 17.2 | 17.7 | 86.0 | 88.5 | 68-131 | 2.8 | 20.0 |
| Ethanol | µg/L | 500 | 508 | 536 | 102 | 107 | 70-130 | 5.3 | 20.0 |
| Ethylbenzene | µg/L | 20.0 | 16.8 | 16.6 | 84.0 | 83.0 | 80-127 | 1.1 | 20.0 |
| Ethyl Tertiary Butyl Ether (ETBE) | µg/L | 40.0 | 35.5 | 36.3 | 88.7 | 90.7 | 70-130 | 2.2 | 20.0 |
| Methyl tert-butyl ether (MTBE) | µg/L | 20.0 | 16.8 | 17.5 | 84.0 | 87.5 | 68-135 | 4.0 | 20.0 |
| Naphthalene | µg/L | 20.0 | 15.8 | 16.1 | 79.0 | 80.5 | 64-136 | 1.8 | 20.0 |
| tert-Butyl Alcohol (TBA) | µg/L | 40.0 | 31.6 | 35.1 | 79.0 | 87.7 | 60-140 | 10.4 | 20.0 |
| tert-Butyl formate (TBF) | µg/L | 40.0 | 37.7 | 36.7 | 94.2 | 91.7 | 60-140 | 2.6 | 20.0 |
| tert-Amyl Alcohol (TAA) | µg/L | 20.0 | 17.1 | 17.6 | 85.5 | 88.0 | 60-140 | 2.8 | 20.0 |
| tert-Amyl Methyl Ether (TAME) | µg/L | 40.0 | 35.8 | 35.2 | 89.5 | 88.0 | 60-140 | 1.6 | 20.0 |
| Toluene | µg/L | 20.0 | 17.0 | 16.8 | 85.0 | 84.0 | 76-131 | 1.1 | 20.0 |
| o-Xylene | µg/L | 20.0 | 16.8 | 16.8 | 84.0 | 84.0 | 78-128 | 0.0 | 20.0 |
| m,p-Xylene | µg/L | 40.0 | 34.8 | 34.6 | 87.0 | 86.5 | 77-133 | 0.5 | 20.0 |
| 4-Bromofluorobenzene (S) | | | | | 97.8 | 98.2 | 70-130 | | |
| Dibromofluoromethane (S) | | | | | 88.2 | 88.6 | 70-130 | | |
| 1,2-Dichloroethane - d4 (S) | | | | | 93.0 | 94.0 | 70-130 | | |
| Toluene-d8 (S) | | | | | 95.8 | 96.2 | 70-130 | | |

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# Quality Control Data

**Client ID:** Geological Resources, Inc.
**Project Description:** Tisdales Quick Stop
**Report No:** 24-181-0003

**QC Prep:** V49207
**QC Prep Batch Method:** 5030B
**QC Analytical Batch(es):** V49219
**Analysis Method:** 8260D
**Analysis Description:** Volatile Organic Compounds - GC/MS

**Lab Reagent Blank** LRB-V49207 Matrix: AQU
Associated Lab Samples: 96709, 96710, 96711, 96712, 96713, 96714, 96715

| Parameter | Units | Blank Result | MDL | MQL | Analyzed | % Recovery | % Rec Limits |
|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | µg/L | <1.00 | 1.00 | 10.0 | 07/02/24 20:16 | | |
| Benzene | µg/L | <0.180 | 0.180 | 0.500 | 07/02/24 20:16 | | |
| Di-Isopropyl Ether (DIPE) | µg/L | <0.960 | 0.960 | 5.00 | 07/02/24 20:16 | | |
| 1,2-Dichloroethane | µg/L | <0.150 | 0.150 | 0.500 | 07/02/24 20:16 | | |
| Ethanol | µg/L | <42.0 | 42.0 | 200 | 07/02/24 20:16 | | |
| Ethylbenzene | µg/L | <0.170 | 0.170 | 0.500 | 07/02/24 20:16 | | |
| Ethyl Tertiary Butyl Ether (ETBE) | µg/L | <1.80 | 1.80 | 10.0 | 07/02/24 20:16 | | |
| Methyl tert-butyl ether (MTBE) | µg/L | <0.140 | 0.140 | 0.500 | 07/02/24 20:16 | | |
| Naphthalene | µg/L | <0.470 | 0.470 | 1.00 | 07/02/24 20:16 | | |
| tert-Butyl Alcohol (TBA) | µg/L | <1.60 | 1.60 | 10.0 | 07/02/24 20:16 | | |
| tert-Butyl formate (TBF) | µg/L | <0.350 | 0.350 | 10.0 | 07/02/24 20:16 | | |
| tert-Amyl Alcohol (TAA) | µg/L | <1.90 | 1.90 | 10.0 | 07/02/24 20:16 | | |
| tert-Amyl Methyl Ether (TAME) | µg/L | <0.280 | 0.280 | 10.0 | 07/02/24 20:16 | | |
| Toluene | µg/L | <0.220 | 0.220 | 0.500 | 07/02/24 20:16 | | |
| o-Xylene | µg/L | <0.210 | 0.210 | 0.500 | 07/02/24 20:16 | | |
| m,p-Xylene | µg/L | <0.420 | 0.420 | 1.00 | 07/02/24 20:16 | | |
| 4-Bromofluorobenzene (S) | | | | | 07/02/24 20:16 | 99.4 | 70-130 |
| Dibromofluoromethane (S) | | | | | 07/02/24 20:16 | 88.4 | 70-130 |
| 1,2-Dichloroethane - d4 (S) | | | | | 07/02/24 20:16 | 94.8 | 70-130 |
| Toluene-d8 (S) | | | | | 07/02/24 20:16 | 95.6 | 70-130 |

**Laboratory Control Sample & LCSD** LCS-V49207 LCSD-V49207

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS %Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| 3,3-Dimethyl-1-butanol | µg/L | 20.0 | 16.0 | 16.1 | 80.0 | 80.5 | 70-130 | 0.6 | 20.0 |
| Benzene | µg/L | 20.0 | 17.0 | 16.8 | 85.0 | 84.0 | 77-128 | 1.1 | 20.0 |

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# Quality Control Data

**Client ID:** **Geological Resources, Inc.**
**Project Description:** **Tisdales Quick Stop**
**Report No:** **24-181-0003**

**QC Prep:** V49207
**QC Prep Batch Method:** 5030B
**QC Analytical Batch(es):** V49219
**Analysis Method:** 8260D
**Analysis Description:** Volatile Organic Compounds - GC/MS

**Laboratory Control Sample & LCSD** LCS-V49207 LCSD-V49207

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS %Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| Di-Isopropyl Ether (DIPE) | µg/L | 20.0 | 17.9 | 17.8 | 89.5 | 89.0 | 60-154 | 0.5 | 20.0 |
| 1,2-Dichloroethane | µg/L | 20.0 | 17.1 | 16.6 | 85.5 | 83.0 | 68-131 | 2.9 | 20.0 |
| Ethanol | µg/L | 500 | 459 | 529 | 91.8 | 106 | 70-130 | 14.1 | 20.0 |
| Ethylbenzene | µg/L | 20.0 | 16.4 | 15.8 | 82.0 | 79.0* | 80-127 | 3.7 | 20.0 |
| Ethyl Tertiary Butyl Ether (ETBE) | µg/L | 40.0 | 35.1 | 35.5 | 87.7 | 88.7 | 70-130 | 1.1 | 20.0 |
| Methyl tert-butyl ether (MTBE) | µg/L | 20.0 | 16.8 | 16.3 | 84.0 | 81.5 | 68-135 | 3.0 | 20.0 |
| Naphthalene | µg/L | 20.0 | 15.3 | 15.3 | 76.5 | 76.5 | 64-136 | 0.0 | 20.0 |
| tert-Butyl Alcohol (TBA) | µg/L | 40.0 | 33.5 | 34.3 | 83.7 | 85.7 | 60-140 | 2.3 | 20.0 |
| tert-Butyl formate (TBF) | µg/L | 40.0 | 33.8 | 32.9 | 84.5 | 82.2 | 60-140 | 2.6 | 20.0 |
| tert-Amyl Alcohol (TAA) | µg/L | 20.0 | 16.7 | 16.5 | 83.5 | 82.5 | 60-140 | 1.2 | 20.0 |
| tert-Amyl Methyl Ether (TAME) | µg/L | 40.0 | 34.7 | 34.9 | 86.7 | 87.2 | 60-140 | 0.5 | 20.0 |
| Toluene | µg/L | 20.0 | 16.5 | 16.2 | 82.5 | 81.0 | 76-131 | 1.8 | 20.0 |
| o-Xylene | µg/L | 20.0 | 16.2 | 15.5 | 81.0 | 77.5* | 78-128 | 4.4 | 20.0 |
| m,p-Xylene | µg/L | 40.0 | 33.5 | 32.9 | 83.7 | 82.2 | 77-133 | 1.8 | 20.0 |
| 4-Bromofluorobenzene (S) | | | | | 98.2 | 99.8 | 70-130 | | |
| Dibromofluoromethane (S) | | | | | 87.8 | 87.2 | 70-130 | | |
| 1,2-Dichloroethane - d4 (S) | | | | | 92.8 | 95.0 | 70-130 | | |
| Toluene-d8 (S) | | | | | 95.2 | 94.0 | 70-130 | | |

* QC Fail

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# Quality Control Data

**Client ID:** **Geological Resources, Inc.**
**Project Description:** **Tisdales Quick Stop**
**Report No:** **24-181-0003**

**QC Prep:** V49518
**QC Prep Batch Method:** 5030B
**QC Analytical Batch(es):** V49560
**Analysis Method:** 8260D
**Analysis Description:** Volatile Organic Compounds - GC/MS

**Lab Reagent Blank** LRB-V49518 Matrix: AQU
Associated Lab Samples: 96698

| Parameter | Units | Blank Result | MDL | MQL | Analyzed | % Recovery | % Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | µg/L | <0.180 | 0.180 | 0.500 | 07/13/24 13:36 | | |
| 4-Bromofluorobenzene (S) | | | | | 07/13/24 13:36 | 103 | 70-130 |
| Dibromofluoromethane (S) | | | | | 07/13/24 13:36 | 99.4 | 70-130 |
| 1,2-Dichloroethane - d4 (S) | | | | | 07/13/24 13:36 | 99.2 | 70-130 |
| Toluene-d8 (S) | | | | | 07/13/24 13:36 | 99.6 | 70-130 |

**Laboratory Control Sample & LCSD** LCS-V49518 LCSD-V49518

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS %Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | µg/L | 20.0 | 19.6 | 22.1 | 98.0 | 111 | 77-128 | 11.9 | 20.0 |
| 4-Bromofluorobenzene (S) | | | | | 101 | 101 | 70-130 | | |
| Dibromofluoromethane (S) | | | | | 99.2 | 98.4 | 70-130 | | |
| 1,2-Dichloroethane - d4 (S) | | | | | 101 | 98.6 | 70-130 | | |
| Toluene-d8 (S) | | | | | 99.0 | 100 | 70-130 | | |

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## Shipment Receipt Form

Customer Number: **00087**
Customer Name: **Geological Resources, Inc.**
Report Number: **24-181-0003**

### Shipping Method

| | | | | |
|---|---|---|---|---|
| ○ Fed Ex | ○ US Postal | ◉ Lab | ○ Other : | |
| ○ UPS | ○ Client | ○ Courier | Thermometer ID: | IRT15 1.3C |

| | | | |
|---|---|---|---|
| Shipping container/cooler uncompromised? | ◉ Yes | ○ No | |
| Number of coolers/boxes received | 2 | | |
| Custody seals intact on shipping container/cooler? | ○ Yes | ○ No | ◉ Not Present |
| Custody seals intact on sample bottles? | ○ Yes | ○ No | ◉ Not Present |
| Chain of Custody (COC) present? | ◉ Yes | ○ No | |
| COC agrees with sample label(s)? | ◉ Yes | ○ No | |
| COC properly completed | ◉ Yes | ○ No | |
| Samples in proper containers? | ◉ Yes | ○ No | |
| Sample containers intact? | ◉ Yes | ○ No | |
| Sufficient sample volume for indicated test(s)? | ◉ Yes | ○ No | |
| All samples received within holding time? | ◉ Yes | ○ No | |
| Cooler temperature in compliance? | ◉ Yes | ○ No | ○ Not Present |
| Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun. | ◉ Yes | ○ No | |
| Water - Sample containers properly preserved | ◉ Yes | ○ No | ○ N/A |
| Water - VOA vials free of headspace | ◉ Yes | ○ No | ○ N/A |
| Trip Blanks received with VOAs | ◉ Yes | ○ No | ○ N/A |
| Soil VOA method 5035 – compliance criteria met | ○ Yes | ○ No | ◉ N/A |

☐ High concentration container (48 hr) ☐ Low concentration EnCore samplers (48 hr)
☐ High concentration pre-weighed (methanol -14 d) ☐ Low conc pre-weighed vials (Sod Bis -14 d)

| | | |
|---|---|---|
| Special precautions or instructions included? | ○ Yes | ◉ No |

Comments:

Signature: Angelo Norvell Date & Time: 06/29/2024 12:43:35

| Client Name/Address | Client Project Manager/Contact | Billing Information | For Laboratory Use Only |
|---|---|---|---|
| GRI<br>Cust #87 | Scott Ball | Same | |

| Project Description | Project/Site Location (City/State) | | Method of Shipment | Matrix Key |
|---|---|---|---|---|
| Tisdales Quick Stop | Kingtree, SC | ☐ RUSH – Additional charges apply<br>☐ Special Detection Limit(s)<br>Date Results Needed<br>STANDARD TAT | ☑ Fed Ex ☐ UPS ☐ USPS<br>☐ Courier ☐ Client Drop Off<br>Other | WW – Wastewater GW – Groundwater<br>DW – Drinking Water S – Soil /Solid O – Oil<br>P - Product M - Misc |

| Project Number | Project Manager Phone # | Project Manager Email | Purchase Order Number | Site/Facility ID # |
|---|---|---|---|---|
| GRI #1543 | 704-845-4010 | wsb@geologicalresourcesinc.com | GRI #1543 | |


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Fax: 704-525-0409


Unless noted, all containers per Table II of 40 CFR Part 136

| | |
|---|---|
| A | Cool < 10C Na2S2O3 (Micro Only) |
| B | Cool <= 6C |
| C | H2SO4 pH<2 |
| D | None Required |
| E | NaOH pH>10 |
| F | HNO3 pH<2 |
| G | HCL pH<2 |
| H | H3PO4 pH<2 |
| I | Cool <= 6C NA2S2O3 |

| Date | Time | Sample Identification | Number of Containers | Matrix (Refer to Key) | (G)rab or (C)omposite | Required Analysis / Preservative: 8260* | 8011 | 524.2** | 8260 Oxys | 504.1 | | | | | Comments/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/27 | 1135 | 18686 - MW-1 | 6 | GW | G | X | X | | | | | | | | *BTEX/MTBE/N/1,2-DCA + Oxys |
| 6/27 | 1458 | 18686 - MW-2 | 6 | GW | G | X | X | | | | | | | | **BTEX/MTBE/N/1,2-DCA |
| 6/27 | 1445 | 18686 - MW-7 | 6 | GW | G | X | X | | | | | | | | |
| 6/27 | 1118 | 18686 - MW-9 | 6 | GW | G | X | X | | | | | | | | |
| 6/27 | 1145 | 18686 - MW-11R | 6 | GW | G | X | X | | | | | | | | |
| 6/27 | 1235 | 18686 - MW-12R | 6 | GW | G | X | X | | | | | | | | |
| 6/27 | 1200 | 18686 - MW-13 | 6 | GW | G | X | X | | | | | | | | |
| 6/27 | 1413 | 18686 - MW-14 | 6 | GW | G | X | X | | | | | | | | |
| 6/27 | 1344 | 18686 - MW-15 | 6 | GW | G | X | X | | | | | | | | |
| 6/27 | 1207 | 18686 - MW-16R | 6 | GW | G | X | X | | | | | | | | |


24-181-0003
00087
06-29-2024
12:40:48
Geological Resources, Inc.
Tisdales Quick Stop


| For Laboratory Use Only | | | Sampled by (Name – Print) | Client Remarks/Comments |
|---|---|---|---|---|
| Ice Y / N | Custody Seals Y / N | Lab Comments | Brian Adams ; Darrell Selby | SC DHEC UST Mang Prog. / UST Permit #18686 |
| Blank/Cooler Temp 1.3C | | | | |

| Relinquished by: (SIGNATURE) | Date Time | Received by: (SIGNATURE) | Date Time |
|---|---|---|---|
| | 6/27/24 | | 6-28-24 10:05 |
| Relinquished by: (SIGNATURE) | Date Time | Received by: (SIGNATURE) | Date Time |
| Relinquished by: (SIGNATURE) | Date Time 13:2 6-28-24 | Received by: (SIGNATURE) | Date Time 6/28/24 1324 |

| Client Name/Address | Client Project Manager/Contact | Billing Information | For Laboratory Use Only |
|---|---|---|---|
| GRI<br>Cust #87 | Scott Ball | Same | |

| Project Description | Project/Site Location (City/State) | | Method of Shipment | Matrix Key |
|---|---|---|---|---|
| Tisdales Quick Stop | Kingtree, SC | ☐ RUSH – Additional charges apply<br>☐ Special Detection Limit(s)<br>Date Results Needed<br>STANDARD TAT | ☐ Fed Ex ☐ UPS ☐ USPS<br>☑ Courier ☐ Client Drop Off<br>Other | WW – Wastewater GW – Groundwater<br>DW – Drinking Water S – Soil /Solid O – Oil<br>P - Product M - Misc |

| Project Number | Project Manager Phone # | Project Manager Email | Purchase Order Number | Site/Facility ID # |
|---|---|---|---|---|
| GRI #1543 | 704-845-4010 | wsb@geologicalresourcesinc.com | GRI #1543 | |

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Charlotte, NC 28217
Phone: 704-529-6364
Fax: 704-525-0409

Unless noted, all containers per Table II of 40 CFR Part 136

| | |
|---|---|
| A | Cool < 10C Na2S2O3 (Micro Only) |
| B | Cool <= 6C |
| C | H2SO4 pH<2 |
| D | None Required |
| E | NaOH pH>10 |
| F | HNO3 pH<2 |
| G | HCL pH<2 |
| H | H3PO4 pH<2 |
| I | Cool <= 6C NA2S2O3 |

| Date | Time | Sample Identification | Number of Containers | Matrix (Refer to Key) | (G)rab or (C)omposite | 8260* | 8011 | 524.2** | 8260 Oxys | 504.1 | | | | | Comments/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Required Analysis / Preservative | | | | | | | | | | | | |
| 6/27 | 1232 | 18686 - MW-17R | 6 | GW | G | X | X | | | | | | | | *BTEX/MTBE/N/1,2-DCA + Oxys |
| 6/27 | 1533 | 18686 - MW-26 | 6 | GW | G | X | X | | | | | | | | **BTEX/MTBE/N/1,2-DCA |
| 6/27 | 1606 | 18686 - MW-27 | 6 | GW | G | X | X | | | | | | | | |
| 6/27 | 1535 | 18686 - MW-28 | 6 | GW | G | X | X | | | | | | | | |
| 6/27 | 1625 | 18686 - MW-31 | 6 | GW | G | X | X | | | | | | | | |
| 6/27 | 1050 | 18686 - MW-1A | 6 | GW | G | X | X | | | | | | | | |
| 6/27 | 1120 | 18686 - MW-2A | 6 | GW | G | X | X | | | | | | | | |
| 6/27 | 1055 | 18686 - MW-4A | 6 | GW | G | X | X | | | | | | | | |
| 6/27 | 1352 | 18686 - TW-1 | 6 | GW | G | X | X | | | | | | | | |
| 6/27 | / | 18686 - MW-DupA | 6 | GW | G | X | X | | | | | | | | |

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Tisdales Quick Stop
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06-29-2024
12:40:48

| For Laboratory Use Only | | | Sampled by (Name – Print) | Client Remarks/Comments |
|---|---|---|---|---|
| Ice | Custody Seals | Lab Comments | Brian Adams ; Darrell Selby | SCDHEC UST Mang. Prog. / UST Permit #18686 |
| Y / N | Y / N | | | |
| Blank/Cooler Temp | | | | |
| 1.3C | | | | |

| Relinquished by: (SIGNATURE) | Date Time | Received by: (SIGNATURE) | Date Time |
|---|---|---|---|
| | 6/27/24 | | 6.28.24 10:0 |
| Relinquished by: (SIGNATURE) | Date Time | Received by: (SIGNATURE) | Date Time |
| | | | |
| Relinquished by: (SIGNATURE) | Date Time 13:24 | Received by: (SIGNATURE) | Date Time |
| | 6.28.24 | | 6/28/24 1324 |

| Client Name/Address | Client Project Manager/Contact | Billing Information | For Laboratory Use Only |
|---|---|---|---|
| GRI<br>Cust #87 | Scott Ball | Same | |

| Project Description | Project/Site Location (City/State) | | Method of Shipment | Matrix Key |
|---|---|---|---|---|
| Tisdales Quick Stop | Kingtree, SC | ☐ RUSH – Additional charges apply<br>☐ Special Detection Limit(s)<br>Date Results Needed<br>STANDARD TAT | ☐ Fed Ex ☐ UPS ☐ USPS<br>☑ Courier ☐ Client Drop Off<br>Other | WW – Wastewater GW – Groundwater<br>DW – Drinking Water S – Soil /Solid O – Oil<br>P - Product M - Misc |

| Project Number | Project Manager Phone # | Project Manager Email | Purchase Order Number | Site/Facility ID # |
|---|---|---|---|---|
| GRI #1543 | 704-845-4010 | wsb@geologicalresourcesinc.com | GRI #1543 | |

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Charlotte, NC 28217
Phone: 704-529-6364
Fax: 704-525-0409

Unless noted, all containers per Table II of 40 CFR Part 136

| | |
|---|---|
| A | Cool < 10C Na2S2O3 (Micro Only) |
| B | Cool <= 6C |
| C | H2SO4 pH<2 |
| D | None Required |
| E | NaOH pH>10 |
| F | HNO3 pH<2 |
| G | HCL pH<2 |
| H | H3PO4 pH<2 |
| I | Cool <= 6C NA2S2O3 |

| Date | Time | Sample Identification | Number of Containers | Matrix (Refer to Key) | (G)rab or (C)omposite | 8260* | 8011 | 524.2** | 8260 Oxys | 504.1 | Comments/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Required Analysis / Preservative | | | | | |
| ~~6/27~~ | / | ~~18686 - MW-Dup B~~ | ~~6~~ | ~~GW~~ | G | ~~X~~ | ~~X~~ | | | | *BTEX/MTBE/N/1,2-DCA + Oxys |
| 6/27 | 0800 | 18686 - MW-Trip Blank | 2 | ~~GW~~ | G | X | | | | | **BTEX/MTBE/N/1,2-DCA |
| 6/27 | 0805 | 18686 - MW-Field Blank | 6 | M | G | X | X | | | | |
| 6/27 | 1515 | 18686 - WSW-1 | 9 | DW | G | ~~X~~ | | X | X | X | |
| 6/27 | 1455 | 18686-WSW-3 | 9 | DW | G | ~~X~~ | | X | X | X | |
| 6/27 | / | 18686 - WSW-Dup C | 9 | DW | G | ~~X~~ | | X | X | X | |
| 6/27 | 0806 | 18686 - WSW-Trip Blank | ~~4~~ 3 | M | G | ~~X~~ | | X | X | | |
| 6/27 | 0800 | 18686 - WSW-Field Blank | 9 | M | G | ~~X~~ | | X | X | X | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

24-181-0003
00087
06-29-2024
12:40:48
Geological Resources, Inc
Tisdales Quick Stop

| For Laboratory Use Only | | | Sampled by (Name – Print) | Client Remarks/Comments |
|---|---|---|---|---|
| Ice | Custody Seals | Lab Comments | Brian Adams; Darrell Selby | SC DHEC UST Mang. Prog./UST Permit # 18686 |
| Y/N | Y/N | | | |
| Blank/Cooler Temp | | | | |
| 1.3C | | | | |

| Relinquished by: (SIGNATURE) | Date Time | Received by: (SIGNATURE) | Date Time |
|---|---|---|---|
| | 6/27/24 | | 6.28.24 10:06 |
| Relinquished by: (SIGNATURE) | Date Time | Received by: (SIGNATURE) | Date Time |
| | | | |
| Relinquished by: (SIGNATURE) | Date Time 13:2 | Received by: (SIGNATURE) | Date Time |
| | 6.28.24 | | 6/28/24 1324 |

**APPENDIX B**

Field Data Information Sheets

dhec

# Underground Storage Tank Management Division
# Field Data Information Sheet – Monitoring Well Gauging

## Site Information

| | | |
|---|---|---|
| Date: 6/ 27 / 2024 | Site ID #: 18686 | Site Name: Trisdale Quick Stop |
| County: Williamsburg | Project Manager: Guinevere Brown | Field Personnel: Brian Adams |

## 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 | 20 | 10-20 | | 14.92 | | N | N | OK | 0/2 | Y |
| * MW-2 | ~~20~~ 25 | 10-25 | | 9.32 | | N | N | OK | 0/2 | N |
| * MW-3 | ~~20~~25 | 10-25 | — | — | — | — | — | — | — | — |
| MW-4 | 25 | 10-25 | — | — | — | — | — | — | — | — |
| MW-5R | 22 | 12-22 | — | — | — | — | — | — | — | — |
| MW-6 | 21.5 | 11.5-21.5 | — | — | — | — | — | — | — | — |
| MW-7 | 22 | 12-22 | — | 14.58 | — | N | N | OK | 0/3 | N |
| MW-8 | 22 | 12-22 | | | | | | | | |
| MW-9 | 22 | 12-22 | — | 15.67 | — | Y | N | Buried | 0/3 | N |
| MW-10 | 25 | 10-25 | — | — | — | — | — | — | — | — |
| MW-11R | 20 | 5-20 | — | 13.32 | — | Y | N | Buried | 1/2 | N |
| MW-12R | 20 | 5-20 | — | 13.62 | — | Y | N | Buried | 0/2 | Y |
| MW-13 | 25 | 10-25 | — | 15.53 | — | Y | N | Pushed up | 0/3 | N |

Notes: _____

Signature: Brian Adams

dhec

# Underground Storage Tank Management Division
## Field Data Information Sheet – Monitoring Well Gauging

### Site Information

| | | |
|---|---|---|
| Date: 6/ 27 / 2024 | Site ID #: 18686 | Site Name: Trisdale Quick Stop |
| County: Williamsburg | Project Manager: Guinevere Brown | Field Personnel: Brian Adams |

### 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-14 | 25 | 10-25 | — | 15.12 | — | N | N | Buried | 0/3 | N | |
| MW-15 | 25 | 10-25 | — | 16.51 | — | N | N | ~~Buried OK~~ | 0/3 | N | |
| MW-16R | 25 | 10-25 | | 9.15 | | N | N | OK | 1/2 | Y | |
| MW-17R | ~~25~~ | 8-23 | — | ~~14.57~~ | — | ~~N~~ | ~~N~~ | ~~OK~~ | ~~0/2~~ | ~~N~~ | NS |
| MW-18R | — | 10-25 | — | — | — | — | — | — | — | — | |
| MW-19 | — | 10-25 | — | — | — | — | — | — | — | — | |
| MW-20 | — | 10-25 | — | / | — | — | — | — | — | — | |
| MW-21 | — | 8-23 | — | — | — | — | — | — | — | — | |
| MW-22 | — | 10-25 | — | — | — | — | — | — | — | — | |
| MW-23 | — | 9-24 | — | — | — | — | — | — | — | — | |
| MW-24 | — | 8-23 | — | — | — | — | — | — | — | — | |
| MW-25 | — | 8-23 | — | — | — | — | — | — | — | — | |
| MW-26 | 21 | 6-21 | — | 12.51 | — | N | N | Buried | 0/3 | Y | NFT |

Notes: _____

Signature: Brian Adams

dhec

# Underground Storage Tank Management Division
## Field Data Information Sheet – Monitoring Well Gauging

### Site Information

| | | |
|---|---|---|
| Date: 6/ 27 / 2024 | Site ID #: 18686 | Site Name: Trisdale Quick Stop |
| County: Williamsburg | Project Manager: Guinevere Brown | Field Personnel: Brian Adams |

### 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-27 | 25 | 10-25 | — | 16.99 | — | N | N | Buried | 0/3 | N |
| MW-28 | 25 | 10-25 | — | 17.34 | — | N | N | Buried | 0/3 | N |
| MW-29 | 25 | 10-25 | — | — | — | — | — | — | — | — |
| MW-30 | 22 | 7-22 | — | — | — | — | — | — | — | — |
| MW-31 | 20 | 10-20 | — | 16.08 | — | N | N | Cracked | 0/2 | N |
| *MW-1A | 21.53 | — | | 14.16 | | N | N | Buried | 0/3 | N |
| *MW-2A | 20.86 | — | | 14.43 | | N | N | Buried | 0/3 | N |
| *MW-3A | — | — | — | — | — | — | — | — | — | — |
| *MW-4A | ~~20.4~~ 20.74 | — | | 14.76 | | N | N | Buried | 0/3 | N |
| TW-1 | 46 | 41-46 | — | 16.12 | — | N | N | Ok | 0/3 | N |
| TW-2 | 51 | 46-51 | — | — | — | — | — | — | — | — |
| | | | | | | | | | | |
| | | | | | | | | | | |

Notes: _____

Signature: Brian Adams

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 6/21/2024 | Site ID #: 18686 | Site Name: Trisdale Quick Stop | Field Personnel: Brian Adams |
| County: Williamsburg | Project Manager: Guinevere Brown | al Weather Conditions: | Ambient Air Temp (°F): |

## Quality Assurance

| | | |
|---|---|---|
| Meter Name Horiba U-50 | Serial #: WEAN7KWX | Calibration: Auto-Calibration Solution |
| | | pH 4.0: Y or N |
| | | 4.49 S.C.: Y or N |
| | | 0.0 NTU: Y or N |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-~~1A~~ | Well Diameter (ft.): 2 inch | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ____Bailer ____Pump |
| ✔MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW | | Screened Interval (ft.): to | Total Well Depth (TWD) (ft.): 21.53 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 19.16 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): 2.37 | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): 1 gal | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | .50 | .75 | 1 | | | | |
| Time (military) | 1050 | 1050 | | | | | | |
| PH (s.u.) | 5.73 | 5.41 | | | | | | |
| Specific Conductivity (µS/cm) | 0.549 | 0.001 | | | | | | |
| Water Temperature (°C) | 26.70 | 26.70 | | | | | | |
| Turbidity (NTU) | 230 | 220 | | | | | | |
| Dissolved Oxygen (mg/L) | 1.95 | 4.78 | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Brian Adams | Sampling Time: 1050 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: Dry at 1st Vol.

Signature: Brian Adams

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 6/27/ 2024 | Site ID #: 18686 | Site Name: Trisdale Quick Stop | Field Personnel: Brian Adams |
| County: Williamsburg | Project Manager: Guinevere Brown | al Weather Conditions: | Ambient Air Temp (°F): |

## Quality Assurance

| | | |
|---|---|---|
| Meter Name Horiba U-50 | Serial #: WEAN7KWX | Calibration: Auto-Calibration Solution |
| | | pH 4.0: Y or N |
| | | 4.49 S.C.: Y or N |
| | | 0.0 NTU: Y or N |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW- 4A | Well Diameter (ft.): 2 inch | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ____Bailer ____Pump |
| ✔MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW | | Screened Interval (ft.): to | Total Well Depth (TWD) (ft.): 20.74 |
| 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.): 5.98 | 1 casing volume (CV=LWC*C)(gals): 1 | 3 casing volumes 3*CV)(gals): 3 | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | 1 | 2 | 3 | | | | |
| Time (military) | 1052 | 1053 | | | | | | |
| PH (s.u.) | 4.03 | 3.87 | | | | | | |
| Specific Conductivity (µS/cm) | 0.155 | 0.128 | | | | | | |
| Water Temperature (°C) | 24.81 | 24.21 | | | | | | |
| Turbidity (NTU) | 78.4 | 245 | | | | | | |
| Dissolved Oxygen (mg/L) | 1.00 | 4.12 | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Brian Adams | Sampling Time: 1055 | Duplicate: (Y) or N | If yes, Duplicate Time: — |

Notes: Dry @ 1.5 gal

Signature: Brian Adams

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 6/27/2024 | Site ID #: 18686 | Site Name: Trisdale Quick Stop | Field Personnel: Brian Adams |
| County: Williamsburg | Project Manager: Guinevere Brown | al Weather Conditions: | Ambient Air Temp (°F): |

## Quality Assurance

| | | |
|---|---|---|
| Meter Name Horiba U-50 | Serial #: WEAN7KWX | Calibration: Auto-Calibration Solution |
| | | pH 4.0: Y or N |
| | | 4.49 S.C.: Y or N |
| | | 0.0 NTU: Y or N |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-2A | Well Diameter (ft.): 2 inch | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ___Bailer ___Pump |
| Y MW ___IW ___RW ___Other ___Private WSW ___Public WSW | | Screened Interval (ft.): to | Total Well Depth (TWD) (ft.): 20.86 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 14.43 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): 6.43 | 1 casing volume (CV=LWC*C)(gals): 1 gal | 3 casing volumes 3*CV)(gals): 3 | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | | | | | | | |
| Time (military) | 1120 | | | | | | | |
| PH (s.u.) | 4.30 | 5.00 | | | | | | |
| Specific Conductivity (µS/cm) | 0.030 | 0.059 | | | | | | |
| Water Temperature (°C) | 27.48 | 27.61 | | | | | | |
| Turbidity (NTU) | 44.1 | 777 | | | | | | |
| Dissolved Oxygen (mg/L) | 2.89 | 1.25 | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Brian Adams | Sampling Time: 1120 | Duplicate: Y or N | If yes, Duplicate Time: |

Notes: Dry after 1st vol

Signature: Brian Adams

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 6/27/2024 | Site ID #: 18686 | Site Name: Trisdale Quick Stop | Field Personnel: Brian Adams |
| County: Williamsburg | Project Manager: Guinevere Brown | al Weather Conditions: | Ambient Air Temp (°F): |

## Quality Assurance

| | | |
|---|---|---|
| Meter Name Horiba U-50 | Serial #: WEAN7KWX | Calibration: Auto-Calibration Solution |
| | | pH 4.0: Y or N |
| | | 4.49 S.C.: Y or N |
| | | 0.0 NTU: Y or N |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-9 | Well Diameter (ft.): 2 inch | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ____Bailer ____Pump |
| ✓ MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW | | Screened Interval (ft.): to | Total Well Depth (TWD) (ft.): 22 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 15.67 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): 6.33 | 1 casing volume (CV=LWC*C)(gals): 1 | 3 casing volumes 3*CV)(gals): 3 | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | 25 | 1 | 2 | 3 | | | | |
| Time (military) | 1115 | 1116 | 1117 | | | | | |
| PH (s.u.) | 4.82 | 5.04 | 5.30 | | | | | |
| Specific Conductivity (µS/cm) | 0.065 | 0.066 | 0.069 | | | | | |
| Water Temperature (°C) | 27.69 | 25.64 | 25.09 | | | | | |
| Turbidity (NTU) | 197 | 1000+ | 1000+ | | | | | |
| Dissolved Oxygen (mg/L) | 3.62 | 3.64 | 3.50 | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Brian Adams | Sampling Time: 1118 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Dry @ 2.25 gal

Signature: Brian Adams

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 6/27/2024 | Site ID #: 18686 | Site Name: Trisdale Quick Stop | Field Personnel: Brian Adams |
| County: Williamsburg | Project Manager: Guinevere Brown | al Weather Conditions: | Ambient Air Temp (°F): |

## Quality Assurance

| | | |
|---|---|---|
| Meter Name Horiba U-50 | Serial #: WEAN7KWX | Calibration: Auto-Calibration Solution |
| | | pH 4.0: Y or N |
| | | 4.49 S.C.: Y or N |
| | | 0.0 NTU: Y or N |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-11R | Well Diameter (ft.): 2 inch | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ____Bailer ____Pump |
| ✔MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW | | Screened Interval (ft.): to | Total Well Depth (TWD) (ft.): 20 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 13.32 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): 6.68 | 1 casing volume (CV=LWC*C)(gals): 1 | 3 casing volumes 3*CV)(gals): 3 | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | 1 | 2 | 3 | | | | |
| Time (military) | 1142 | 1143 | 1144 | | | | | |
| PH (s.u.) | 5.46 | 5.55 | 5.68 | | | | | |
| Specific Conductivity (µS/cm) | 0.043 | 0.039 | 0.042 | | | | | |
| Water Temperature (°C) | 28.45 | 25.24 | 24.40 | | | | | |
| Turbidity (NTU) | 395 | 1000+ | 1000+ | | | | | |
| Dissolved Oxygen (mg/L) | 3.55 | 3.54 | 3.51 | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Brian Adams | Sampling Time: 1145 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Dry @ 2.75 gal.

Signature: Brian Adams

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 6/ / 2024 | Site ID #: 18686 | Site Name: Trisdale Quick Stop | Field Personnel: Brian Adams |
| County: Williamsburg | Project Manager: Guinevere Brown | al Weather Conditions: | Ambient Air Temp (°F): |

## Quality Assurance

| | | |
|---|---|---|
| Meter Name Horiba U-50 | Serial #: WEAN7KWX | Calibration: Auto-Calibration Solution |
| | | pH 4.0: ✓ or N |
| | | 4.49 S.C.: ✓ or N |
| | | 0.0 NTU: ✓ or N |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW- 13 | Well Diameter (ft.): 2 inch | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ___Bailer ___Pump |
| ✓ MW ___IW ___RW ___Other ___Private WSW ___Public WSW | | Screened Interval (ft.): to | Total Well Depth (TWD) (ft.): 25 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 15.53 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): 9.47 | 1 casing volume (CV=LWC*C)(gals): 1.5 | 3 casing volumes 3*CV)(gals): 4.5 | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | 1.5 | 3 | 4.5 | | | | |
| Time (military) | 1200 | | | | | | | |
| PH (s.u.) | 6.16 | 6.17 | 5.91 | | | | | |
| Specific Conductivity (µS/cm) | 0.078 | 0.052 | 0.076 | | | | | |
| Water Temperature (°C) | 27.16 | 27.43 | 26.29 | | | | | |
| Turbidity (NTU) | 1000 | 1000 | 1000 | | | | | |
| Dissolved Oxygen (mg/L) | 2.62 | 2.87 | 3.04 | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Brian Adams | Sampling Time: 1210 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: _____

Signature: Brian Adams

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 6/27/2024 | Site ID #: 18686 | Site Name: Trisdale Quick Stop | Field Personnel: Brian Adams |
| County: Williamsburg | Project Manager: Guinevere Brown | al Weather Conditions: | Ambient Air Temp (°F): |

## Quality Assurance

| | | |
|---|---|---|
| Meter Name Horiba U-50 | Serial #: WEAN7KWX | Calibration: Auto-Calibration Solution |
| | | pH 4.0: Y or N |
| | | 4.49 S.C.: Y or N |
| | | 0.0 NTU: Y or N |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-10R | Well Diameter (ft.): 2 inch | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ____Bailer ____Pump |
| ✔MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW | | Screened Interval (ft.): to | Total Well Depth (TWD) (ft.): 25 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 9.15 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): 15.85 | 1 casing volume (CV=LWC*C)(gals): 2.5 | 3 casing volumes 3*CV)(gals): 7.5 | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | 2.5 | 5 | 7.5 | | | | |
| Time (military) | | | | | | | | |
| PH (s.u.) | | | | | | | | |
| Specific Conductivity (µS/cm) | | | | | | | | |
| Water Temperature (°C) | | | | | | | | |
| Turbidity (NTU) | | | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Brian Adams | Sampling Time: — | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Not enough water / Well Obstructed / Still Sampled

Signature: Brian Adams

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 6/27/2024 | Site ID #: 18686 | Site Name: Trisdale Quick Stop | Field Personnel: Brian Adams |
| County: Williamsburg | Project Manager: Guinevere Brown | al Weather Conditions: | Ambient Air Temp (°F): |

## Quality Assurance

| | | |
|---|---|---|
| Meter Name: Horiba U-50 | Serial #: WEAN7KWX | Calibration: Auto-Calibration Solution |
| | | pH 4.0: Y or N |
| | | 4.49 S.C.: Y or N |
| | | 0.0 NTU: Y or N |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-12R | Well Diameter (ft.): 2 inch | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ___Bailer ___Pump |
| ✔MW ___IW ___RW ___Other ___Private WSW ___Public WSW | | Screened Interval (ft.): to | Total Well Depth (TWD) (ft.): 20 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 13.62 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): 6.38 | 1 casing volume (CV=LWC*C)(gals): 1 | 3 casing volumes 3*CV)(gals): 3 | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | 1 | 2 | 3 | | | | |
| Time (military) | 1235 | | | | | | | |
| PH (s.u.) | 5.24 | 3.82 | 2.69 | | | | | |
| Specific Conductivity (µS/cm) | 0.059 | 0.076 | 0— | | | | | |
| Water Temperature (°C) | 30.92 | 31.21 | 31.63 | | | | | |
| Turbidity (NTU) | 028 | 1080 | 222 | | | | | |
| Dissolved Oxygen (mg/L) | 3.14 | 1.51 | 4.61 | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Brian Adams | Sampling Time: 1235 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: _____

Signature: Brian Adams

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 6/27/ 2024 | Site ID #: 18686 | Site Name: Trisdale Quick Stop | Field Personnel: Brian Adams |
| County: Williamsburg | Project Manager: Guinevere Brown | al Weather Conditions: | Ambient Air Temp (°F): |

## Quality Assurance

| | | |
|---|---|---|
| Meter Name Horiba U-50 | Serial #: WEAN7KWX | Calibration: Auto-Calibration Solution |
| | | pH 4.0: Y or N |
| | | 4.49 S.C.: Y or N |
| | | 0.0 NTU: Y or N |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW- 17R | Well Diameter (ft.): 2 inch | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ____Bailer ____Pump |
| ✓MW ___IW ___RW ___Other ___Private WSW ___Public WSW | | Screened Interval (ft.): to | Total Well Depth (TWD) (ft.): 23 |
| 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.): 8.63 | 1 casing volume (CV=LWC*C)(gals): 1.5 | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | 1.5 | 3 | 4.5 | | | | |
| Time (military) | 1230 | 1231 | | | | | | |
| PH (s.u.) | 3.37 | 3.22 | | | | | | |
| Specific Conductivity (µS/cm) | 0.115 | 0.117 | | | | | | |
| Water Temperature (°C) | 27.27 | 25.85 | | | | | | |
| Turbidity (NTU) | 897 | 1000+ | | | | | | |
| Dissolved Oxygen (mg/L) | 1.21 | 24.13 | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Brian Adams | Sampling Time: 1232 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Dry @ 2.75 gal.

Signature: Brian Adams

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 6/[illegible]/2024 | Site ID #: 18686 | Site Name: Trisdale Quick Stop | Field Personnel: Brian Adams |
| County: Williamsburg | Project Manager: Guinevere Brown | al Weather Conditions: | mbient Air Temp (°F): |

## Quality Assurance

| | | |
|---|---|---|
| Meter Name Horiba U-50 | Ser al #: WEAN7KWX | Calibration: Auto-Calibration Solution |
| | | pH 4.0: Y or N |
| | | 4.49 S.C.: Y or N |
| | | 0.0 NTU: Y or N |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: TW-1 | Well Diameter (ft.): 2 inch | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ____Bailer ____Pump |
| ✔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.): | Depth to Groundwater (DGW) (ft.): 16.12 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): 29.88 | 1 casing volume (CV=LWC*C)(gals): 5 | 3 casing volumes 3*CV)(gals): 15 | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | 5 | 10 | 15 | | | | |
| Time (military) | ~~1352~~ 1340 | 1345 | 1348 | | | | | |
| PH (s.u.) | 3.77 | 4.57 | 4.66 | | | | | |
| Specific Conductivity (µS/cm) | 0.001 | 0.066 | 0.082 | | | | | |
| Water Temperature (°C) | 33.04 | 32.69 | 32.54 | | | | | |
| Turbidity (NTU) | 57.1 | 60.4 | 375 | | | | | |
| Dissolved Oxygen (mg/L) | 4.11 | 4.41 | 2.21 | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Brian Adams | Sampling Time: 1352 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Dry after 2nd Vol

Signature: Brian Adams

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 6/27/ 2024 | Site ID #: 18686 | Site Name: Trisdale Quick Stop | Field Personnel: Brian Adams |
| County: Williamsburg | Project Manager: Guinevere Brown | al Weather Conditions: | Ambient Air Temp (°F): |

## Quality Assurance

| | | |
|---|---|---|
| Meter Name Horiba U-50 | Serial #: WEAN7KWX | Calibration: Auto-Calibration Solution |
| | | pH 4.0: Y or N |
| | | 4.49 S.C.: Y or N |
| | | 0.0 NTU: Y or N |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW- 15 | Well Diameter (ft.): 2 inch | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ____Bailer ____Pump |
| ✔MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW | | Screened Interval (ft.): to | Total Well Depth (TWD) (ft.): 25 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 16.51 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): 8.49 | 1 casing volume (CV=LWC*C)(gals): 1.25 | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | 1.25 | 2.5 | 3.75 | | | | |
| Time (military) | 1346 | 1347 | 1348 | | | | | |
| PH (s.u.) | 4.82 | 5.13 | 5.39 | | | | | |
| Specific Conductivity (µS/cm) | 0.049 | 0.061 | 0.068 | | | | | |
| Water Temperature (°C) | 27.97 | 26.00 | 25.19 | | | | | |
| Turbidity (NTU) | 76.9 | 1000+ | 1000+ | | | | | |
| Dissolved Oxygen (mg/L) | 3.78 | 3.42 | 3.10 | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Brian Adams | Sampling Time: 1349 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Dry @ 2.3.25

Signature: Brian Adams

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 6/27/2024 | Site ID #: 18686 | Site Name: Trisdale Quick Stop | Field Personnel: Brian Adams |
| County: Williamsburg | Project Manager: Guinevere Brown | al Weather Conditions: | Ambient Air Temp (°F): |

## Quality Assurance

| | | |
|---|---|---|
| Meter Name Horiba U-50 | Serial #: WEAN7KWX | Calibration: Auto-Calibration Solution |
| | | pH 4.0: Y or N |
| | | 4.49 S.C.: Y or N |
| | | 0.0 NTU: Y or N |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW- 14 | Well Diameter (ft.): 2 inch | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ___Bailer ___Pump |
| ✔ MW ___IW ___RW ___Other ___ ___Private WSW ___Public WSW | | Screened Interval (ft.): to | Total Well Depth (TWD) (ft.): 25 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 15.12 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): 9.88 | 1 casing volume (CV=LWC*C)(gals): 1.5 | 3 casing volumes 3*CV)(gals): 4.5 | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | 1.5 | 2.3 | 4.5 | | | | |
| Time (military) | 1409 | 1411 | | | | | | |
| PH (s.u.) | 5.84 | 5.91 | | | | | | |
| Specific Conductivity (µS/cm) | 0.125 | 0.128 | | | | | | |
| Water Temperature (°C) | 25.37 | 25.99 | | | | | | |
| Turbidity (NTU) | 906 | 1000+ | | | | | | |
| Dissolved Oxygen (mg/L) | 1.43 | 2.25 | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Brian Adams | Sampling Time: ~~1418~~ 1413 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Dry @ 2.75 gal

Signature: Brian Adams

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 6/27/2024 | Site ID #: 18686 | Site Name: Trisdale Quick Stop | Field Personnel: Brian Adams |
| County: Williamsburg | Project Manager: Guinevere Brown | al Weather Conditions: | Ambient Air Temp (°F): |

## Quality Assurance

| | | |
|---|---|---|
| Meter Name Horiba U-50 | Serial #: WEAN7KWX | Calibration: Auto-Calibration Solution |
| | | pH 4.0: Y or N |
| | | 4.49 S.C.: Y or N |
| | | 0.0 NTU: Y or N |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW- 2 | Well Diameter (ft.): 2 inch | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ___Bailer ___Pump |
| ✓ MW ___IW ___RW ___Other ___Private WSW ___Public WSW | | Screened Interval (ft.): to | Total Well Depth (TWD) (ft.): 25 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 9.32 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): 15.68 | 1 casing volume (CV=LWC*C)(gals): 2.5 | 3 casing volumes 3*CV)(gals): 7.5 | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | 2.5 | 5 | 7.5 | | | | |
| Time (military) | 1407 | 1409 | 1413 | 1415 | | | | |
| PH (s.u.) | 4.38 | 2.75 | 2.56 | | | | | |
| Specific Conductivity (µS/cm) | 0— | 0.001 | 0.001 | | | | | |
| Water Temperature (°C) | 27.77 | 28.19 | 28.52 | | | | | |
| Turbidity (NTU) | 297 | 223 | 294 | | | | | |
| Dissolved Oxygen (mg/L) | 5.66 | 5.26 | 4.35 | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Brian Adams | Sampling Time: 1418 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: _____

Signature: Brian Adams

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 6/27/2024 | Site ID #: 18686 | Site Name: Trisdale Quick Stop | Field Personnel: Brian Adams |
| County: Williamsburg | Project Manager: Guinevere Brown | al Weather Conditions: | Ambient Air Temp (°F): |

## Quality Assurance

| | | |
|---|---|---|
| Meter Name Horiba U-50 | Serial #: WEAN7KWX | Calibration: Auto-Calibration Solution |
| | | pH 4.0: Y or N |
| | | 4.49 S.C.: Y or N |
| | | 0.0 NTU: Y or N |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW- 1 | Well Diameter (ft.): 2 inch | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ____Bailer ____Pump |
| ✔MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW | Screened Interval (ft.): to | | Total Well Depth (TWD) (ft.): 20 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 14.92 | | Free Product Thickness (ft.): — |
| Length of water column (LWC=TWD-DGW)(ft.): 5.08 | 1 casing volume (CV=LWC*C)(gals): 1 | 3 casing volumes 3*CV)(gals): 3 | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | 1 | 2 | 3 | | | | |
| Time (military) | 1434 | | | | | | | |
| PH (s.u.) | 3.62 | | | | | | | |
| Specific Conductivity (µS/cm) | 0.098 | | | | | | | |
| Water Temperature (°C) | 31.05 | | | | | | | |
| Turbidity (NTU) | 125 | | | | | | | |
| Dissolved Oxygen (mg/L) | 0.77 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Brian Adams | Sampling Time: 1435 | Duplicate (Y) or N | If yes, Duplicate Time: — |

Notes: Dry @ .75 gal-

Signature: Brian Adams

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 6/27/2024 | Site ID #: 18686 | Site Name: Trisdale Quick Stop | Field Personnel: Brian Adams |
| County: Williamsburg | Project Manager: Guinevere Brown | al Weather Conditions: | Ambient Air Temp (°F): |

## Quality Assurance

| | | |
|---|---|---|
| Meter Name Horiba U-50 | Serial #: WEAN7KWX | Calibration: Auto-Calibration Solution |
| | | pH 4.0: Y or N |
| | | 4.49 S.C.: Y or N |
| | | 0.0 NTU: Y or N |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW- 7 | Well Diameter (ft.): 2 inch | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ____Bailer ____Pump |
| ✔MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW | | Screened Interval (ft.): to | Total Well Depth (TWD) (ft.): 22 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 14.58 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): 7.42 | 1 casing volume (CV=LWC*C)(gals): 1.25 | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | 1.25 | 2.5 | 3.75 | | | | |
| Time (military) | 1438 | 1440 | 1443 | | | | | |
| PH (s.u.) | 3.36 | 3.53 | 3.46 | | | | | |
| Specific Conductivity (µS/cm) | 0.010 | 0.009 | 0— | | | | | |
| Water Temperature (°C) | 31.72 | 32.00 | 32.01 | | | | | |
| Turbidity (NTU) | 54.0 | 1000 | 265 | | | | | |
| Dissolved Oxygen (mg/L) | 5.28 | 3.54 | 4.95 | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Brian Adams | Sampling Time: 1445 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Dry after 2nd vol

Signature: Brian Adams

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 6/ / 2024 | Site ID #: 18686 | Site Name: Trisdale Quick Stop | Field Personnel: Brian Adams |
| County: Williamsburg | Project Manager: Guinevere Brown | al Weather Conditions: | Ambient Air Temp (°F): |

## Quality Assurance

| | | |
|---|---|---|
| Meter Name Horiba U-50 | Serial #: WEAN7KWX | Calibration: Auto-Calibration Solution |
| | | pH 4.0: Y or N |
| | | 4.49 S.C.: Y or N |
| | | 0.0 NTU: Y or N |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-26 | Well Diameter (ft.): 2 inch | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ____Bailer ____Pump |
| ✔MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW | | Screened Interval (ft.): to | Total Well Depth (TWD) (ft.): 21 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 12.51 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): 8.49 | 1 casing volume (CV=LWC*C)(gals): 1.25 | 3 casing volumes 3*CV)(gals): 3.75 | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | 1.25 | 2.5 | 3.75 | | | | |
| Time (military) | 1530 | 1532 | 1536 | | | | | |
| PH (s.u.) | 3.44 | 4.51 | 4.78 | | | | | |
| Specific Conductivity (µS/cm) | 0 | 0 | 0.014 | | | | | |
| Water Temperature (°C) | 35.63 | 35.55 | 35.39 | | | | | |
| Turbidity (NTU) | 257 | 1000 | 1000 | | | | | |
| Dissolved Oxygen (mg/L) | 4.41 | 1.74 | 2.03 | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Brian Adams | Sampling Time: 1533 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: _____

Signature: Brian Adams

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 6/27/2024 | Site ID #: 18686 | Site Name: Trisdale Quick Stop | Field Personnel: Brian Adams |
| County: Williamsburg | Project Manager: Guinevere Brown | al Weather Conditions: | Ambient Air Temp (°F): |

## Quality Assurance

| | | |
|---|---|---|
| Meter Name Horiba U-50 | Serial #: WEAN7KWX | Calibration: Auto-Calibration Solution |
| | | pH 4.0: Y or N |
| | | 4.49 S.C.: Y or N |
| | | 0.0 NTU: Y or N |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW- 28 | Well Diameter (ft.): 2 inch | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ____Bailer ____Pump |
| ✔MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW | | Screened Interval (ft.): to | Total Well Depth (TWD) (ft.): 25 |
| Depth to Free Product (DFP) (ft.): – | Depth to Groundwater (DGW) (ft.): 17.34 | | Free Product Thickness (ft.): – |
| Length of water column (LWC=TWD-DGW)(ft.): 7.66 | 1 casing volume (CV=LWC*C)(gals): 1.25 | 3 casing volumes 3*CV)(gals): 3.75 | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | 1.25 | 2.5 | 3.75 | | | | |
| Time (military) | 1526 | 1528 | 1532 | | | | | |
| PH (s.u.) | 5.20 | 5.46 | 5.57 | | | | | |
| Specific Conductivity (µS/cm) | 0.262 | 0.295 | 0.287 | | | | | |
| Water Temperature (°C) | 27.72 | 25.87 | 25.13 | | | | | |
| Turbidity (NTU) | 496 | 577 | 693 | | | | | |
| Dissolved Oxygen (mg/L) | 3.71 | 4.05 | 4.10 | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Brian Adams | Sampling Time: 1535 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Dry @ 7 3.25 gal

Signature: Brian Adams

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 6/27/2024 | Site ID #: 18686 | Site Name: Trisdale Quick Stop | Field Personnel: Brian Adams |
| County: Williamsburg | Project Manager: Guinevere Brown | al Weather Conditions: | Ambient Air Temp (°F): |

## Quality Assurance

| | | |
|---|---|---|
| Meter Name Horiba U-50 | Serial #: WEAN7KWX | Calibration: Auto-Calibration Solution |
| | | pH 4.0: Y or N |
| | | 4.49 S.C.: Y or N |
| | | 0.0 NTU: Y or N |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-27 | Well Diameter (ft.): 2 inch | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ___Bailer ___Pump |
| ✓MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW | | Screened Interval (ft.): to | Total Well Depth (TWD) (ft.): 25 |
| Depth to Free Product (DFP) (ft.): | Depth to Groundwater (DGW) (ft.): 16.99 | | Free Product Thickness (ft.): |
| Length of water column (LWC=TWD-DGW)(ft.): 8.01 | 1 casing volume (CV=LWC*C)(gals): 1.25 | 3 casing volumes 3*CV)(gals): 3.75 | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | 1.25 | 2.5 | 3.75 | | | | |
| Time (military) | 1606 | 1608 | 1610 | | | | | |
| PH (s.u.) | 6.08 | 6.14 | 6.09 | | | | | |
| Specific Conductivity (µS/cm) | 0.062 | 0.015 | 0.008 | | | | | |
| Water Temperature (°C) | 28.96 | 28.82 | 28.70 | | | | | |
| Turbidity (NTU) | 228 | 700 | 1000 | | | | | |
| Dissolved Oxygen (mg/L) | 3.67 | 3.33 | 2.80 | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Brian Adams | Sampling Time: 1606 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: _____

Signature: Brian Adams

# Underground Storage Tank Management Division
# Field Data Information Sheet – Sampling

## Site Information

| | | | |
|---|---|---|---|
| Date: 6/27/2024 | Site ID #: 18686 | Site Name: Trisdale Quick Stop | Field Personnel: Brian Adams |
| County: Williamsburg | Project Manager: Guinevere Brown | al Weather Conditions: | Ambient Air Temp (°F): |

## Quality Assurance

| | | |
|---|---|---|
| Meter Name Horiba U-50 | Serial #: WEAN7KWX | Calibration: Auto-Calibration Solution |
| | | pH 4.0: Y or N |
| | | 4.49 S.C.: Y or N |
| | | 0.0 NTU: Y or N |

## Well Information

| | | | |
|---|---|---|---|
| Well ID: MW-31 | Well Diameter (ft.): 2 inch | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: ___Bailer ___Pump |
| ✓MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW | | Screened Interval (ft.): to | Total Well Depth (TWD) (ft.): 20 |
| Depth to Free Product (DFP) (ft.): – | Depth to Groundwater (DGW) (ft.): 16.08 | | Free Product Thickness (ft.): – |
| Length of water column (LWC=TWD-DGW)(ft.): 3.92 | 1 casing volume (CV=LWC*C)(gals): .75 | 3 casing volumes 3*CV)(gals): 2.25 | 5 casing volumes (5*CV)(gals): |

## Purging Data

| | Initial | 1st Vol. | 2nd Vol. | 3rd Vol. | 4th Vol. | 5th Vol. | Post | Sampling |
|---|---|---|---|---|---|---|---|---|
| Volume Purged (gallons) | .25 | .75 | 1.5 | 2.25 | | | | |
| Time (military) | 1623 | ~~1631~~ | | | | | | |
| PH (s.u.) | 6.20 | | | | | | | |
| Specific Conductivity (µS/cm) | 0.044 | | | | | | | |
| Water Temperature (°C) | 26.54 | | | | | | | |
| Turbidity (NTU) | 153 | | | | | | | |
| Dissolved Oxygen (mg/L) | 3.84 | | | | | | | |

## Sampling Data

| | | | |
|---|---|---|---|
| Sampled By: Brian Adams | Sampling Time: 1625 | Duplicate: Y or (N) | If yes, Duplicate Time: |

Notes: Dry @ .50 gal

Signature: Brian Adams

**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. Kingstree, SC 29556

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

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: Zero Waste, LLC, 301 Dupree Street, Charlotte, NC

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone: (980) 495-4630

| 11. WASTE DESCRIPTION | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt./Vol. |
|---|---|---|---|---|
| a. Purge Water | 1 | drum | 8.25 | gal. |
| b. | | | | |
| c. | | | | |
| d. | | | | |

G. Additonal Descriptions for Materials Listed Above: GRI Job #1543; SCDHEC UST Permit #18686

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: Brian Adams / Tisdales Quick Stop — Signature — Date: Month 06 Day 27 Year 24

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Brian Adams / Tisdales Quick Stop — Signature — Date: Month 06 Day 27 Year 24

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: Bianca Savage — Signature — Date: Month 7 Day 24 Year 24

**FACILITY**

19. Discrepancy Indication Space

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

Printed/Typed Name: James Riegel — Signature — Date: Month 7 Day 24 Year 24

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 | | |

| Item # | Item | Yes | No | N/A |
|---|---|---|---|---|
| 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 |
| 28 | Are the site-conceptual model tables included? | | | X |
| 29 | Have the exposure pathways been analyzed? | | | 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? | | | X |
| 33 | Has the potentiometric data for the site been provided in tabular format? (Table 1) | X | | |
| 34 | Has the current and historical laboratory data been provided in tabular format? (Table 2 and Table 3) | X | | |
| 35 | Have the aquifer characteristics been provided and summarized on the appropriate form? | X | | |
| 36 | Have the Site conceptual model tables been included? | | | 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 4) | X | | |
| 40 | Has the site potentiometric map been provided? (Figure 3) | X | | |
| 41 | Have the geologic cross-sections been provided? | | | X |
| 42 | Have maps showing the predicted migration of the CoCs through time been provided? | | | X |
| 43 | Has the site survey been provided and include all necessary elements? | | | X |
| 44 | Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix A) | X | | |
| 45 | Is the laboratory performing the analyses properly certified? | X | | |
| 46 | Has the tax map been included with all necessary elements? | | | X |
| 47 | Have the soil boring/field screening logs been provided? | | | X |
| 48 | Have the well completion logs and SCDHEC Form 1903 been provided? | | | X |
| 49 | Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? | | | X |
| 50 | Have the disposal manifests been provided? (Appendix C) | X | | |
| 51 | Has a copy of the local zoning regulations been provided? | | | X |
| 52 | Has all fate and transport modeling been provided? | | | X |
| 53 | Have copies of all access agreements obtained by the contractor been provided? | | | X |

| Item # | Item | Yes | No | N/A |
|---|---|---|---|---|
| 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: Guinevere Brown
Date: 2/10/2025

### Groundwater Flow Parameters

| | | |
|---|---|---|
| K | 4,989.50 | ft/yr |
| dh/dx | 0.003 | |
| θ | 0.22 | dec. % |
| $v_x$ | 68.03863636 | ft/yr |

### Transport Parameters

| | | |
|---|---|---|
| $x_{max}$ | 470 | ft |
| $y_{max/2}$ | 50 | ft |
| z | 10 | ft |
| Source Width | 10 | ft |
| Source Thickness | 15 | ft |
| Plume Length | 470 | ft |
| $\alpha_x$ | 17.3975847 | ft |
| $\alpha_y$ | 1.73975847 | ft |
| $\alpha_z$ | 1.74E+00 | ft |

### Simulation Time

$t_{sim}$ 40 yrs

### Aquifer Characteristics

| | | |
|---|---|---|
| $\rho_d$ | 1.7 | kg/L |
| $f_{oc}$ | 0.0002 | |

### Source Area CoC Data

| CoC | $C_{source}$ (mg/L) | $K_{oc}$ (L/kg) |
|---|---|---|
| Benzene | 44.39 | 81 |
| Toluene | 26.54 | 133 |
| Ethylbenzene | 3.7 | 176 |
| Xylenes | 21.68 | 639 |
| Naphthalene | 6.7 | 1543 |
| MtBE | 173 | 11 |
| EDB | 1.9 | 28 |
| 1,2-DCA | | 17.5 |

### Retarded Velocity (ft/yr)

| CoC | R | $v_R$ |
|---|---|---|
| Benzene | 1.125 | 60.47 |
| Toluene | 1.206 | 56.44 |
| Ethylbenzene | 1.272 | 53.49 |
| Xylenes | 1.988 | 34.23 |
| Naphthalene | 3.385 | 20.10 |
| MtBE | 1.017 | 66.90 |
| EDB | 1.043 | 65.22 |
| 1,2-DCA | 1.027 | 66.25 |

### 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 93 Feed DOCKETING

## Benzene Calibration

### Spatial Calibration Data (centerline)

| x | $C_{obs}$ (mg/L) | $C_{sim}$ (mg/L) |
|---|---|---|
| 0 | 44.39 | 44.39 |
| 47 | | 9.374 |
| 94 | | 4.659 |
| 141 | | 2.652 |
| 188 | 1.52 | 1.598 |
| 235 | | 0.993 |
| 282 | | 0.630 |
| 329 | | 0.405 |
| 376 | 0.269 | 0.263 |
| 423 | | 0.172 |
| 470 | 0.027 | 0.114 |

### Temporal Calibration Data

| t (yrs) | $C_{obs}$ (mg/L) | $C_{sim}$ (mg/L) | $C_{obs}$ (mg/L) | $C_{sim}$ (mg/L) |
|---|---|---|---|---|
| 0 | | 44.39 | 6.9 | 44.39 |
| 4 | | 44.390 | | 44.390 |
| 8 | | 44.390 | | 44.390 |
| 12 | | 44.390 | | 44.390 |
| 16 | | 44.390 | | 44.390 |
| 20 | | 44.390 | | 44.390 |
| 24 | | 44.390 | | 44.390 |
| 28 | | 44.390 | | 44.390 |
| 32 | | 44.390 | | 44.390 |
| 36 | | 44.390 | | 44.390 |
| 40 | | 44.390 | | 44.390 |

Site ID 18686

Site Name Tisdales Quick Stop

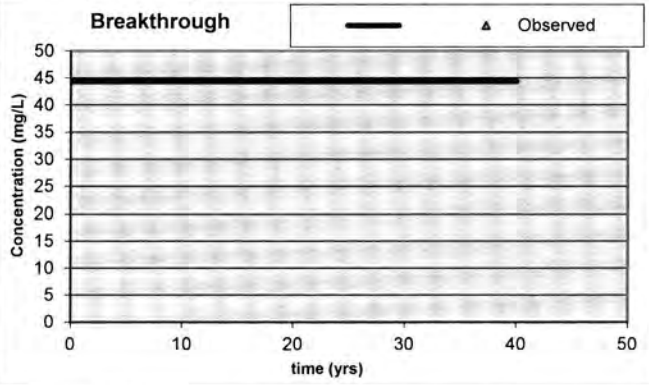
### Model Calibration Parameters

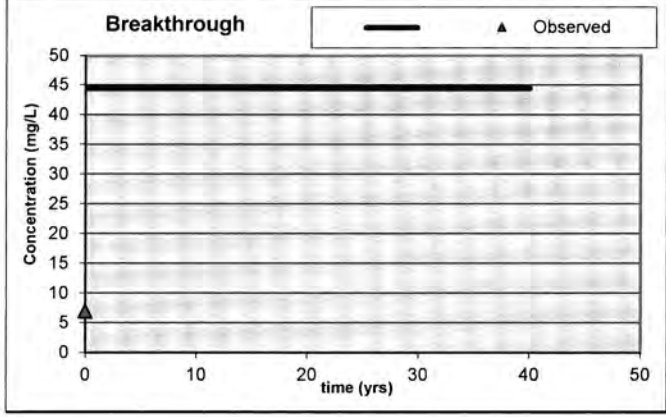
| | | |
|---|---|---|
| $t_{1/2}$ | 1.3 | yrs |
| $v_x$ | 68.03864 | ft/yr |
| R | 1.125 | |
| $v_R$ | 60.469 | ft/yr |
| $L_p$ | 470 | ft |
| $\alpha_x$ | 17.39758 | ft |
| $\alpha_y$ | 1.739758 | ft |
| $\alpha_z$ | 1E-99 | ft |

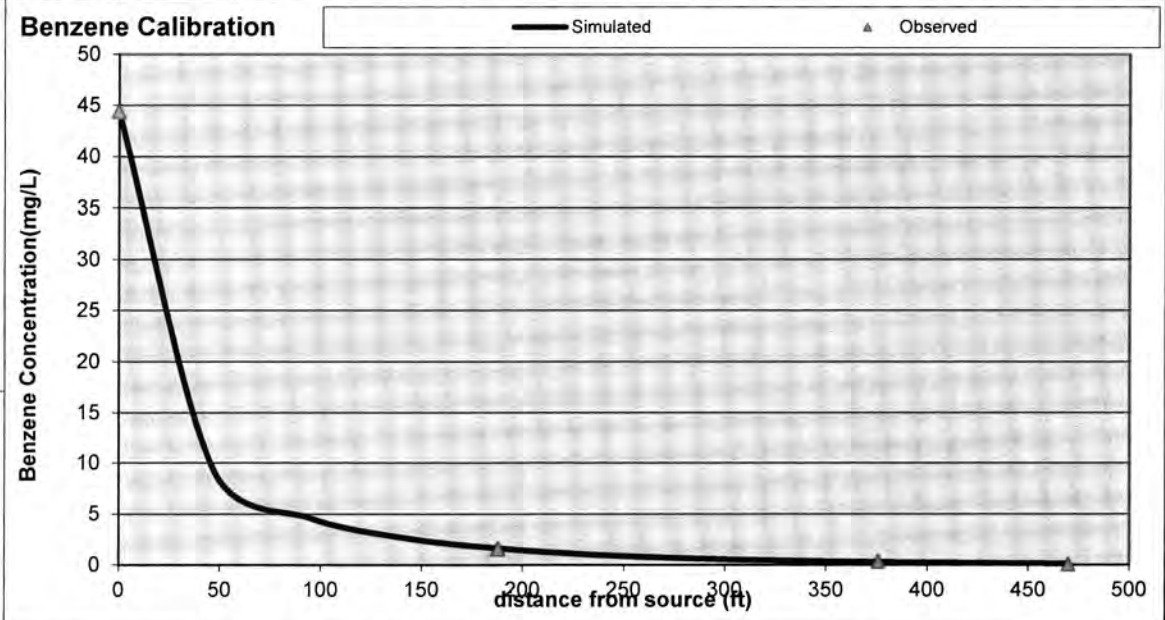
$\lambda$ 0.53308 $yr^{-1}$

$C_{source}$ 44.39 mg/L

$t_{sim}$ 40 yrs




| Source | 47 | 94 | 141 | 188 | 235 | 282 | 329 | 376 | 423 | 470 |
|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 0.00641507 | 0.11210756 | 0.21655688 | 0.24214722 | 0.21871393 | 0.1781287 | 0.137024 | 0.101847 | 0.074055 | 0.053059 |
| 25 | 1.52302438 | 1.83564836 | 1.41776013 | 0.99689879 | 0.68041279 | 0.4593814 | 0.308949 | 0.207577 | 0.139515 | 0.093856 |
| 0 | 9.3736436 | 4.65925463 | 2.65200249 | 1.59770179 | 0.99326693 | 0.6299664 | 0.405118 | 0.263182 | 0.172309 | 0.113508 |
| 25 | 1.52302438 | 1.83564836 | 1.41776013 | 0.99689879 | 0.68041279 | 0.4593814 | 0.308949 | 0.207577 | 0.139515 | 0.093856 |
| 50 | 0.00641507 | 0.11210756 | 0.21655688 | 0.24214722 | 0.21871393 | 0.1781287 | 0.137024 | 0.101847 | 0.074055 | 0.053059 |

## Toluene Calibration

### Spatial Calibration Data (centerline)

| x | $C_{obs}$ (mg/L) | $C_{sim}$ (mg/L) |
|---|---|---|
| 0 | 26.54 | 26.54 |
| 47 | | 4.322 |
| 94 | | 1.656 |
| 141 | | 0.727 |
| 188 | 0.314 | 0.338 |
| 235 | | 0.162 |
| 282 | | 0.079 |
| 329 | | 0.039 |
| 376 | 0.027 | 0.020 |
| 423 | | 0.010 |
| 470 | 0.005 | 0.005 |

### Temporal Calibration Data

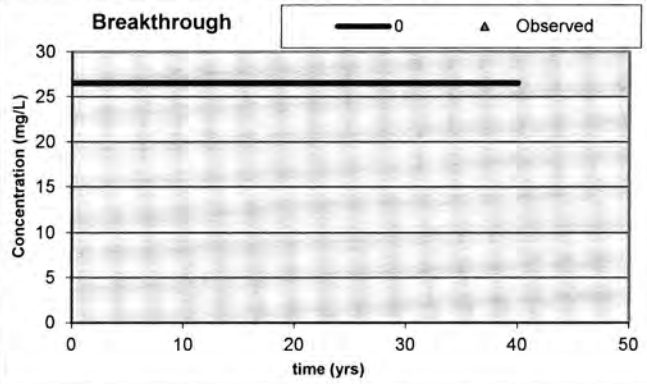
| | 0 | | 0 | |
|---|---|---|---|---|
| t (yrs) | $C_{obs}$ (mg/L) | $C_{sim}$ (mg/L) | $C_{obs}$ (mg/L) | $C_{sim}$ (mg/L) |
| 0 | | 26.54 | | 26.54 |
| 4 | | 26.540 | | 26.540 |
| 8 | | 26.540 | | 26.540 |
| 12 | | 26.540 | | 26.540 |
| 16 | | 26.540 | | 26.540 |
| 20 | | 26.540 | | 26.540 |
| 24 | | 26.540 | | 26.540 |
| 28 | | 26.540 | | 26.540 |
| 32 | | 26.540 | | 26.540 |
| 36 | | 26.540 | | 26.540 |
| 40 | | 26.540 | | 26.540 |

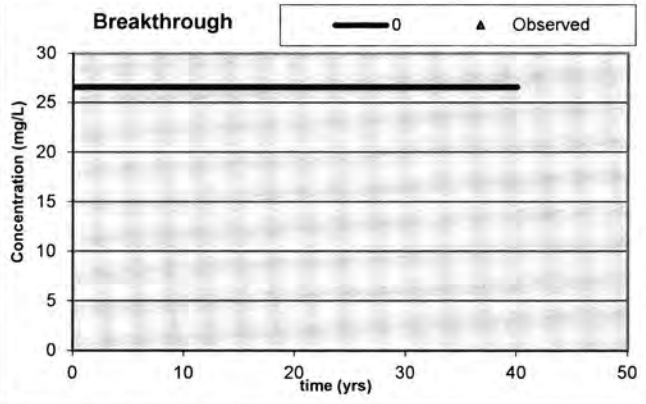
Site ID 18686

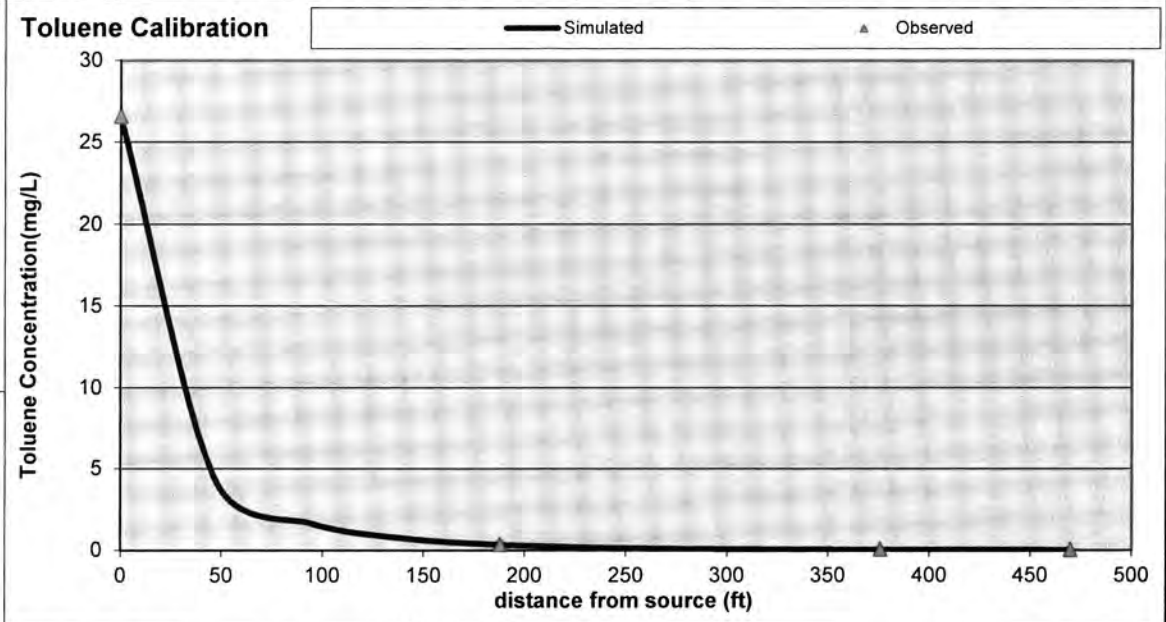
Site Name Tisdales Quick Stop

### Model Calibration Parameters

| | | | | | |
|---|---|---|---|---|---|
| $t_{1/2}$ | 0.75 | yrs | $\lambda$ | 0.924 | $yr^{-1}$ |
| $v_x$ | 68.03864 | ft/yr | | | |
| R | 1.206 | | | | |
| $v_R$ | 56.438 | ft/yr | $C_{source}$ | 26.54 | mg/L |
| $L_p$ | 470 | ft | | | |
| $\alpha_x$ | 17.39758 | ft | $t_{sim}$ | 40 | yrs |
| $\alpha_y$ | 1.739758 | ft | | | |
| $\alpha_z$ | 1E-99 | ft | | | |




| Source | 47 | 94 | 141 | 188 | 235 | 282 | 329 | 376 | 423 | 470 |
|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 0.00295762 | 0.03985666 | 0.05936945 | 0.05119124 | 0.03565477 | 0.0223924 | 0.013283 | 0.007613 | 0.004269 | 0.002358 |
| 25 | 0.70217881 | 0.65261259 | 0.38868144 | 0.21074982 | 0.11092098 | 0.0577484 | 0.029949 | 0.015517 | 0.008042 | 0.004172 |
| 0 | 4.32164711 | 1.65646552 | 0.72705116 | 0.33776283 | 0.1619225 | 0.0791924 | 0.039271 | 0.019673 | 0.009932 | 0.005045 |
| 25 | 0.70217881 | 0.65261259 | 0.38868144 | 0.21074982 | 0.11092098 | 0.0577484 | 0.029949 | 0.015517 | 0.008042 | 0.004172 |
| 50 | 0.00295762 | 0.03985666 | 0.05936945 | 0.05119124 | 0.03565477 | 0.0223924 | 0.013283 | 0.007613 | 0.004269 | 0.002358 |

## Ethylbenzene Calibration

### Spatial Calibration Data (centerline)

| x | $C_{obs}$ (mg/L) | $C_{sim}$ (mg/L) |
|---|---|---|
| 0 | 3.7 | 3.7 |
| 47 | | 0.725 |
| 94 | | 0.334 |
| 141 | | 0.177 |
| 188 | 0.108 | 0.099 |
| 235 | | 0.057 |
| 282 | | 0.033 |
| 329 | | 0.020 |
| 376 | 0.012 | 0.012 |
| 423 | | 0.007 |
| 470 | 0.005 | 0.004 |

### Temporal Calibration Data

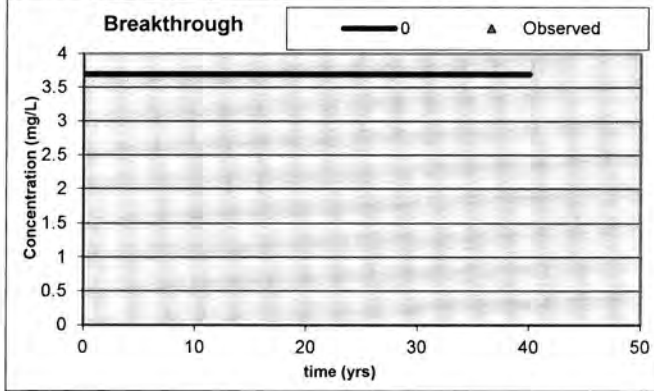
| t (yrs) | $C_{obs}$ (mg/L) | $C_{sim}$ (mg/L) | 0 $C_{obs}$ (mg/L) | 0 $C_{sim}$ (mg/L) |
|---|---|---|---|---|
| 0 | | 3.7 | | 3.7 |
| 4 | | 3.700 | | 3.700 |
| 8 | | 3.700 | | 3.700 |
| 12 | | 3.700 | | 3.700 |
| 16 | | 3.700 | | 3.700 |
| 20 | | 3.700 | | 3.700 |
| 24 | | 3.700 | | 3.700 |
| 28 | | 3.700 | | 3.700 |
| 32 | | 3.700 | | 3.700 |
| 36 | | 3.700 | | 3.700 |
| 40 | | 3.700 | | 3.700 |

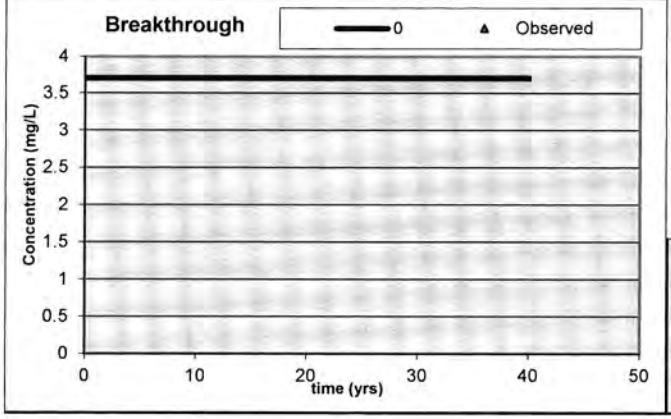
Site ID 18686

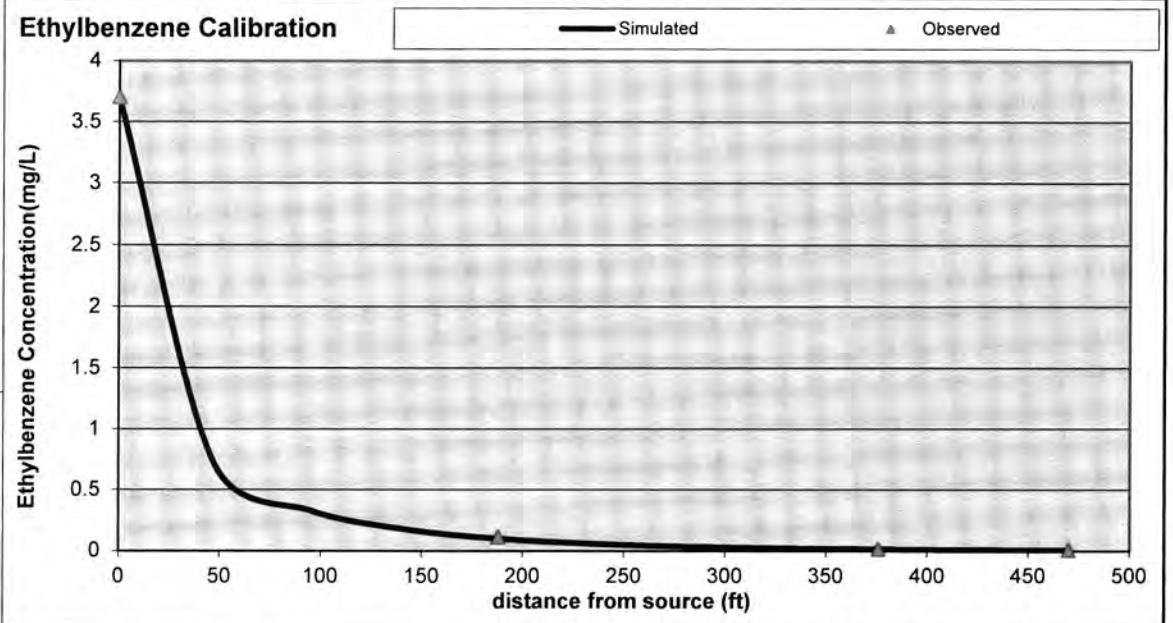
Site Name Tisdales Quick Stop

### Model Calibration Parameters

| | | | | | |
|---|---|---|---|---|---|
| $t_{1/2}$ | 1.19 | yrs | $\lambda$ | 0.58235 | $yr^{-1}$ |
| $v_x$ | 68.03864 | ft/yr | | | |
| R | 1.272 | | | | |
| $v_R$ | 53.489 | ft/yr | $C_{source}$ | 3.7 | mg/L |
| $L_p$ | 470 | ft | | | |
| $\alpha_x$ | 17.39758 | ft | $t_{sim}$ | 40 | yrs |
| $\alpha_y$ | 1.739758 | ft | | | |
| $\alpha_z$ | 1E-99 | ft | | | |




| Source | 47 | 94 | 141 | 188 | 235 | 282 | 329 | 376 | 423 | 470 |
|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 0.00049607 | 0.00804265 | 0.01441318 | 0.01495172 | 0.01252887 | 0.0094666 | 0.006756 | 0.004659 | 0.003143 | 0.002089 |
| 25 | 0.1177734 | 0.13169024 | 0.09436058 | 0.06155491 | 0.03897695 | 0.0244136 | 0.015232 | 0.009495 | 0.00592 | 0.003695 |
| 0 | 0.72485106 | 0.33425703 | 0.17650694 | 0.09865233 | 0.05689857 | 0.0334793 | 0.019974 | 0.012038 | 0.007312 | 0.004469 |
| 25 | 0.1177734 | 0.13169024 | 0.09436058 | 0.06155491 | 0.03897695 | 0.0244136 | 0.015232 | 0.009495 | 0.00592 | 0.003695 |
| 50 | 0.00049607 | 0.00804265 | 0.01441318 | 0.01495172 | 0.01252887 | 0.0094666 | 0.006756 | 0.004659 | 0.003143 | 0.002089 |

## Xylenes Calibration

### Spatial Calibration Data (centerline)

| x | $C_{obs}$ (mg/L) | $C_{sim}$ (mg/L) |
|---|---|---|
| 0 | 21.68 | 21.68 |
| 47 | | 3.601 |
| 94 | | 1.408 |
| 141 | | 0.631 |
| 188 | 0.298 | 0.299 |
| 235 | | 0.146 |
| 282 | | 0.073 |
| 329 | | 0.037 |
| 376 | 0.118 | 0.019 |
| 423 | | 0.010 |
| 470 | 0.003 | 0.005 |

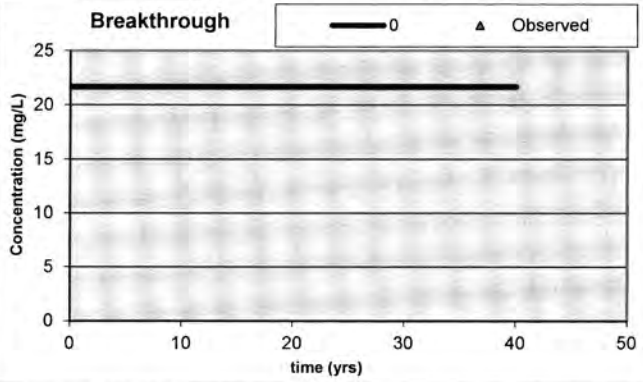
### Temporal Calibration Data

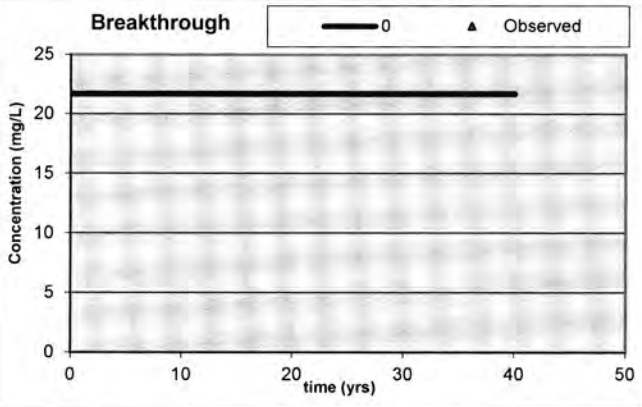
| t (yrs) | 0 $C_{obs}$ (mg/L) | 0 $C_{sim}$ (mg/L) | 0 $C_{obs}$ (mg/L) | 0 $C_{sim}$ (mg/L) |
|---|---|---|---|---|
| 0 | | 21.68 | | 21.68 |
| 4 | | 21.680 | | 21.680 |
| 8 | | 21.680 | | 21.680 |
| 12 | | 21.680 | | 21.680 |
| 16 | | 21.680 | | 21.680 |
| 20 | | 21.680 | | 21.680 |
| 24 | | 21.680 | | 21.680 |
| 28 | | 21.680 | | 21.680 |
| 32 | | 21.680 | | 21.680 |
| 36 | | 21.680 | | 21.680 |
| 40 | | 21.680 | | 21.680 |

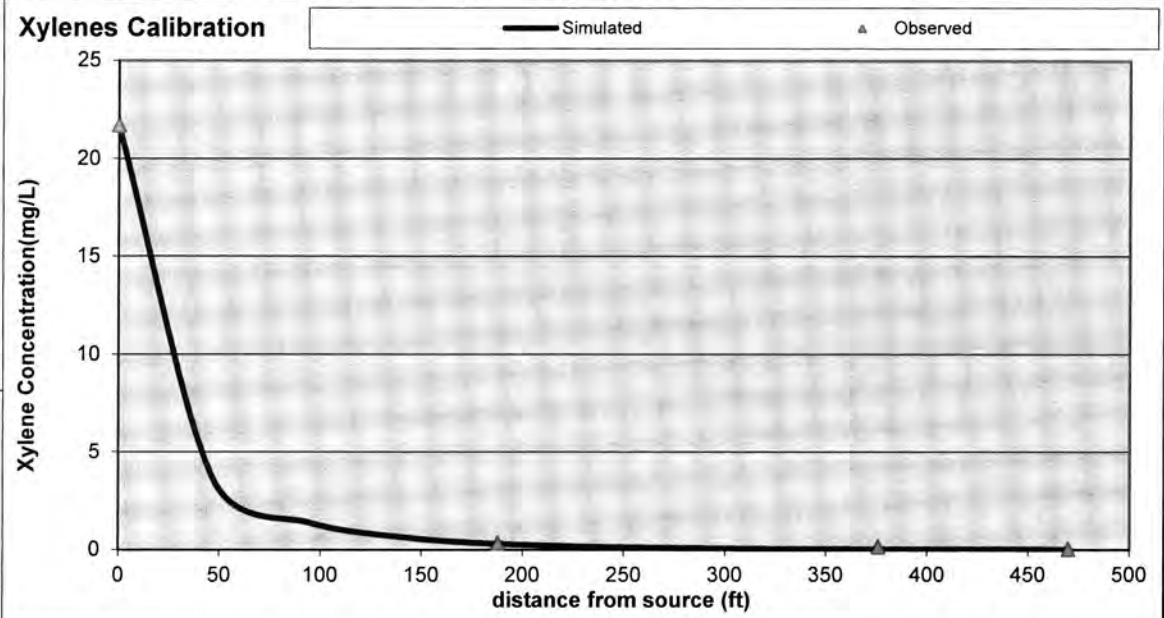
Site ID 18686
Site Name Tisdales Quick Stop

### Model Calibration Parameters

| | | | | | |
|---|---|---|---|---|---|
| $t_{1/2}$ | 1.285 | yrs | $\lambda$ | 0.5393 | $yr^{-1}$ |
| $v_x$ | 68.03864 | ft/yr | | | |
| R | 1.988 | | | | |
| $v_R$ | 34.232 | ft/yr | $C_{source}$ | 21.68 | mg/L |
| $L_p$ | 470 | ft | | | |
| $\alpha_x$ | 17.39758 | ft | $t_{sim}$ | 40 | yrs |
| $\alpha_y$ | 1.739758 | ft | | | |
| $\alpha_z$ | 1E-99 | ft | | | |




| Source | 47 | 94 | 141 | 188 | 235 | 282 | 329 | 376 | 423 | 470 |
|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 0.00246472 | 0.03388388 | 0.05148992 | 0.04529202 | 0.03218182 | 0.0206186 | 0.012477 | 0.007296 | 0.004173 | 0.002352 |
| 25 | 0.58515781 | 0.55481431 | 0.33709549 | 0.18646326 | 0.10011674 | 0.053174 | 0.028132 | 0.014869 | 0.007862 | 0.004161 |
| 0 | 3.60142676 | 1.40823331 | 0.63055665 | 0.29883945 | 0.14615046 | 0.0729195 | 0.036889 | 0.018852 | 0.00971 | 0.005032 |
| 25 | 0.58515781 | 0.55481431 | 0.33709549 | 0.18646326 | 0.10011674 | 0.053174 | 0.028132 | 0.014869 | 0.007862 | 0.004161 |
| 50 | 0.00246472 | 0.03388388 | 0.05148992 | 0.04529202 | 0.03218182 | 0.0206186 | 0.012477 | 0.007296 | 0.004173 | 0.002352 |

## Naphthalene Calibration

### Spatial Calibration Data (centerline)

| x | $C_{obs}$ (mg/L) | $C_{sim}$ (mg/L) |
|---|---|---|
| 0 | 6.7 | 6.7 |
| 47 | | 1.188 |
| 94 | | 0.495 |
| 141 | | 0.237 |
| 188 | 0.026 | 0.120 |
| 235 | | 0.062 |
| 282 | | 0.033 |
| 329 | | 0.018 |
| 376 | 0.01 | 0.010 |
| 423 | | 0.005 |
| 470 | 0.005 | 0.003 |

### Temporal Calibration Data

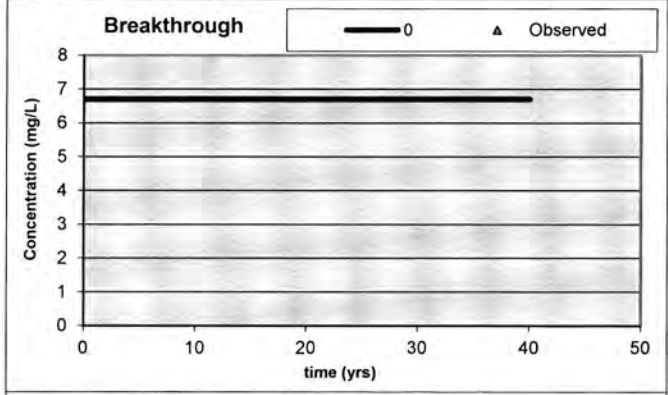
| | 0 | | 0 | |
|---|---|---|---|---|
| t (yrs) | $C_{obs}$ (mg/L) | $C_{sim}$ (mg/L) | $C_{obs}$ (mg/L) | $C_{sim}$ (mg/L) |
| 0 | | 6.7 | | 6.7 |
| 4 | | 6.700 | | 6.700 |
| 8 | | 6.700 | | 6.700 |
| 12 | | 6.700 | | 6.700 |
| 16 | | 6.700 | | 6.700 |
| 20 | | 6.700 | | 6.700 |
| 24 | | 6.700 | | 6.700 |
| 28 | | 6.700 | | 6.700 |
| 32 | | 6.700 | | 6.700 |
| 36 | | 6.700 | | 6.700 |
| 40 | | 6.700 | | 6.700 |

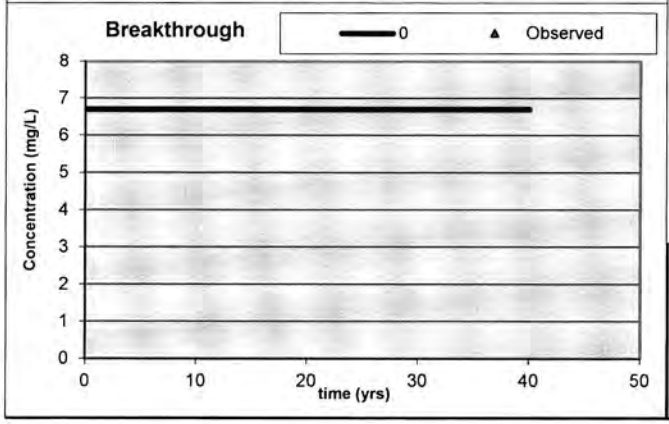
Site ID 18686

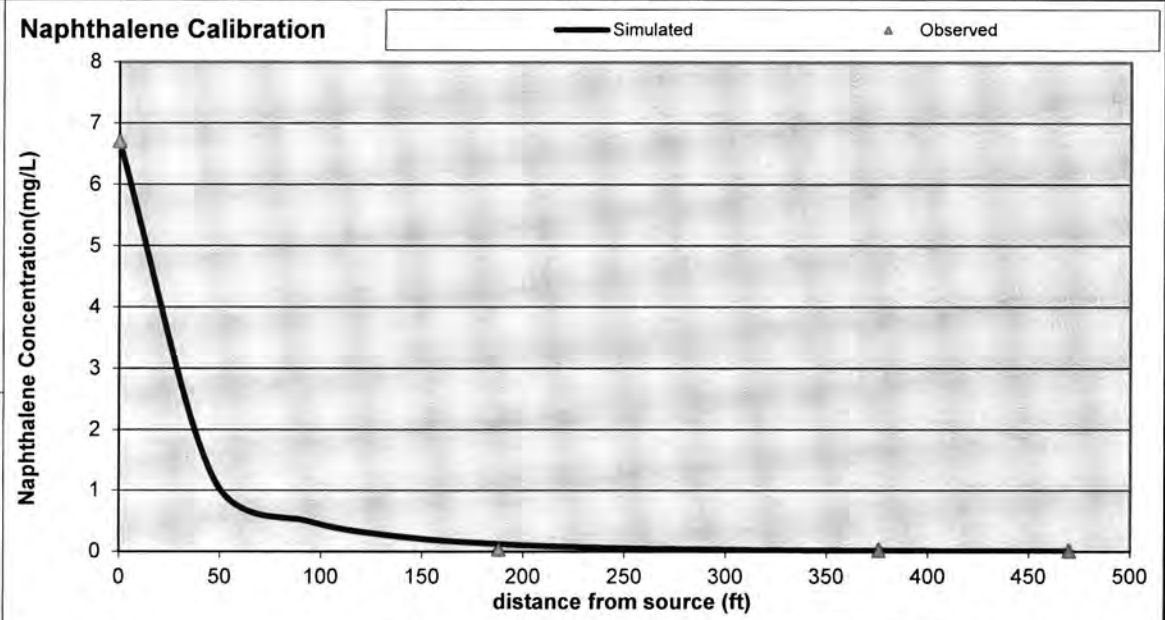
Site Name Tisdales Quick Stop

### Model Calibration Parameters

| | | | | | |
|---|---|---|---|---|---|
| $t_{1/2}$ | 2.5 | yrs | $\lambda$ | 0.2772 | $yr^{-1}$ |
| $v_x$ | 68.03864 | ft/yr | | | |
| R | 3.385 | | | | |
| $v_R$ | 20.102 | ft/yr | $C_{source}$ | 6.7 | mg/L |
| $L_p$ | 470 | ft | | | |
| $\alpha_x$ | 17.39758 | ft | $t_{sim}$ | 40 | yrs |
| $\alpha_y$ | 1.739758 | ft | | | |
| $\alpha_z$ | 1E-99 | ft | | | |




| Source | 47 | 94 | 141 | 188 | 235 | 282 | 329 | 376 | 423 | 470 |
|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 0.00081273 | 0.01192154 | 0.01932963 | 0.01814199 | 0.01375422 | 0.0094026 | 0.006071 | 0.003788 | 0.002312 | 0.00139 |
| 25 | 0.19295253 | 0.19520327 | 0.12654772 | 0.07468899 | 0.04278898 | 0.0242486 | 0.013688 | 0.00772 | 0.004355 | 0.002459 |
| 0 | 1.18755045 | 0.49546622 | 0.23671485 | 0.11970196 | 0.06246338 | 0.033253 | 0.017949 | 0.009788 | 0.005379 | 0.002974 |
| 25 | 0.19295253 | 0.19520327 | 0.12654772 | 0.07468899 | 0.04278898 | 0.0242486 | 0.013688 | 0.00772 | 0.004355 | 0.002459 |
| 50 | 0.00081273 | 0.01192154 | 0.01932963 | 0.01814199 | 0.01375422 | 0.0094026 | 0.006071 | 0.003788 | 0.002312 | 0.00139 |

## EDB Calibration

### Spatial Calibration Data (centerline)

| x | $C_{obs}$ (mg/L) | $C_{sim}$ (mg/L) |
|---|---|---|
| 0 | 1.9 | 1.90000 |
| 47 | | 0.05228 |
| 94 | | 0.00339 |
| 141 | | 0.00025 |
| 188 | 0.00002 | 0.00002 |
| 235 | | 0.00000 |
| 282 | | 0.00000 |
| 329 | | 0.00000 |
| 376 | 0.00002 | 0.00000 |
| 423 | | 0.00000 |
| 470 | 0.00002 | 0.00000 |

### Temporal Calibration Data

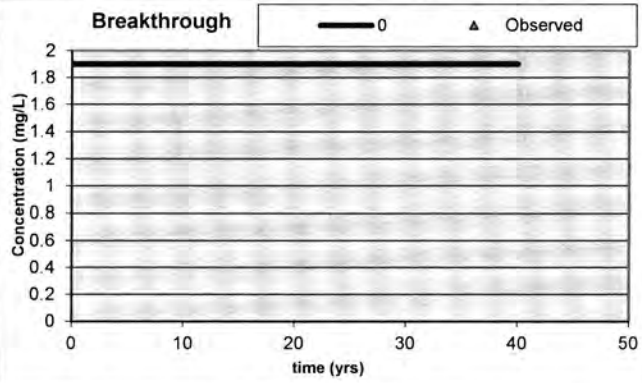
| t (yrs) | $C_{obs}$ (mg/L) | $C_{sim}$ (mg/L) | $C_{obs}$ (mg/L) | $C_{sim}$ (mg/L) |
|---|---|---|---|---|
| | 0 | | 0 | |
| 0 | | 1.90000 | | 1.90000 |
| 4 | | 1.90000 | | 1.90000 |
| 8 | | 1.90000 | | 1.90000 |
| 12 | | 1.90000 | | 1.90000 |
| 16 | | 1.90000 | | 1.90000 |
| 20 | | 1.90000 | | 1.90000 |
| 24 | | 1.90000 | | 1.90000 |
| 28 | | 1.90000 | | 1.90000 |
| 32 | | 1.90000 | | 1.90000 |
| 36 | | 1.90000 | | 1.90000 |
| 40 | | 1.90000 | | 1.90000 |

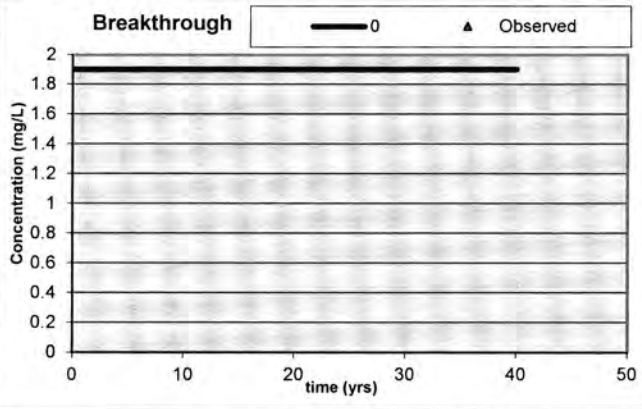
Site ID 18686

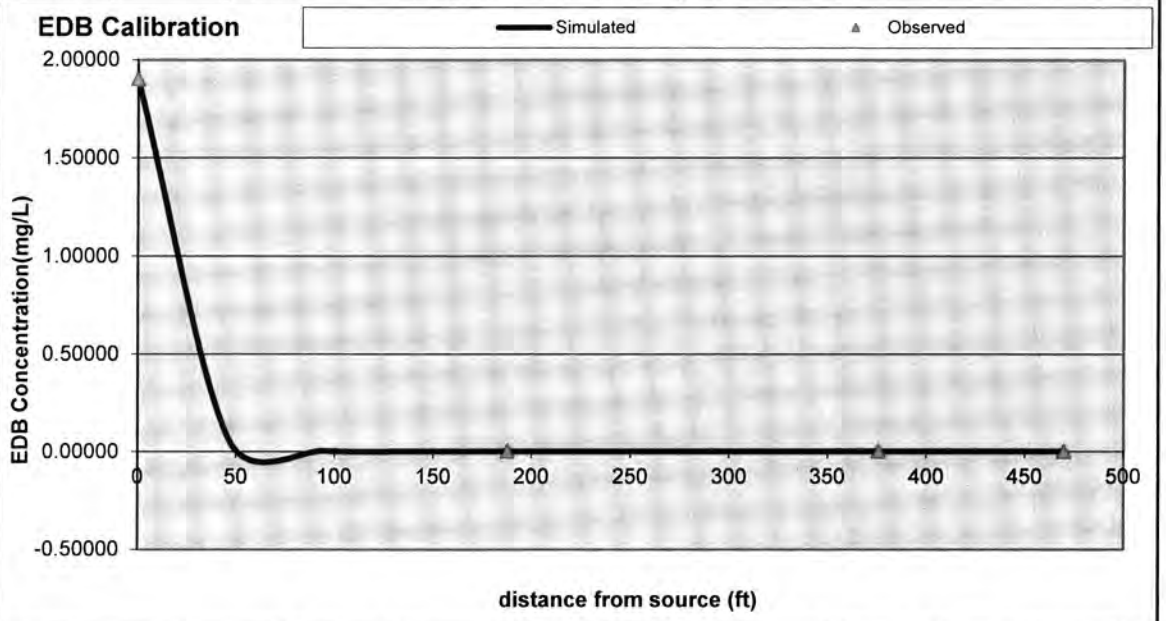
Site Name Tisdales Quick Stop

### Model Calibration Parameters

| | | | | | |
|---|---|---|---|---|---|
| $t_{1/2}$ | 0.11 | yrs | $\lambda$ | 6.3 | $yr^{-1}$ |
| $v_x$ | 68.03864 | ft/yr | | | |
| R | 1.043 | | | | |
| $v_R$ | 65.217 | ft/yr | $C_{source}$ | 1.9 | mg/L |
| $L_p$ | 470 | ft | | | |
| $\alpha_x$ | 17.39758 | ft | $t_{sim}$ | 40 | yrs |
| $\alpha_y$ | 1.739758 | ft | | | |
| $\alpha_z$ | 1E-99 | ft | | | |




| Source | 47 | 94 | 141 | 188 | 235 | 282 | 329 | 376 | 423 | 470 |
|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 3.5778E-05 | 8.147E-05 | 2.0506E-05 | 2.9877E-06 | 3.5163E-07 | 3.732E-08 | 3.74E-09 | 3.62E-10 | 3.43E-11 | 3.2E-12 |
| 25 | 0.00849421 | 0.00133399 | 0.00013425 | 1.23E-05 | 1.0939E-06 | 9.623E-08 | 8.43E-09 | 7.38E-10 | 6.47E-11 | 5.67E-12 |
| 0 | 0.05227867 | 0.00338595 | 0.00025112 | 1.9713E-05 | 1.5969E-06 | 1.32E-07 | 1.11E-08 | 9.36E-10 | 7.99E-11 | 6.85E-12 |
| 25 | 0.00849421 | 0.00133399 | 0.00013425 | 1.23E-05 | 1.0939E-06 | 9.623E-08 | 8.43E-09 | 7.38E-10 | 6.47E-11 | 5.67E-12 |
| 50 | 3.5778E-05 | 8.147E-05 | 2.0506E-05 | 2.9877E-06 | 3.5163E-07 | 3.732E-08 | 3.74E-09 | 3.62E-10 | 3.43E-11 | 3.2E-12 |

**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 | 0.00005 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MW # | x (ft) | y (ft) | z (ft) | Benzene SSTL | Toluene SSTL | Ethylbenzene SSTL | Xylenes SSTL | MtBE SSTL | Naphthalene SSTL | EDB SSTL | |
| MW-1 | 140 | 0 | 0 | 0.164 | 71.327 | 28.785 | 672.104 | 3.022 | 1.385 | 0.71175 | |
| MW-2 | 100 | 0 | 0 | 0.089 | 30.905 | 14.598 | 296.204 | 1.288 | 0.645 | 0.06791 | |
| MW-1A | 275 | 0 | 0 | 0.885 | 810.092 | 192.221 | 7208.147 | 36.279 | 12.331 | 1335.25345 | |
| MW-2A | 250 | 0 | 0 | 0.666 | 530.414 | 138.865 | 4769.954 | 23.511 | 8.446 | 339.55610 | |
| MW-4A | 200 | 0 | 0 | 0.365 | 220.801 | 70.372 | 2028.242 | 9.588 | 3.848 | 21.32219 | |
| MW-16R | 275 | 0 | 0 | 0.885 | 810.092 | 192.221 | 7208.147 | 36.279 | 12.331 | 1335.25345 | |
| MW-23 | 100 | 0 | 0 | 0.089 | 30.905 | 14.598 | 296.204 | 1.288 | 0.645 | 0.06791 | |
| | | | $\lambda$ ($yr^{-1}$): | 0.533 | 0.924 | 0.582 | 0.539 | 1.155 | 0.277 | 6.300 | |
| | | | R: | 1.125 | 1.206 | 1.272 | 1.988 | 1.000 | 3.385 | 1.043 | |
| | | | Pure Substance Solubility: | 1750 | 526 | 169 | 175 | 5110 | 31 | 4321 | |
| | | | Effective Solubility: | 44.39 | 26.54 | 3.7 | 21.68 | 173 | 6.7 | 1.9 | |

## Domenico Model (Oxygenates)

UST # 18686
Site Name: Tisdales Quick Stop
Modeler: Guinevere Brown
Date: 2/10/2025

### Groundwater Flow Parameters

| | | |
|---|---|---|
| K | 4,989.50 | ft/yr |
| dh/dx | 0.003 | |
| θ | 0.22 | dec. % |
| $v_x$ | 68.03863636 | ft/yr |

### Transport Parameters

| | | |
|---|---|---|
| $x_{max}$ | 540 | ft |
| $y_{max}$ | 50 | ft |
| z | 10 | ft |
| Source Width | 10 | ft |
| Source Thickness | 15 | ft |
| Plume Length | 540 | ft |
| $\alpha_x$ | 18.5953 | ft |
| $\alpha_y$ | 1.85953 | ft |
| $\alpha_z$ | 1.00E-99 | ft |

### Simulation Time

$t_{sim}$ 40 yrs

### Aquifer Characteristics

| | | |
|---|---|---|
| $\rho_d$ | 1.7 | kg/L |
| $f_{oc}$ | 0.0002 | |

### Source Area CoC Data

| CoC | $C_{source}$ (mg/L) | $K_{oc}$ (L/kg) |
|---|---|---|
| tBA | 24.3 | 1 |
| tAA | | 1 |
| DIPE | | 1.5 |
| tAME | | 1.5 |
| EtBE | | 1.5 |
| Ethanol | | 0.5 |

### Retarded Velocity (ft/yr)

| CoC | R | $v_R$ |
|---|---|---|
| tBA | 1.002 | 67.93 |
| tAA | 1.002 | 67.93 |
| DIPE | 1.002 | 67.88 |
| tAME | 1.002 | 67.88 |
| EtBE | 1.002 | 67.88 |
| Ethanol | 1.001 | 67.99 |

### Simulation Points for Breakthrough Curves

| | | |
|---|---|---|
| x | | ft |
| y | | ft |
| z | | ft |

| | | |
|---|---|---|
| x | | ft |
| y | | ft |
| z | | ft |

$$C(x,y,z,t) = \left(\frac{C_0}{8}\right)\exp\left[\left(\frac{x}{2\alpha_x}\right)\left(1-\sqrt{1+\frac{4\lambda\alpha_x}{v}}\right)\right] erfc\left[\frac{x-vt\sqrt{1+\frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}}\right]\left\{erf\left[\frac{y+\frac{Y}{2}}{2\sqrt{\alpha_y x}}\right]-erf\left[\frac{y-\frac{Y}{2}}{2\sqrt{\alpha_y x}}\right]\right\}\left\{erf\left[\frac{z+Z}{2\sqrt{\alpha_z x}}\right]-erf\left[\frac{z-Z}{2\sqrt{\alpha_z x}}\right]\right\}$$

## tAA Calibration

### Spatial Calibration Data (centerline)

| x | $C_{obs}$ (mg/L) | $C_{sim}$ (mg/L) |
|---|---|---|
| 0 | 24.3 | 24.3 |
| 54 | | 5.635 |
| 108 | | 3.385 |
| 162 | | 2.332 |
| 216 | | 1.701 |
| 270 | | 1.281 |
| 324 | | 0.984 |
| 378 | | 0.766 |
| 432 | | 0.603 |
| 486 | | 0.478 |
| 540 | 0.366 | 0.382 |

### Temporal Calibration Data

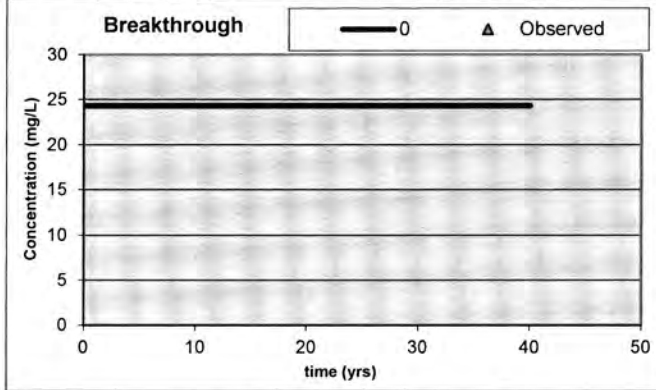
| | 0 | | 0 | |
|---|---|---|---|---|
| t (yrs) | $C_{obs}$ (mg/L) | $C_{sim}$ (mg/L) | $C_{obs}$ (mg/L) | $C_{sim}$ (mg/L) |
| 0 | | 24.3 | | 24.3 |
| 4 | | 24.300 | | 24.300 |
| 8 | | 24.300 | | 24.300 |
| 12 | | 24.300 | | 24.300 |
| 16 | | 24.300 | | 24.300 |
| 20 | | 24.300 | | 24.300 |
| 24 | | 24.300 | | 24.300 |
| 28 | | 24.300 | | 24.300 |
| 32 | | 24.300 | | 24.300 |
| 36 | | 24.300 | | 24.300 |
| 40 | | 24.300 | | 24.300 |

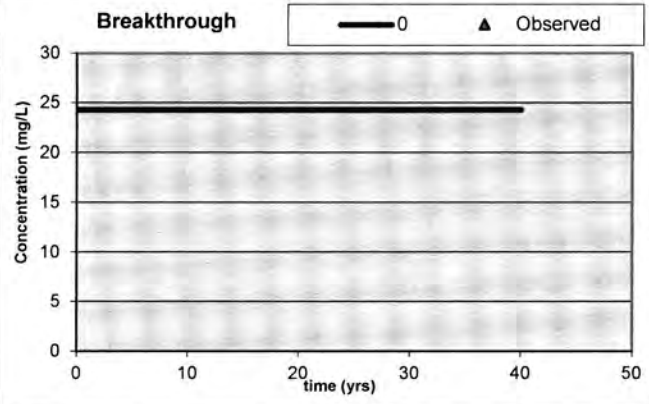
Site ID 18686

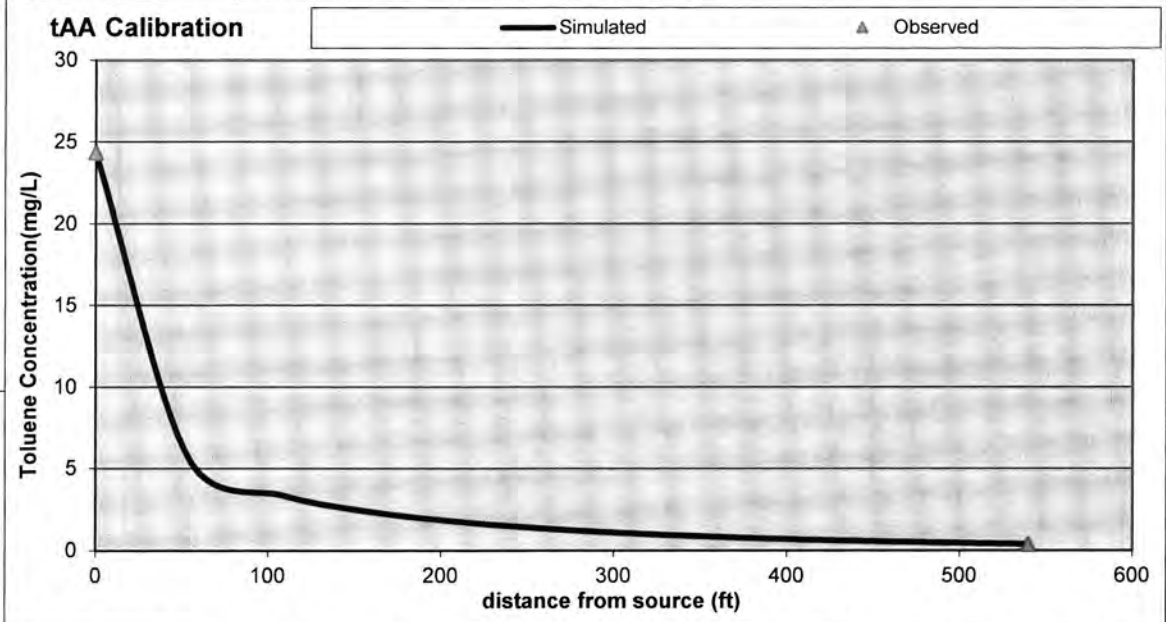
Site Name Tisdales Quick Stop

### Model Calibration Parameters

| | | | | | |
|---|---|---|---|---|---|
| $t_{1/2}$ | 3 | yrs | $\lambda$ | 0.231 | $yr^{-1}$ |
| $v_x$ | 68.03864 | ft/yr | | | |
| R | 1.002 | | | | |
| $v_R$ | 67.934 | ft/yr | $C_{source}$ | 24.3 | mg/L |
| $L_p$ | 540 | ft | | | |
| $\alpha_x$ | 18.5953 | ft | $t_{sim}$ | 40 | yrs |
| $\alpha_y$ | 1.85953 | ft | | | |
| $\alpha_z$ | 1E-99 | ft | | | |




| Source | 54 | 108 | 162 | 216 | 270 | 324 | 378 | 432 | 486 | 540 |
|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 0.01422479 | 0.16050537 | 0.3013442 | 0.36473852 | 0.37271837 | 0.35122 | 0.316668 | 0.278132 | 0.240282 | 0.205334 |
| 25 | 1.26581568 | 1.57990317 | 1.3983493 | 1.1577207 | 0.94081754 | 0.7605795 | 0.61449 | 0.497002 | 0.402667 | 0.326856 |
| 0 | 5.63523527 | 3.38525696 | 2.33229015 | 1.7013969 | 1.28098682 | 0.9840081 | 0.766451 | 0.603107 | 0.478286 | 0.38164 |
| 25 | 1.26581568 | 1.57990317 | 1.3983493 | 1.1577207 | 0.94081754 | 0.7605795 | 0.61449 | 0.497002 | 0.402667 | 0.326856 |
| 50 | 0.01422479 | 0.16050537 | 0.3013442 | 0.36473852 | 0.37271837 | 0.35122 | 0.316668 | 0.278132 | 0.240282 | 0.205334 |

**SSTLs** t 1000 yrs

UST Permit # 18686
Site Name: Tisdales Quic

| *SSTLs in mg/L* | | RBSLs (mg/L): | | | 0.240 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| MW # | x (ft) | y (ft) | z (ft) | | tAA SSTL | | | | |
| MW-1 | 140 | | | | 2.168 | | | | |
| MW-2 | 100 | | | | 1.617 | | | | |
| MW-1A | 275 | | | | 4.669 | | | | |
| MW-2A | 250 | | | | 4.110 | | | | |
| MW-4A | 200 | | | | 3.135 | | | | |
| MW-16R | 275 | | | | 4.669 | | | | |
| MW-23 | 100 | | | | 1.617 | | | | |