D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

MAR 0 6 2009

MS DIANA MCMAHAN PERSONAL REPRESENTATIVE
ESTATE OF DONALD E MCGILL
4520 DERRCLARE BLANE LN
EVANS GA 30809

Re: IGWA Directive
McGill Grocery, Flat Rock Road, Iva, SC
UST Permit #19440; Cost Agreement #35406; MWA #UMW-22558
Release reported November 20, 2008
Assessment report received November 20, 2008
Anderson County

Dear Ms. McMahan:

The Underground Storage Tank Program of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the referenced report. The report indicates that chemicals of concern are present in the groundwater at concentrations that exceed risk-based screening levels (RBSLs). To determine what risk the chemicals may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of the scope of work as outlined in the Initial Groundwater Assessment (IGWA) document is necessary. The IGWA document and appendices may be obtained from our website at http://www.scdhec.gov/environment/lwm/html/ust_guidance_docs.htm. The IGWA well should be installed in the vicinity of the former UST basin.

Our records indicate that a contractor has not been selected to perform assessment activities at this facility. Please indicate your choice of contractor on the enclosed Owner/Operator Information Sheet. The enclosed form should be completed and returned to the Program to my attention within **fifteen days** of the date of this letter. **Please be aware that the release cannot be qualified for SUPERB and SUPERB funds cannot be expended for site rehabilitation until the UST system is determined to have been in substantial compliance at the time of the release and a completed SUPERB application is on-file with the Program.**

According to Program records, the release at the facility was reported to SCDHEC on January 28, 2009. In accordance with Section 44-2-40(D) of the SUPERB Act, Estate of Donald McGill is responsible for the first $25,000 of site rehabilitation costs. To insure that expenditures made toward rehabilitation apply to the $25,000 deductible if the referenced release becomes qualified, the Program has pre-approved costs for implementing the IGWA and assigned a cost agreement number for tracking. By law, the SUPERB Account cannot compensate any costs that are not pre-approved.

The Program has pre-approved a total of $1,545.00 for implementation of the IGWA. The total includes costs for completion of up to 25 feet of permanent monitoring well footage. Additional monitoring well footage can be billed at the SUPERB allowable rate of $38 per foot provided that the cost is pre-approved by the Program. Upon receipt of a report of findings, and a completed IGWA invoice with all necessary supporting documentation, up to $1,545.00 will be applied towards the $25,000 deductible. Please note that in addition to the sample analyses required in the IGWA Guidance Document, all initial assessment activities are now required to include analyses for EDB (by EPA Method 8011) and lead as directed in the February 1, 2006 SUPERB Allowable Costs Document. The report and invoice should be submitted to the Program within 60 days of the date of this correspondence.

UST DOCKET

Please note that in accordance with R.61-92, Subpart H, Section 280.114, you are required to notify the Program by certified mail within ten (10) days of commencing a voluntary or involuntary proceeding in bankruptcy. State law also requires that an owner/operator or guarantor that files for bankruptcy protection must immediately submit appropriate forms documenting that entity's ability to demonstrate financial responsibility.

Implementation of the IGWA may proceed immediately upon receipt of this correspondence. Approval to install one permanent monitoring well is enclosed. Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Also note that only EPA Method 8260B will be accepted for analysis of volatile organic hydrocarbons. Any site rehabilitation activity associated with the UST release must be performed by an SCDHEC-certified site rehabilitation contractor as required by R.61-98. A list of certified contractors is enclosed for your convenience.

The Department 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 COC concentrations based on laboratory analysis is below RBSLs, please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence regarding this site, please reference UST Permit #19141. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 896-6669, fax me at (803) 896-6245, or e-mail me at shradeaa@dhec.sc.gov.

Sincerely,

Arthur Shrader, Hydrogeologist
Assessment Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Approved Cost Agreement (ACA)
Monitoring Well Approval (MWA)
Owner/Operator Lead Information Form
Certified Contractors List

cc: Phillips Recoveries Inc., 508 Cherokee Rd, Pelzer, SC 29669 (without enc).
Technical file (with ACA and MWA)

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

Monitoring Well Approval

Approval is hereby granted to: NSS Incorporated
Facility: McGill Grocery, Flat Rock Road, Iva, SC
UST Permit Number: 19440
County: Anderson

This approval is for the installation of one groundwater monitoring well. The monitoring well is to be installed in the approved location. The monitoring well is 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 Department shall be completed and submitted to the Department within 30 days after well completion or abandonment unless another schedule has been approved by the Department. 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 Department within 30 days of receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.d.
5. If any of the information provided to the Department changes, notification to the Arthur Shrader (tel: 803-896-6669 or e-mail: shradeaa@dhec.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. Departmental 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 April 26, 2002. A copy of this approval should be on the site during well installation.

Date of Issuance: **February 12, 2009** **Approval #:** **UMW-22558**

Arthur Shrader, Hydrogeologist
Assessment Section
Division of Assessment and Corrective Action
Bureau of Land and Waste Management

Approved Cost Agreement 35406

Facility: 19440 MCGILL GROCERY
SHRADEAA
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
21 INITIAL GROUNDWATER ASSESSMENT						
		IGWA		1.0000	1,545.00	1,545.00
			Total Amount			1,545.00

TIER II ASSESSMENT REPORT

McGill Grocery
Iva, South Carolina
SCDHEC SITE ID 19440
CA # 38471

Prepared By:

Midlands Environmental Consultants, Inc.
235-B Dooley Road, Lexington, SC 29073
(803) 808-2043 fax: 808-2048

August 9, 2010

MECI Project No. 10-2730

Midlands Environmental Consultants, Inc.

August 9, 2010

Mr. Arthur Shrader, Hydrogeologist
Assessment Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Tier II Assessment Report
McGill Grocery
Lake Secession Road
Iva, South Carolina
SCDHEC Site ID# 19440, CA# 38471
MECI Project Number 10-2730
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Shrader,

On Behalf of Ms. Diane McMahan, Representative for the Estate of Donald McGill, Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Tier II Report for the referenced site. This report describes assessment activities conducted at the site and results of a Tier II Risk Based Corrective Action Evaluation in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Jeff L. Coleman
Senior Scientist

Bryan T. Shane, P.G.
Principal Geologist

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • Fax: (803) 808-2048

TABLE OF CONTENTS

1.0 PROJECT INFORMATION **1**

2.0 POTENTIAL RECEPTOR SURVEY **1**

2.1 SURROUNDING PROPERTY USAGE 2

3.0 AREA GEOLOGY AND HYDROGEOLOGY **3**

3.1 LOCAL SUBSURFACE CONDITIONS 4

4.0 FIELD EXPLORATION **4**

4.1 DIRECT PUSH GROUNDWATER FIELD SCREENING 5
4.2 MONITORING WELL INSTALLATION 6
4.3 MONITORING WELL SAMPLING AND CHEMICAL ANALYSES 7
4.4 WATER SUPPLY WELL SAMPLING AND CHEMICAL ANALYSES 9
4.5 INFLOW PERMEABILITY TESTS 10

5.0 TEST RESULTS AND EVALUATION **10**

5.1 GROUNDWATER ANALYTICAL RESULTS 10
5.2 WATER SUPPLY WELL ANALYTICAL RESULTS 10
5.3 HYDRAULIC CONDUCTIVITY 11
5.4 GROUNDWATER MOVEMENT 11

6.0 ASSESSMENT SUMMARY **12**

7.0 RECOMMENDATIONS AND CLASSIFICATION **13**

8.0 QUALIFICATIONS OF REPORT **14**

TABLE OF CONTENTS (cont.)

TABLES:

Table 1 - FIELD PARAMETERS
Table 2 - FIELD SCREENING ANALYTICAL RESULTS
Table 3 - GROUNDWATER ANALYTICAL RESULTS
Table 4 - GROUNDWATER ANALYTICAL RESULTS (OXYGENATES)
Table 5 - SITE CONCEPTUAL MODEL AND POSSIBLE EXPOSURE POINTS

FIGURES:

Figure 1 - SITE LOCATION
Figure 2 - RLS SURVEY
Figure 3 - SITE FEATURES
Figure 4 - GEOLOGIC CROSS SECTION A-A'
Figure 5 - GEOLOGIC CROSS SECTION B-B'
Figure 6 - GROUNDWATER CONTOUR MAP
Figure 7 - FIELD SCREENING TEST RESULTS
Figure 8 - FIELD SCREENING TEST RESULTS (PARTIALLY WEATHERED ROCK)
Figure 9 - TOTAL BTEX ISOPLETH MAP
Figure 9A - BENZENE ISOPLETH MAP
Figure 9B - TOLUENE ISOPLETH MAP
Figure 9C - ETHYLBENZENE ISOPLETH MAP
Figure 9D - TOTAL XYLENES ISOPLETH MAP
Figure 9E - NAPHTHALENE ISOPLETH MAP
Figure 9F - MTBE ISOPLETH MAP
Figure 9G -EDB ISOPLETH MAP

APPENDIX A - TEST BORING AND MONITORING WELL INSTALLATION RECORDS
APPENDIX B - ANALYTICAL RESULTS
APPENDIX C - INFLOW TEST CALCULATIONS
APPENDIX D - FIELD DATA INFORMATION SHEETS
WASTE DISPOSAL MANIFESTS

1.0 PROJECT INFORMATION

The subject site (McGill Grocery) is located near the intersection of Lake Secession Road and McGill Circle, Iva, Abbeville County, South Carolina (see Figure 1). The subject site consists of an approximately 18.05 acre parcel that is occupied by an abandoned gasoline service station, the remainder of the property is undeveloped and wooded. The property occupies both sides of Lake Secession Road. The subject site formerly maintained two 1,000-gallon gasoline underground storage tanks (UST'S). A release of petroleum product was reported on January 28, 2009. MECI conducted an Initial Groundwater Assessment (IGWA) in May of 2009. This assessment included the installation of one monitoring well, collection of soil samples, and collection of groundwater samples. MECI conducted a Tier I Assessment in July of 2009. This assessment included the installation of three monitoring wells, collection of soil samples, collection of groundwater samples, and aquifer slug tests. During the Tier I Assessment groundwater samples were collected from six water supply wells (WSW-1, WSW-4, WSW-5, WSW-6, WSW-7, and WSW-8). Analytical results indicate petroleum impact to water supply wells WSW-1 and WSW-7. MTBE was detected in WSW-1 at 16.1 micrograms per liter on July 28, 2009, and 3.9J micrograms per liter on August 07, 2009. MTBE was detected in WSW-7 at 2.2J micrograms per liter on July 28, 2009 and August 07, 2009.

The above project information is based on MECI field notes and SCDHEC files.

2.0 POTENTIAL RECEPTOR SURVEY

During the Tier II Assessment MECI personnel conducted a survey of potential receptors within a 1,000-foot radius of the site. During our reconnaissance, eight water supply wells were identified within our search radius. WSW-1 is a potable water supply well located approximately 580 feet to the southwest of MW-1, on property currently owned by the Abbeville County Fire Commission (Abbeville County Tax Map# 042-00-00-275). This water supply well is cased to a depth of 80.0 BGS and completed to a depth of 305.0 feet BGS (This information was obtained well tag on the casing of the water supply well). The property is currently occupied by McGill Volunteer Fire Department. WSW-2 is a potable water supply well located 1,068 feet north of the subject site at 2955 Lake Secession Road on property owned by Wilson Creek Church (Abbeville County Tax Map # 045-00-00-079). WSW-4 is a residential water supply well located 630 northeast of the subject site at 2938 Lake Secession Road on property owned by Wallace D. Moore (Abbeville County Tax Map

045-00-00-080). WSW-5 is a residential water supply well located 1,275 feet northeast of the subject site at 2960 Lake Secession Road on property owned by Marvin L. Crawley (Abbeville County Tax Map # 045-00-00-278). WSW-6 is a residential water supply well located 531 feet south of MW-1 at 2784 Lake Secession Road on property owned by Doris Holland (Abbeville County Tax Map # 045-00-00-083). WSW-7 is a residential water supply well located 532 feet southwest of MW-1 at 2801 Lake Secession Road on property owned by Ida R. Adams (Abbeville County Tax Map # 045-00-00-085). WSW-8 is a residential water supply well located 977 feet northeast of the subject site at 41 McGill Circle on property owned by Marshall Marietta Bradford (Abbeville County Tax Map # 045-00-00-276). WSW-9 is a open bored well located 580 feet southwest of MW-1 on Lake Secession Road on property owned by Donald E. McGill (Abbeville County Tax Map # 045-00-00-080). WSW-9 was located during drilling activities and is believed to have serviced the former McGill Grocery.

Telephone lines and buried electric were identified on and surrounding the site. Utilities at the site are buried approximately three to six feet below ground surface (BGS). Given the burial depth of the utilities and the depth to groundwater, it is unlikely that utilities would serve as receptors or preferential pathways. Two intermittent streams associated with Wilson Creek were identified within our search radius. The intermittent streams are approximately located 530 feet to the northwest, and approximately 1,040 feet to the southwest. Groundwater is generally flowing to the southwest toward an intermittent stream associated with Wilson Creek. The See Figure 2 and 3 for water supply well locations.

2.1 SURROUNDING PROPERTY USAGE

The site is located outside the town limits of Iva, Abbeville County, South Carolina. The site is located on Lake Secession Road near the intersection of McGill Circle and Lake Secession Road. The properties immediately surrounding the site are residential and wooded parcels. Lake Secession Road borders the site to the east, beyond which are residential properties. To the south of the subject site is the McGill Volunteer Fire Department, beyond which is a residential property. To the north of the subject site is Wilson Creek Second Baptist Church, beyond which are residential properties. West of the subject site is wooded, beyond which is Wilson Creek.

3.0 AREA GEOLOGY AND HYDROGEOLOGY

The mean elevation of the property, as depicted on the local USGS quadrangle (Antreville and Iva, SC), appears to be approximately 650 feet above sea level. The site is located in the Piedmont Physiographic Province of South Carolina, an area underlain by ancient igneous and metamorphic rocks. The soils in this province are generally residual soils that are underlain by rock at highly varying depths.

The soils encountered in this area are the product of in-place weathering of rocks similar to the rocks underlying the site. In areas not altered by erosion or disturbed by the activities of man, the typical residual soil profile consists of near surface clayey soils and underlying sandy silt and sand. The boundary between soil and rock is gradational. A transitional zone termed "weathered rock" is normally found overlying the parent bedrock. This zone is typically the most transmissive zone for groundwater movement. Consequently, the topography of the bedrock surface is uneven, even over short horizontal distances. It is not unusual to find lenses and boulders of hard rock and zones of weathered rock within the soil mantle well above the general bedrock level.

Local precipitation is the source of practically all of the groundwater in Abbeville County. A portion of the precipitation infiltrates into the ground and moves under the influence of gravity to the surficial aquifer. After the water has reached the surficial aquifer, the direction of movement is generally parallel to the hydraulic gradient. In the Piedmont Province, the slope of the surficial aquifer's surface under static conditions (no pumping interference) approximates the topography of an area. Thus, the movement of groundwater within the soil mantel is typically in the direction of the topographic slope. Local groundwater flow patterns may be affected by disturbed areas such as tank pits, utility trenches, building foundations, borings, wells, etc. Groundwater flow in fractured rock is often difficult to interpret due to the variability of fracture connectivity and orientation.

Locally, in the surficial aquifer, groundwater discharges into streams, lakes or springs where the groundwater table intersects lows occupied by these water bodies. The apparent direction (based on hydraulic gradient) of groundwater flow from the release is to the southwest toward, flowing toward an intermittent stream associated with Wilson Creek.

3.1 LOCAL SUBSURFACE CONDITIONS

Piedmont soils were encountered during drilling activities conducted at the site. The soils encountered in our borings generally consisted of sandy silt, silty sand, silty clay, clayey silt, and Partially weathered rock was encountered during the construction of monitoring wells MW-6, MW-8, MW-9, MW-19D, MW-20D, MW-21D, MW-22D, MW-23D, and MW-24D. Test Boring Records, which depict the materials encountered in each boring, are located in Appendix A.

Generalized subsurface conditions encountered in selected borings are illustrated in profile on Figures 4 and 5. The locations of the profile lines are shown on Figure 3.

On July 29, 2010 stabilized groundwater levels were measured in the surrounding monitoring wells. Depth to groundwater ranged from 35.99 to 63.49 feet below top of casing in the wells measured. The groundwater measurements are summarized in tabular form in Table 1 and on Figure 6. A groundwater contour map illustrating the groundwater flow direction at the site is also depicted on Figure 6. Groundwater levels may fluctuate several feet with seasonal and rainfall variations and with change in the water level of adjacent drainage features. Normally, the highest groundwater levels occur in late winter and spring. The lowest levels occur in late summer and fall.

The above descriptions provide a general summary of the subsurface conditions encountered. The attached Test Boring Records (Appendix A) contain detailed information recorded at each new monitoring well location. The Test Boring Records represent our interpretation of the field logs based on examination of the field samples. The lines designating the interfaces between various strata represent approximate boundaries, and the transition between strata may be gradational.

4.0 FIELD EXPLORATION

Field exploration conducted at the site included:

- field screening of groundwater collected from the site utilizing direct push techniques, temporary borings, and laboratory analysis of samples;
- hydrologic testing of selected monitoring wells;
- collection of soil samples from auger borings;
- construction and sampling of groundwater monitoring wells;

- sampling of eight nearby water supply wells; and,
- a comprehensive survey of subject site.

The monitoring well locations were selected based on the results of our field screening of groundwater samples, existing site conditions, estimated groundwater flow direction, and drilling accessibility. The field screening points are illustrated on Figures 7 and 8 and well locations are presented on Figures 2 and 3.

Following monitoring well installation, a comprehensive survey was conducted by Construction Support Services of Columbia, SC (Jay S. Joshi PLS# 14811) dated August 01, 2010 to locate the vertical and horizontal positions of the monitoring wells and relevant structures.

4.1 DIRECT PUSH GROUNDWATER FIELD SCREENING

From March 24 through June 2, 2010, fifty seven direct push field screening locations (GPW-1 through GPW-57) were advanced at the site to collect groundwater samples. These borings were advanced by Geologic Exploration, Inc. (Geologic) of Statesville, North Carolina (S.C. Driller Certification: Brian Cornell #C 01299). The sampling depth for each location was based on the water table depth, the yield of the water bearing zone as evidenced by flow of water into the direct push apparatus, and the ability to reach the desired depth below ground surface. Direct push samples were collected from the shallowest water bearing zone with the exception of those collected to determine the vertical extent of contamination. Due to direct push apparatus and encountering refusal during borings, samples were taken at the shallowest water bearing zone.

From June 21 through 23, 2010 sixteen temporary borings (GPW-58 through GPW-73) were advanced at the site to collect groundwater samples. These borings were advanced by Geologic Exploration, Inc. (Geologic) of Statesville, North Carolina (S.C. Driller Certification: Nicholas Hayes #D 01929). Due to the low yield of the formation, temporary well points were installed using slotted ¾-inch PVC pipe to allow for sample collection. Temporary well points were utilized to screen the groundwater in partially weathered rock.

The total footage for the direct push/temporary borings was 4,262 feet. The sample locations are presented on Figure 7 and 8 (partially weathered rock). To prevent cross-contamination between borings the reusable down-hole portion of the direct push sampling device and augers were cleaned

between borings. New Teflon tubing and slotted ¾-inch PVC pipe was utilized at each location. Following the collection of the groundwater samples, the hole left open by the direct push sampling device/temporary borings was abandoned with a bentonite/portland grout slurry.

The groundwater samples obtained were transported to Pace Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006) for analysis for BTEX, naphthalene, and methyl-tertiary butyl ether (EPA Method 8260B). Analytical results for laboratory samples collected from the direct push borings are summarized in Table 2 and laboratory reports are included in Appendix B.

4.2 MONITORING WELL INSTALLATION

From June 15 to July 21, 2010, twenty (20) monitoring wells were installed at the site. These wells were installed by Geologic Exploration, Inc., of Statesville, North Carolina (S.C. Driller Certification: Jason Mantak B# 01494, Jerry Watkins B# 01979, and Johnny Burr D# 01740.) Watertable bracketing monitoring wells MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-17, and MW-18 were installed as single cased watertable bracketing monitoring wells.

Monitoring wells MW-19D, MW-20D, MW-21D, MW-22D, MW-23D, and MW-24D were installed as doubled cased "Deep" monitoring wells. During construction, a 6 ¼-inch outer casing was advanced to the desired depth and grouted in-place. The grout was allowed to cure and the remainder of the depth of the borehole was achieved using air-rotary techniques. Monitoring well MW-19D was cased to a depth of 64.0 feet BGS. Monitoring wells MW-20D, MW-21D, MW-22D, and MW-23D were cased to a depth of 65.0 feet BGS. Monitoring well MW-24D was cased to a depth of 54.0 feet BGS.

Monitoring well MW-19D was completed to a depth of 70.0 feet BGS. Monitoring well MW-20D was completed to a depth of 67.0 feet BGS. Monitoring well MW-21D was completed to a depth of 83.0 feet BGS. Monitoring wells MW-22D and MW-23D were completed to a depth of 100.0 feet BGS. Monitoring well MW-24D was completed to a depth of 75.0 feet BGS. Monitoring wells MW-19D, MW-20D, MW-21D, and MW-24D were set on top of the component bedrock. During drilling activities monitoring wells MW-22D and MW-23D did not encounter rock, and were set to the desired depth. All "Deep" monitoring wells utilize five foot screens, with the exception of MW-20D which utilizes a two foot screen. The following table presents well installation details:

Well Number	Single Cased	Double Cased	Screened Interval (ft)	Total Depth (ft)
MW-5	X		35.0-45.0	45.0
MW-6	X		43.0-53.0	53.0
MW-7	X		40.0-50.0	50.0
MW-8	X		39.0-49.0	49.0
MW-9	X		41.0-51.0	51.0
MW-10	X		40.0-50.0	50.0
MW-11	X		40.0-50.0	50.0
MW-12	X		50.0-60.0	60.0
MW-13	X		50.0-60.0	60.0
MW-14	X		49.0-59.0	59.0
MW-15	X		45.0-55.0	55.0
MW-16	X		45.0-55.0	55.0
MW-17	X		45.0-55.0	55.0
MW-18	X		35.0-45.0	45.0
MW-19D		X	65.0-70.0	70.0
MW-20D		X	65.0-67.0	67.0
MW-21D		X	78.0-83.0	83.0
MW-22D		X	95.0-100.0	100.0
MW-23D		X	95.0-100.0	100.0
MW-24D		X	70.0-75.0	75.0

Soil samples were collected from drill cuttings produced during the installation of monitoring wells MW-11 and MW-21D were analyzed for grain size/hydrometer. The results of the laboratory analyses are presented in the Appendix B.

Drill cuttings were containerized and transported to Waste Management/Richland County Landfill in Elgin, SC and Greenwood County Landfill in Greenwood, SC by MECI. A total of 4.11 tons was disposed of in this manner. Disposal manifests for these soils is attached at the end of this report.

Following completion of the monitoring wells, the wells were developed by bailing until they were determined to be functioning properly and turbidity was reduced. The development water was drummed and treated on-site by MECI utilizing a granulated activated carbon filtration system. Test Boring Records showing soil descriptions and monitoring well installation details are also provided in Appendix A. A disposal manifest for the drummed purge water is attached at the end of this report.

4.3 MONITORING WELL SAMPLING AND CHEMICAL ANALYSES

On July 28, 2010, MECI personnel collected groundwater samples from twenty four (24) monitoring wells at the subject site. Newly installed monitoring wells and pre-existing monitoring wells which

did not bracket the watertable were purged prior to sample collection. Purging was completed by bailing at least three well volumes of water from the well or until all water was evacuated from the well. Field measurements of pH, conductivity, dissolved oxygen, dissolved carbon dioxide, and water temperature were obtained before and during the well sampling process. Table 1 presents the results of the field measurements obtained. The wells were sampled in accordance with SCDHEC guidelines. The following sampling matrix summarizes well development and requested analyses for each monitoring well:

Monitoring Well	Purge	No Purge	Not Sampled	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	Sulfate (EPA Method 375.2)	Nitrate (EPA Method 335.2)	Methane (RSK Method)	PAH's (EPA Method 8270)	Trimethylbenzene (EPA Method 8260B)	Ferrous Iron (Field Test)
				Analyte Sampled										
MW-1		X		X	X	X	X	X						
MW-2		X		X	X	X	X	X						
MW-3		X		X	X	X	X	X						
MW-4		X		X	X	X	X	X						
MW-5	X			X	X	X	X	X						
MW-6	X			X	X	X	X	X						
MW-7	X			X	X	X	X	X						
MW-8	X			X	X	X	X	X						
MW-9	X			X	X	X	X	X						
MW-10	X			X	X	X	X	X						
MW-11	X			X	X	X	X	X						
MW-12	X			X	X	X	X	X						
MW-13	X			X	X	X	X	X						
MW-14	X			X	X	X	X	X						
MW-15	X			X	X	X	X	X						
MW-16	X			X	X	X	X	X						
MW-17	X			X	X	X	X	X						
MW-18	X			X	X	X	X	X						
MW-19	X			X	X	X	X	X						
MW-20D	X			X	X	X	X	X						
MW-21D	X			X	X	X	X	X						
MW-22D	X			X	X	X	X	X						
MW-23D	X			X	X	X	X	X						
MW-24D	X			X	X	X	X	X						

Notes: BTEX = benzene, toluene, ethylbenzene, & total xylenes MTBE=methyl tertiary butyl ether 1,2 DCA = 1,2 dicloroethane
PAH = polycyclic aromatic hydrocarbons

Groundwater samples obtained were sent to Pace Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006) for analysis. The results of the laboratory analyses are discussed in Section 5.1, summarized in Table 3 & 4, and presented in Appendix B.

The drummed purge water was treated on-site by MECI personnel utilizing an activated carbon drum. A total of 95.0 gallons (2 drums) of purge/development water were disposed of in this manner. A disposal manifest for the drummed purge water is attached at the end of this report.

4.4 WATER SUPPLY WELL SAMPLING AND CHEMICAL ANALYSES

On July 28, 2010, MECI personnel sampled WSW-1, WSW-2, WSW-4, WSW-5, WSW-6, WSW-7, WSW-8, and WSW-9. WSW-1 is located approximately 580 feet to the southwest of MW-1. WSW-1 is potable water supply well located at 2797 Lake Secession Road on a property currently owned by Abbeville county Fire Commission (Abbeville County Tax Map # 042-00-00-275). WSW-2 is a potable water supply well located 1,068 feet north of the subject site at 2955 Lake Secession Road on the property owned by Wilson Creek Church (Abbeville County Tax Map # 045-00-00-079). WSW-4 is a residential water supply well located 630 northeast of the subject site at 2938 Lake Secession Road on the property owned by Wallace D. Moore (Abbeville County Tax Map # 045-00-00-080). WSW-5 is a residential water supply well located 1,275 feet northeast of the subject site at 2960 Lake Secession Road on the property owned by Marvin L. Crawley (Abbeville County Tax Map # 045-00-00-278). WSW-6 is a residential water supply well located 531 feet south of MW-1 at 2784 Lake Secession Road on the property owned by Doris Holland (Abbeville County Tax Map # 045-00-00-083). WSW-7 is a residential water supply well located 532 feet southwest of MW-1 at 2801 Lake Secession Road on the property owned by Ira R. Adams (Abbeville County Tax Map # 045-00-00-085). WSW-8 is a residential water supply well located 977 feet northeast of the subject site at 41 McGill Circle on the property owned by Marshall Marietta Bradford (Abbeville County Tax Map # 045-00-00-276). WSW-9 is a residential water supply well located 580 feet southwest of MW-1 on Lake Secession Road on the property owned by Donald E. McGill (Abbeville County Tax Map # 045-00-00-080).

The samples obtained from WSW-1, WSW-2, WSW-4, WSW-5, WSW-6, WSW-7, WSW-8, and WSW-9 were analyzed for volatile organic compounds including BTEX, naphthalene, methyl-tertiary-butyl-ether (EPA Method 8260B), and EDB (EPA Method 8011). Results of the

laboratory analyses are discussed in Section 5.2 and summarized in Table 3. The analytical results are also presented in Appendix B.

4.5 INFLOW PERMEABILITY TESTS

Inflow permeability tests were performed on monitoring wells MW-11, MW-13, and MW-22D on July 28, 2010 and August 9, 2010 to estimate the hydraulic conductivity of the formation materials exposed to the well screen at each location. Inflow test methodology and calculations are included in Appendix C.

5.0 TEST RESULTS AND EVALUATION

The following sections discuss groundwater test results for the subject site.

5.1 GROUNDWATER ANALYTICAL RESULTS

As discussed in Section 4.3, groundwater samples obtained from the monitoring wells were analyzed for dissolved phase petroleum constituents. The analytical results indicate petroleum impact to the surficial aquifer, with the highest dissolved concentrations being detected in the area of the former dispenser islands and tank basin. The analytical results indicate dissolved Total BTEX concentrations ranged from levels below detection limits (BDL) to 156,040 micrograms per liter in MW-1. Dissolved Benzene concentrations range from levels below detection limits (BDL) to 6,300 micrograms per liter in MW-1. Dissolved Toluene concentrations range from levels below detection limits (BDL) to 117,000 micrograms per liter in MW-1. Dissolved Ethylbenzene concentrations range from levels below detection limits (BDL) to 3,740 micrograms per liter in MW-1. Dissolved Total Xylenes concentrations range from levels below detection limits (BDL) to 29,000 micrograms per liter in MW-1. Dissolved MTBE concentrations range from levels below detection limits (BDL) to 32,700 micrograms per liter in MW-2. Dissolved Naphthalene concentrations range from levels below detection limits (BDL) to 424 micrograms per liter in MW-3. Dissolved EDB concentrations range from levels below detection limits (BDL) to 1.9 micrograms per liter in MW-1.

The results of the analyses for each monitoring well and specific parameters are listed on Tables 3 & 4, and the detection limit for each parameter is provided in the laboratory reports (Appendix B).

5.2 WATER SUPPLY WELL ANALYTICAL RESULTS

The samples obtained from WSW-1, WSW-2, WSW-4, WSW-5, WSW-6, WSW-7, WSW-8, and WSW-9 were analyzed for petroleum constituents. The laboratory analytical results from the

groundwater samples obtained does not indicate petroleum impact to water supply wells WSW-2, WSW-4, WSW-5, WSW-6, and WSW-8. Analytical results indicate petroleum impact to water supply wells WSW-1, WSW-7, and WSW-9. Analytical results indicate MTBE concentrations at 2.2 micrograms per liter in WSW-1 and at 4.3 micrograms per liter in WSW-7. Analytical results indicate toluene concentrations at 0.72J micrograms per liter in WSW-9. The results of the analysis for these water supply wells and specific parameters are listed on Table 3, and the detection limits for each parameter are provided in the laboratory reports (Appendix B).

5.3 HYDRAULIC CONDUCTIVITY

Hydraulic gradient at the site was determined to be 1.74×10^{-2} ft/ft in the local aquifer based on data recorded during field testing. The average shallow zone hydraulic conductivity for the site was 2.41×10^{-5} cm/sec in the shallow aquifer. The test results are as follows:

Well Number	Type of Material Exposed to Screened Interval	Hydraulic Conductivity (K) (cm/sec)
MW-11	Silty SAND	2.47×10^{-5}
MW-13	Silty SAND	2.35×10^{-5}
MW-22D	Silty SAND	2.34×10^{-4}

Notes: Field tests were reduced and the hydraulic conductivities computed using Techniques described in NAVFAC Soil Mechanics Design Manual 7.1, May, 1982, MW-11 & MW-13 Condition A / MW-22D Condition C

5.4 GROUNDWATER MOVEMENT

Groundwater movement is often related to topography, lithology, and elevation of recharge and discharge areas and man-made influences. Referenced groundwater elevations were determined by measuring the top of the monitoring well casing relative to a nearby datum elevation (see Figure 2) measuring the water level in the monitoring well, and computing the reference elevation of the groundwater at the time of measurement. Groundwater levels typically fluctuate with seasonal and rainfall variations.

Directions of groundwater flow were interpolated between monitoring wells by comparing the groundwater elevations at those locations considering the factors listed above. Locally, in the surficial aquifer, groundwater discharges into streams, lakes or springs where the groundwater table intersects lows occupied by these water bodies.

Groundwater elevation data from the July 29, 2010 gauging event was plotted and a groundwater contour map of the surficial aquifer was prepared (see Figure 6). The data used to prepare the groundwater contour map (groundwater elevations in site monitoring wells) are summarized on Figure 6. Based on the difference in water levels from "deep" well MW-21D and the adjacent "shallow" monitoring well MW-11, there is strong downward vertical gradient component. This may indicate that the deeper zone is in recharge at this location.

The average hydraulic gradient at the site was computed to be approximately 1.74×10^{-2} ft/ft for the shallow aquifer. In addition to hydraulic gradients (i), the rates of groundwater movement (v) are a function of hydraulic conductivity (k) and effective porosity (ne), as indicated by the equation v = ki/ne. The effective porosity can be expected to be approximately twenty-five percent for Silty SAND. Based on those parameters, the average lateral groundwater movement in the shallow aquifer at the site can be expected to be approximately 1.73 feet per year. The rate of migration of the dissolved organic constituent(s), however, may be substantially slower than groundwater itself, due to retardation (Freeze and Cherry, 1979, pp. 402-408) and intrinsic aerobic biodegredation (Bucheck et. al., 1993). The hydraulic gradient and groundwater velocity calculations are provided in Appendix C.

6.0 ASSESSMENT SUMMARY

Based on the results of our assessment activities, it appears that impact to the surficial aquifer has occurred due to a release of petroleum hydrocarbons. The highest concentrations of dissolved phase contaminants appear to be located near the former dispenser islands and former tank basin. The contaminants appear to be gasoline range constituents. Impacted groundwater appears to be moving southwest and the plume appears to have moved off the subject property. Analytical results from three water supply wells (WSW-1, WSW-7, and WSW-9) indicate petroleum impact. Given the concentrations of MTBE detected in MW-22D (33.1 ug/l) and the MTBE impact to the down gradient water supply wells, there may be a possible migration into bedrock. Furthermore, though the monitoring well network defines the horizontal and vertical extent of petroleum constituents in relation to RBSL's, the plume has not been vertically defined in relation to dissolved MTBE into the potential rock interface.

The analytical results indicate dissolved Total BTEX concentrations ranged from levels below detection limits (BDL) to 156,040 micrograms per liter in MW-1. Dissolved Benzene concentrations

range from levels below detection limits (BDL) to 6,300 micrograms per liter in MW-1. Dissolved Toluene concentrations range from levels below detection limits (BDL) to 117,000 micrograms per liter in MW-1. Dissolved Ethylbenzene concentrations range from levels below detection limits (BDL) to 3,740 micrograms per liter in MW-1. Dissolved Total Xylenes concentrations range from levels below detection limits (BDL) to 29,000 micrograms per liter in MW-1. Dissolved MTBE concentrations range from levels below detection limits (BDL) to 32,700 micrograms per liter in MW-2. Dissolved Naphthalene concentrations range from levels below detection limits (BDL) to 424 micrograms per liter in MW-3. Dissolved EDB concentrations range from levels below detection limits (BDL) to 1.9 micrograms per liter in MW-1.

Figure 9 depicts graphically the concentrations of Total BTEX in the monitoring wells which bracket the watertable at the site. Figure 9A depicts graphically the concentrations of Benzene in the monitoring wells which bracket the watertable at the site. 9B depicts graphically the concentrations of Toluene in the monitoring wells which bracket the watertable at the site. Figure 9C depicts graphically the concentrations of Ethylbenzene in the monitoring wells which bracket the watertable at the site. Figure 9D depicts graphically the concentrations of Total Xylenes in the monitoring wells which bracket the watertable at the site. Figure 9E depicts graphically the concentrations of Naphthalene in the monitoring wells which bracket the watertable at the site. Figure 9F depicts graphically the concentrations of MTBE in the monitoring wells which bracket the watertable at the site. Figure 9G depicts graphically the concentrations of EDB in the monitoring wells which bracket the watertable at the site.

7.0 RECOMMENDATIONS AND CLASSIFICATION

Based on our Tier II Site Evaluation, corrective action appears necessary at the subject site. MECI recommends that the impacted soil in the area of the former UST basin be treated and that a groundwater remediation program be initiated to stem the off-site spread of dissolved phase petroleum product. The recommended remediation at the site should include the treatment of the source area groundwater to the SSTL's as developed by SCDHEC and the clean-up of the impacted soils associated with this release.

Based on the SCDHEC document "Risk-Based Corrective Action for Petroleum Releases" dated May 15, 2001, Appendix A - RBCA Classification/Priority System, MECI classifies the site as 1. This classification is due CoC concentrations being detected in WSW-1, WSW-7, and WSW-9.

Analytical results indicate MTBE concentrations at 2.2 micrograms per liter in WSW-1. Analytical results indicate MTBE concentrations 4.3 micrograms per liter in WSW-7. Analytical results indicate toluene concentrations at 0.72J micrograms per liter in WSW-9.

8.0 QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. The general subsurface conditions utilized in our evaluation have been based on interpretation of subsurface data between borings. Contents of this report are intended for the sole use of Ms. Diane McMahan and SCDHEC under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

-oOo-

TABLES

TABLE 1
PAGE 1 OF 2
FIELD PARAMETERS
JULY 28, 2010 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 10-2730
SCDHEC SITE ID NUMBER 19440

Well Number	Sample Date	Dissolved CO_2 (mg/l)	Dissolved Oxygen (mg/l)	Temperature (^{O} Celsius)	pH (Initial)	pH (Final)	Conductivity (Initial)	Conductivity (Final)	Ferrous Iron (mg/l)	Screened Interval (ft BGS)	Depth to Water (ft)	Well-head Elevation	Groundwater Elevation
MW-1	05/05/09	180	12.22	20.0	5.47	5.45	255.1	255.7	<0.2	40-50	45.19	96.57	51.38
	08/07/09	NT	NT	NT	NT	NT	NT	NT	NT	-	44.72	96.57	51.85
	07/28/10	200+	1.05	19.5	6.69	NT	224.0	NT	NT	-	40.79	96.57	55.78
MW-2	07/31/09	115	5.93	20.5	6.16	NT	139.7	NT	<0.2	41-51	45.48	96.95	51.47
	07/28/10	200+	1.39	19.0	5.18	NT	283.3	NT	NT	-	41.60	96.95	55.35
MW-3	07/31/09	200+	5.53	19.3	6.21	5.89	149.3	143.4	<0.2	41-51	45.20	96.97	51.77
	07/28/10	200+	0.79	20.2	4.15	NT	280.0	NT	NT	-	41.31	96.97	55.66
MW-4	07/31/09	80	3.46	24.1	6.18	NT	166.0	NT	<0.2	42-52	49.30	99.71	50.41
	07/28/10	200+	2.09	20.0	5.73	NT	174.0	NT	NT	-	45.36	99.71	54.35
MW-5	07/28/10	85	4.80	19.0	6.89	6.82	59.9	47.2	NT	35-45	36.61	92.47	55.86
MW-6	07/28/10	180	6.34	19.3	5.30	5.15	116.0	182.5	NT	43-53	40.28	96.10	55.82
MW-7	07/28/10	125	6.15	19.6	6.87	6.74	65.6	111.2	NT	40-50	41.43	97.67	56.24
MW-8	07/28/10	120	3.25	19.3	7.94	7.66	132.5	126.6	NT	39-49	45.68	100.64	54.96
MW-9	07/28/10	90	5.76	21.4	8.44	8.16	186.9	173.6	NT	41-51	43.85	98.25	54.40
MW-10	07/28/10	130	7.00	19.9	7.60	7.08	182.7	207.7	NT	40-50	42.96	95.10	52.14
MW-11	07/28/10	200+	2.36	20.3	7.61	7.14	182.1	172.8	NT	40-50	43.05	97.68	54.63

Notes:
1. mg/l = milligrams per liter.
2. Groundwater depths were measured from the top of the PVC riser pipe.
3. Final groundwater levels measured 07/29/10.
4. NT = Not Tested
5. Dissolved oxygen, dissolved carbon dioxide, initial pH, initial conductivity, and temperature measurements obtained on 07/28/10.

TABLE 1
PAGE 2 OF 2
FIELD PARAMETERS
JULY 28, 2010 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 10-2730
SCDHEC SITE ID NUMBER 19440

Well Number	Sample Date	Dissolved CO_2 (mg/l)	Dissolved Oxygen (mg/l)	Temperature (^{O} Celsius)	pH (Initial)	pH (Final)	Conductivity (Initial)	Conductivity (Final)	Ferrous Iron (mg/l)	Screened Interval (ft BGS)	Depth to Water (ft)	Well-head Elevation	Groundwater Elevation
MW-12	07/28/10	150	5.80	20.8	6.03	5.93	445.1	436.1	NT	50-60	54.18	103.93	49.75
MW-13	07/28/10	100	6.54	19.8	8.81	8.16	434.3	388.9	NT	50-60	54.21	104.88	50.67
MW-14	07/28/10	200+	6.10	20.2	6.93	6.47	77.8	50.8	NT	49-59	51.60	102.93	51.33
MW-15	07/28/10	165	6.75	18.5	7.12	6.98	70.3	51.2	NT	45-55	47.85	98.20	50.35
MW-16	07/28/10	150	6.31	19.5	7.76	7.49	61.2	56.7	NT	45-55	46.16	97.51	51.35
MW-17	07/28/10	100	5.99	22.5	8.72	8.10	103.5	53.9	NT	45-55	46.65	98.62	51.97
MW-18	07/28/10	85	6.31	21.9	7.62	7.53	48.2	42.9	NT	35-45	35.99	87.20	51.21
MW-19D	07/28/10	5	4.77	20.6	5.79	6.21	430.0	430.6	NT	65-70	45.86	96.43	50.57
MW-20D	07/28/10	5	5.06	21.4	9.37	9.51	1,937	1,123	NT	65-67	58.49	97.23	38.74
MW-21D	07/28/10	200+	5.21	22.3	7.84	8.13	249.4	284.9	NT	78-83	63.49	97.64	34.15
MW-22D	07/28/10	5	5.01	20.1	8.78	9.61	1,956	1,311	NT	95-100	55.09	104.95	49.86
MW-23D	07/28/10	135	3.83	20.0	6.61	7.02	92.5	71.8	NT	95-100	47.28	97.83	50.55
MW-24D	07/28/10	5	4.08	20.6	6.91	6.85	77.6	73.6	NT	70-75	36.54	87.38	50.84

Notes:
1. mg/l = milligrams per liter.
2. Groundwater depths were measured from the top of the PVC riser pipe.
3. Final groundwater levels measured 07/29/10.
4. NT = Not Tested
5. Dissolved oxygen, dissolved carbon dioxide, initial pH, initial conductivity, and temperature measurements obtained on 07/28/10.

TABLE 2
PAGE 1 OF 2
FIELD SCREENING ANALYTICAL RESULTS
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 10-2730
SCDHEC ID NUMBER 19440

Well Number	Sample Depth (ft)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Total BTEX (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)
GPW-1	45-49PR	**192**	**2,890**	**80.5**	**559**	**3,721.5**	**387**	<50.0
GPW-2	45-49PR	**19,900**	**107,000**	**8,320**	**44,200**	**179,420**	**81,600**	**1,050**
GPW-3	46-50PR	<5.0	**3.4J**	<5.0	<15.0	**3.4J**	**16.5**	<5.0
GPW-4	47-51PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-5	46-50PR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
GPW-6	46-50PR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
GPW-7	40-44PR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
GPW-8	46-50PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-9	49-53PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-10	46-50PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-11	36-40PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-12	45-49PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-13	46-50PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-14	50-54PR	**1,920**	**4,290**	**678**	**3,680**	**10,568**	**11,500**	**84.0**
GPW-15	51-55PR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
GPW-16	46-50PR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
GPW-17	51-55	**1.9J**	**11.9**	**1.9J**	**12.5J**	**28.2J**	**20.7**	**5.4**
GPW-18	51-55	DRY	DRY	DRY	DRY	DRY	DRY	DRY
GPW-19	43-47PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-20	51-55PR	<5.0	<5.0	<5.0	<15.0	BDL	**934**	<5.0
GPW-21	51-55	<25.0	<25.0	<25.0	<75.0	BDL	**697**	<25.0
GPW-22	51-55PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-23	44-48PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-24	51-55	DRY	DRY	DRY	DRY	DRY	DRY	DRY
GPW-25	51-55	DRY	DRY	DRY	DRY	DRY	DRY	DRY
GPW-26	46-50PR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
GPW-27	51-55	**2,280**	**3,500**	**754**	**2,550**	**9,084**	**9,560**	**104**
GPW-28	54-58PR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
GPW-29	56-60PR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
GPW-30	51-55PR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
GPW-31	49-53PR	**149**	**166**	**15.3**	**109.4**	**439.7**	**497**	<5.0
GPW-32	56-60PR	<5.0	<5.0	<5.0	<15.0	BDL	**6.0**	<5.0
GPW-33	56-60PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-34	56-60PR	**198**	**1,060**	**62.6**	**389**	**1,709.6**	**3,590**	<50.0
GPW-35	56-60	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-36	56-60	<10.0	<10.0	<10.0	<30.0	BDL	<10.0	<10.0

Notes:

1. BDL = Below Practical Quantitative Limits
2. µg/l = micrograms per liter
3. MTBE = Methyl-Tertiary-Butyl Ether
4. GPW = Direct Push Field Screening
5. * = Air-Rotary Drilling Rig Utilized in Field Screening.
6. DRY = Borehole Dry
7. PR = Probe Refusal
8. TOR = Top of Rock
9. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).

TABLE 2
PAGE 2 OF 2
FIELD SCREENING ANALYTICAL RESULTS
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 10-2730
SCDHEC ID NUMBER 19440

Well Number	Sample Depth (ft)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Total BTEX (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)
GPW-37	56-60	<50.0	<50.0	<50.0	<150.0	BDL	<50.0	<50.0
GPW-38	56-60	DRY	DRY	DRY	DRY	DRY	DRY	DRY
GPW-39	56-60	<25.0	<25.0	<25.0	<75.0	BDL	<25.0	<25.0
GPW-40	56-60PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-41	51-55PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-42	51-55PR	<20.0	<20.0	<20.0	<60.0	BDL	<20.0	<20.0
GPW-43	51-55PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-44	51-55PR	<25.0	<25.0	<25.0	<75.0	BDL	<25.0	<25.0
GPW-45	56-60PR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
GPW-46	61-65PR	<10.0	<10.0	<10.0	<30.0	BDL	<10.0	<10.0
GPW-47	61-65PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-48	61-65PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-49	61-65PR	<50.0	<50.0	<50.0	<150.0	BDL	<50.0	<50.0
GPW-50	61-65PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-51	51-55PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-52	48-52PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-53	45-49PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-54	46-50PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-55	46-50PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-56	46-50PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-57	46-50PR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-58*	52-56TOR	<5.0	<5.0	<5.0	<15.0	BDL	**7.0**	<5.0
GPW-59*	57-61TOR	**773**	**350**	**154**	**927**	**2,204**	**5,520**	**16.3**
GPW-60*	57-61TOR	**626**	**976**	**224**	**1,520**	**3,346**	**5,370**	**60.2**
GPW-61*	83-87TOR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	**6.8**
GPW-62*	77-81TOR	<5.0	<5.0	<5.0	<15.0	BDL	**255**	<5.0
GPW-63*	75-79TOR	<5.0	<5.0	<5.0	<15.0	BDL	**10**	<5.0
GPW-64*	70-74TOR	<5.0	<5.0	<5.0	<15.0	BDL	**403**	<5.0
GPW-65*	70-74TOR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-66*	83-87TOR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-67*	71-75TOR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-68*	68-72TOR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-69*	65-69TOR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-70*	66-70TOR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-71*	76-80TOR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-72*	66-70TOR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-73*	56-60TOR	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0
GPW-WSW	***	<5.0	<5.0	<5.0	<15.0	BDL	<5.0	<5.0

Notes:

1. BDL = Below Practical Quantitative Limits
2. µg/l = micrograms per liter
3. MTBE = Methyl-Tertiary-Butyl Ether
4. GPW = Direct Push Field Screening
5. * = Air-Rotary Drilling Rig Utilized in Field Screening.
6. DRY = Borehole Dry
7. PR = Probe Refusal
8. TOR = Top of Rock
9. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).

TABLE 3
PAGE 1 OF 2
GROUNDWATER ANALYTICAL RESULTS
JULY 28, 2010 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 10-2730
SCDHEC ID NUMBER 19440

Well Number	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Total BTEX (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)	1,2 DCA (µg/l)	EDB (µg/l)	Total Lead (µg/l)	Methane (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-1	05/05/09	**7,780**	**98,500**	**3,910**	**24,100**	**134,290**	**59,700**	<500	<500	**1.7**	<5.0	NT	NT	NT
	07/31/09	**8,630**	**96,400**	**3,980**	**24,900**	**133,910**	**33,700**	<1,000	NT	**2.0**	NT	NT	NT	NT
	07/28/10	**6,300**	**117,000**	**3,740**	**29,000**	**156,040**	**2,040**	**241**	<50.0	**1.9**	**6.2**	NT	NT	NT
MW-2	07/31/09	**854**	**1,430**	**335J**	**3,470**	**6,089J**	**7,090**	**145**	<5.0	**0.039**	**6.6**	<10.0	<0.10	**4.5**
	07/28/10	**3,170**	**44,900**	**1,850**	**13,700**	**63,620**	**32,700**	**253**	<25.0	**0.29**	<5.0	NT	NT	NT
MW-3	07/31/09	**2,680**	**20,100**	**362J**	**8,110**	**31,252J**	**24,400**	**145**	<5.0	**0.10**	**5.8**	<10.0	<0.10	**2.6**
	07/28/10	**1,540**	**20,000**	**1,350**	**11,700**	**34,590**	**14,600**	**424**	<5.0	**0.072**	<5.0	NT	NT	NT
MW-4	07/31/09	**956**	**4,440**	**174**	**1,860**	**7,430**	**6,130**	**24.9**	<5.0	<0.019	<5.0	<10.0	<0.10	**7.4**
	07/28/10	**801**	**1,510**	**164J**	**1,510**	**3,985J**	**7,700**	<250	<250	<0.019	<5.0	NT	NT	NT
MW-5	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	**39.4**	NT	NT	NT
MW-6	07/28/10	<5.0	**3.5J**	<5.0	**3.2J**	**6.7J**	**23.8**	**3.9J**	<5.0	<0.020	<5.0	NT	NT	NT
MW-7	07/28/10	<5.0	**2.2J**	<5.0	<10.0	**2.2J**	<5.0	**3.1J**	<5.0	<0.019	<5.0	NT	NT	NT
MW-8	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	**5.4**	NT	NT	NT
MW-9	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	**7.9**	NT	NT	NT
MW-10	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	**8.0**	<5.0	<5.0	<0.025	**23.2**	NT	NT	NT
MW-11	07/28/10	**997**	**8,120**	**340**	**2,480**	**11,937**	**18,600**	**43.6**	<25.0	**0.31**	<5.0	NT	NT	NT
MW-12	07/28/10	<5.0	**2.1J**	<5.0	<10.0	**2.1J**	**3.6J**	**3.1J**	<5.0	<0.020	<5.0	NT	NT	NT
MW-13	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	<5.0	NT	NT	NT
MW-14	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	**4.1J**	NT	NT	NT
MW-15	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
MW-16	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
MW-17	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT

Notes:

1. BDL = Below Practical Quantitative Limits
2. µg/l = micrograms per liter
3. mg/l = milligrams per liter
4. MTBE = Methyl-Tertiary-Butyl Ether
5. See Appendix for Laboratory Detection Limits
6. NT = Not Tested.
7. EDB = Ethylene Dibromide
8. 1,2 DCA = 1,2-Dichloroethane
9. "J" Values used in Total BTEX Calculations
10. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).

TABLE 3
PAGE 2 OF 2
GROUNDWATER ANALYTICAL RESULTS
JULY 28, 2010 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 10-2730
SCDHEC ID NUMBER 19440

Well Number	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Total BTEX (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)	1,2 DCA (µg/l)	EDB (µg/l)	Total Lead (µg/l)	Methane (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-18	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
MW-19D	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	<5.0	NT	NT	NT
MW-20D	07/28/10	**230**	**573**	**57.2**	**379**	**1,239.2**	**3,720**	**11.2**	<5.0	**0.055**	<5.0	NT	NT	NT
MW-21D	07/28/10	**3.6J**	**4.2J**	**1.3J**	**8.3J**	**17.4J**	**128**	<5.0	<5.0	<0.019	**109**	NT	NT	NT
MW-22D	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	**33.1**	**3.1J**	<5.0	<0.020	<5.0	NT	NT	NT
MW-23D	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.021	**10.5**	NT	NT	NT
MW-24D	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	**20.4**	NT	NT	NT
WSW-1	07/28/09	<5.0	<5.0	<5.0	<10.0	BDL	**16.1**	<5.0	NT	NT	NT	NT	NT	NT
	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	**3.9J**	<5.0	NT	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	**2.2**	<1.0	NT	<0.019	NT	NT	NT	NT
WSW-2	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019	NT	NT	NT	NT
WSW-4	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019	NT	NT	NT	NT
WSW-5	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020	NT	NT	NT	NT
WSW-6	07/28/09	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	NT	NT	NT	NT	NT
	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020	NT	NT	NT	NT
WSW-7	07/28/09	<5.0	<5.0	<5.0	<10.0	BDL	**2.2J**	<5.0	NT	NT	NT	NT	NT	NT
	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	**2.2J**	<5.0	NT	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	**4.3**	<1.0	NT	<0.019	NT	NT	NT	NT
WSW-8	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020	NT	NT	NT	NT
WSW-9	07/28/10	<1.0	**0.72J**	<1.0	<3.0	**0.72J**	<1.0	<1.0	NT	<0.019	NT	NT	NT	NT

Notes:

1. BDL = Below Practical Quantitative Limits
2. µg/l = micrograms per liter
3. mg/l = milligrams per liter
4. MTBE = Methyl-Tertiary-Butyl Ether
5. See Appendix for Laboratory Detection Limits
6. NT = Not Tested.
7. EDB = Ethylene Dibromide
8. 1,2 DCA = 1,2-Dichloroethane
9. "J" Values used in Total BTEX Calculations
10. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).

TABLE 4
PAGE 1 OF 2
GROUNDWATER ANALYTICAL RESULTS (OXYGENATES)
JULY 26, 2010 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 10-2730
SCDHEC SITE ID NUMBER 19440

Well Number	Sample Date	tert-Amyl alcohol (µg/l)	tert-Amyl methyl ether (µg/l)	3,3-Dimethyl-1-butanol (µg/l)	tert Butyl Alcohol (µg/l)	tert-Butyl Formate (µg/l)	Diisopropyl ether (µg/l)	Ethanol (µg/l)	Ethyl tert-butyl ether (µg/l)
MW-1	05/05/09	NT	NT	NT	NT	NT	NT	NT	NT
	07/31/09	NT	NT	NT	NT	NT	NT	NT	NT
	07/28/10	**1,980**	**1,310**	<1,000	<1,000	<500	**14,900**	<2,000	<100
MW-2	07/31/09	**23,500**	**145**	<100	<100	<50.0	**3,830**	<200	<10.0
	07/28/10	**6,480**	**928**	<500	<500	<250	**19,300**	<1,000	<50.0
MW-3	07/31/09	**16,800J**	**295**	<100	<100	<50.0	**11,600**	<200	<10.0
	07/28/10	**5,410**	**221**	<100	<100	<50.0	**6,810**	<200	<10.0
MW-4	07/31/09	**7,330**	**70.3**	<100	<100	<50.0	**3,140**	<200	<10.0
	07/28/10	**13,900**	<500	<5,000	<5,000	<2,500	**4,880**	<10,000	<500
MW-5	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-6	07/28/10	<100	<10.0	<100	<100	<50.0	**57.7**	<200	<10.0
MW-7	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-8	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-9	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-10	07/28/10	<100	<10.0	<100	<100	<50.0	**12.8**	<200	<10.0
MW-11	07/28/10	**3,990**	**237**	<500	<500	<250	**7,840**	<1,000	<50.0

Notes:
1. µg/l = micrograms per liter
2. NT = Not Tested
3. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).

TABLE 4
PAGE 2 OF 2
GROUNDWATER ANALYTICAL RESULTS (OXYGENATES)
JULY 26, 2010 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 10-2730
SCDHEC SITE ID NUMBER 19440

Well Number	Sample Date	tert-Amyl alcohol (µg/l)	tert-Amyl methyl ether (µg/l)	3,3-Dimethyl-1-butanol (µg/l)	tert Butyl Alcohol (µg/l)	tert-Butyl Formate (µg/l)	Diisopropyl ether (µg/l)	Ethanol (µg/l)	Ethyl tert-butyl ether (µg/l)
MW-12	07/28/10	**201**	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-13	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-14	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-15	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-16	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-17	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-18	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-19D	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-20D	07/28/10	**1,490**	**77.7**	<100	<100	<50.0	**1,720**	<200	<10.0
MW-21D	07/28/10	<100	<10.0	<100	<100	<50.0	**98.5**	<200	<10.0
MW-22D	07/28/10	<100	<10.0	<100	<100	<50.0	**19.1**	<200	<10.0
MW-23D	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-24D	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0

Notes:
1. µg/l = micrograms per liter
2. NT = Not Tested
3. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).

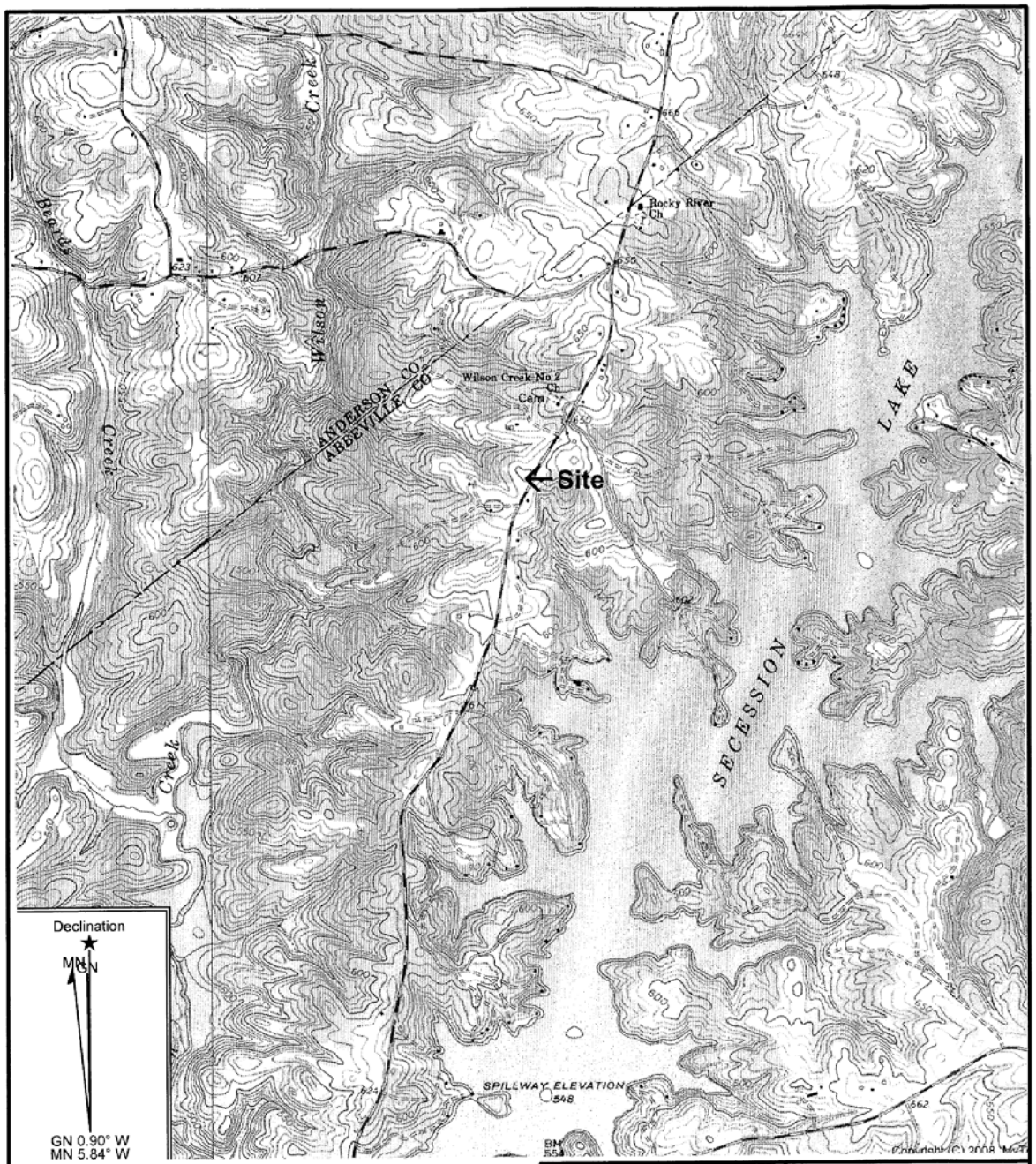
TABLE 5
SITE CONCEPTUAL MODEL AND POSSIBLE EXPOSURE POINTS
(CURRENT LAND USE)

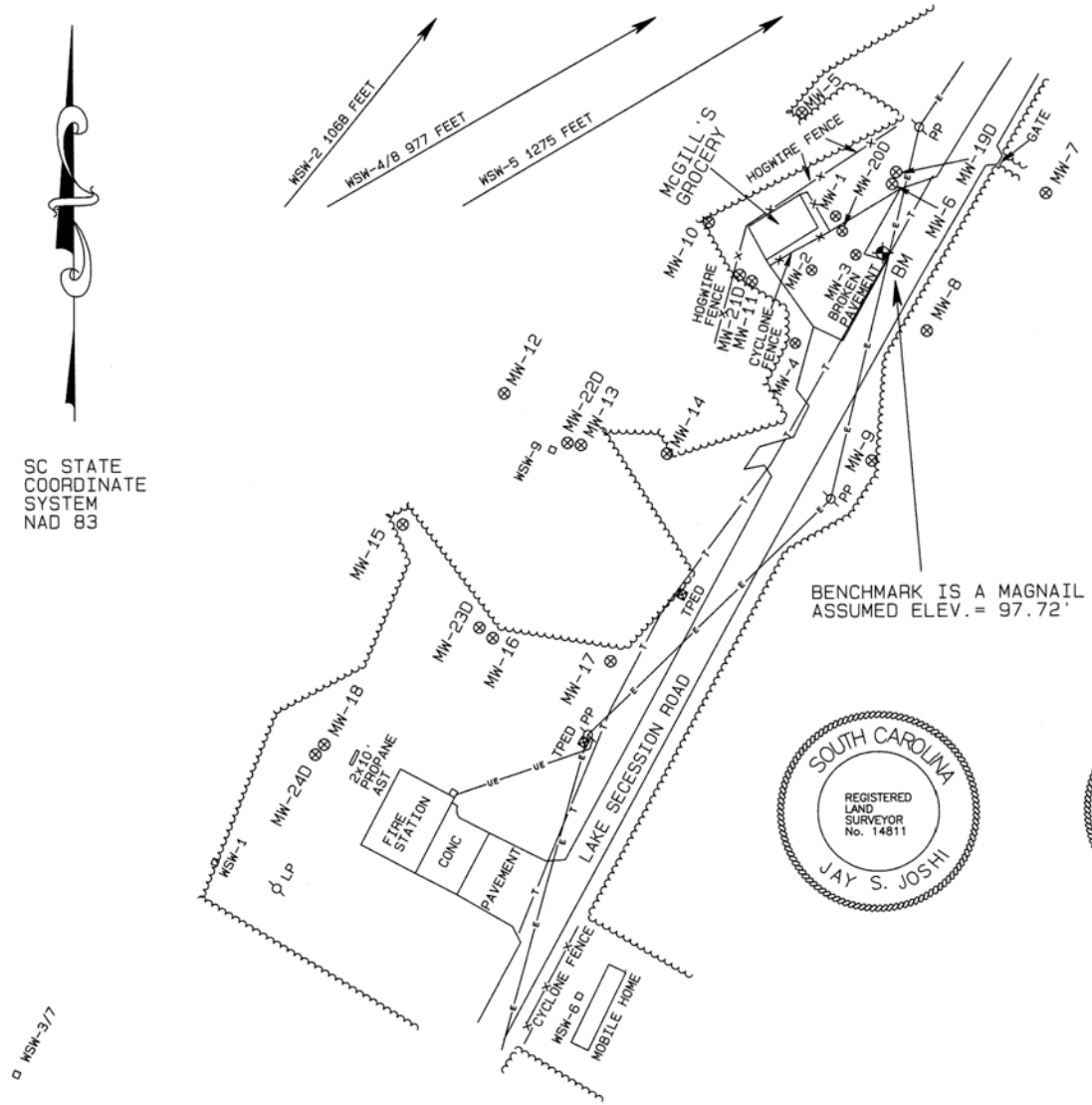
Potentially Exposed Population	Exposure Route, Medium, and Exposure Point	Pathway Selected for Evaluation?	Reason for Selection or Nonselection
Off-site Resident	Ingestion of groundwater from impacted water well	Yes	Water supply wells identified within search radius
	Direct contact with surface soil	Yes	Some potentially impacted soil not covered with pavement
	Inhalation while showering	Yes	Water supply wells identified within search radius
	Dermal contact while showering	Yes	Water supply wells identified within search radius
	Inhalation of volatiles	No	Volatile emissions possible from buried utility conduits
	Ignition of vapors	No	Ignition of vapors emanating from buried utility conduits
	Dermal contact with surface water	Yes	Surface waters identified within search radius
On-site Resident	Ingestion of groundwater	No	Site is not residential
	Direct contact with surface soil	No	N/A
	Inhalation while showering	No	N/A
	Dermal contact while showering	No	N/A
	Inhalation of volatiles	No	N/A
	Ignition of vapors	No	N/A
Worker	Ingestion of ground water	Yes	Water supply wells identified within search radius
	Direct contact with surface soil	Yes	Some potentially impacted soil not covered with pavement
	Inhalation while showering	Yes	Water supply wells identified within search radius
	Dermal contact while showering	Yes	Water supply wells identified within search radius
	Inhalation of volatiles	No	Volatile emissions possible from buried utility conduits
	Ignition of vapors	No	Ignition of vapors emanating from buried utility conduits
Visitor	Ingestion of ground water	Yes	Water supply wells identified within search radius
	Direct contact with surface soil	Yes	Some potentially impacted soil covered with pavement
	Inhalation while showering	Yes	Water supply wells identified within search radius
	Dermal contact while showering	Yes	Water supply wells identified within search radius
	Inhalation of volatiles	No	Volatile emissions possible from buried utility conduits
	Ignition of vapors	No	Ignition of vapors emanating from buried utility conduits
	Dermal contact with surface water	Yes	Surface waters identified within search radius

TABLE 5 (cont'd)
SITE CONCEPTUAL MODEL AND POSSIBLE EXPOSURE POINTS
(FUTURE LAND USE)

Potentially Exposed Population	Exposure Route, Medium, and Exposure Point	Pathway Selected for Evaluation?	Reason for Selection or Nonselection
Off-site Resident	Ingestion of groundwater from impacted water well	Yes	Water supply wells identified within search radius
	Direct contact with surface soil	Yes	Some potentially impacted soil not covered with pavement
	Inhalation while showering	Yes	Water supply wells identified within search radius
	Dermal contact while showering	Yes	Water supply wells identified within search radius
	Inhalation of volatiles	No	Volatile emissions possible from buried utility conduits
	Ignition of vapors	No	Ignition of vapors emanating from buried utility conduits
	Dermal contact with surface water	Yes	Surface waters identified within search radius
On-site Resident	Ingestion of groundwater	No	Site is not residential
	Direct contact with surface soil	No	N/A
	Inhalation while showering	No	N/A
	Dermal contact while showering	No	N/A
	Inhalation of volatiles	No	N/A
	Ignition of vapors	No	N/A
Worker	Ingestion of ground water	Yes	Water supply wells identified within search radius
	Direct contact with surface soil	Yes	Some potentially impacted soil not covered with pavement
	Inhalation while showering	Yes	Water supply wells identified within search radius
	Dermal contact while showering	Yes	Water supply wells identified within search radius
	Inhalation of volatiles	No	Volatile emissions possible from buried utility conduits
	Ignition of vapors	No	Ignition of vapors emanating from buried utility conduits
Visitor	Ingestion of ground water	Yes	Water supply wells identified within search radius
	Direct contact with surface soil	Yes	Some potentially impacted soil covered with pavement
	Inhalation while showering	Yes	Water supply wells identified within search radius
	Dermal contact while showering	Yes	Water supply wells identified within search radius
	Inhalation of volatiles	No	Volatile emissions possible from buried utility conduits
	Ignition of vapors	No	Ignition of vapors emanating from buried utility conduits
	Dermal contact with surface water	Yes	Surface waters identified within search radius

FIGURES


Beards Creek
Wilson Creek
Creek
ANDERSON CO.
ABBEVILLE CO.
Rocky River Ch
Wilson Creek No 2 Ch
Cem
Site
LAKE
SECESSION
SPILLWAY ELEVATION 548
BM 554
Declination
MN
GN 0.90° W
MN 5.84° W
GRAPHIC SCALE
0 1000 2000 4000
1IN = 2000FT
Reference: Antreville, South Carolina
Iva, South Carolina
Contour Interval–10 Feet
USGS 7.5 Min. Quad
Midlands Environmental Consultants, Inc.
Site Location
McGill's Grocery
Iva, SC
SCDHEC Site ID# 19440
Figure 1
MECI 10-2730



MONITOR WELLS		
WELL	TOL ELEV.	TOC ELEV.
MW-1	96.99	96.57
MW-2	97.52	96.95
MW-3	97.49	96.97
MW-4	99.91	99.71
MW-5	92.80	92.47
MW-6	96.61	96.10
MW-7	97.99	97.67
MW-8	100.92	100.64
MW-9	98.84	98.25
MW-10	95.68	95.10
MW-11	97.84	97.68
MW-12	104.07	103.93
MW-13	105.34	104.88
MW-14	103.28	102.93
MW-15	98.70	98.20
MW-16	98.02	97.51
MW-17	99.08	98.62
MW-18	87.87	87.20
MW-19D	96.60	96.43
MW-20D	97.53	97.23
MW-21D	97.82	97.64
MW-22D	105.15	104.95
MW-23D	98.06	97.83
MW-24D	87.67	87.38

LEGEND AND ABBREVIATIONS:

- MW = MONITORING WELL
- BM = BENCHMARK
- TPED = TELEPHONE PEDESTAL
- SDMH = STORM DRAIN MAN HOLE
- SSMH = SANITARY SEWER MAN HOLE
- TMH = TELEPHONE MAN HOLE
- WM = WATER METER
- WV = WATER VALVE
- FH = FIRE HYDRANT
- SP = SIGNAL POLE
- PP = POWER POLE
- GM = GAS METER
- GV = GAS VALVE
- ELM = 6" ELM TREE
- UST = UNDERGROUND STORAGE TANK
- USTF = UNDERGROUND STORAGE TANK FILL
- USTV = UNDERGROUND STORAGE TANK VENT
- WSW = WATER SUPPLY WELL
- AST = ABOVE GROUND STORAGE TANK
- RCP = REINFORCED CONCRETE PIPE
- VAC = AIR VACUUM
- PHONE = PAY TELEPHONE
- FD = FUEL DISPENSER
- DD = DIESEL DISPENSER
- KDISP = KEROSENE DISPENSER
- —E— = OVERHEAD POWER LINE
- —UE— = UNDERGROUND POWER LINE
- —T— = UNDERGROUND TELEPHONE LINE
- = WOODLINE
- —X— = FENCE LINE

SOUTH CAROLINA
REGISTERED
LAND
SURVEYOR
No. 14811
JAY S. JOSHI

SOUTH CAROLINA
CONSTRUCTION
SUPPORT SERVICES
No. C02425
CERTIFICATE OF AUTHORIZATION

COMPREHENSIVE SITE SKETCH OF

McGILL GROCERY

2798 LAKE SECESSION ROAD
IVA, ABBEVILLE COUNTY, SC
SCDHEC SITE ID #19440
MEC JOB #10-2730

PREPARED FOR

MIDLANDS ENVIRONMENTAL CONSULTANTS INC.

GRAPHIC SCALE 1"=80'

0 80 160 240

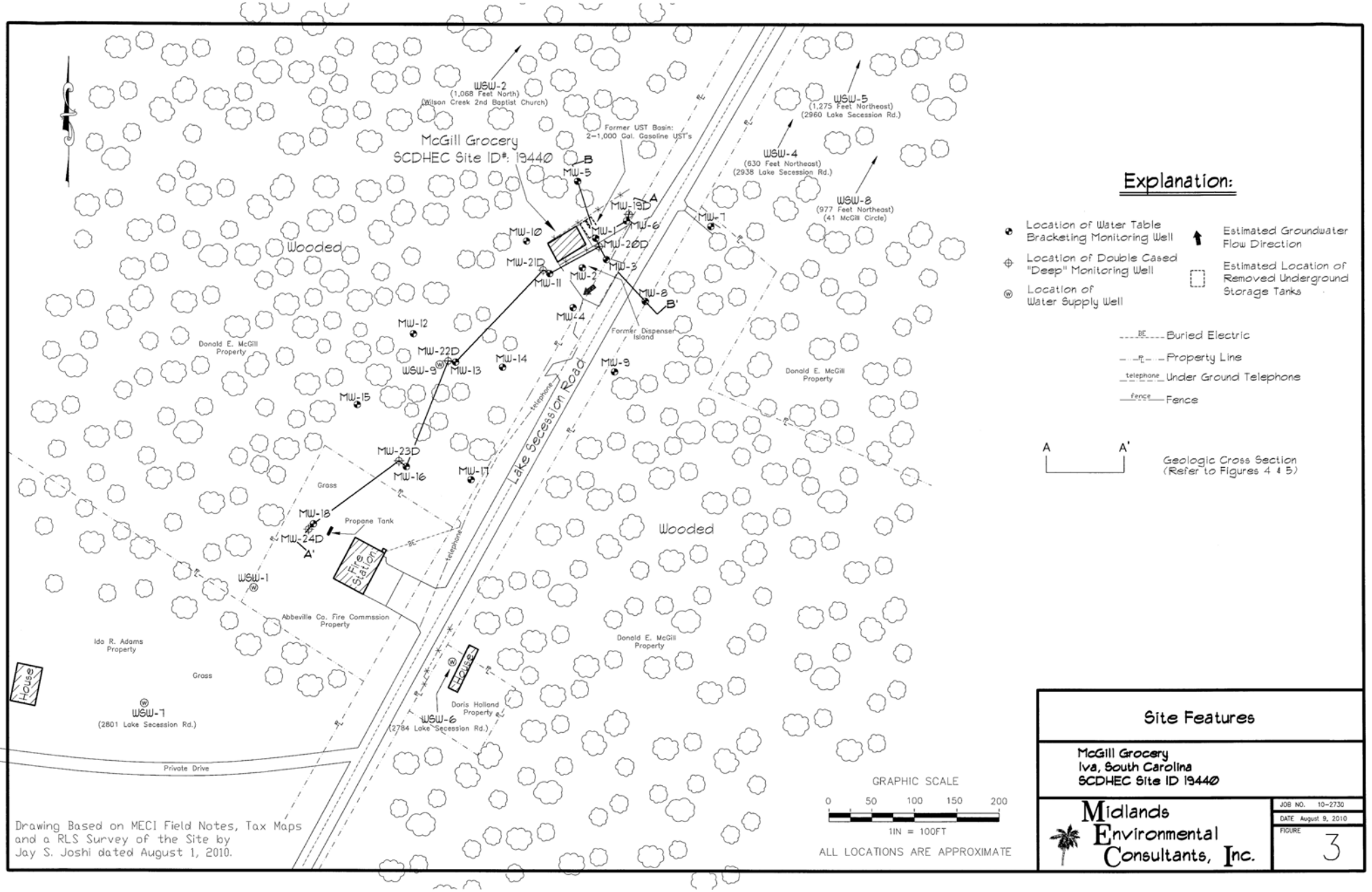
NOTE:
NOT FOR THE PURPOSE OF RECORDATION AT COUNTY COURTHOUSE OR THE CONVEYANCE OF PROPERTY.

NOTE:
I HEREBY CERTIFY THAT THE FIELD WORK, CALCULATIONS, AND DRAFTING WERE DONE UNDER MY DIRECT SUPERVISION.

Figure 2

JAY S. JOSHI PLS # 14811
P.O. BOX 90408, COLUMBIA, SC, 29290 803-776-9909

DATE: AUGUST 1, 2010 JOB #072710B ADD ON TO 080409C

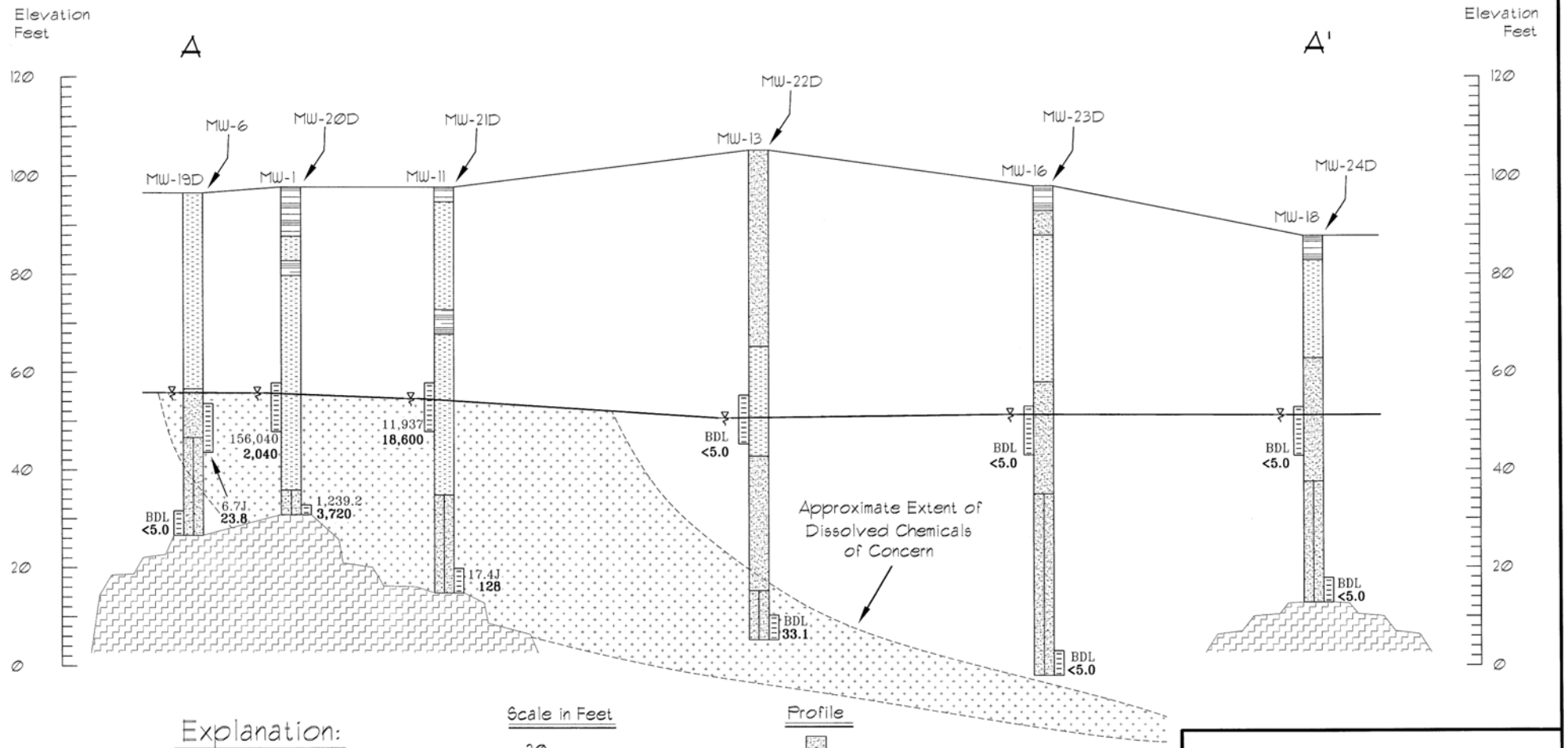


Site Features

McGill Grocery
Iva, South Carolina
SCDHEC Site ID 19440

Midlands Environmental Consultants, Inc.

JOB NO. 10-2730
DATE August 9, 2010
FIGURE 3



Explanation:

- SILT/ Sandy SILT
- Silty CLAY
- SAND/Silty SAND
- Clayey SILT
- Partially Weathered Rock
- Rock: Possible Biotite Schist

Scale in Feet

20

50

Profile

Screened Interval

Groundwater Elevation 7/29/10

40,000 ← Total BTEX Concentration (ug/L)

40,000 ← MTBE Concentration (ug/L)

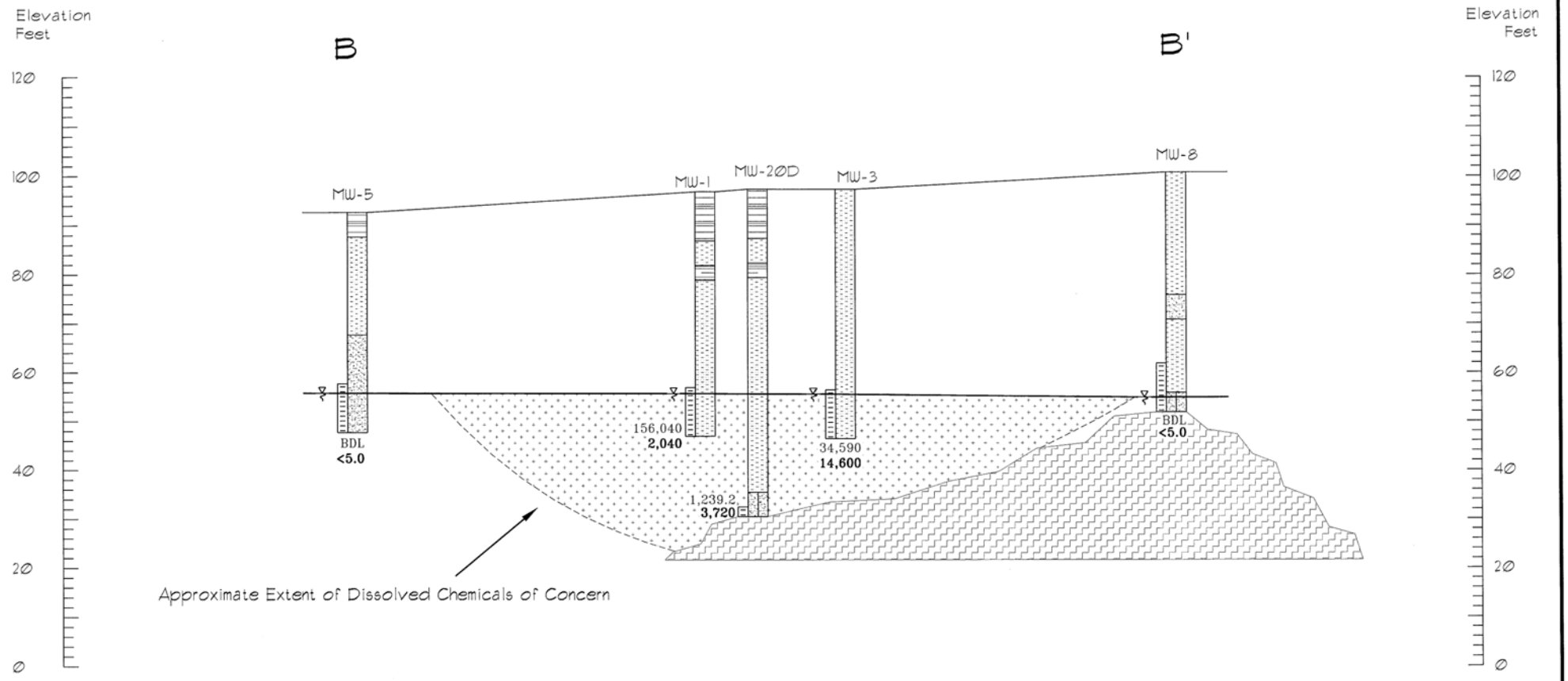
BDL=Below Detection Limits

Geologic Cross Section A - A'

McGill Grocery
Iva, South Carolina
SCDHEC Site ID 19440

Midlands Environmental Consultants, Inc.

JOB NO. 10-2730
DATE August 9, 2010
SHEET 4



Explanation:

- SILT/ Sandy SILT
- Silty CLAY
- SAND/Silty SAND
- Clayey SILT
- Partially Weathered Rock
- Rock: Possible Biotite Schist

Scale in Feet

20

20

Profile

Groundwater Elevation 7/29/10

Screened Interval

40,000 — Total BTEX Concentration (ug/L)

40,000 — MTBE Concentration (ug/L)

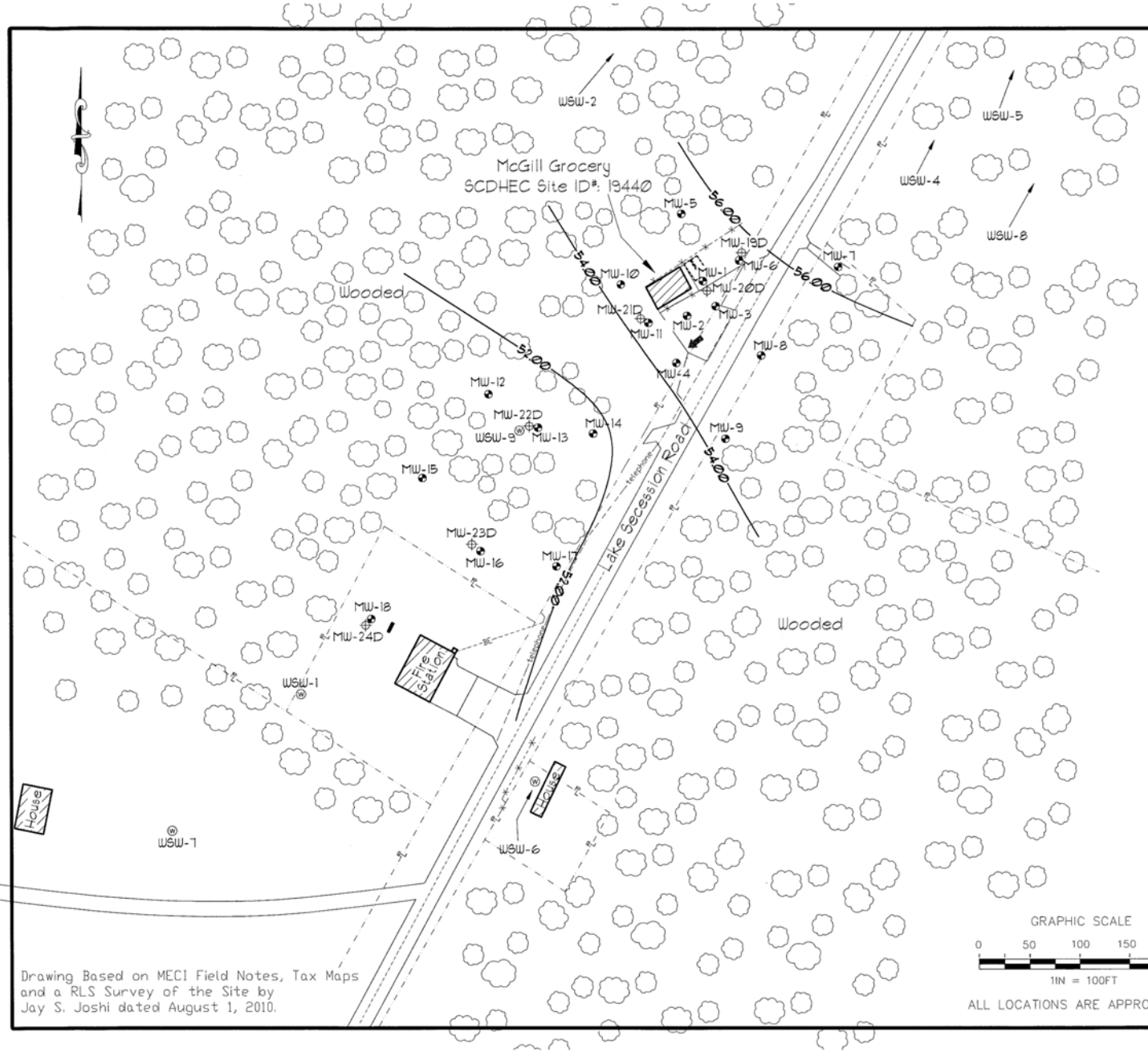
BDL = Below Detection Limits

Geologic Cross Section B - B'

McGill Grocery
Iva, South Carolina
SCDHEC Site ID 19440

Midlands Environmental Consultants, Inc.

JOB NO. 10-2730
DATE August 9, 2010
SHEET 5



Explanation:

- Location of Water Table Bracketing Monitoring Well
- Location of Double Cased "Deep" Monitoring Well
- Location of Water Supply Well
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- Ground-Water Elevation Contour (feet)

Groundwater Elevation Data

Well #	Depth to Water (ft.)	Well Head Elevation	Groundwater Elevation
MW-1	40.79	96.57	55.78
MW-2	41.60	96.95	55.35
MW-3	41.31	96.97	55.66
MW-4	45.36	99.71	54.35
MW-5	36.61	92.47	55.86
MW-6	40.28	96.10	55.82
MW-7	41.43	97.67	56.24
MW-8	45.68	100.64	54.96
MW-9	43.85	98.25	54.40
MW-10	42.96	95.10	52.14
MW-11	43.05	97.68	54.63
MW-12	54.18	103.93	49.75
MW-13	54.21	104.88	50.67
MW-14	51.60	102.93	51.33
MW-15	47.85	98.20	50.35
MW-16	46.16	97.51	51.35
MW-17	46.65	98.62	51.97
MW-18	35.99	87.20	51.21
MW-19D	45.86	96.43	50.57
MW-20D	58.49	97.23	38.74
MW-21D	63.49	97.64	34.15
MW-22D	55.09	104.95	49.86
MW-23D	47.28	97.83	50.55
MW-24D	36.54	87.38	50.84

Notes:
- Depth to groundwater measured on July 29, 2010.
- Contour Interval = 2.00 Foot
- Monitoring wells MW-10, MW-12, MW-19D, MW-20D, MW-21D, MW-22D, MW-23D, and MW-24D not used in contouring.
- Site Datum Based on Assumed Spot Elevation.
- Ground Water Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

GRAPHIC SCALE
0 50 100 150 200
1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

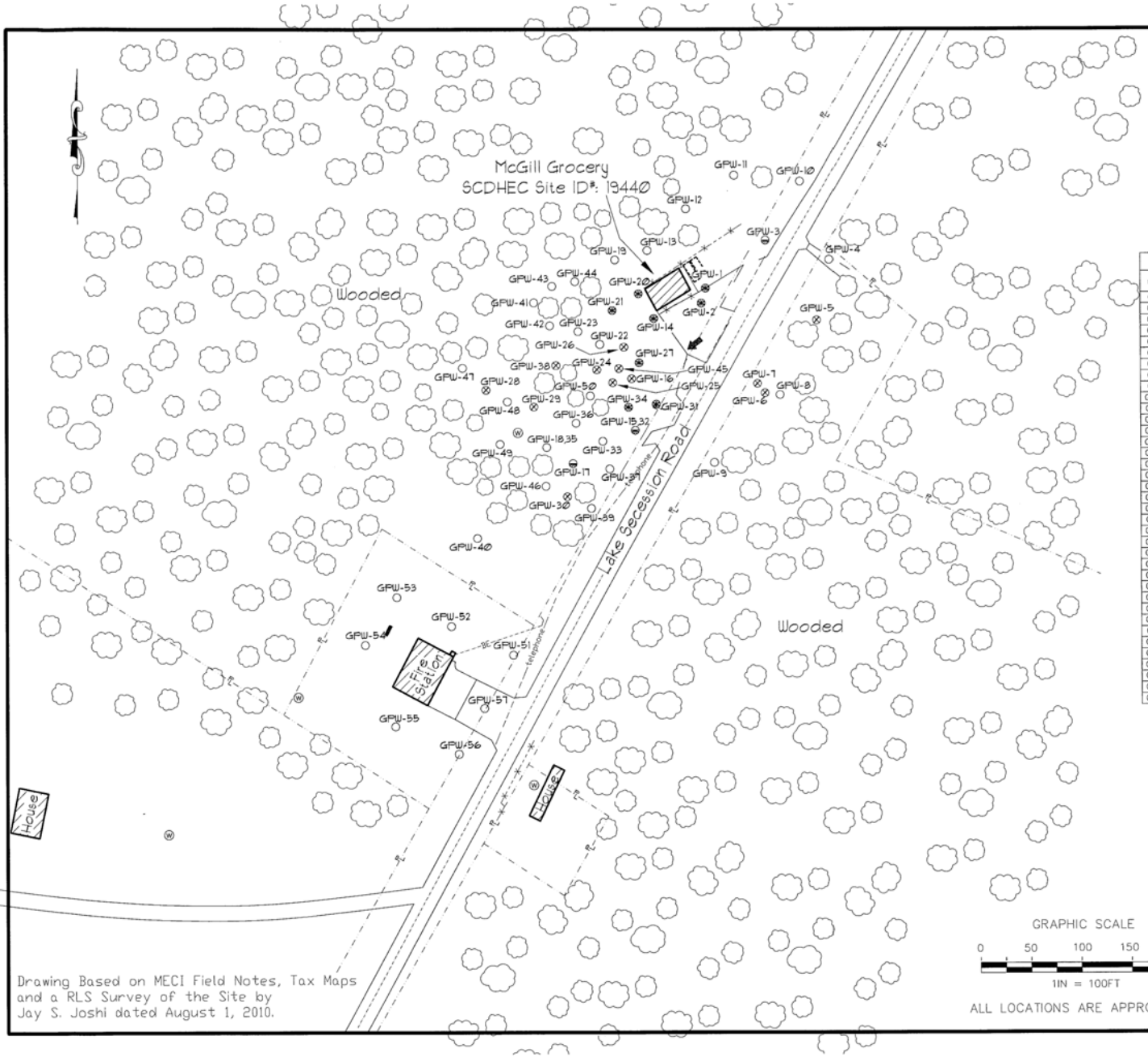
Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

Groundwater Contour Map

McGill Grocery
Iva, South Carolina
SCDHEC Site ID 19440

Midlands Environmental Consultants, Inc.

JOB NO. 10-2730
DATE August 9, 2010
FIGURE 6



Explanation:

- Direct Push Field Screening Location CoC's Above RBSL's
- Direct Push Field Screening Location CoC's Not Detected
- Direct Push Field Screening Location CoC's Below RBSL's
- Direct Push Field Screening Location Dry Hole
- Location of Water Supply Well

Field Screening Results

Sample #	Sample Depth (ft.)	Total BTEX (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)	Sample #	Sample Depth (ft.)	Total BTEX (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)
GPW-1	45-49PR	3,721.5	387	<50.0	GPW-38	56-60	DRY	DRY	DRY
GPW-2	45-49PR	179,420	81,600	1,050	GPW-39	56-60	BDL	<25.0	<25.0
GPW-3	46-50PR	3.4J	16.5	<5.0	GPW-40	56-60PR	BDL	<5.0	<5.0
GPW-4	47-51PR	BDL	<5.0	<5.0	GPW-41	51-55PR	BDL	<5.0	<5.0
GPW-5	46-50PR	DRY	DRY	DRY	GPW-42	51-55PR	BDL	<20.0	<20.0
GPW-6	46-50PR	DRY	DRY	DRY	GPW-43	51-55PR	BDL	<5.0	<5.0
GPW-7	40-44PR	DRY	DRY	DRY	GPW-44	51-55PR	BDL	<25.0	<25.0
GPW-8	46-50PR	BDL	<5.0	<5.0	GPW-45	56-60PR	DRY	DRY	DRY
GPW-9	49-53PR	BDL	<5.0	<5.0	GPW-46	61-65PR	BDL	<10.0	<10.0
GPW-10	46-50PR	BDL	<5.0	<5.0	GPW-47	61-65PR	BDL	<5.0	<5.0
GPW-11	36-40PR	BDL	<5.0	<5.0	GPW-48	61-65PR	BDL	<5.0	<5.0
GPW-12	45-49PR	BDL	<5.0	<5.0	GPW-49	61-65PR	BDL	<50.0	<50.0
GPW-13	46-50PR	BDL	<5.0	<5.0	GPW-50	61-65PR	BDL	<5.0	<5.0
GPW-14	50-54PR	10,568	11,500	84.0	GPW-51	51-55PR	BDL	<5.0	<5.0
GPW-15	51-55PR	DRY	DRY	DRY	GPW-52	48-52PR	BDL	<5.0	<5.0
GPW-16	46-50PR	DRY	DRY	DRY	GPW-53	45-49PR	BDL	<5.0	<5.0
GPW-17	51-55	28.2J	20.7	5.4	GPW-54	46-50PR	BDL	<5.0	<5.0
GPW-18	51-55	DRY	DRY	DRY	GPW-55	46-50PR	BDL	<5.0	<5.0
GPW-19	43-47PR	BDL	<5.0	<5.0	GPW-56	46-50PR	BDL	<5.0	<5.0
GPW-20	51-55PR	BDL	934	<5.0	GPW-57	46-50PR	BDL	<5.0	<5.0
GPW-21	51-55	BDL	697	<25.0	GPW-58*	52-56TOR	BDL	7.0	<5.0
GPW-22	51-55PR	BDL	<5.0	<5.0	GPW-59*	57-61TOR	2,204	5,520	16.3
GPW-23	44-48PR	BDL	<5.0	<5.0	GPW-60*	57-61TOR	3,346	5,370	60.2
GPW-24	51-55	DRY	DRY	DRY	GPW-61*	83-87TOR	BDL	<5.0	6.8
GPW-25	51-55	DRY	DRY	DRY	GPW-62*	77-81TOR	BDL	255	<5.0
GPW-26	46-50PR	DRY	DRY	DRY	GPW-63*	75-79TOR	BDL	10	<5.0
GPW-27	51-55	9,084	9,560	104	GPW-64*	70-74TOR	BDL	403	<5.0
GPW-28	54-58PR	DRY	DRY	DRY	GPW-65*	70-74TOR	BDL	<5.0	<5.0
GPW-29	56-60PR	DRY	DRY	DRY	GPW-66*	83-87TOR	BDL	<5.0	<5.0
GPW-30	51-55PR	DRY	DRY	DRY	GPW-67*	71-75TOR	BDL	<5.0	<5.0
GPW-31	49-53PR	439.7	497	<5.0	GPW-68*	68-72TOR	BDL	<5.0	<5.0
GPW-32	56-60PR	BDL	6.0	<5.0	GPW-69*	65-69TOR	BDL	<5.0	<5.0
GPW-33	56-60PR	BDL	<5.0	<5.0	GPW-70*	66-70TOR	BDL	<5.0	<5.0
GPW-34	56-60PR	1,709.6	3,590	<50.0	GPW-71*	76-80TOR	BDL	<5.0	<5.0
GPW-35	56-60	BDL	<5.0	<5.0	GPW-72*	66-70TOR	BDL	<5.0	<5.0
GPW-36	56-60	BDL	<10.0	<10.0	GPW-73*	56-60TOR	BDL	<5.0	<5.0
GPW-37	56-60	BDL	<50.0	<50.0	GPW-WSW	---	BDL	<5.0	<5.0

Notes:
Groundwater samples collected from March 24, 2010 through June 23, 2010.
BDL = Below Detection Limits
PR = Probe Refusal
TOR = Top of Rock
* = Partially Weathered Rock Field Screening

GRAPHIC SCALE
0 50 100 150 200
1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

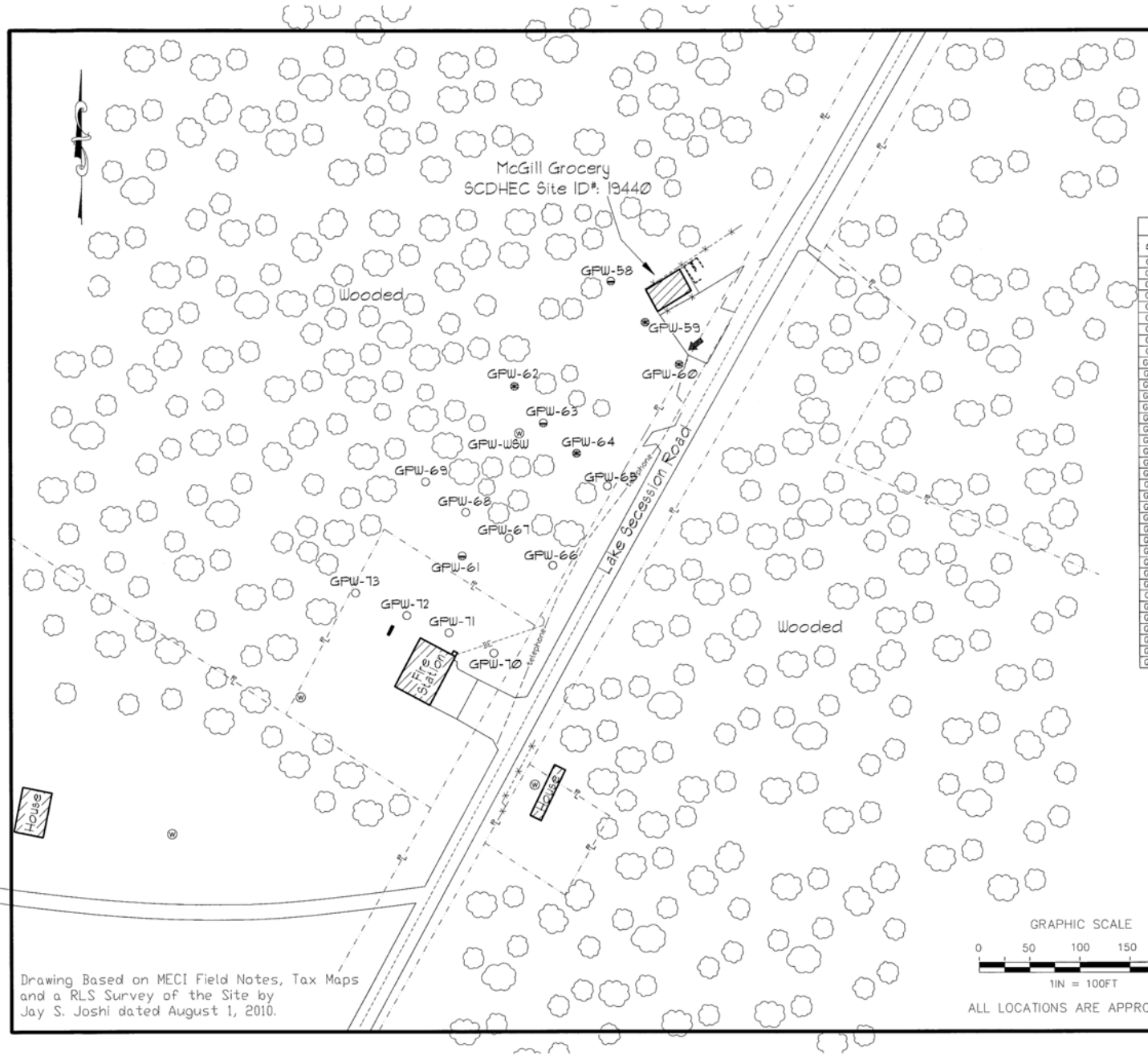
Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

Field Screening Test Results

McGill Grocery
Iva, South Carolina
SCDHEC Site ID 19440

Midlands Environmental Consultants, Inc.

JOB NO. 10-2730
DATE August 9, 2010
FIGURE 7



Explanation:

- Temporary Field Screening Location CoC's Above RBSL's
- Temporary Field Screening Location CoC's Not Detected
- Temporary Field Screening Location CoC's Below RBSL's
- Location of Water Supply Well

Field Screening Results

Sample *	Sample Depth (ft.)	Total BTEX (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)	Sample *	Sample Depth (ft.)	Total BTEX (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)
GPW-1	45-49PR	3,721.5	387	<50.0	GPW-38	56-60	DRY	DRY	DRY
GPW-2	45-49PR	179,420	81,600	1,050	GPW-39	56-60	BDL	<25.0	<25.0
GPW-3	46-50PR	3.4J	16.5	<5.0	GPW-40	56-60PR	BDL	<5.0	<5.0
GPW-4	47-51PR	BDL	<5.0	<5.0	GPW-41	51-55PR	BDL	<5.0	<5.0
GPW-5	46-50PR	DRY	DRY	DRY	GPW-42	51-55PR	BDL	<20.0	<20.0
GPW-6	46-50PR	DRY	DRY	DRY	GPW-43	51-55PR	BDL	<5.0	<5.0
GPW-7	40-44PR	DRY	DRY	DRY	GPW-44	51-55PR	BDL	<25.0	<25.0
GPW-8	46-50PR	BDL	<5.0	<5.0	GPW-45	56-60PR	DRY	DRY	DRY
GPW-9	49-53PR	BDL	<5.0	<5.0	GPW-46	61-65PR	BDL	<10.0	<10.0
GPW-10	46-50PR	BDL	<5.0	<5.0	GPW-47	61-65PR	BDL	<5.0	<5.0
GPW-11	36-40PR	BDL	<5.0	<5.0	GPW-48	61-65PR	BDL	<5.0	<5.0
GPW-12	45-49PR	BDL	<5.0	<5.0	GPW-49	61-65PR	BDL	<50.0	<50.0
GPW-13	46-50PR	BDL	<5.0	<5.0	GPW-50	61-65PR	BDL	<5.0	<5.0
GPW-14	50-54PR	10,568	11,500	84.0	GPW-51	51-55PR	BDL	<5.0	<5.0
GPW-15	51-55PR	DRY	DRY	DRY	GPW-52	48-52PR	BDL	<5.0	<5.0
GPW-16	46-50PR	DRY	DRY	DRY	GPW-53	45-49PR	BDL	<5.0	<5.0
GPW-17	51-55	28.2J	20.7	5.4	GPW-54	46-50PR	BDL	<5.0	<5.0
GPW-18	51-55	DRY	DRY	DRY	GPW-55	46-50PR	BDL	<5.0	<5.0
GPW-19	43-47PR	BDL	<5.0	<5.0	GPW-56	46-50PR	BDL	<5.0	<5.0
GPW-20	51-55PR	BDL	934	<5.0	GPW-57	46-50PR	BDL	<5.0	<5.0
GPW-21	51-55	BDL	697	<25.0	GPW-58*	52-56TOR	BDL	7.0	<5.0
GPW-22	51-55PR	BDL	<5.0	<5.0	GPW-59*	57-61TOR	2,204	5,520	16.3
GPW-23	44-48PR	BDL	<5.0	<5.0	GPW-60*	57-61TOR	3,346	5,370	60.2
GPW-24	51-55	DRY	DRY	DRY	GPW-61*	83-87TOR	BDL	<5.0	6.8
GPW-25	51-55	DRY	DRY	DRY	GPW-62*	77-81TOR	BDL	255	<5.0
GPW-26	46-50PR	DRY	DRY	DRY	GPW-63*	75-79TOR	BDL	10	<5.0
GPW-27	51-55	9,084	9,560	104	GPW-64*	70-74TOR	BDL	403	<5.0
GPW-28	54-58PR	DRY	DRY	DRY	GPW-65*	70-74TOR	BDL	<5.0	<5.0
GPW-29	56-60PR	DRY	DRY	DRY	GPW-66*	83-87TOR	BDL	<5.0	<5.0
GPW-30	51-55PR	DRY	DRY	DRY	GPW-67*	71-75TOR	BDL	<5.0	<5.0
GPW-31	49-53PR	439.7	497	<5.0	GPW-68*	68-72TOR	BDL	<5.0	<5.0
GPW-32	56-60PR	BDL	6.0	<5.0	GPW-69*	65-69TOR	BDL	<5.0	<5.0
GPW-33	56-60PR	BDL	<5.0	<5.0	GPW-70*	66-70TOR	BDL	<5.0	<5.0
GPW-34	56-60PR	1,709.6	3,590	<50.0	GPW-71*	76-80TOR	BDL	<5.0	<5.0
GPW-35	56-60	BDL	<5.0	<5.0	GPW-72*	66-70TOR	BDL	<5.0	<5.0
GPW-36	56-60	BDL	<10.0	<10.0	GPW-73*	56-60TOR	BDL	<5.0	<5.0
GPW-37	56-60	BDL	<50.0	<50.0	GPW-WSW	---	BDL	<5.0	<5.0

Notes: Groundwater samples collected from March 24 2010 through June 23, 2010.

BDL = Below Detection Limits

PR = Probe Refusal

TOR = Top of Rock

* = Partially Weathered Rock Field Screening

GRAPHIC SCALE

0 50 100 150 200

1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

Field Screening Test Results (Partially Weathered Rock)

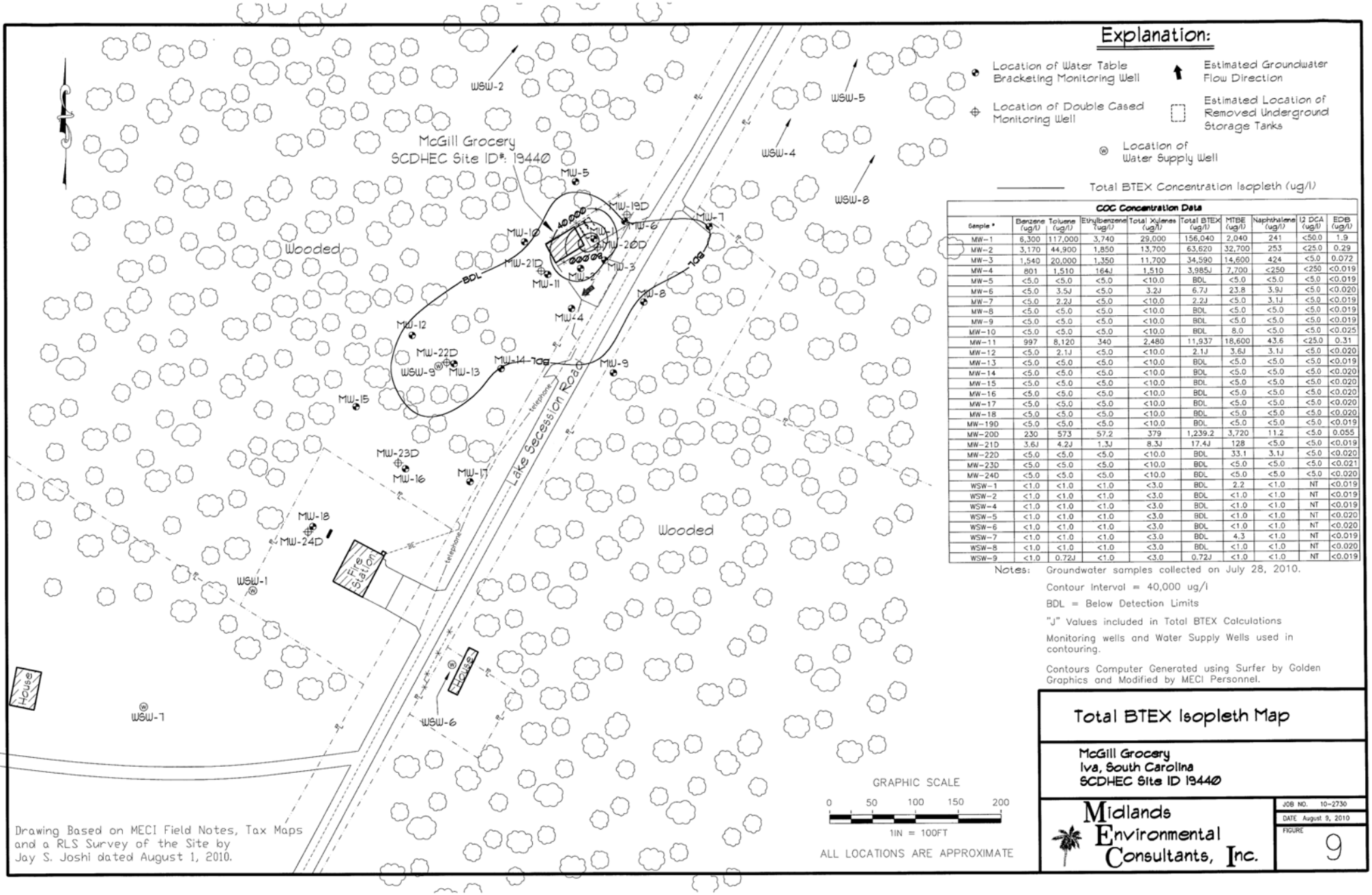
McGill Grocery
Iva, South Carolina
SCDHEC Site ID 19440

Midlands Environmental Consultants, Inc.

JOB NO. 10-2730

DATE August 9, 2010

FIGURE 8



Explanation:

- Location of Water Table Bracketing Monitoring Well
- Location of Double Cased Monitoring Well
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- Location of Water Supply Well
- Total BTEX Concentration Isopleth (ug/l)

COC Concentration Data

Sample #	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)	12 DCA (ug/l)	EDB (ug/l)
MW-1	6,300	117,000	3,740	29,000	156,040	2,040	241	<50.0	1.9
MW-2	3,170	44,900	1,850	13,700	63,620	32,700	253	<25.0	0.29
MW-3	1,540	20,000	1,350	11,700	34,590	14,600	424	<5.0	0.072
MW-4	801	1,510	164J	1,510	3,985J	7,700	<250	<250	<0.019
MW-5	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-6	<5.0	3.5J	<5.0	3.2J	6.7J	23.8	3.9J	<5.0	<0.020
MW-7	<5.0	2.2J	<5.0	<10.0	2.2J	<5.0	3.1J	<5.0	<0.019
MW-8	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-9	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-10	<5.0	<5.0	<5.0	<10.0	BDL	8.0	<5.0	<5.0	<0.025
MW-11	997	8,120	340	2,480	11,937	18,600	43.6	<25.0	0.31
MW-12	<5.0	2.1J	<5.0	<10.0	2.1J	3.6J	3.1J	<5.0	<0.020
MW-13	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-14	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-16	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-17	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-18	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-19D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-20D	230	573	57.2	379	1,239.2	3,720	11.2	<5.0	0.055
MW-21D	3.6J	4.2J	1.3J	8.3J	17.4J	128	<5.0	<5.0	<0.019
MW-22D	<5.0	<5.0	<5.0	<10.0	BDL	33.1	3.1J	<5.0	<0.020
MW-23D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.021
MW-24D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
WSW-1	<1.0	<1.0	<1.0	<3.0	BDL	2.2	<1.0	NT	<0.019
WSW-2	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019
WSW-4	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019
WSW-5	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-6	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-7	<1.0	<1.0	<1.0	<3.0	BDL	4.3	<1.0	NT	<0.019
WSW-8	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-9	<1.0	0.72J	<1.0	<3.0	0.72J	<1.0	<1.0	NT	<0.019

Notes:
- Groundwater samples collected on July 28, 2010.
- Contour Interval = 40,000 ug/l
- BDL = Below Detection Limits
- "J" Values included in Total BTEX Calculations
- Monitoring wells and Water Supply Wells used in contouring.
- Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

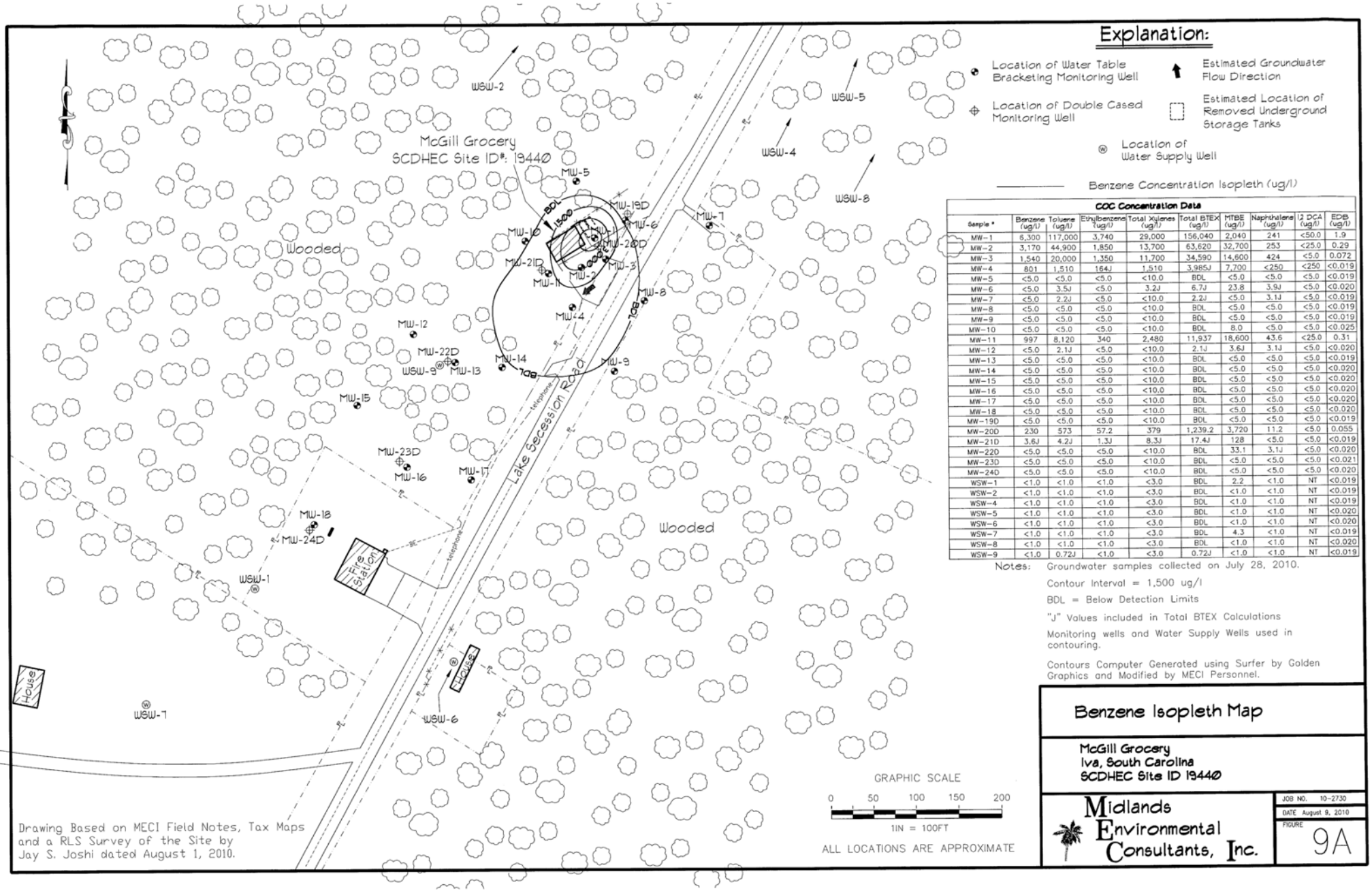
Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

Total BTEX Isopleth Map

McGill Grocery
Iva, South Carolina
SCDHEC Site ID 19440

Midlands Environmental Consultants, Inc.

JOB NO. 10-2730
DATE August 9, 2010
FIGURE 9



Explanation:

- Location of Water Table Bracketing Monitoring Well
- Location of Double Cased Monitoring Well
- Location of Water Supply Well
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- Benzene Concentration Isopleth (ug/l)

COC Concentration Data

Sample #	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)	12 DCA (ug/l)	EDB (ug/l)
MW-1	6,300	117,000	3,740	29,000	156,040	2,040	241	<50.0	1.9
MW-2	3,170	44,900	1,850	13,700	63,620	32,700	253	<25.0	0.29
MW-3	1,540	20,000	1,350	11,700	34,590	14,600	424	<5.0	0.072
MW-4	801	1,510	164J	1,510	3,985J	7,700	<250	<250	<0.019
MW-5	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-6	<5.0	3.5J	<5.0	3.2J	6.7J	23.8	3.9J	<5.0	<0.020
MW-7	<5.0	2.2J	<5.0	<10.0	2.2J	<5.0	3.1J	<5.0	<0.019
MW-8	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-9	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-10	<5.0	<5.0	<5.0	<10.0	BDL	8.0	<5.0	<5.0	<0.025
MW-11	997	8,120	340	2,480	11,937	18,600	43.6	<25.0	0.31
MW-12	<5.0	2.1J	<5.0	<10.0	2.1J	3.6J	3.1J	<5.0	<0.020
MW-13	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-14	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-16	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-17	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-18	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-19D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-20D	230	573	57.2	379	1,239.2	3,720	11.2	<5.0	0.055
MW-21D	3.6J	4.2J	1.3J	8.3J	17.4J	128	<5.0	<5.0	<0.019
MW-22D	<5.0	<5.0	<5.0	<10.0	BDL	33.1	3.1J	<5.0	<0.020
MW-23D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.021
MW-24D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
WSW-1	<1.0	<1.0	<1.0	<3.0	BDL	2.2	<1.0	NT	<0.019
WSW-2	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019
WSW-4	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019
WSW-5	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-6	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-7	<1.0	<1.0	<1.0	<3.0	BDL	4.3	<1.0	NT	<0.019
WSW-8	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-9	<1.0	0.72J	<1.0	<3.0	0.72J	<1.0	<1.0	NT	<0.019

Notes:
Groundwater samples collected on July 28, 2010.
Contour Interval = 1,500 ug/l
BDL = Below Detection Limits
"J" Values included in Total BTEX Calculations
Monitoring wells and Water Supply Wells used in contouring.
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

GRAPHIC SCALE
0 50 100 150 200
1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

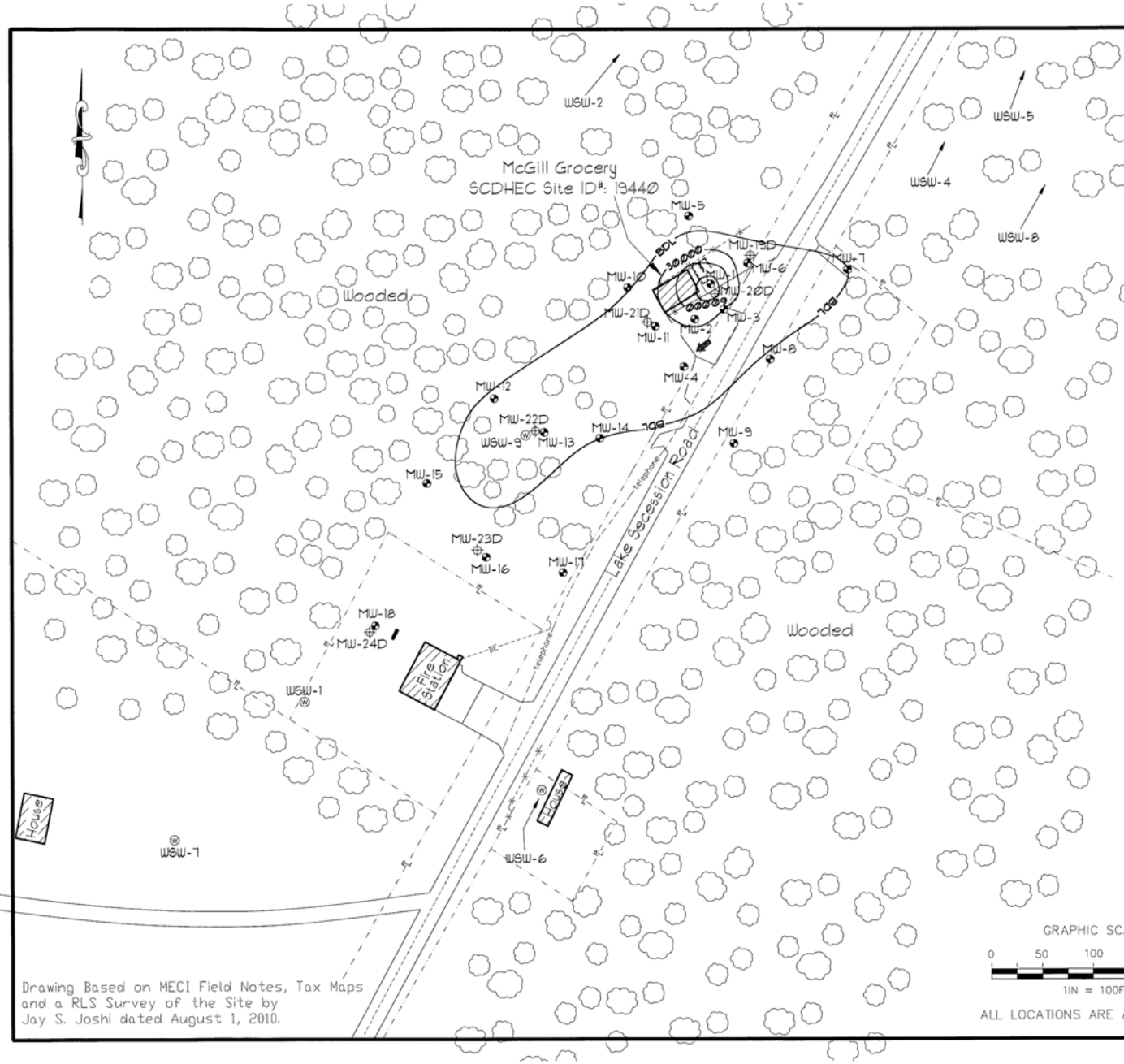
Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

Benzene Isopleth Map

McGill Grocery
Iva, South Carolina
SCDHEC Site ID 19440

Midlands Environmental Consultants, Inc.

JOB NO. 10-2730
DATE August 9, 2010
FIGURE 9A



Explanation:

- Location of Water Table Bracketing Monitoring Well
- Location of Double Cased Monitoring Well
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- Location of Water Supply Well
- Toluene Concentration Isopleth (ug/l)

COC Concentration Data

Sample #	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)	1,2 DCA (ug/l)	EDB (ug/l)
MW-1	6,300	117,000	3,740	29,000	156,040	2,040	241	<50.0	1.9
MW-2	3,170	44,900	1,850	13,700	63,620	32,700	253	<25.0	0.29
MW-3	1,540	20,000	1,350	11,700	34,590	14,600	424	<5.0	0.072
MW-4	801	1,510	164J	1,510	3,985J	7,700	<250	<250	<0.019
MW-5	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-6	<5.0	3.5J	<5.0	3.2J	6.7J	23.8	3.9J	<5.0	<0.020
MW-7	<5.0	2.2J	<5.0	<10.0	2.2J	<5.0	3.1J	<5.0	<0.019
MW-8	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-9	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-10	<5.0	<5.0	<5.0	<10.0	BDL	8.0	<5.0	<5.0	<0.025
MW-11	997	8,120	340	2,480	11,937	18,600	43.6	<25.0	0.31
MW-12	<5.0	2.1J	<5.0	<10.0	2.1J	3.6J	3.1J	<5.0	<0.020
MW-13	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-14	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-16	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-17	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-18	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-19D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-20D	230	573	57.2	379	1,239.2	3,720	11.2	<5.0	0.055
MW-21D	3.6J	4.2J	1.3J	8.3J	17.4J	128	<5.0	<5.0	<0.019
MW-22D	<5.0	<5.0	<5.0	<10.0	BDL	33.1	3.1J	<5.0	<0.020
MW-23D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.021
MW-24D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
WSW-1	<1.0	<1.0	<1.0	<3.0	BDL	2.2	<1.0	NT	<0.019
WSW-2	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019
WSW-4	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019
WSW-5	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-6	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-7	<1.0	<1.0	<1.0	<3.0	BDL	4.3	<1.0	NT	<0.019
WSW-8	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-9	<1.0	0.72J	<1.0	<3.0	0.72J	<1.0	<1.0	NT	<0.019

Notes:
- Groundwater samples collected on July 28, 2010.
- Contour Interval = 30,000 ug/l
- BDL = Below Detection Limits
- "J" Values included in Total BTEX Calculations
- Monitoring wells and Water Supply Wells used in contouring.
- Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

GRAPHIC SCALE
0 50 100 150 200
1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

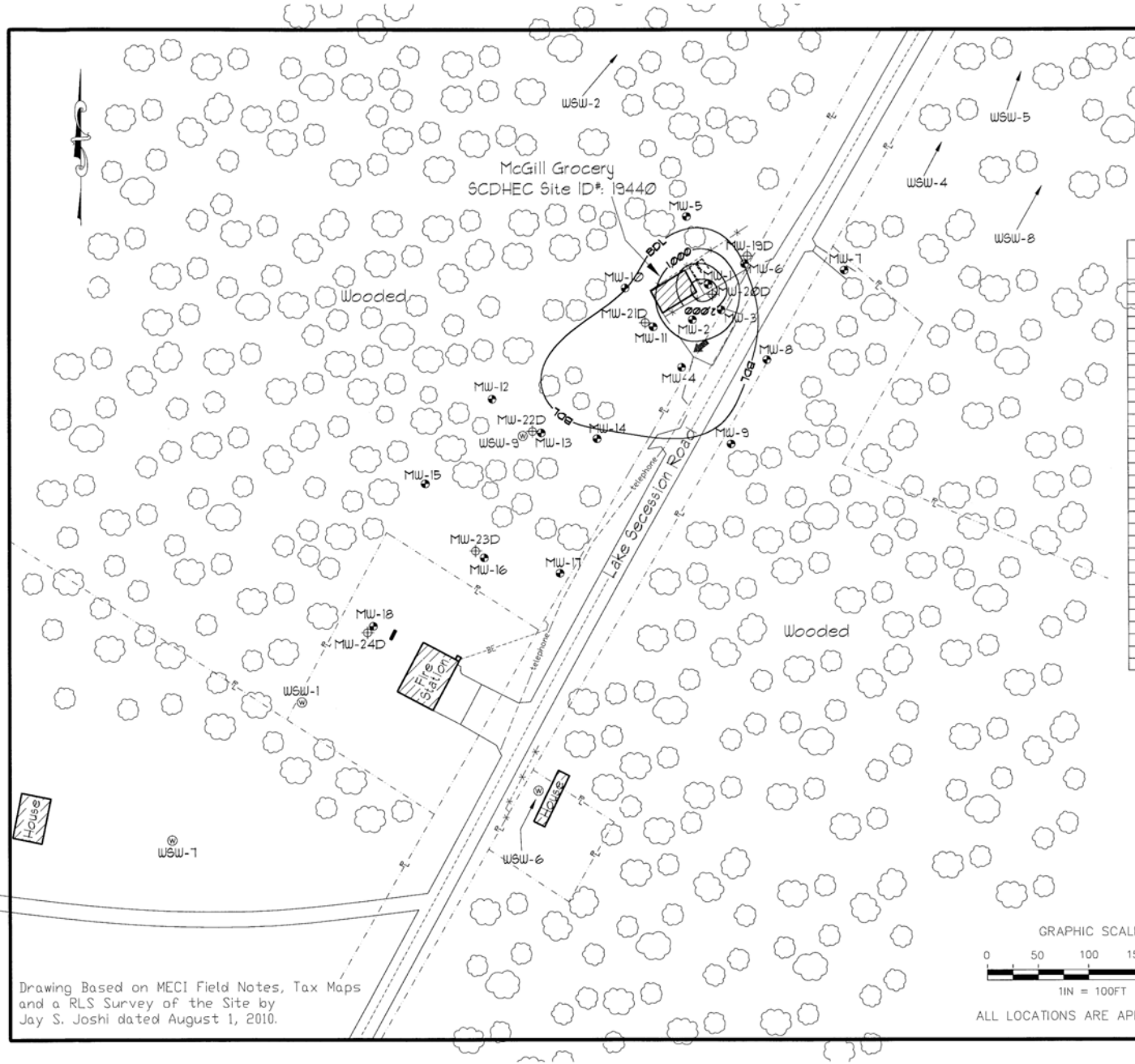
Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

Toluene Isopleth Map

McGill Grocery
Iva, South Carolina
SCDHEC Site ID 19440

Midlands Environmental Consultants, Inc.

JOB NO. 10-2730
DATE August 9, 2010
FIGURE 9B



Explanation:

- Location of Water Table Bracketing Monitoring Well
- Location of Double Cased Monitoring Well
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- Location of Water Supply Well
- Ethylbenzene Concentration Isopleth (ug/l)

COC Concentration Data

Sample #	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)	12 DCA (ug/l)	EDB (ug/l)
MW-1	6,300	117,000	3,740	29,000	156,040	2,040	241	<50.0	1.9
MW-2	3,170	44,900	1,850	13,700	63,620	32,700	253	<25.0	0.29
MW-3	1,540	20,000	1,350	11,700	34,590	14,600	424	<5.0	0.072
MW-4	801	1,510	164J	1,510	3,985J	7,700	<250	<250	<0.019
MW-5	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-6	<5.0	3.5J	<5.0	3.2J	6.7J	23.8	3.9J	<5.0	<0.020
MW-7	<5.0	2.2J	<5.0	<10.0	2.2J	<5.0	3.1J	<5.0	<0.019
MW-8	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-9	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-10	<5.0	<5.0	<5.0	<10.0	BDL	8.0	<5.0	<5.0	<0.025
MW-11	997	8,120	340	2,480	11,937	18,600	43.6	<25.0	0.31
MW-12	<5.0	2.1J	<5.0	<10.0	2.1J	3.6J	3.1J	<5.0	<0.020
MW-13	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-14	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-16	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-17	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-18	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-19D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-20D	230	573	57.2	379	1,239.2	3,720	11.2	<5.0	0.055
MW-21D	3.6J	4.2J	1.3J	8.3J	17.4J	128	<5.0	<5.0	<0.019
MW-22D	<5.0	<5.0	<5.0	<10.0	BDL	33.1	3.1J	<5.0	<0.020
MW-23D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.021
MW-24D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
WSW-1	<1.0	<1.0	<1.0	<3.0	BDL	2.2	<1.0	NT	<0.019
WSW-2	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019
WSW-4	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019
WSW-5	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-6	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-7	<1.0	<1.0	<1.0	<3.0	BDL	4.3	<1.0	NT	<0.019
WSW-8	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-9	<1.0	0.72J	<1.0	<3.0	0.72J	<1.0	<1.0	NT	<0.019

Notes:
- Groundwater samples collected on July 28, 2010.
- Contour Interval = 1,000 ug/l
- BDL = Below Detection Limits
- "J" Values included in Total BTEX Calculations
- Monitoring wells and Water Supply Wells used in contouring.
- Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

GRAPHIC SCALE
0 50 100 150 200
1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

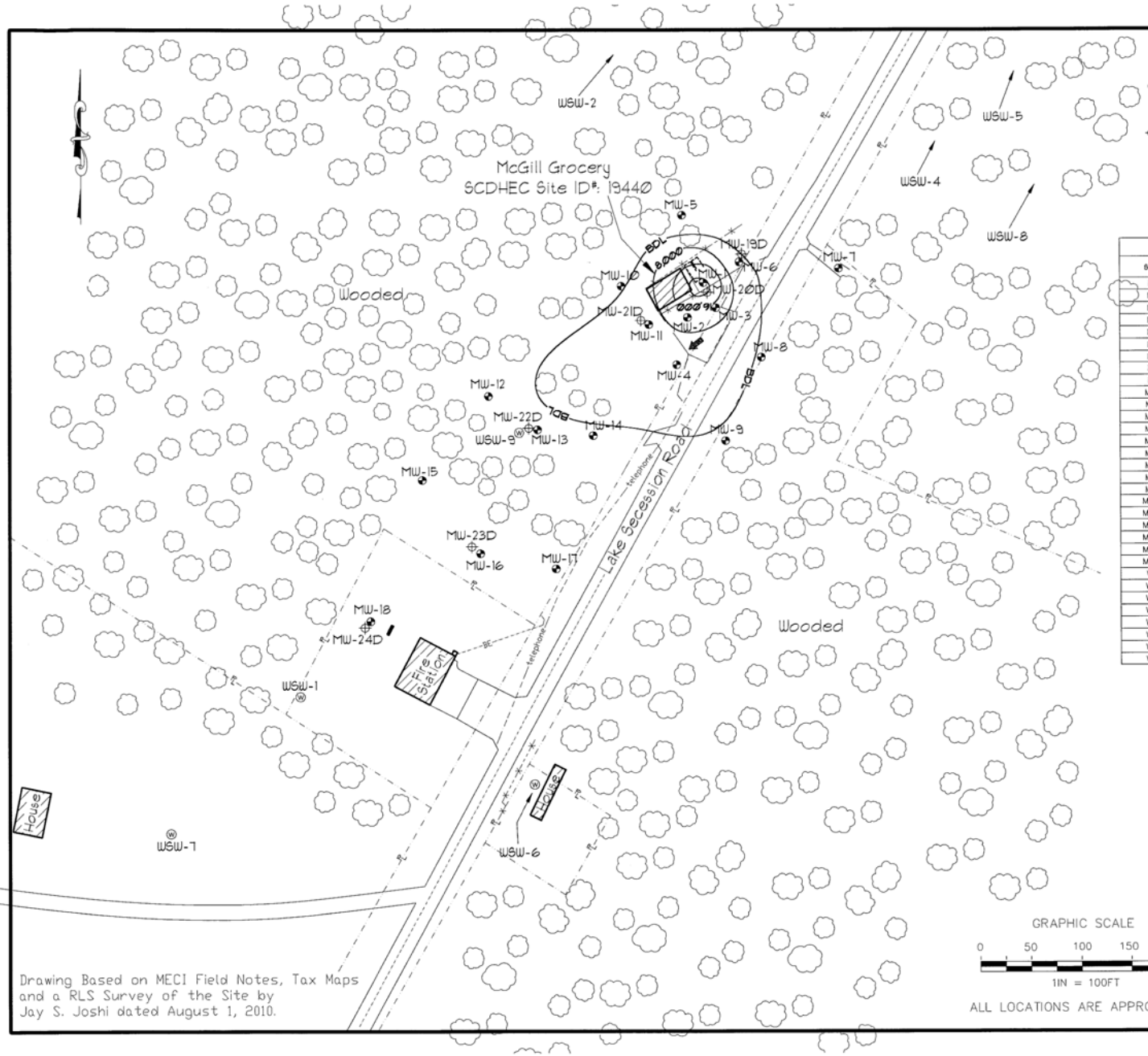
Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

Ethylbenzene Isopleth Map

McGill Grocery
Iva, South Carolina
SCDHEC Site ID 19440

Midlands Environmental Consultants, Inc.

JOB NO. 10-2730
DATE August 9, 2010
FIGURE 9C



Explanation:

- Location of Water Table Bracketing Monitoring Well
- Location of Double Cased Monitoring Well
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- Location of Water Supply Well
- Total Xylenes Concentration Isopleth (ug/l)

COC Concentration Data

Sample #	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)	1,2 DCA (ug/l)	EDB (ug/l)
MW-1	6,300	117,000	3,740	29,000	156,040	2,040	241	<50.0	1.9
MW-2	3,170	44,900	1,850	13,700	63,620	32,700	253	<25.0	0.29
MW-3	1,540	20,000	1,350	11,700	34,590	14,600	424	<5.0	0.072
MW-4	801	1,510	164J	1,510	3,985J	7,700	<250	<250	<0.019
MW-5	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-6	<5.0	3.5J	<5.0	3.2J	6.7J	23.8	3.9J	<5.0	<0.020
MW-7	<5.0	2.2J	<5.0	<10.0	2.2J	<5.0	3.1J	<5.0	<0.019
MW-8	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-9	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-10	<5.0	<5.0	<5.0	<10.0	BDL	8.0	<5.0	<5.0	<0.025
MW-11	997	8,120	340	2,480	11,937	18,600	43.6	<25.0	0.31
MW-12	<5.0	2.1J	<5.0	<10.0	2.1J	3.6J	3.1J	<5.0	<0.020
MW-13	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-14	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-16	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-17	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-18	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-19D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-20D	230	573	57.2	379	1,239.2	3,720	11.2	<5.0	0.055
MW-21D	3.6J	4.2J	1.3J	8.3J	17.4J	128	<5.0	<5.0	<0.019
MW-22D	<5.0	<5.0	<5.0	<10.0	BDL	33.1	3.1J	<5.0	<0.020
MW-23D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.021
MW-24D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
WSW-1	<1.0	<1.0	<1.0	<3.0	BDL	2.2	<1.0	NT	<0.019
WSW-2	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019
WSW-4	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019
WSW-5	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-6	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-7	<1.0	<1.0	<1.0	<3.0	BDL	4.3	<1.0	NT	<0.019
WSW-8	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-9	<1.0	0.72J	<1.0	<3.0	0.72J	<1.0	<1.0	NT	<0.019

Notes:
- Groundwater samples collected on July 28, 2010.
- Contour Interval = 8,000 ug/l
- BDL = Below Detection Limits
- "J" Values included in Total BTEX Calculations
- Monitoring wells and Water Supply Wells used in contouring.
- Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

GRAPHIC SCALE
0 50 100 150 200
1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

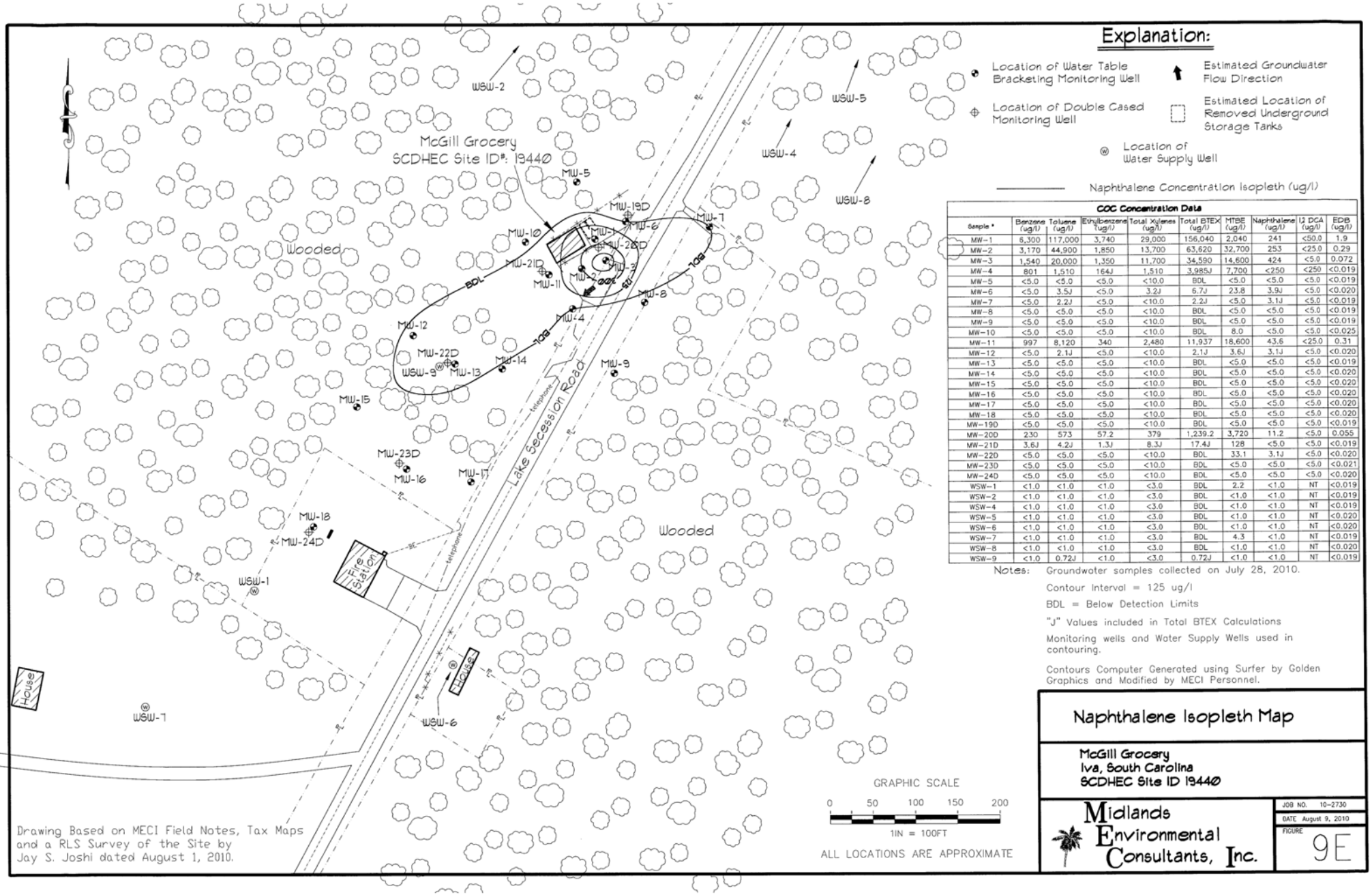
Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

Total Xylenes Isopleth Map

McGill Grocery
Iva, South Carolina
SCDHEC Site ID 19440

Midlands Environmental Consultants, Inc.

JOB NO. 10-2730
DATE August 9, 2010
FIGURE 9D



Explanation:

- Location of Water Table Bracketing Monitoring Well
- Location of Double Cased Monitoring Well
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- Location of Water Supply Well
- Naphthalene Concentration Isopleth (ug/l)

COC Concentration Data

Sample #	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)	1,2 DCA (ug/l)	EDB (ug/l)
MW-1	6,300	117,000	3,740	29,000	156,040	2,040	241	<50.0	1.9
MW-2	3,170	44,900	1,850	13,700	63,620	32,700	253	<25.0	0.29
MW-3	1,540	20,000	1,350	11,700	34,590	14,600	424	<5.0	0.072
MW-4	801	1,510	164J	1,510	3,985J	7,700	<250	<250	<0.019
MW-5	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-6	<5.0	3.5J	<5.0	3.2J	6.7J	23.8	3.9J	<5.0	<0.020
MW-7	<5.0	2.2J	<5.0	<10.0	2.2J	<5.0	3.1J	<5.0	<0.019
MW-8	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-9	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-10	<5.0	<5.0	<5.0	<10.0	BDL	8.0	<5.0	<5.0	<0.025
MW-11	997	8,120	340	2,480	11,937	18,600	43.6	<25.0	0.31
MW-12	<5.0	2.1J	<5.0	<10.0	2.1J	3.6J	3.1J	<5.0	<0.020
MW-13	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-14	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-16	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-17	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-18	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-19D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-20D	230	573	57.2	379	1,239.2	3,720	11.2	<5.0	0.055
MW-21D	3.6J	4.2J	1.3J	8.3J	17.4J	128	<5.0	<5.0	<0.019
MW-22D	<5.0	<5.0	<5.0	<10.0	BDL	33.1	3.1J	<5.0	<0.020
MW-23D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.021
MW-24D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
WSW-1	<1.0	<1.0	<1.0	<3.0	BDL	2.2	<1.0	NT	<0.019
WSW-2	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019
WSW-4	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019
WSW-5	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-6	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-7	<1.0	<1.0	<1.0	<3.0	BDL	4.3	<1.0	NT	<0.019
WSW-8	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-9	<1.0	0.72J	<1.0	<3.0	0.72J	<1.0	<1.0	NT	<0.019

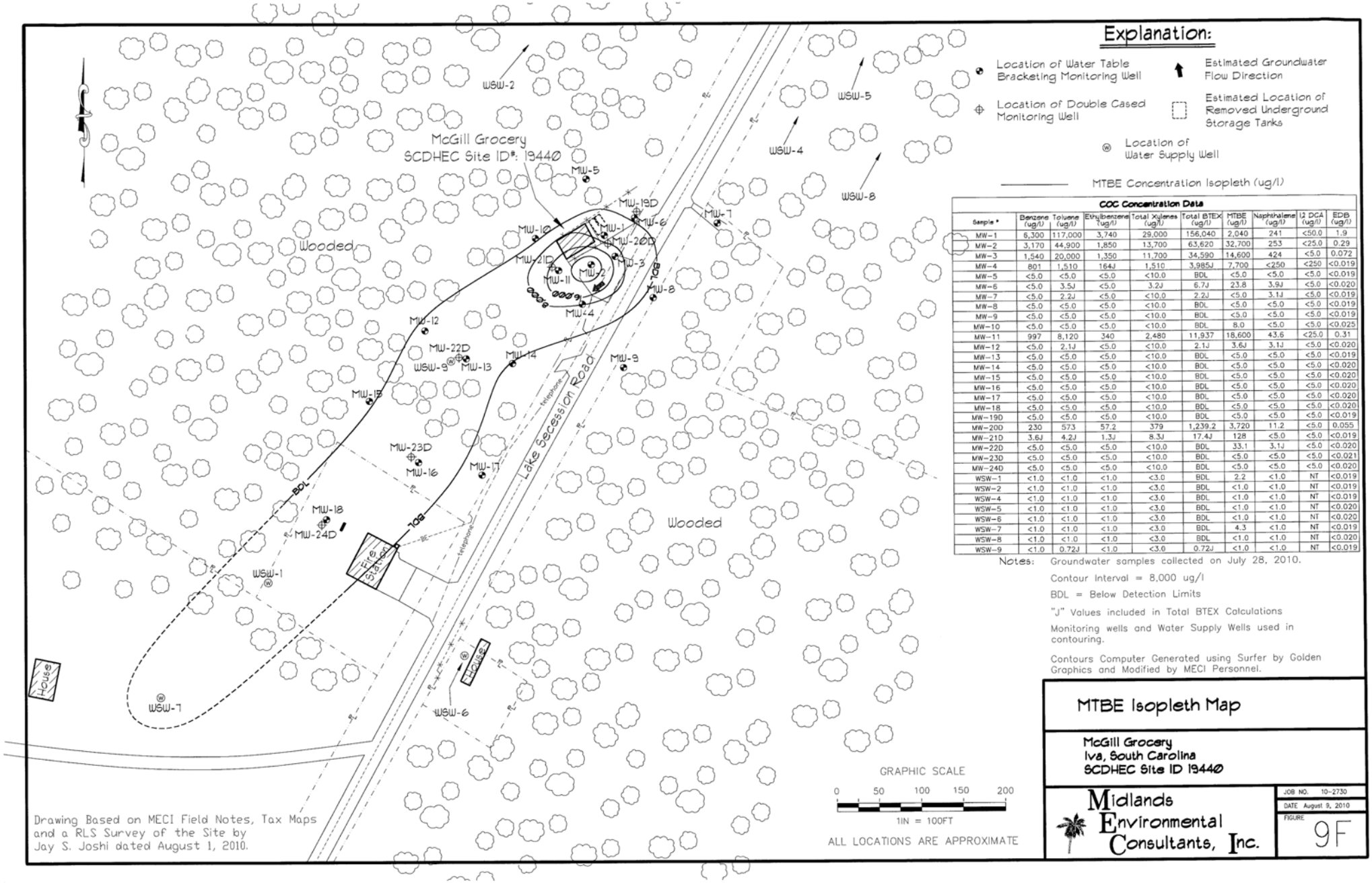
Notes:
Groundwater samples collected on July 28, 2010.
Contour Interval = 125 ug/l
BDL = Below Detection Limits
"J" Values included in Total BTEX Calculations
Monitoring wells and Water Supply Wells used in contouring.
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

Naphthalene Isopleth Map

McGill Grocery
Iva, South Carolina
SCDHEC Site ID 19440

Midlands Environmental Consultants, Inc.

JOB NO. 10-2730
DATE August 9, 2010
FIGURE 9E



Explanation:

- Location of Water Table Bracketing Monitoring Well
- Location of Double Cased Monitoring Well
- Location of Water Supply Well
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- MTBE Concentration Isopleth (ug/l)

COC Concentration Data

Sample #	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)	1,2 DCA (ug/l)	EDB (ug/l)
MW-1	6,300	117,000	3,740	29,000	156,040	2,040	241	<50.0	1.9
MW-2	3,170	44,900	1,850	13,700	63,620	32,700	253	<25.0	0.29
MW-3	1,540	20,000	1,350	11,700	34,590	14,600	424	<5.0	0.072
MW-4	801	1,510	164J	1,510	3,985J	7,700	<250	<250	<0.019
MW-5	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-6	<5.0	3.5J	<5.0	3.2J	6.7J	23.8	3.9J	<5.0	<0.020
MW-7	<5.0	2.2J	<5.0	<10.0	2.2J	<5.0	3.1J	<5.0	<0.019
MW-8	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-9	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-10	<5.0	<5.0	<5.0	<10.0	BDL	8.0	<5.0	<5.0	<0.025
MW-11	997	8,120	340	2,480	11,937	18,600	43.6	<25.0	0.31
MW-12	<5.0	2.1J	<5.0	<10.0	2.1J	3.6J	3.1J	<5.0	<0.020
MW-13	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-14	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-16	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-17	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-18	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-19D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-20D	230	573	57.2	379	1,239.2	3,720	11.2	<5.0	0.055
MW-21D	3.6J	4.2J	1.3J	8.3J	17.4J	128	<5.0	<5.0	<0.019
MW-22D	<5.0	<5.0	<5.0	<10.0	BDL	33.1	3.1J	<5.0	<0.020
MW-23D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.021
MW-24D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
WSW-1	<1.0	<1.0	<1.0	<3.0	BDL	2.2	<1.0	NT	<0.019
WSW-2	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019
WSW-4	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019
WSW-5	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-6	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-7	<1.0	<1.0	<1.0	<3.0	BDL	4.3	<1.0	NT	<0.019
WSW-8	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-9	<1.0	0.72J	<1.0	<3.0	0.72J	<1.0	<1.0	NT	<0.019

Notes:
Groundwater samples collected on July 28, 2010.
Contour Interval = 8,000 ug/l
BDL = Below Detection Limits
"J" Values included in Total BTEX Calculations
Monitoring wells and Water Supply Wells used in contouring.
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

GRAPHIC SCALE
0 50 100 150 200
1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

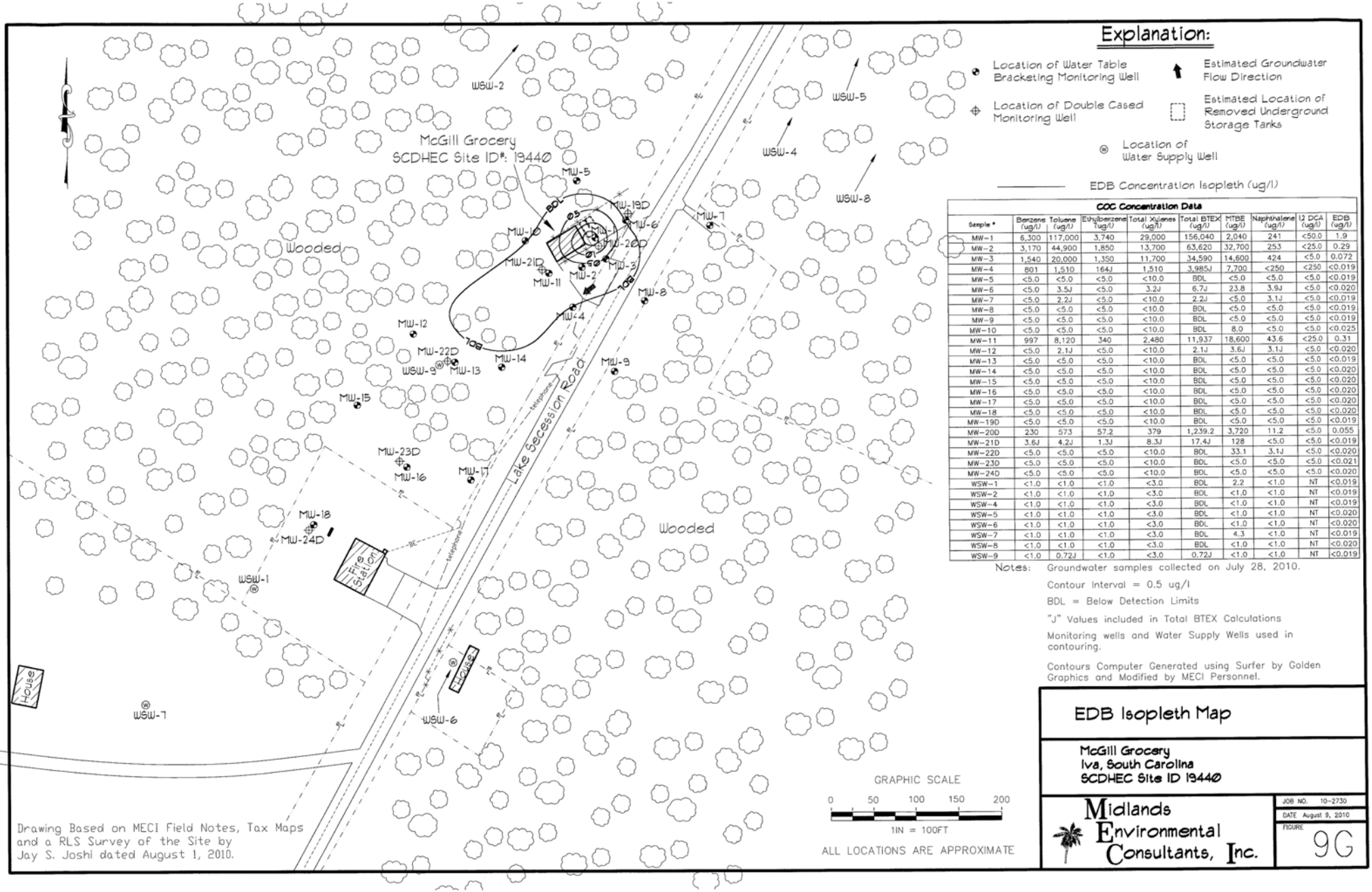
Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

MTBE Isopleth Map

McGill Grocery
Iva, South Carolina
SCDHEC Site ID 19440

Midlands Environmental Consultants, Inc.

JOB NO. 10-2730
DATE August 9, 2010
FIGURE 9F



Explanation:

- Location of Water Table Bracketing Monitoring Well
- Location of Double Cased Monitoring Well
- Location of Water Supply Well
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- EDB Concentration Isopleth (ug/l)

COC Concentration Data

Sample *	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)	12 DCA (ug/l)	EDB (ug/l)
MW-1	6,300	117,000	3,740	29,000	156,040	2,040	241	<50.0	1.9
MW-2	3,170	44,900	1,850	13,700	63,620	32,700	253	<25.0	0.29
MW-3	1,540	20,000	1,350	11,700	34,590	14,600	424	<5.0	0.072
MW-4	801	1,510	164J	1,510	3,985J	7,700	<250	<250	<0.019
MW-5	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-6	<5.0	3.5J	<5.0	3.2J	6.7J	23.8	3.9J	<5.0	<0.020
MW-7	<5.0	2.2J	<5.0	<10.0	2.2J	<5.0	3.1J	<5.0	<0.019
MW-8	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-9	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-10	<5.0	<5.0	<5.0	<10.0	BDL	8.0	<5.0	<5.0	<0.025
MW-11	997	8,120	340	2,480	11,937	18,600	43.6	<25.0	0.31
MW-12	<5.0	2.1J	<5.0	<10.0	2.1J	3.6J	3.1J	<5.0	<0.020
MW-13	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-14	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-16	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-17	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-18	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-19D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-20D	230	573	57.2	379	1,239.2	3,720	11.2	<5.0	0.055
MW-21D	3.6J	4.2J	1.3J	8.3J	17.4J	128	<5.0	<5.0	<0.019
MW-22D	<5.0	<5.0	<5.0	<10.0	BDL	33.1	3.1J	<5.0	<0.020
MW-23D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.021
MW-24D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
WSW-1	<1.0	<1.0	<1.0	<3.0	BDL	2.2	<1.0	NT	<0.019
WSW-2	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019
WSW-4	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019
WSW-5	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-6	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-7	<1.0	<1.0	<1.0	<3.0	BDL	4.3	<1.0	NT	<0.019
WSW-8	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020
WSW-9	<1.0	0.72J	<1.0	<3.0	0.72J	<1.0	<1.0	NT	<0.019

Notes:
Groundwater samples collected on July 28, 2010.
Contour Interval = 0.5 ug/l
BDL = Below Detection Limits
"J" Values included in Total BTEX Calculations
Monitoring wells and Water Supply Wells used in contouring.
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

GRAPHIC SCALE
0 50 100 150 200
1IN = 100FT
ALL LOCATIONS ARE APPROXIMATE

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

EDB Isopleth Map

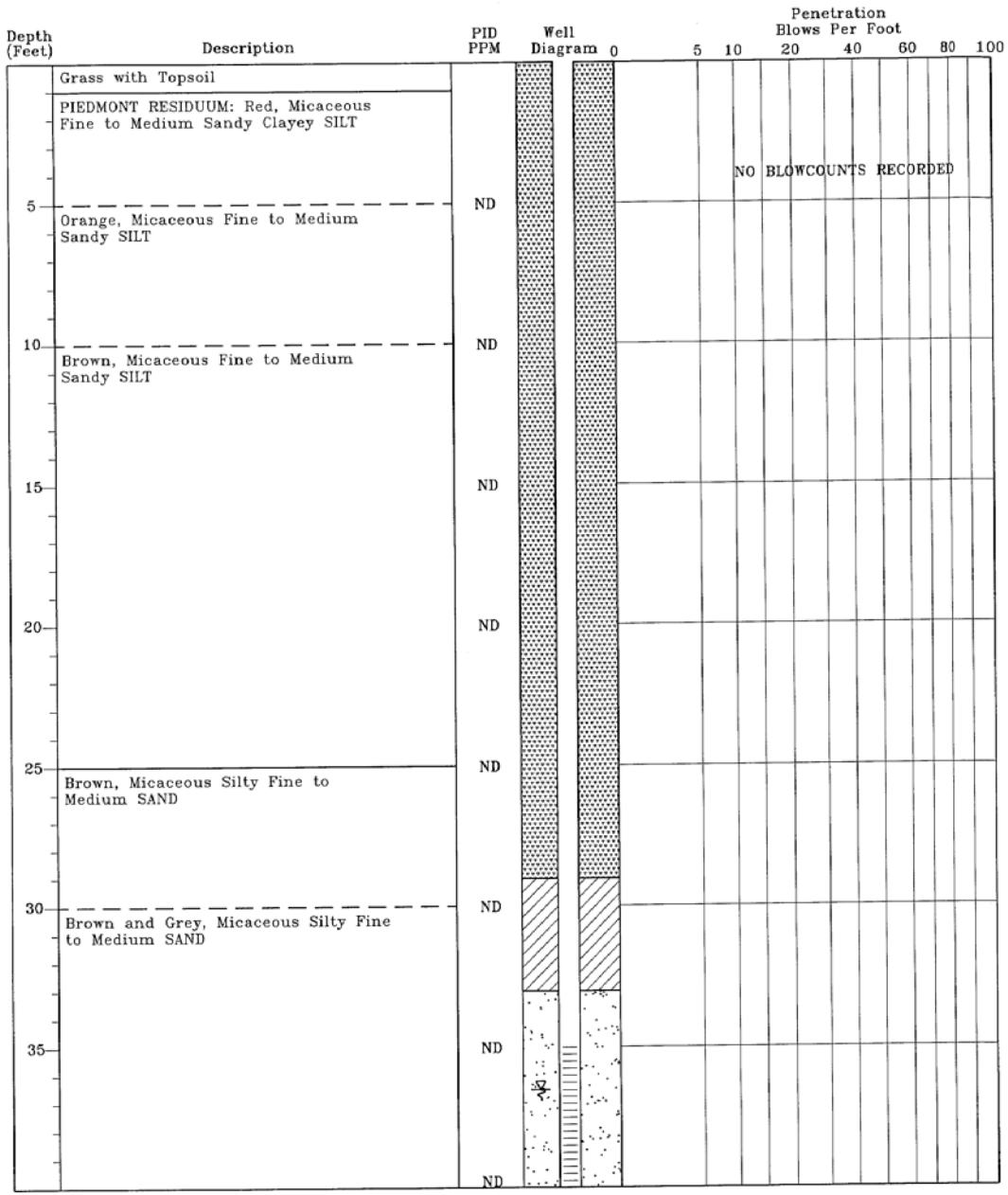
McGill Grocery
Iva, South Carolina
SCDHEC Site ID 19440

Midlands Environmental Consultants, Inc.

JOB NO. 10-2730
DATE August 9, 2010
FIGURE 9G

APPENDIX A

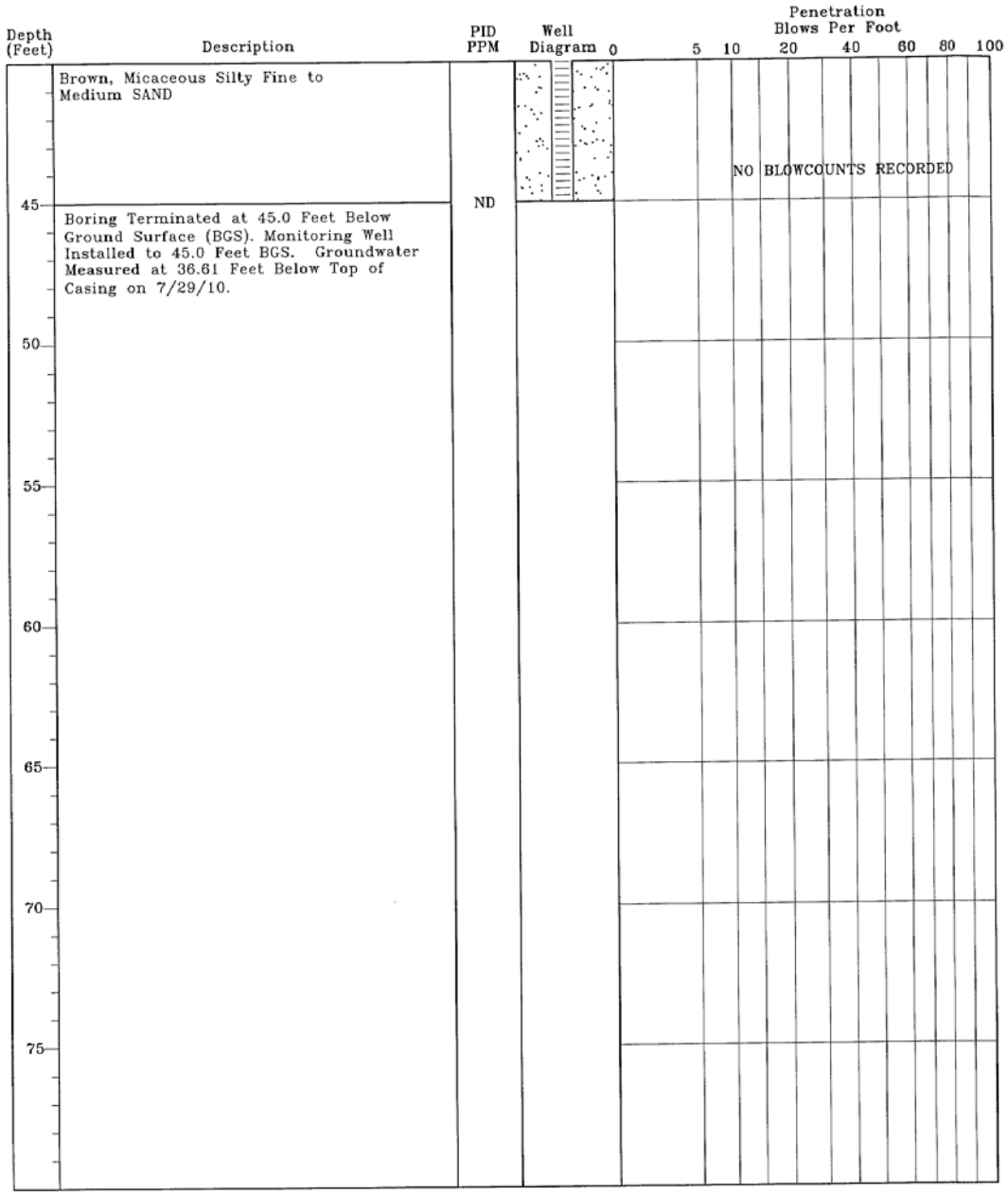
TEST BORING AND MONITORING WELL INSTALLATION RECORDS



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-5
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



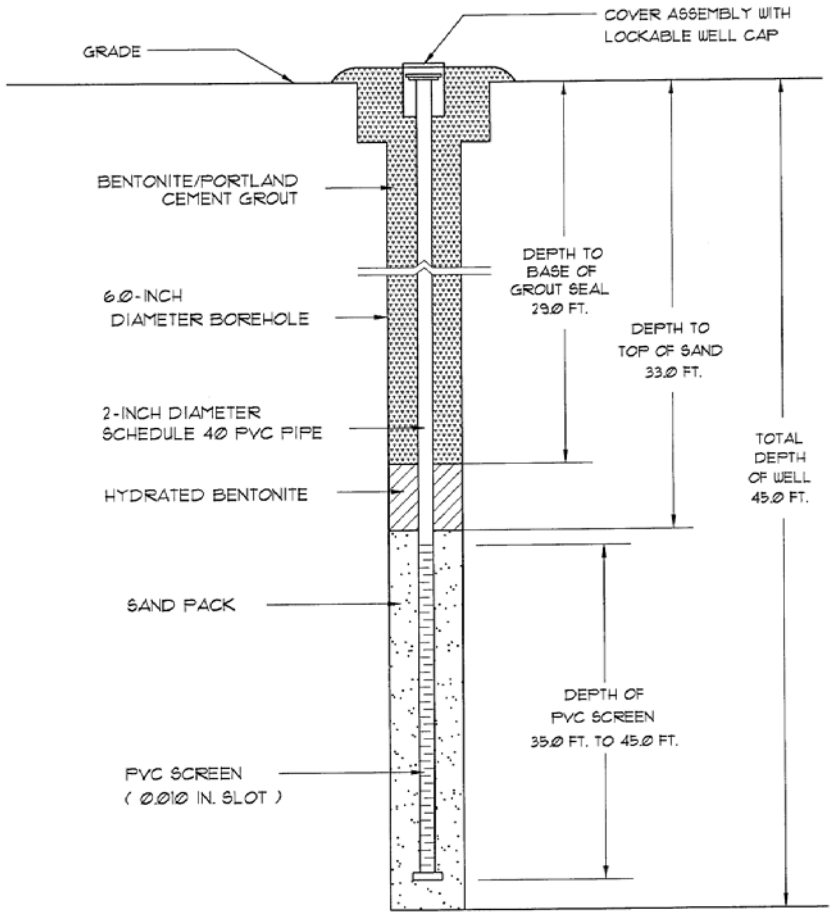
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-5
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

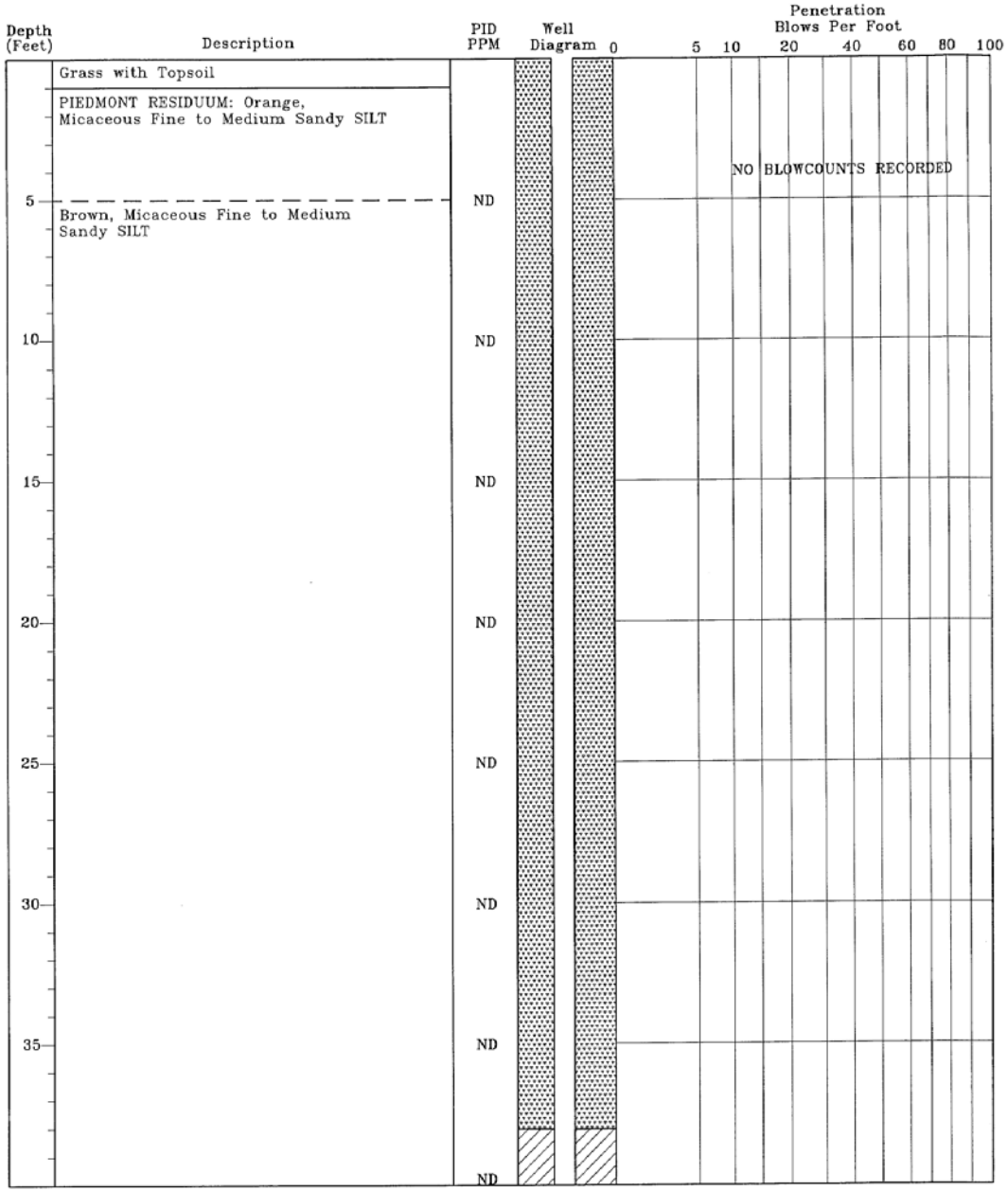
MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730



Well Number:	MW-5
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Driller: J. Mantak	S.C. I.D. #: B 01494
Logged By:	B. Kelly

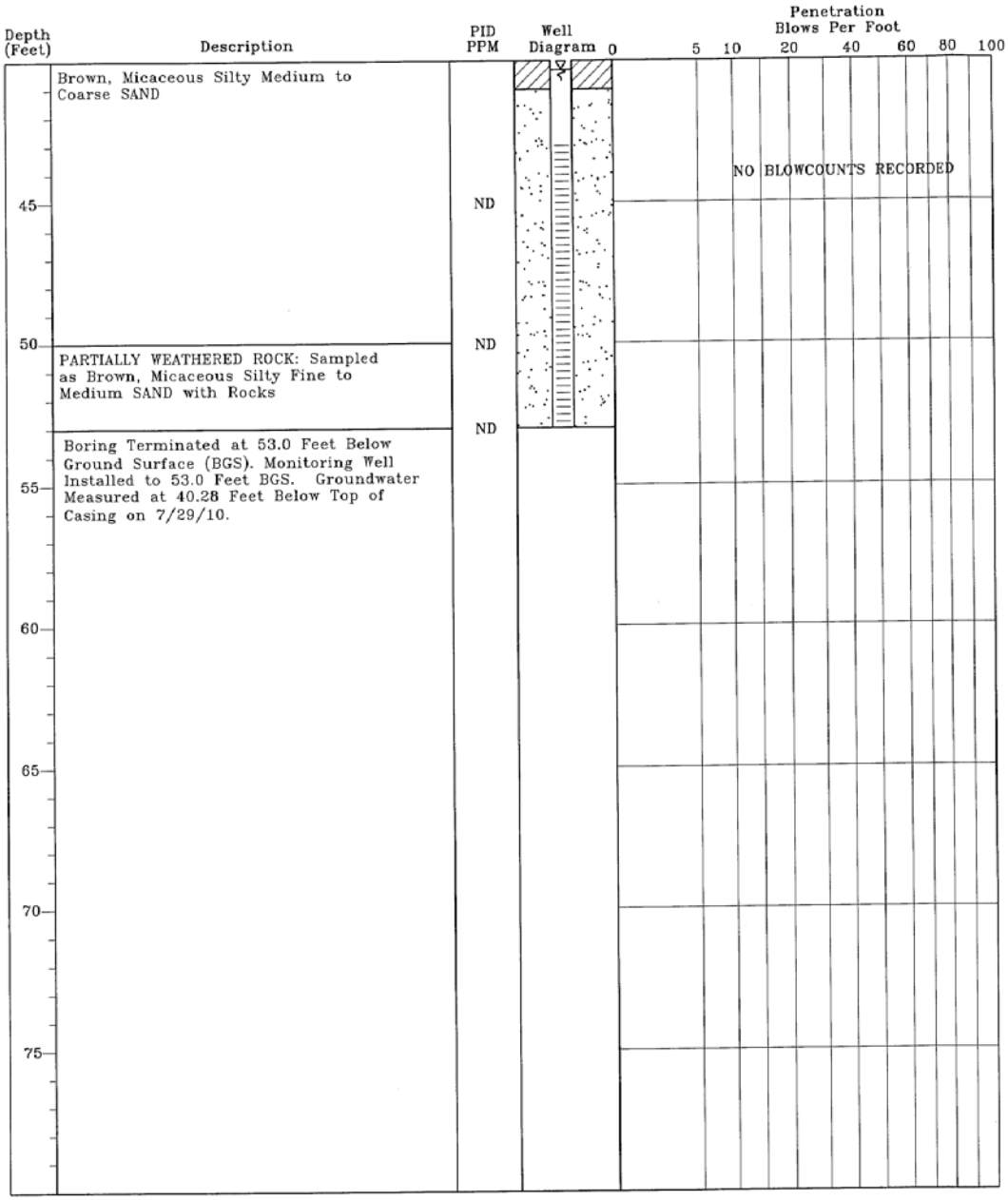
Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-6
Date Drilled:	7/19/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



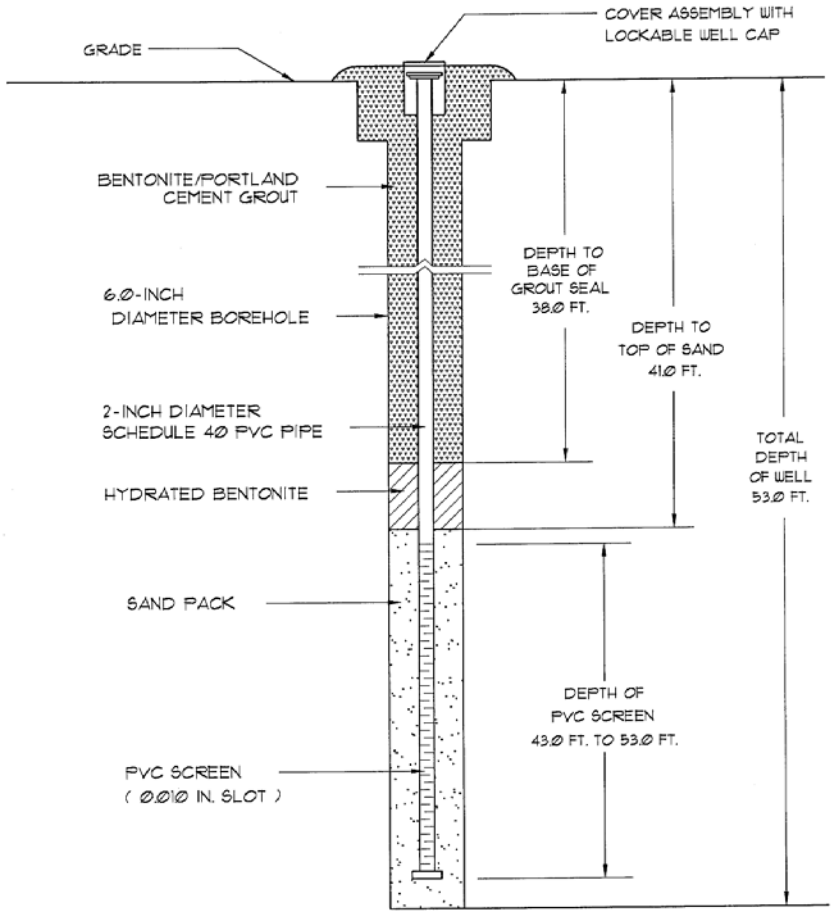
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-6
Date Drilled:	7/19/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

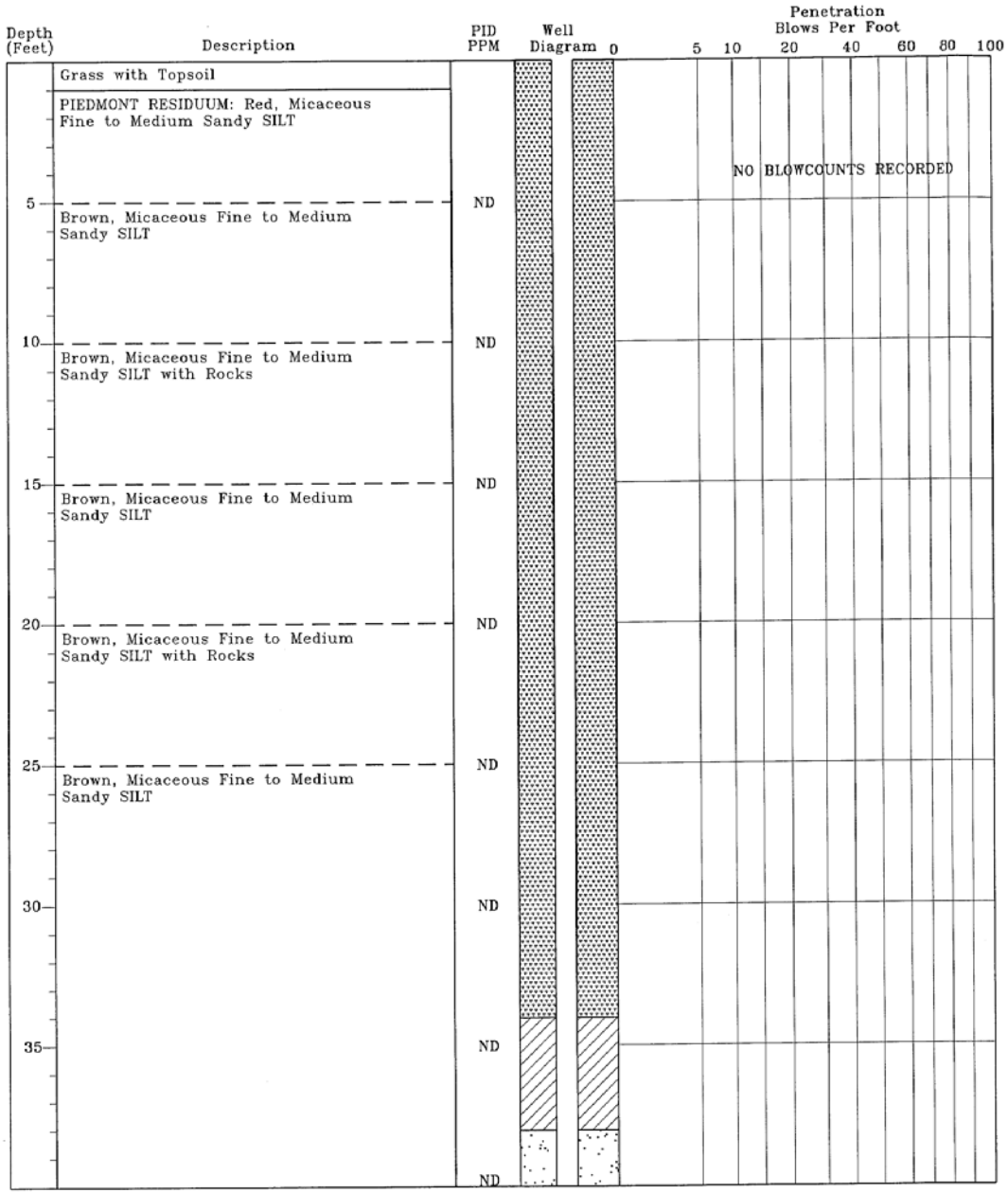
MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730



Well Number:	MW-6
Date Drilled:	7/19/10
Drilled By:	Geologic Exploration Inc.
Driller: J. Watkins	S.C. I.D. #: B 01979
Logged By:	B. Kelly

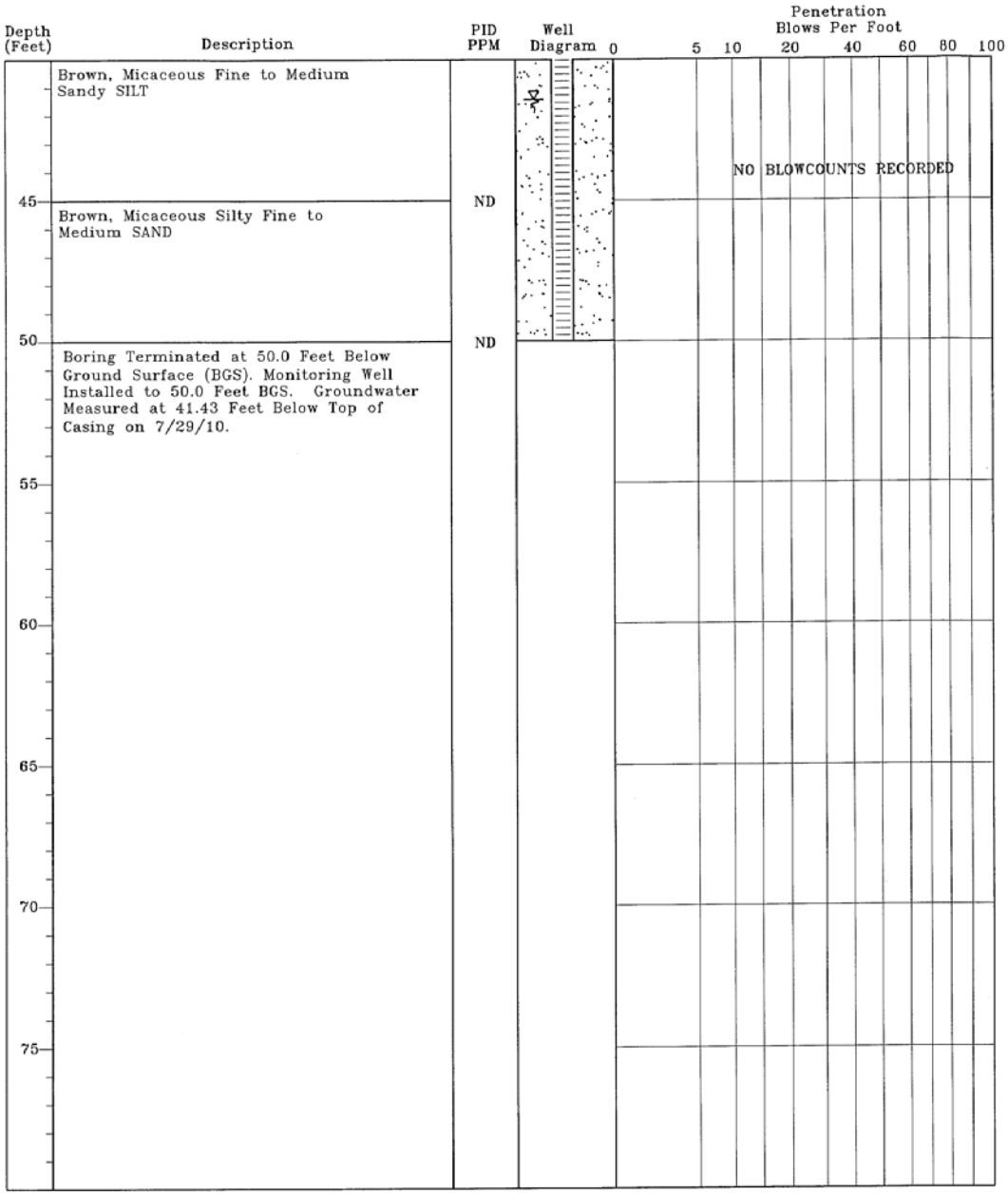
Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-7
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-1043 fax: 808-1048



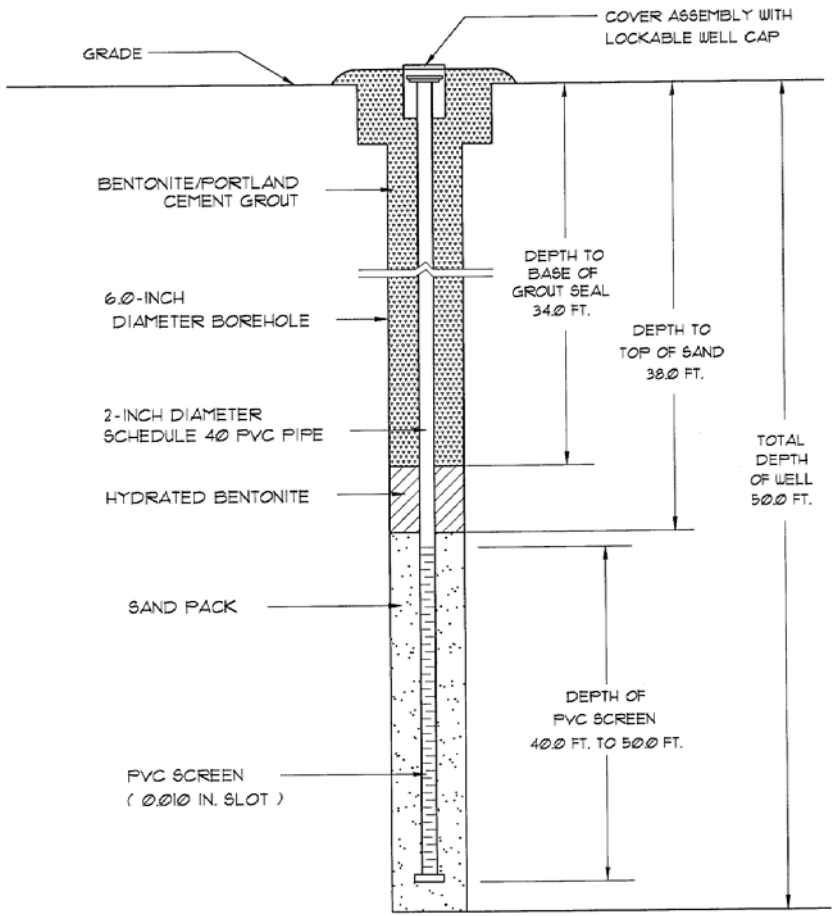
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-7
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

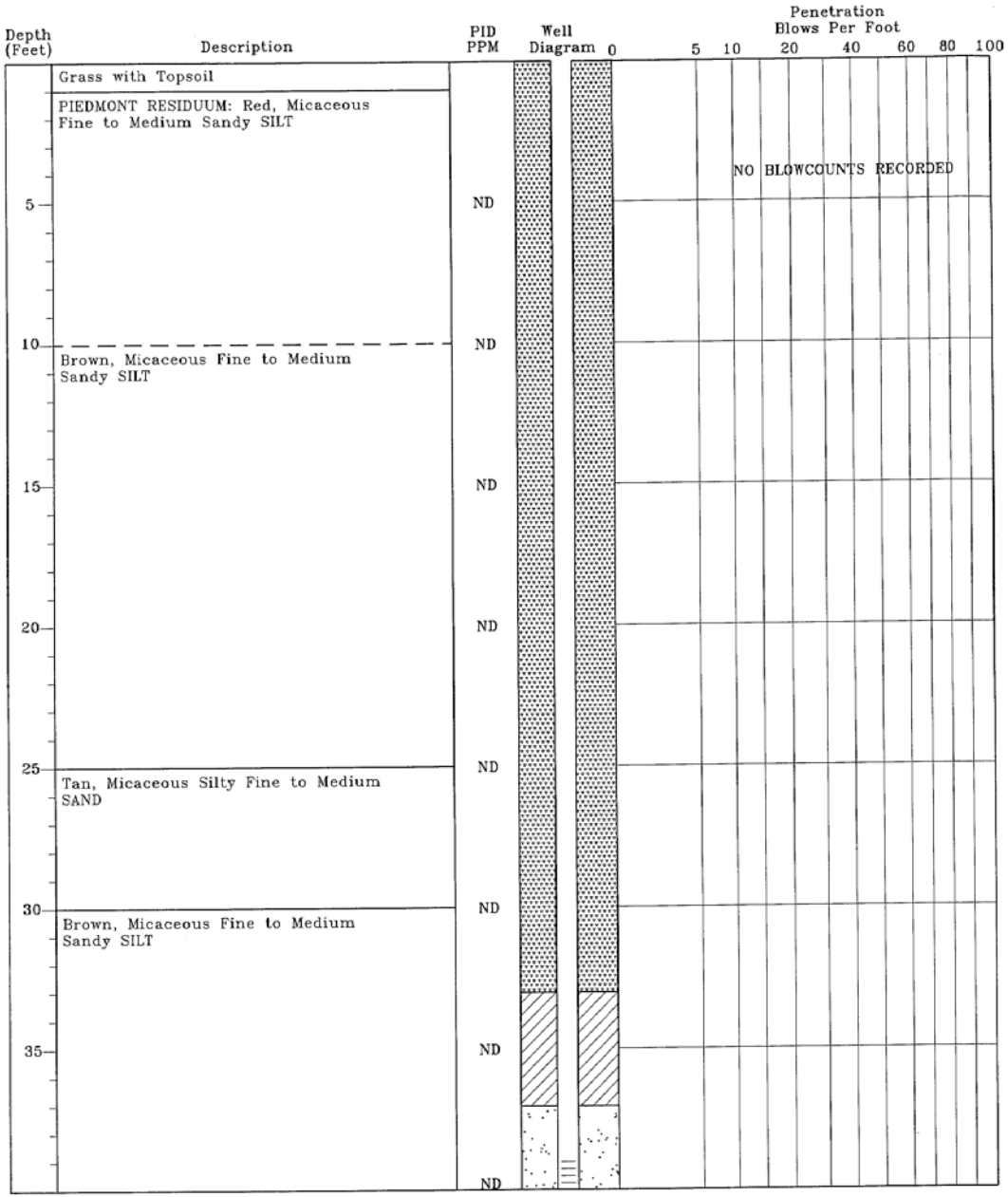
MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730



Well Number:	MW-7
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Driller: J. Mantak	S.C. I.D. #: B 01494
Logged By:	B. Kelly

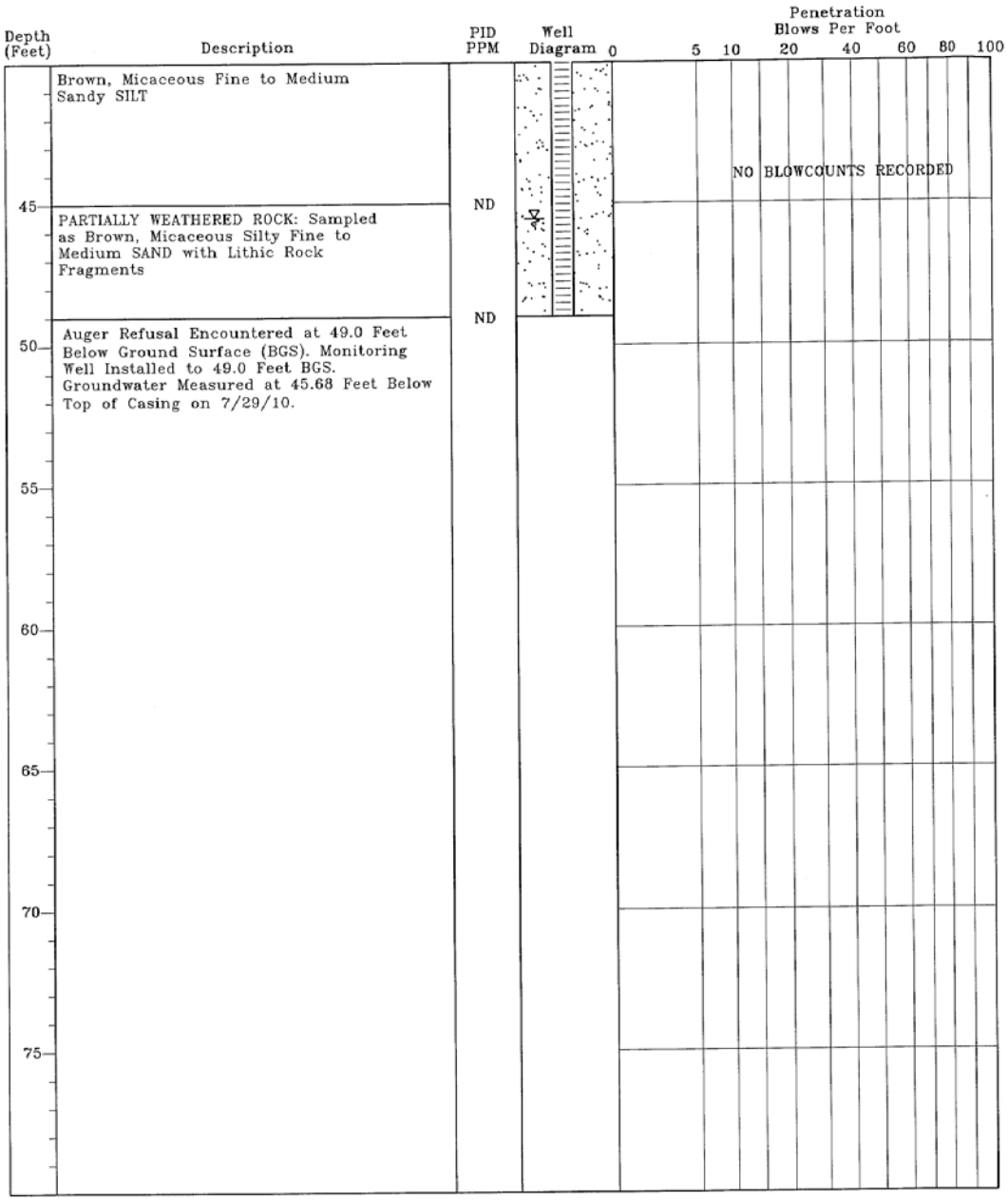
Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-8
Date Drilled:	7/24/10
Drilled By:	Geologic Exploration Inc.
Logged By:	J. Bryant

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



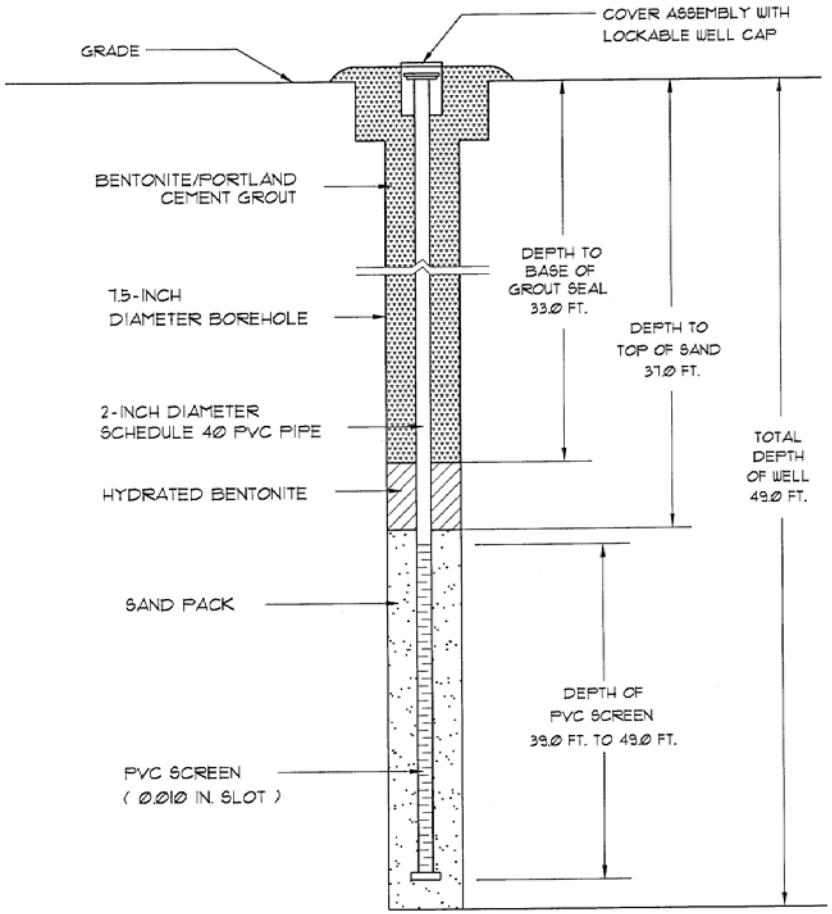
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-8
Date Drilled:	7/24/10
Drilled By:	Geologic Exploration Inc.
Logged By:	J. Bryant

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 Fax: 808-2048

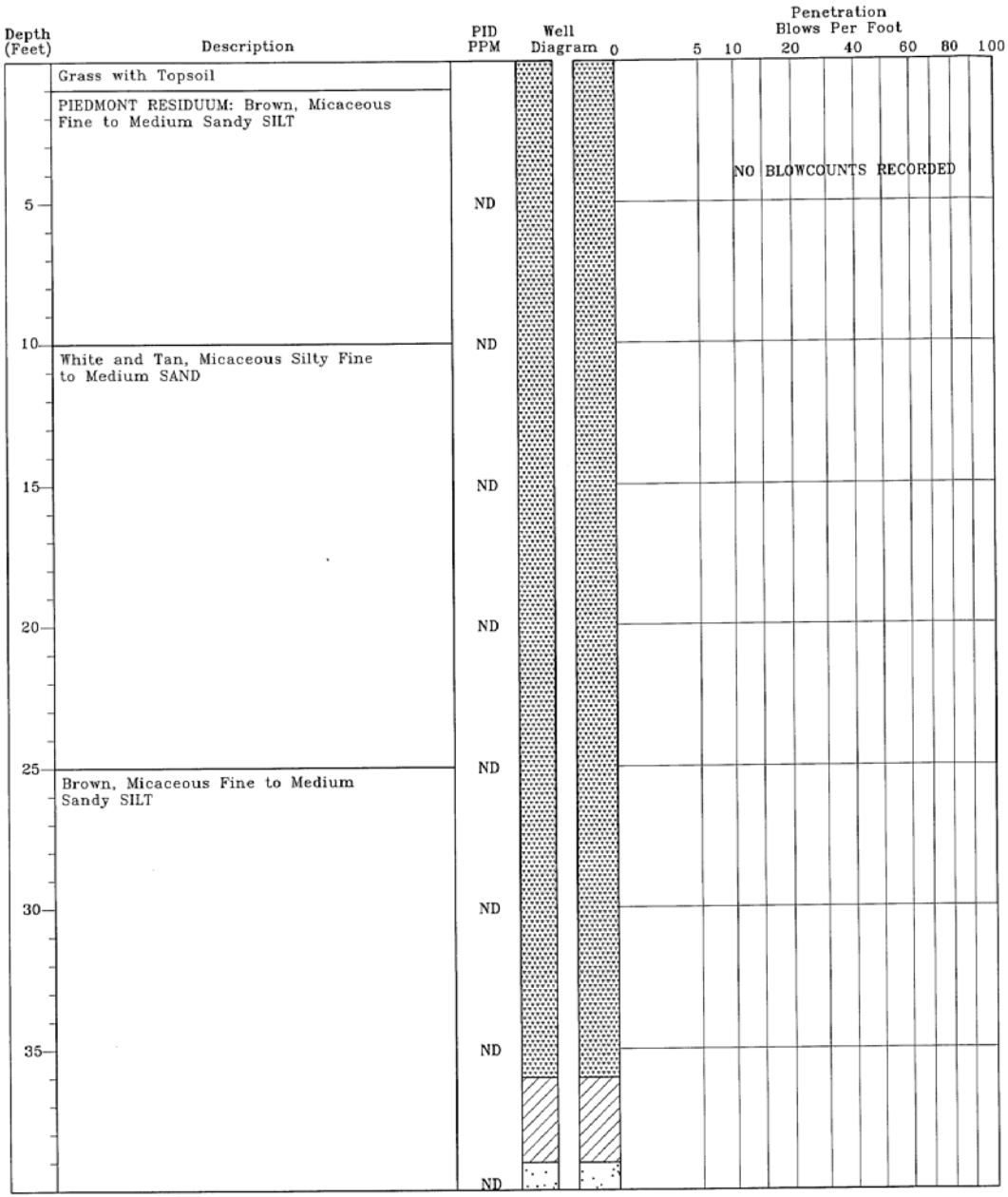
MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730



Well Number:	MW-8
Date Drilled:	7/24/10
Drilled By:	Geologic Exploration Inc.
Driller: J. Burr	S.C. I.D. #: D 01740
Logged By:	J. Bryant

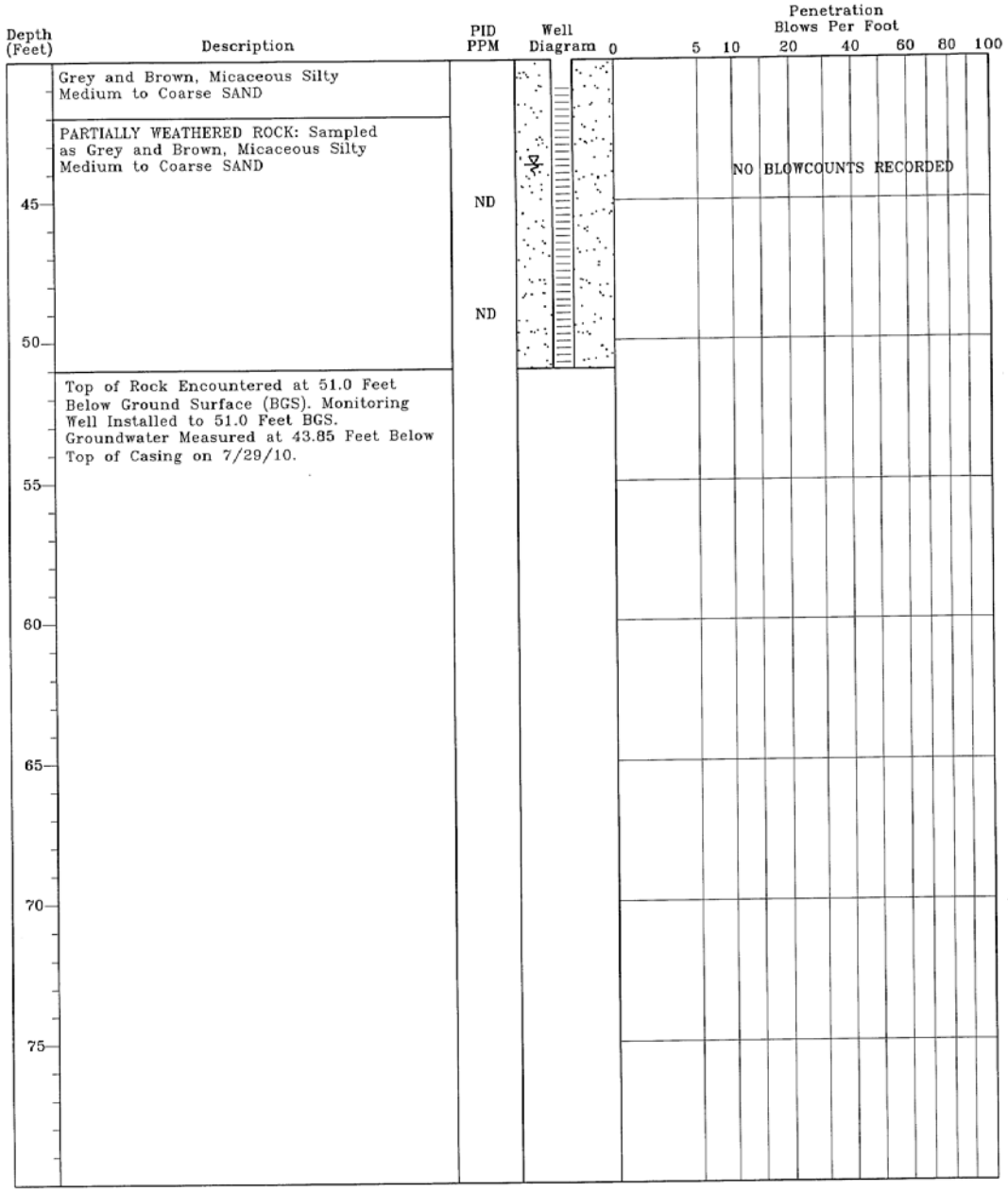
Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-9
Date Drilled:	7/19/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803)808-1043 fax: 808-2048



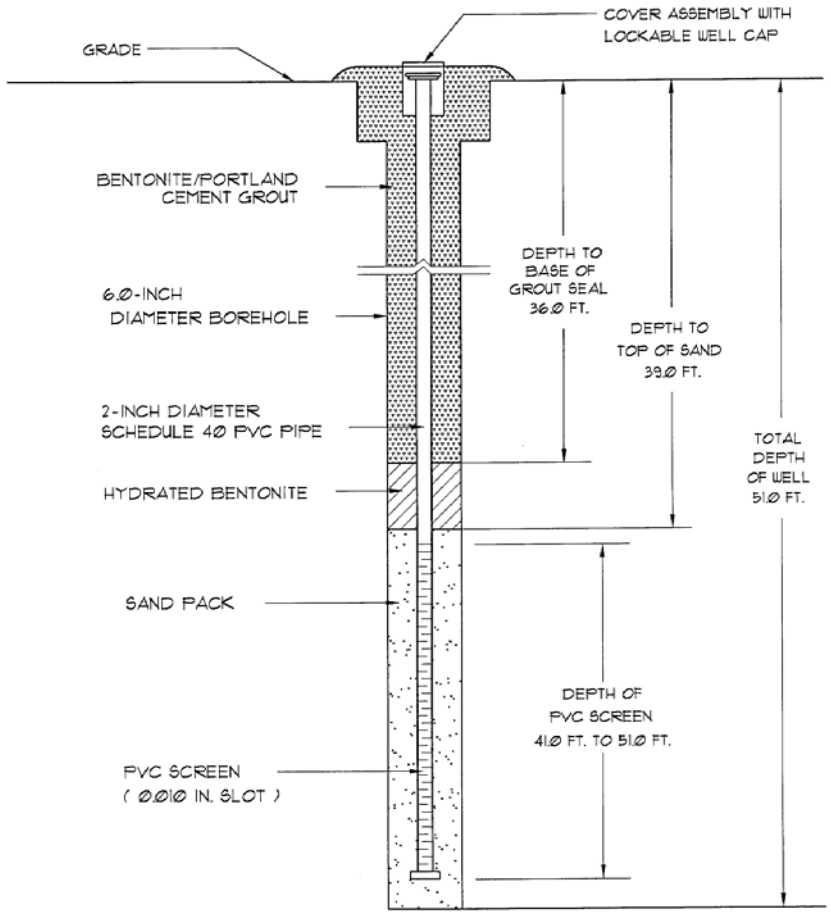
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-9
Date Drilled:	7/19/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

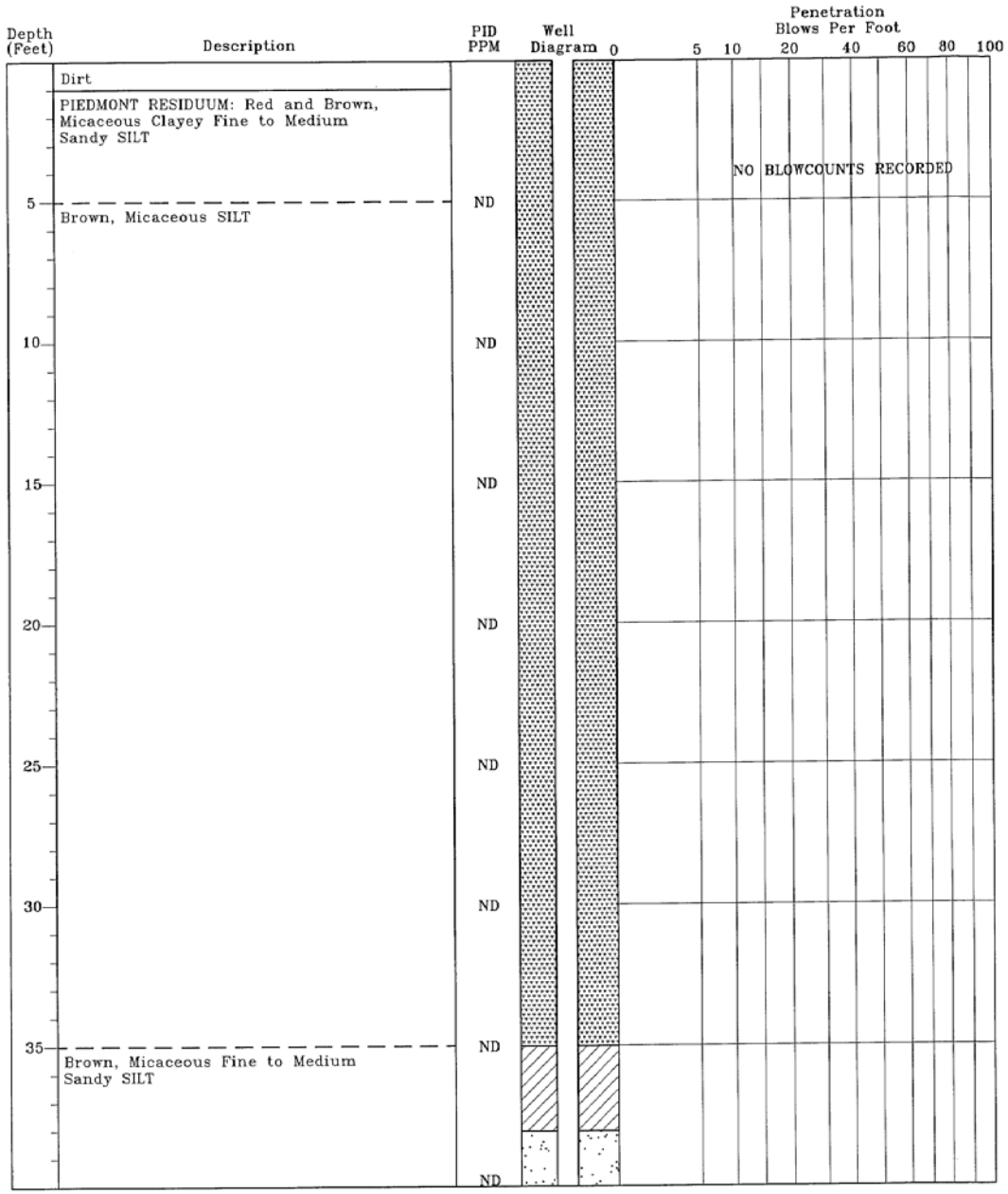
MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730



Well Number:	MW-9
Date Drilled:	7/19/10
Drilled By:	Geologic Exploration Inc.
Driller: J. Watkins	S.C. I.D. #: B 01979
Logged By:	B. Kelly

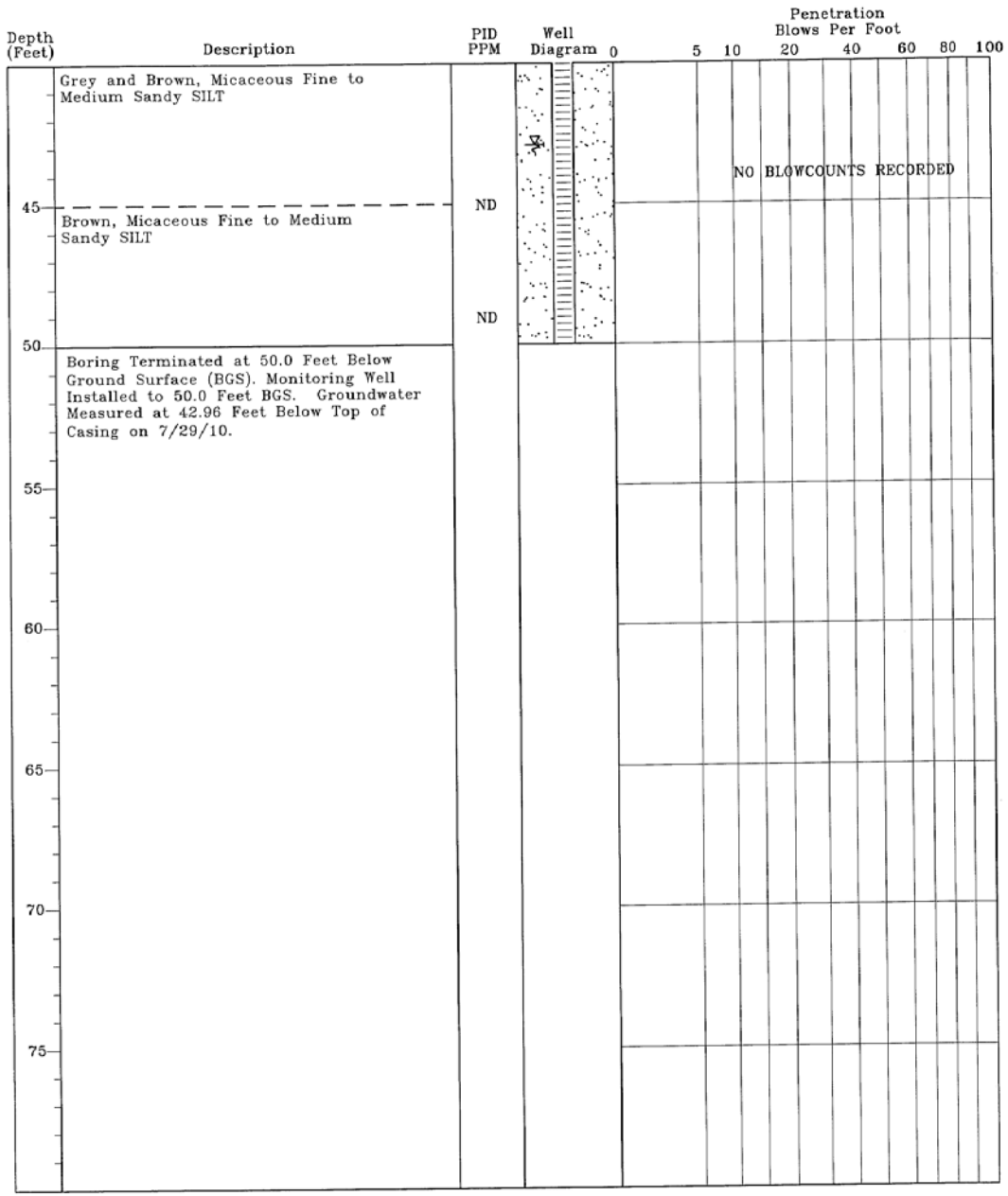
Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-10
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



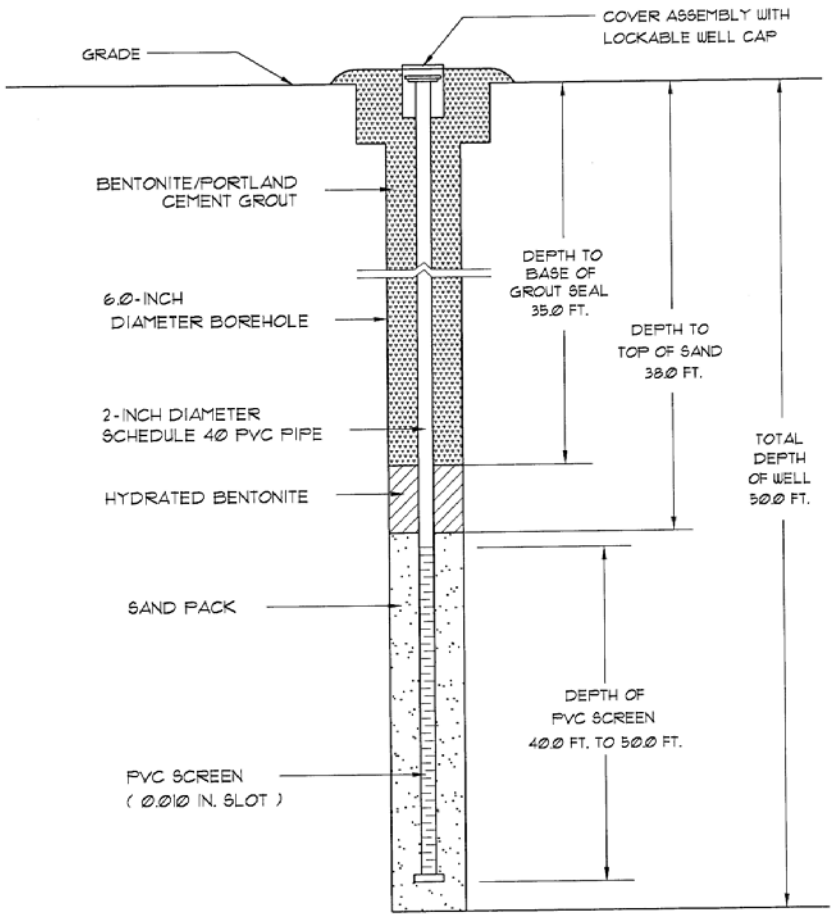
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-10
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-1043 fax: 808-1048

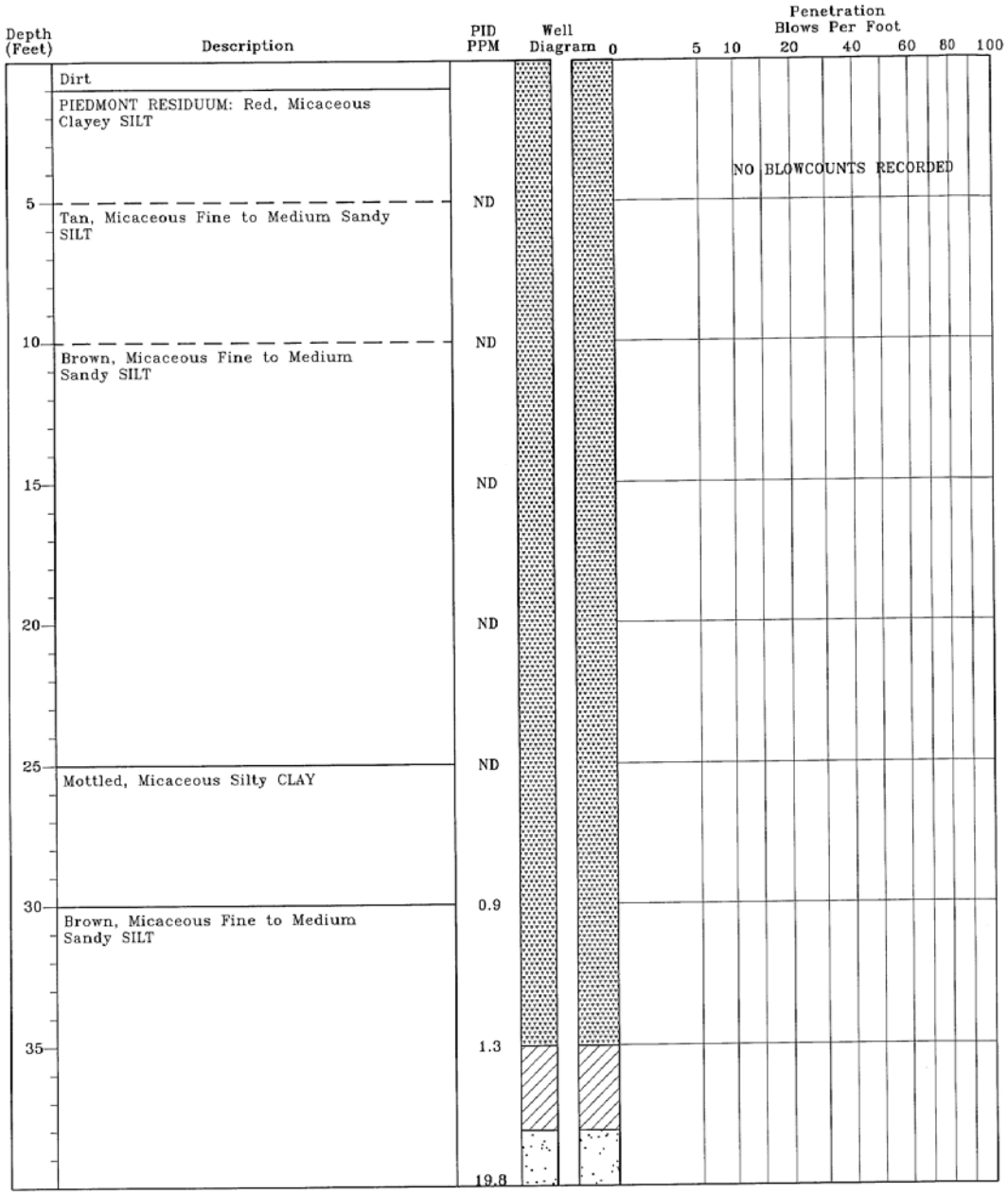
MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730



Well Number:	MW-10
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Driller: J. Watkins	S.C. I.D. #: B 01979
Logged By:	B. Kelly

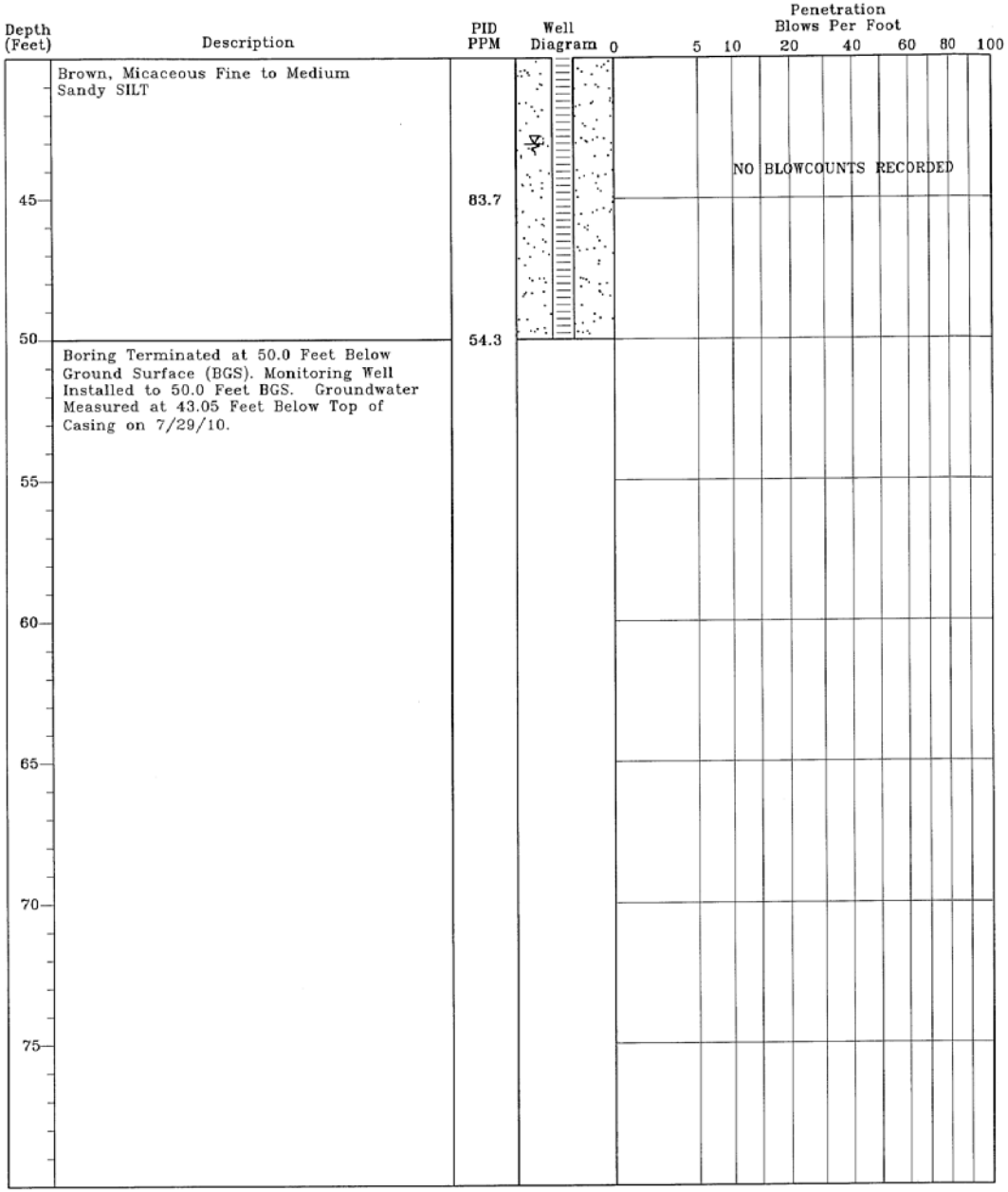
Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-11
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-1043 fax: 808-2048



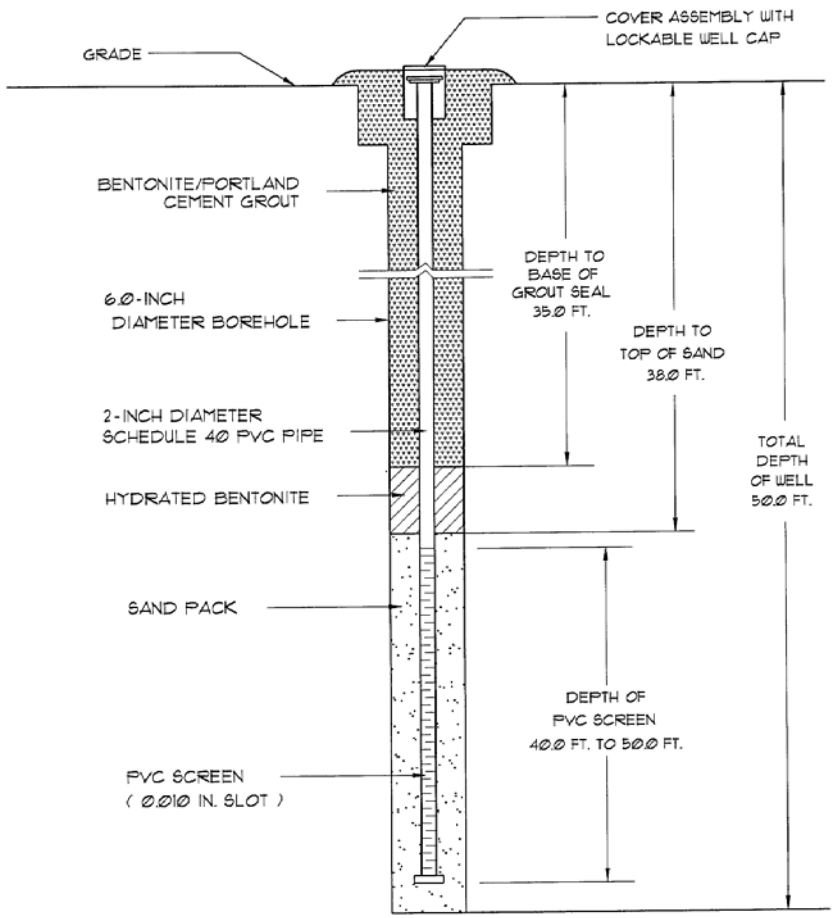
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-11
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 Fax: 808-2048

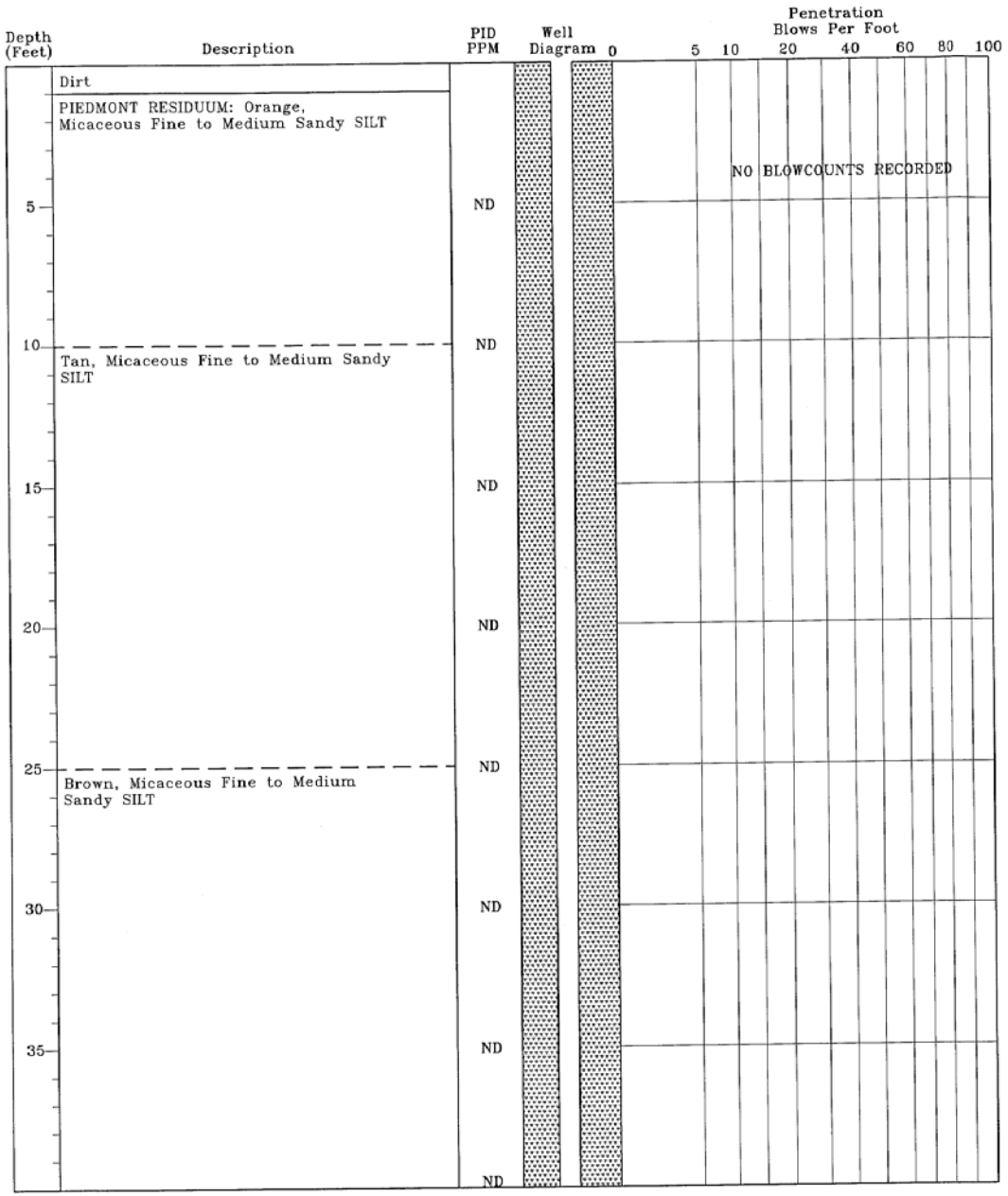
MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730



Well Number:	MW-11
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Driller: J. Watkins	S.C. I.D. #: B 01979
Logged By:	B. Kelly

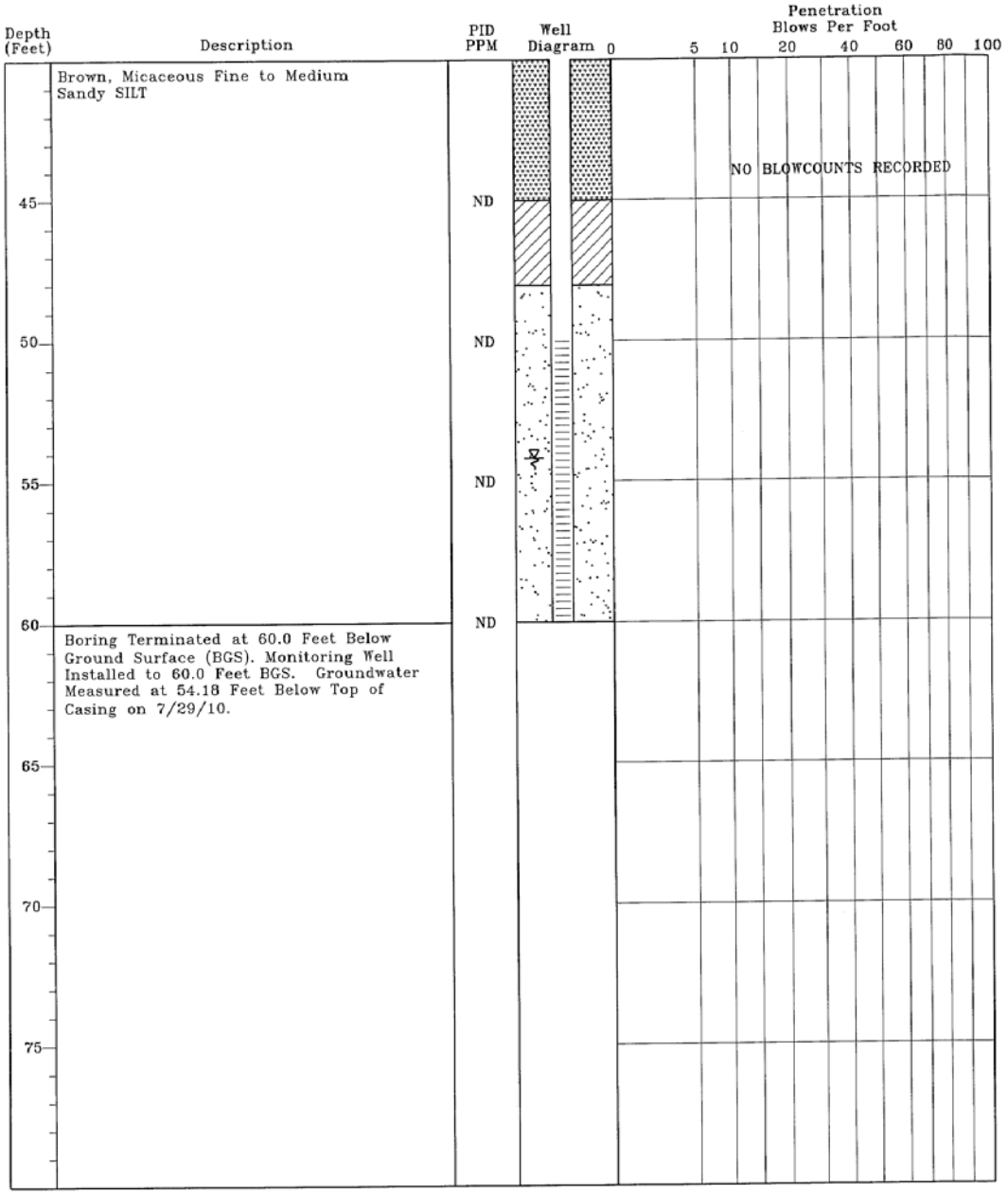
Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-12
Date Drilled:	7/15/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



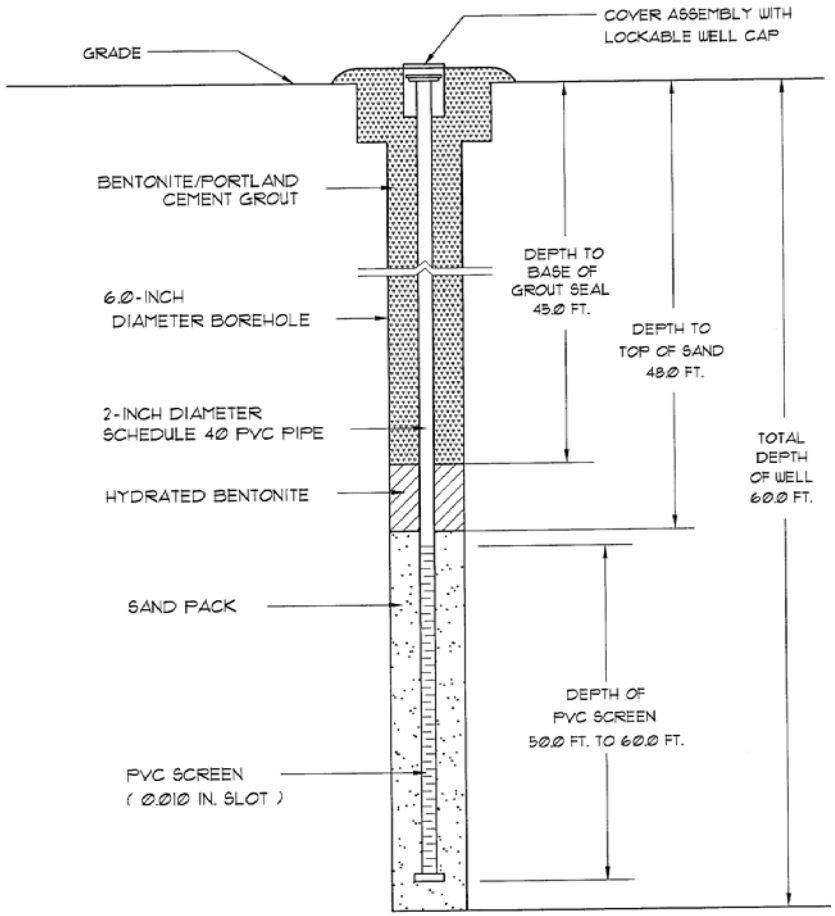
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-12
Date Drilled:	7/15/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

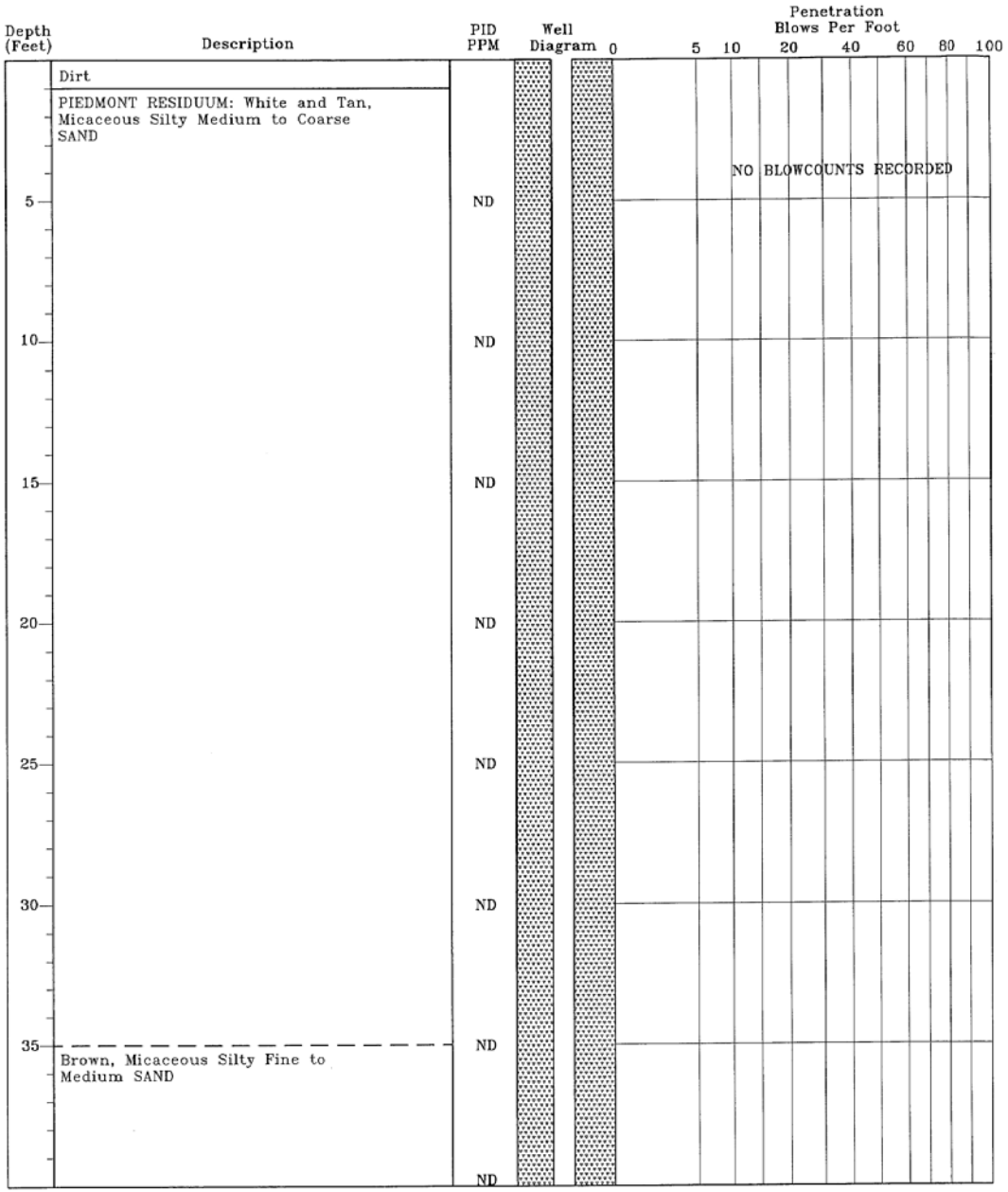
MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730



Well Number:	MW-12
Date Drilled:	7/15/10
Drilled By:	Geologic Exploration Inc.
Driller: J. Watkins	S.C. I.D. #: B 01979
Logged By:	B. Kelly

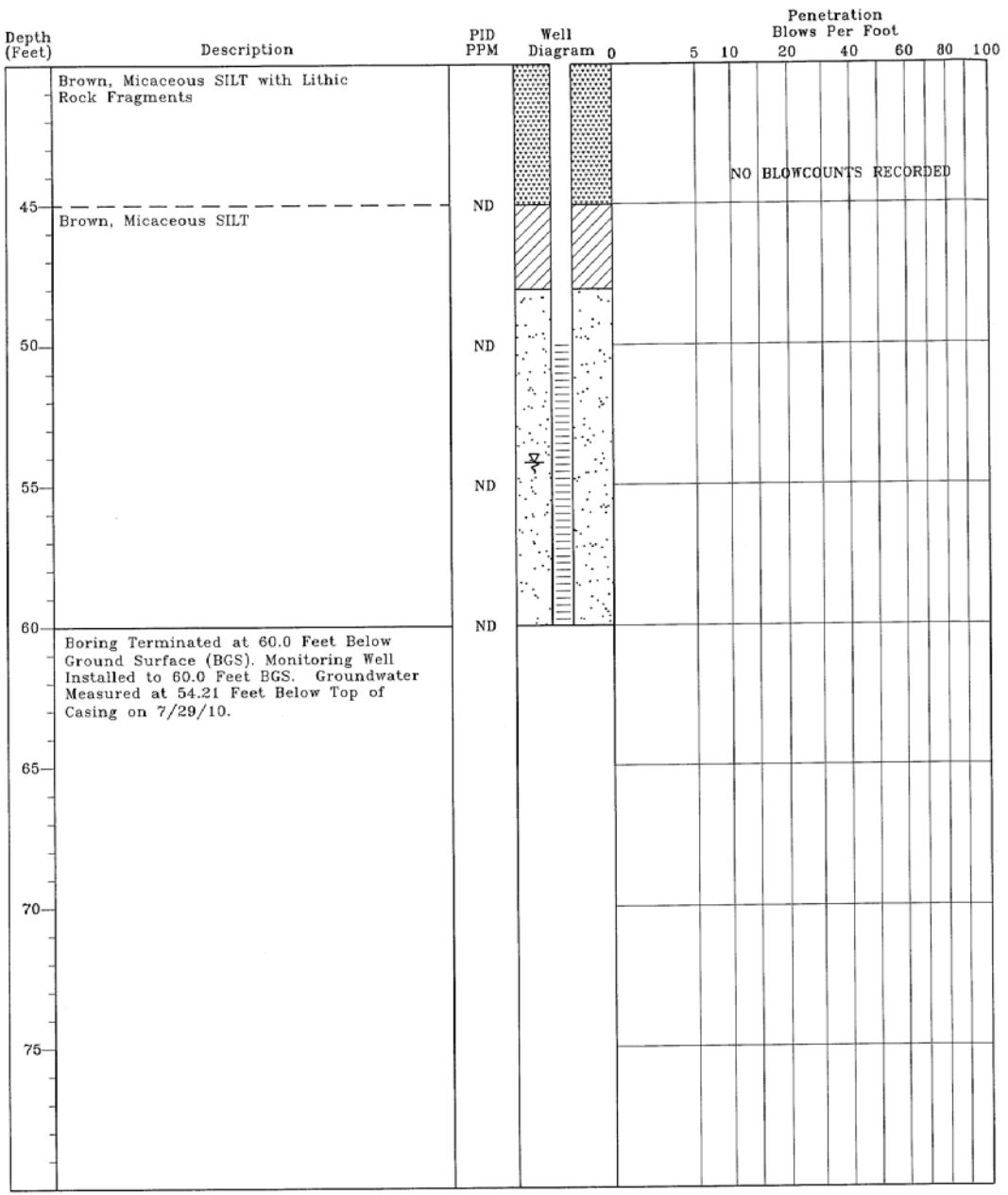
Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-13
Date Drilled:	7/16/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



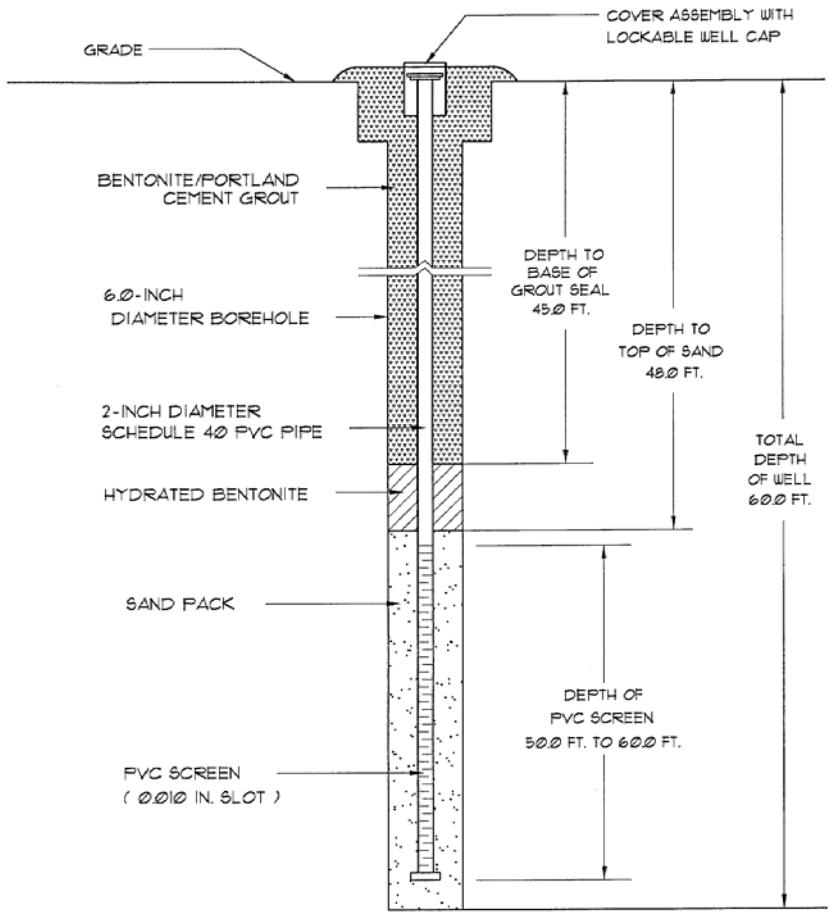
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-13
Date Drilled:	7/16/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

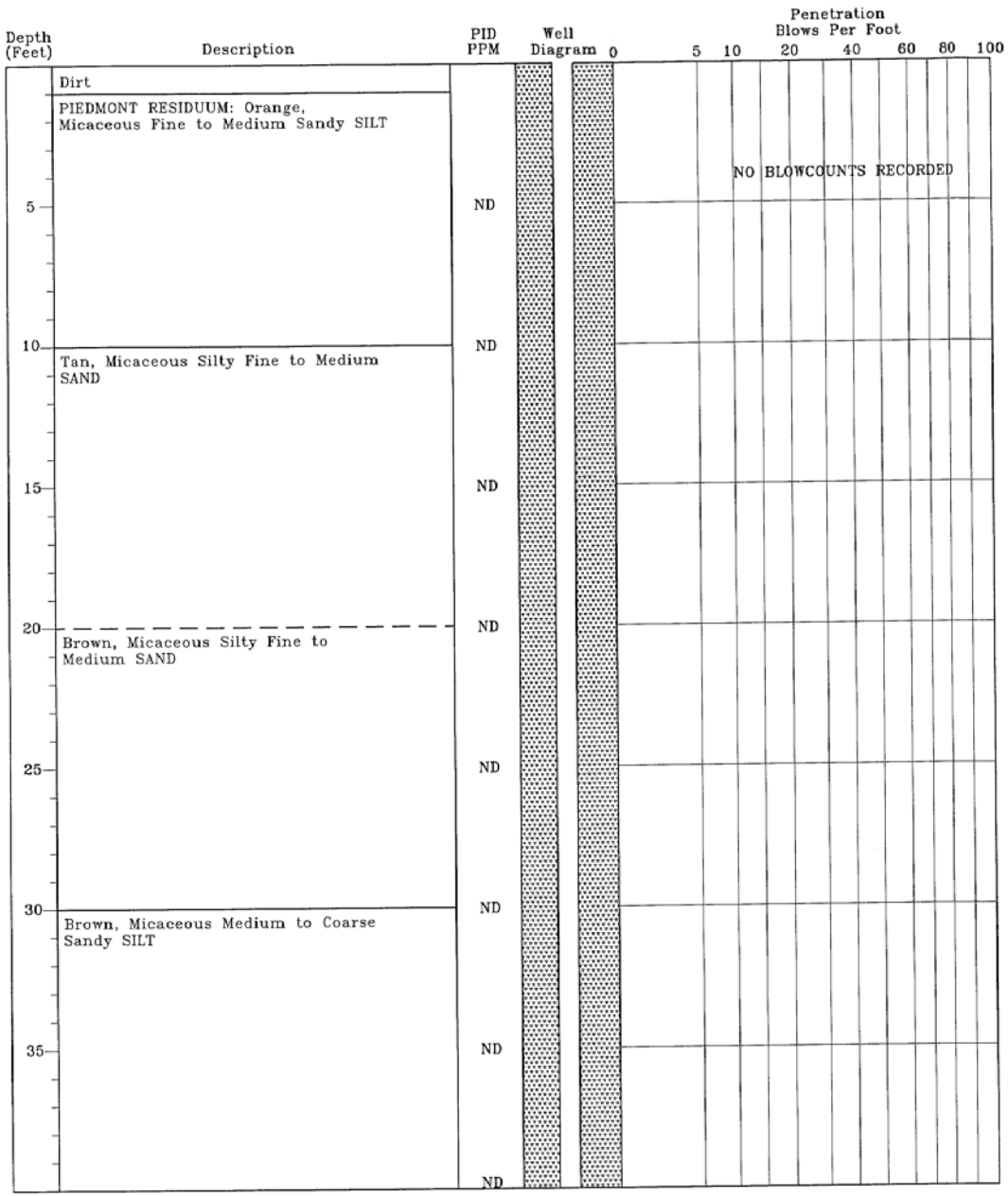
MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730



Well Number:	MW-13
Date Drilled:	7/16/10
Drilled By:	Geologic Exploration Inc.
Driller: J. Watkins	S.C. I.D. #: B 01979
Logged By:	B. Kelly

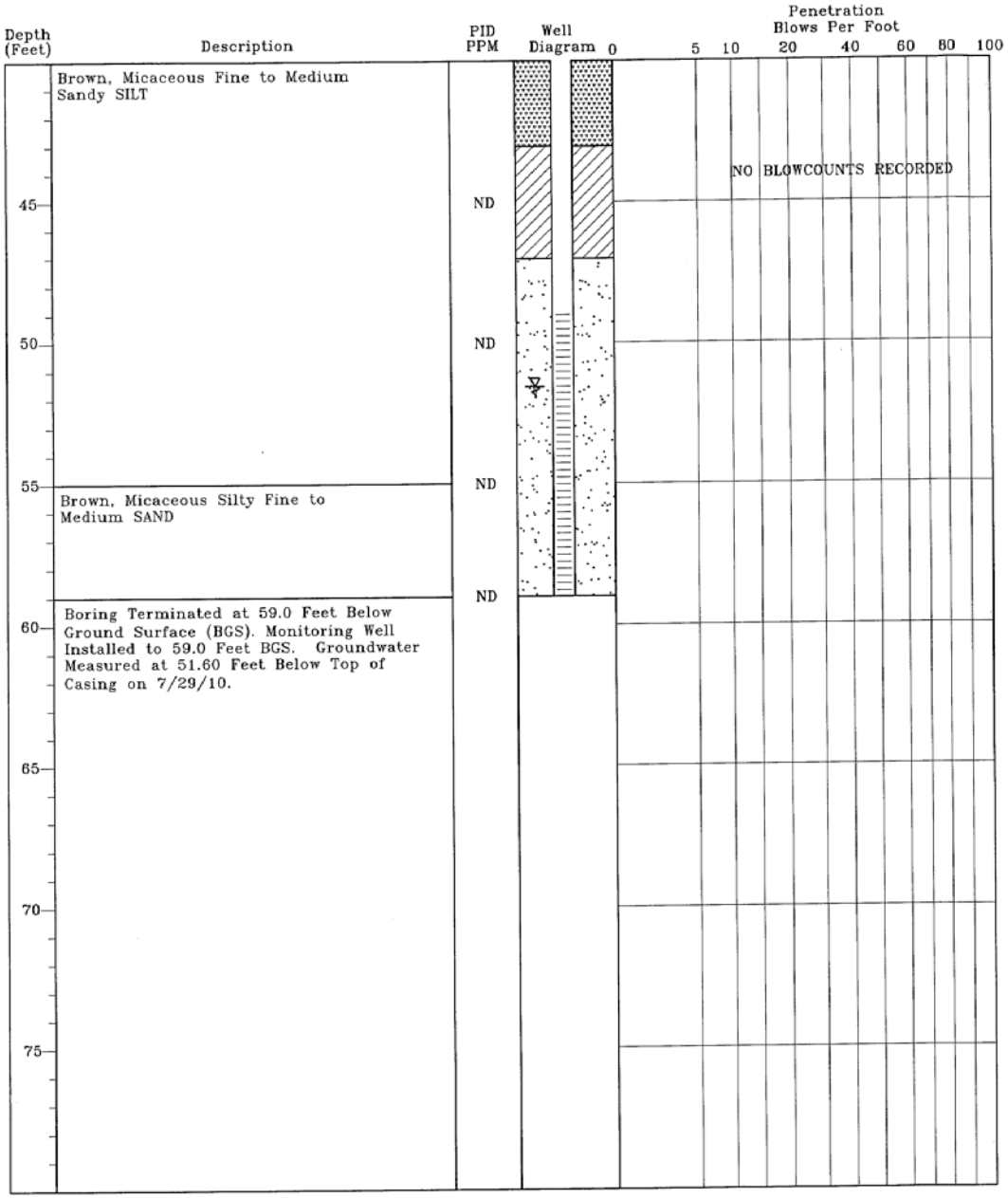
Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-14
Date Drilled:	7/20/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



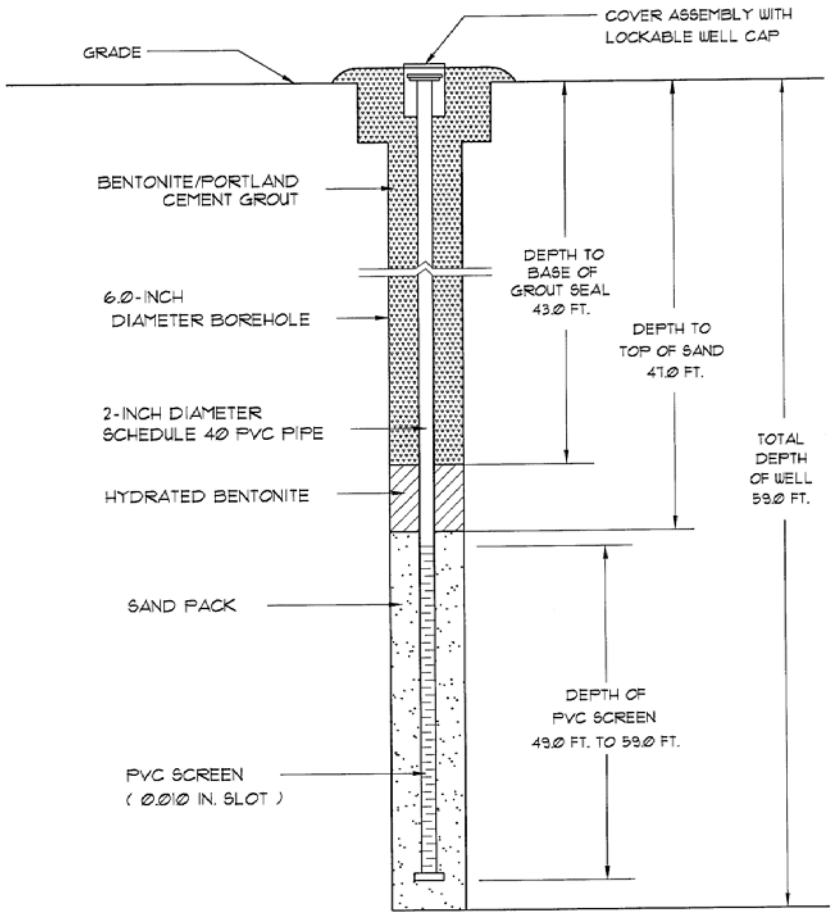
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-14
Date Drilled:	7/20/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

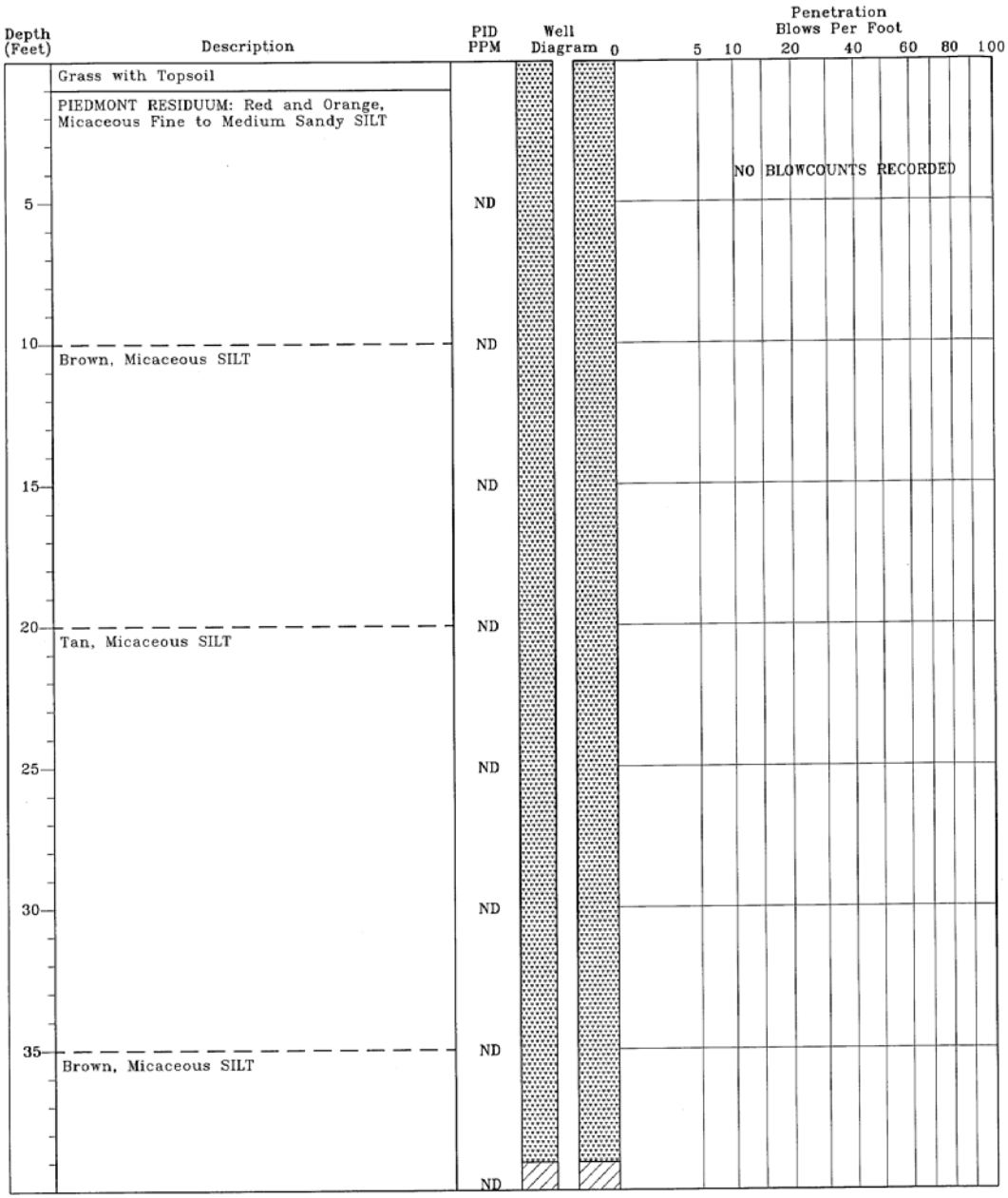
MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730



Well Number:	MW-14
Date Drilled:	7/20/10
Drilled By:	Geologic Exploration Inc.
Driller: J. Mantak	S.C. I.D. #: B 01494
Logged By:	B. Kelly

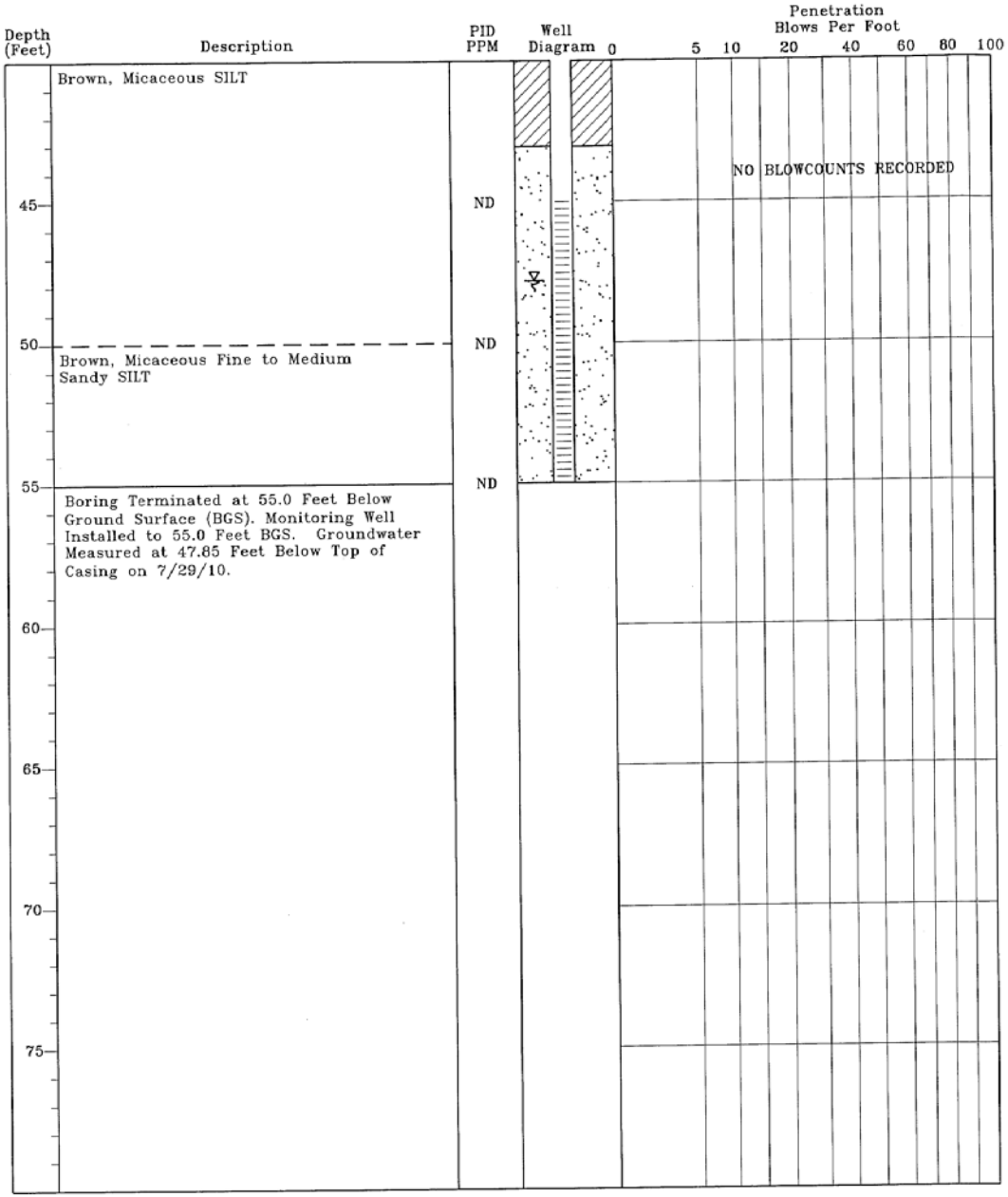
Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803)808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-15
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-1043 fax: 808-2048



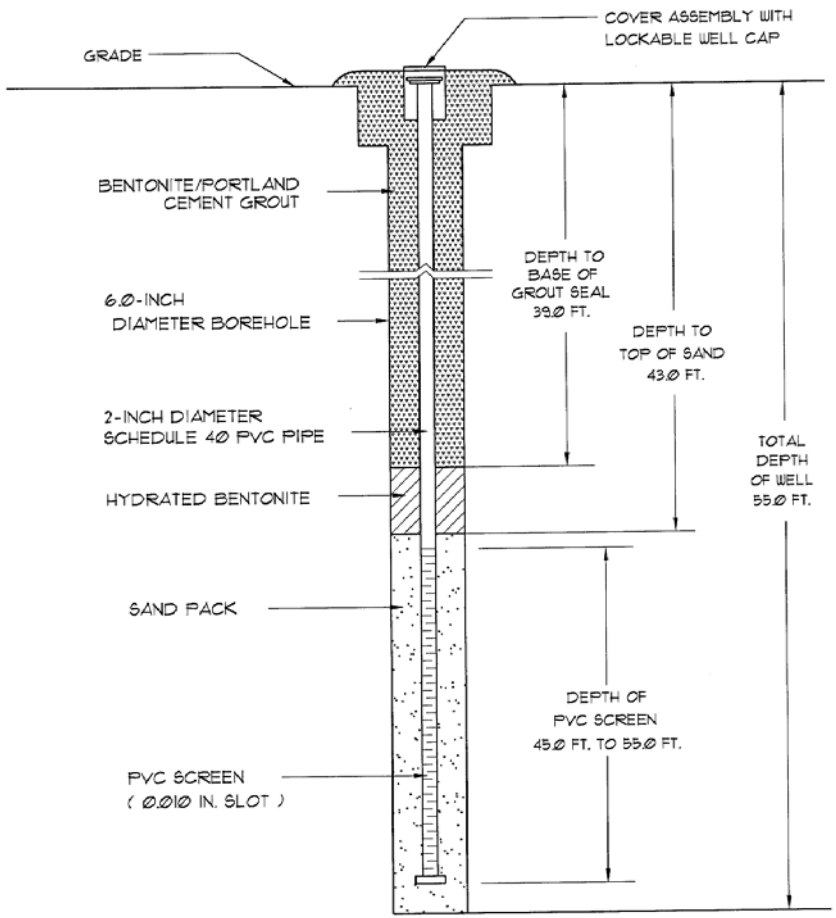
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-15
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

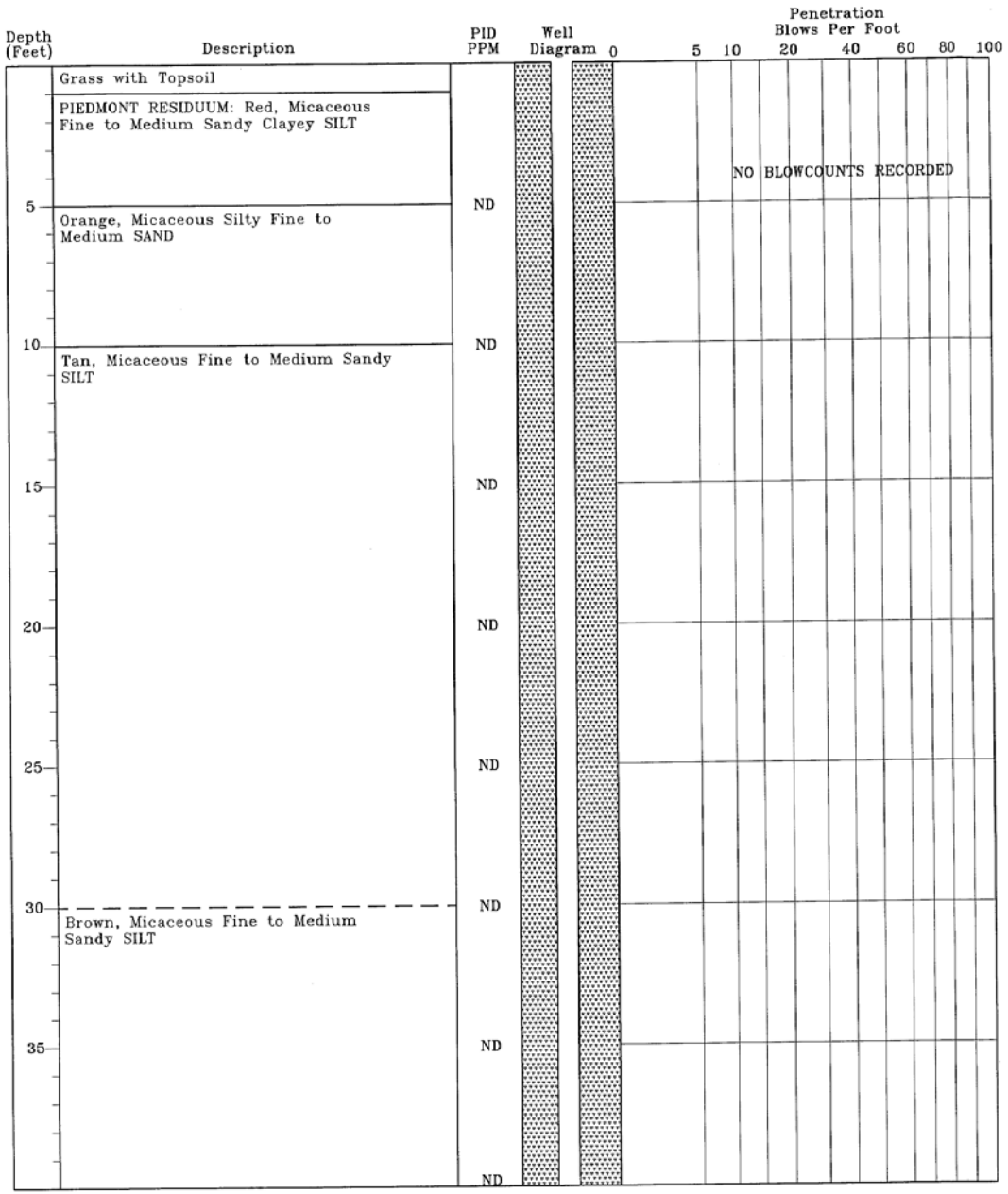
MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730



Well Number:	MW-15
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Driller: J. Mantak	S.C. I.D. #: B 01494
Logged By:	B. Kelly

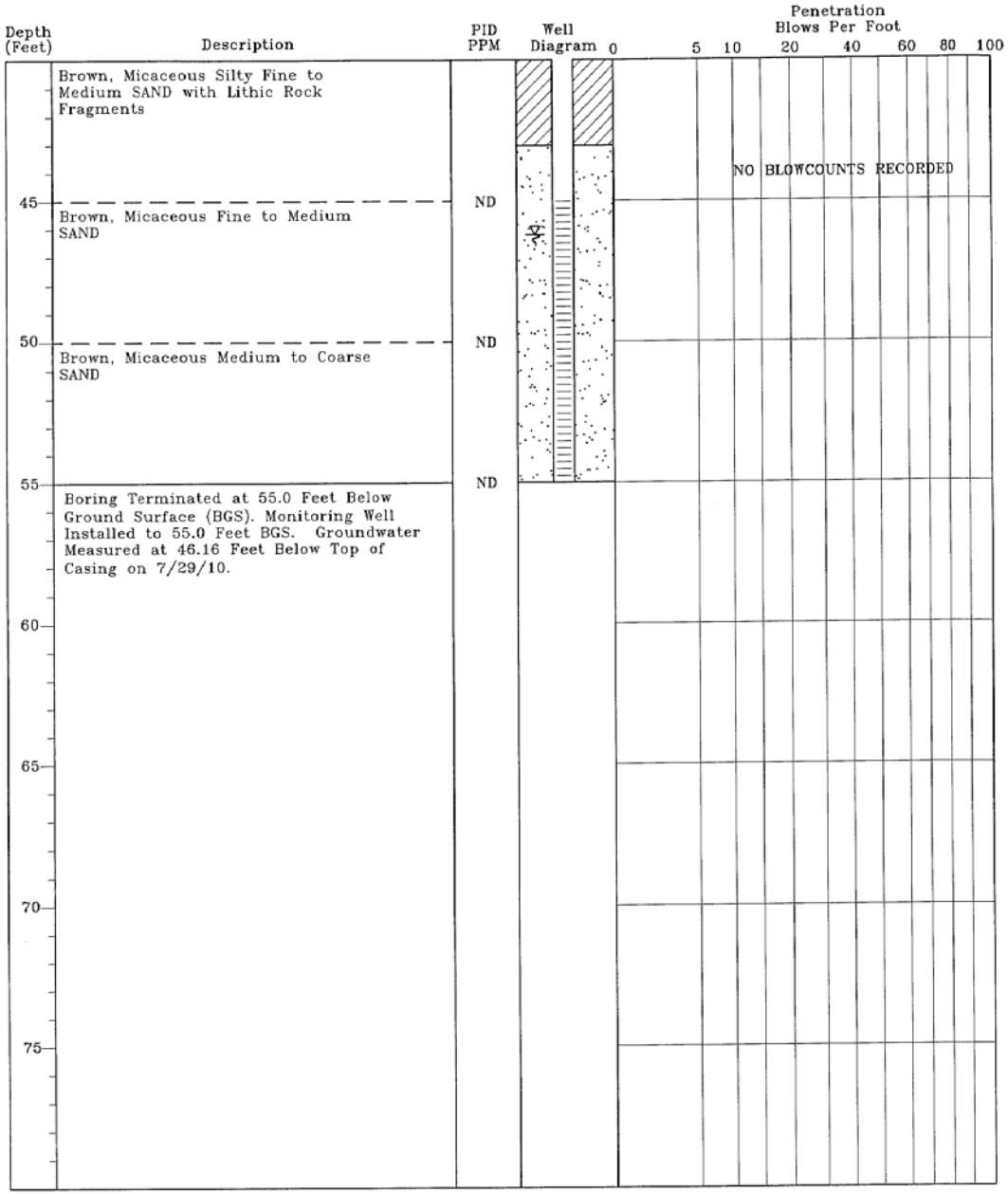
Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-16
Date Drilled:	7/20/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-1043 fax: 808-2048



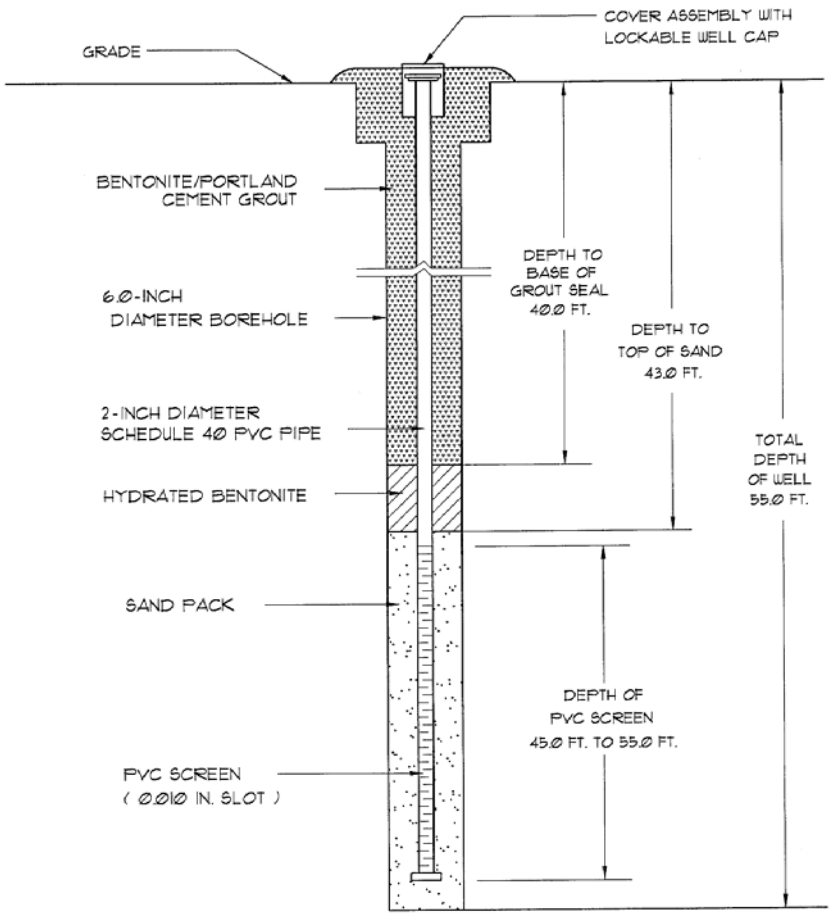
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-16
Date Drilled:	7/20/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

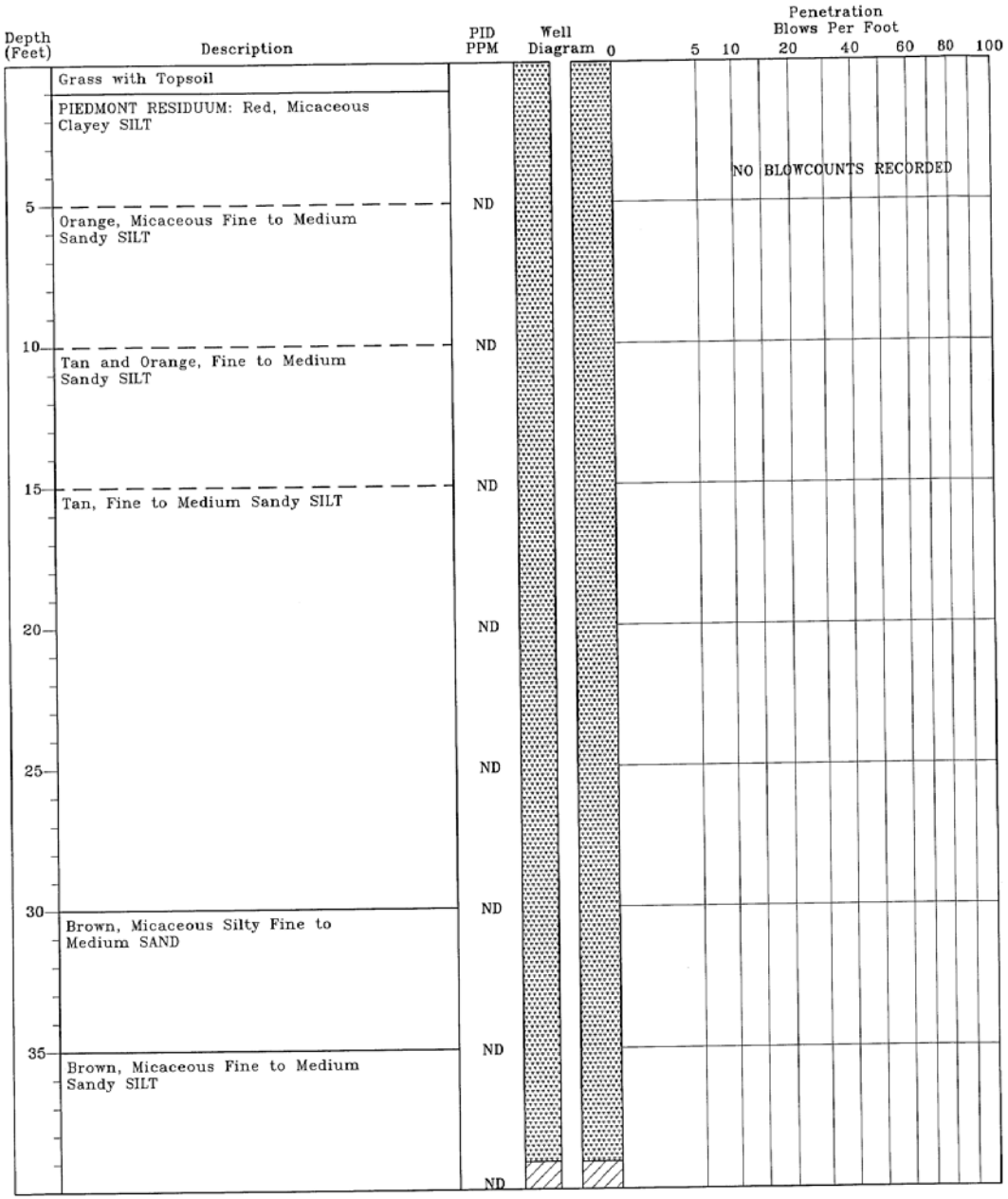
MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730



Well Number:	MW-16
Date Drilled:	7/20/10
Drilled By:	Geologic Exploration Inc.
Driller: J. Watkins	S.C. I.D. #: B 01979
Logged By:	B. Kelly

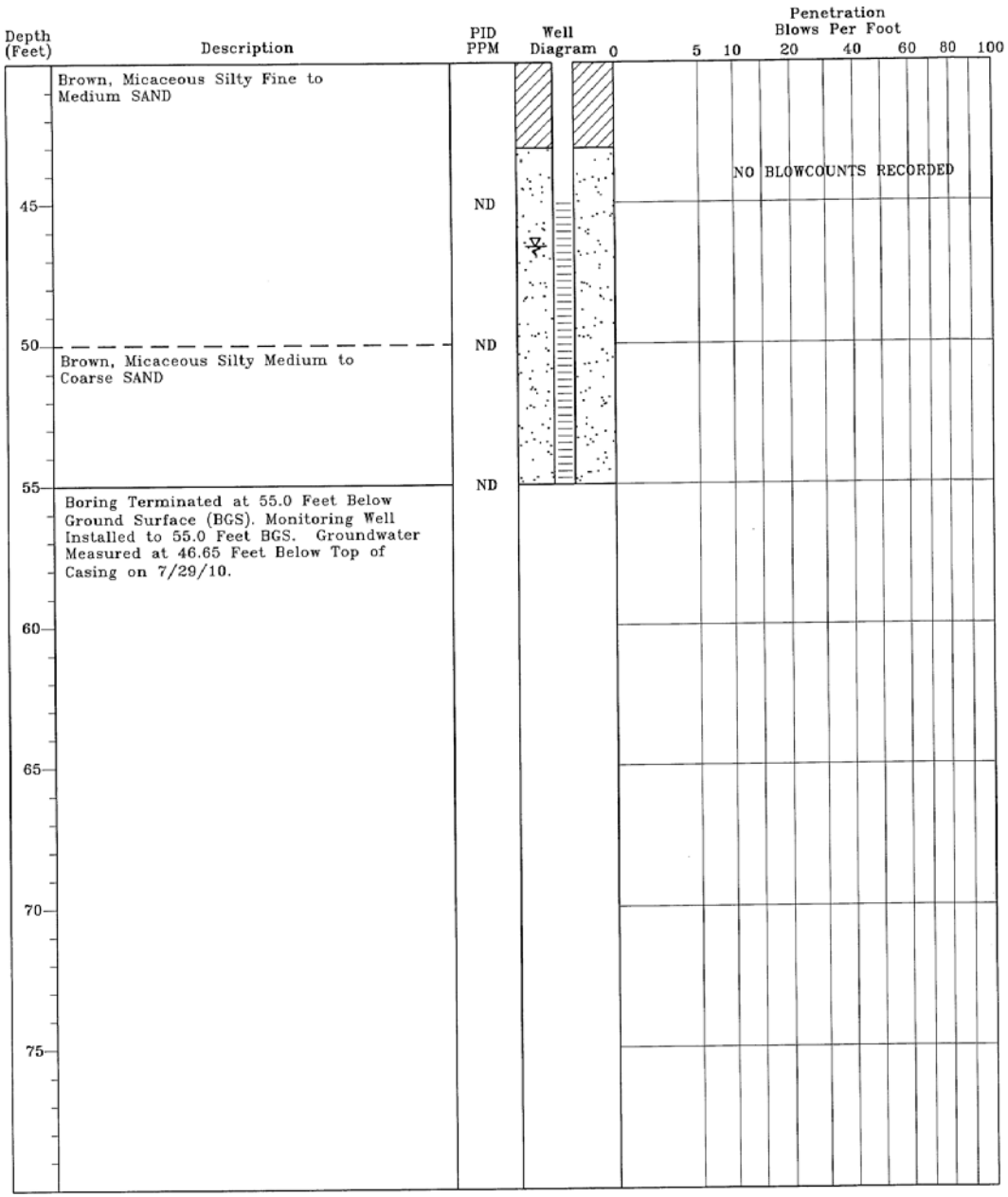
Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-17
Date Drilled:	7/20/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



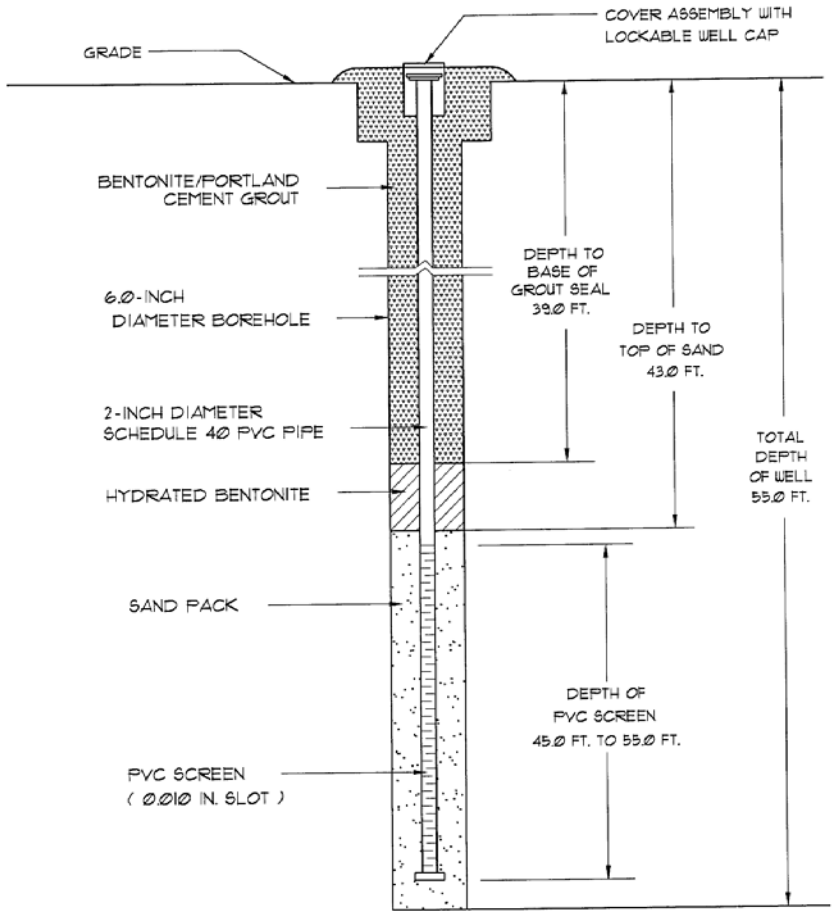
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-17
Date Drilled:	7/20/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

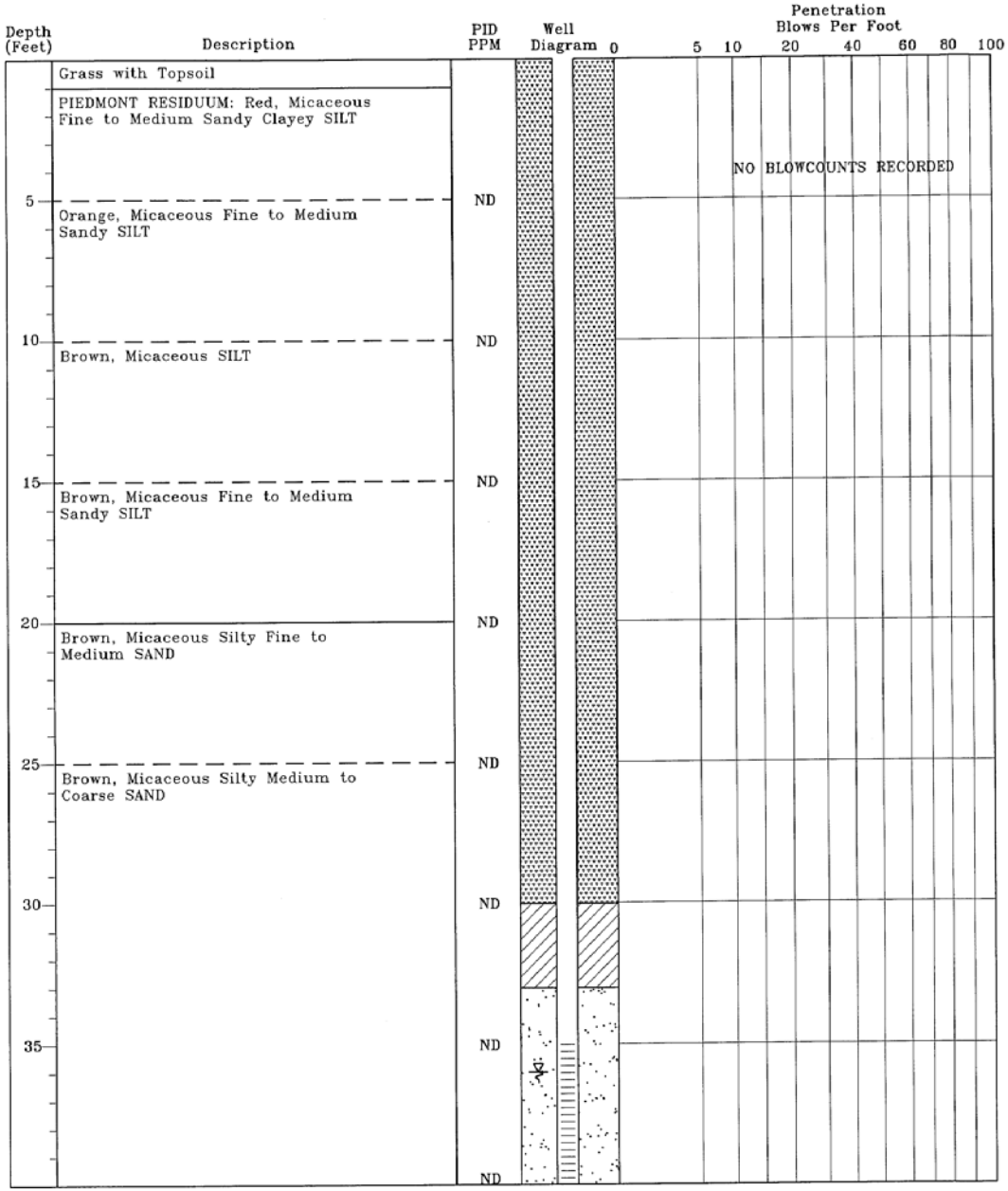
MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730



Well Number:	MW-17
Date Drilled:	7/20/10
Drilled By:	Geologic Exploration Inc.
Driller: J. Mantak	S.C. I.D. #: B 01494
Logged By:	B. Kelly

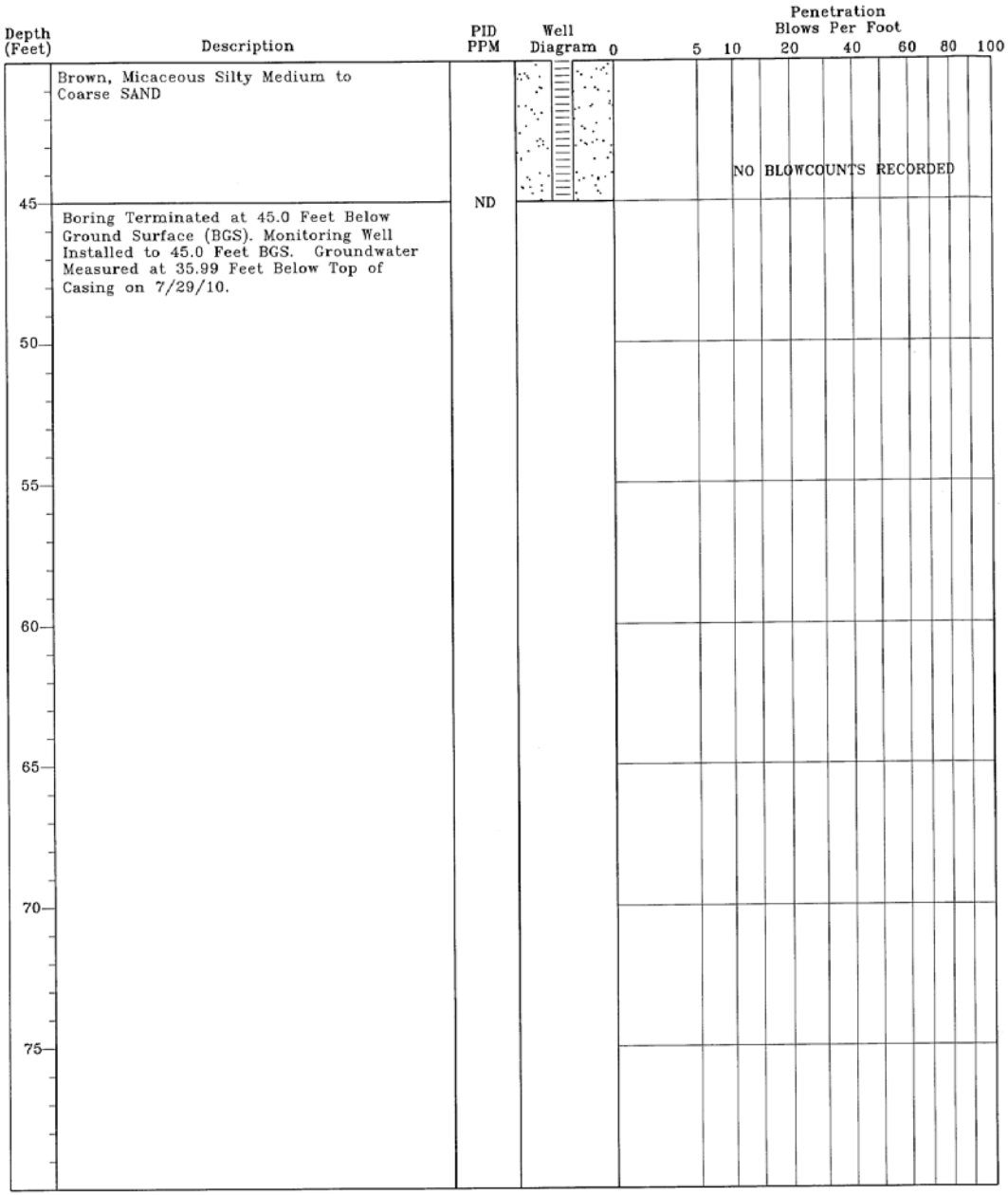
Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-18
Date Drilled:	7/20/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-1043 fax: 808-1048



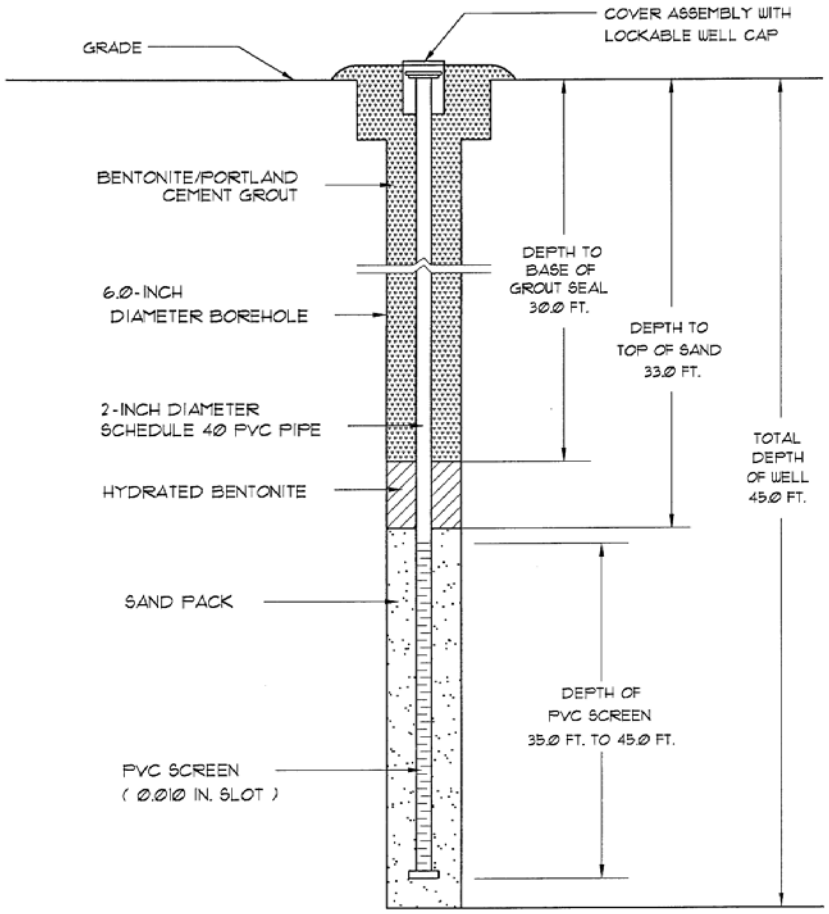
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-18
Date Drilled:	7/20/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

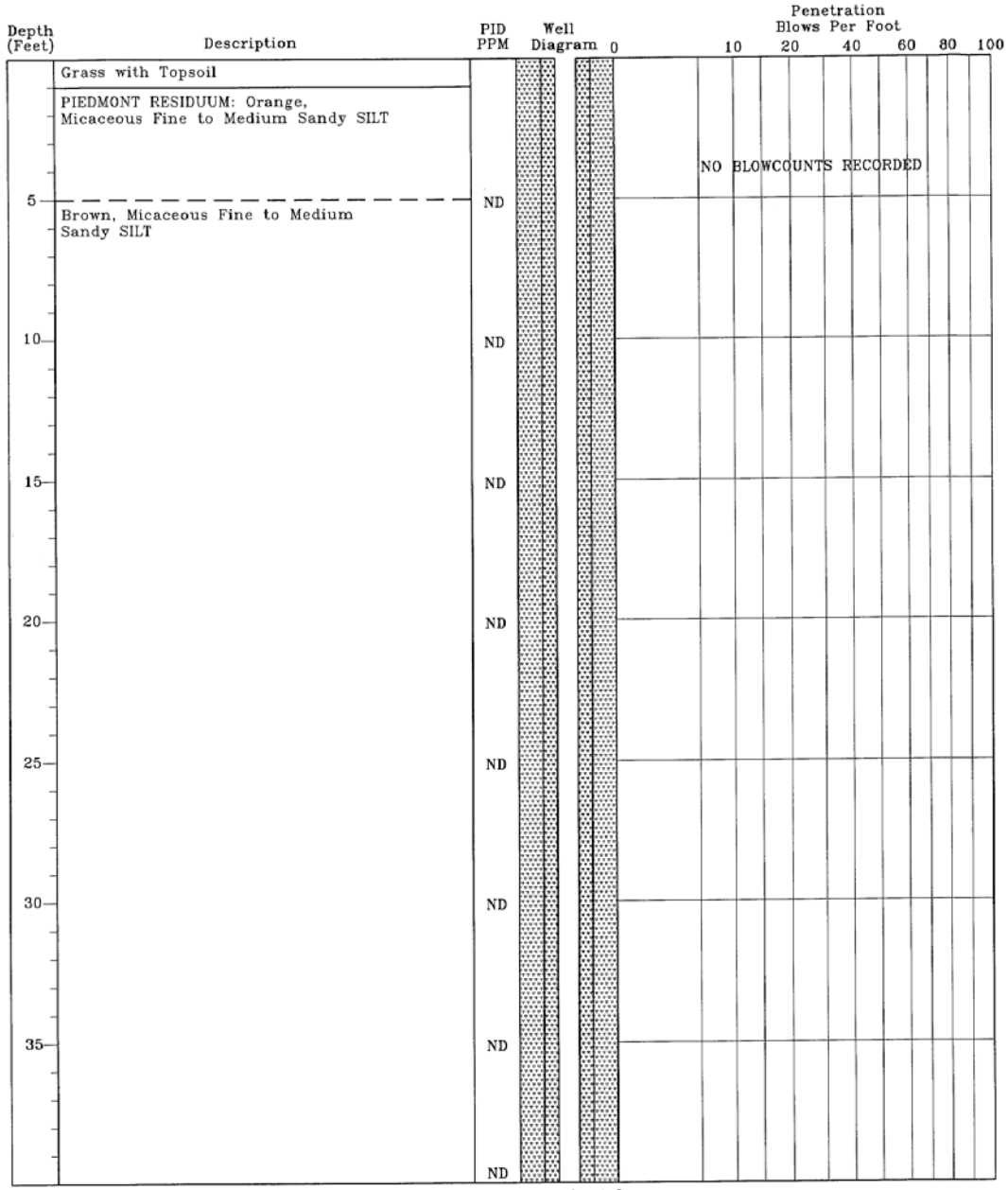
MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730



Well Number:	MW-18
Date Drilled:	7/20/10
Drilled By:	Geologic Exploration Inc.
Driller: J. Watkins	S.C. I.D. #: B 01979
Logged By:	B. Kelly

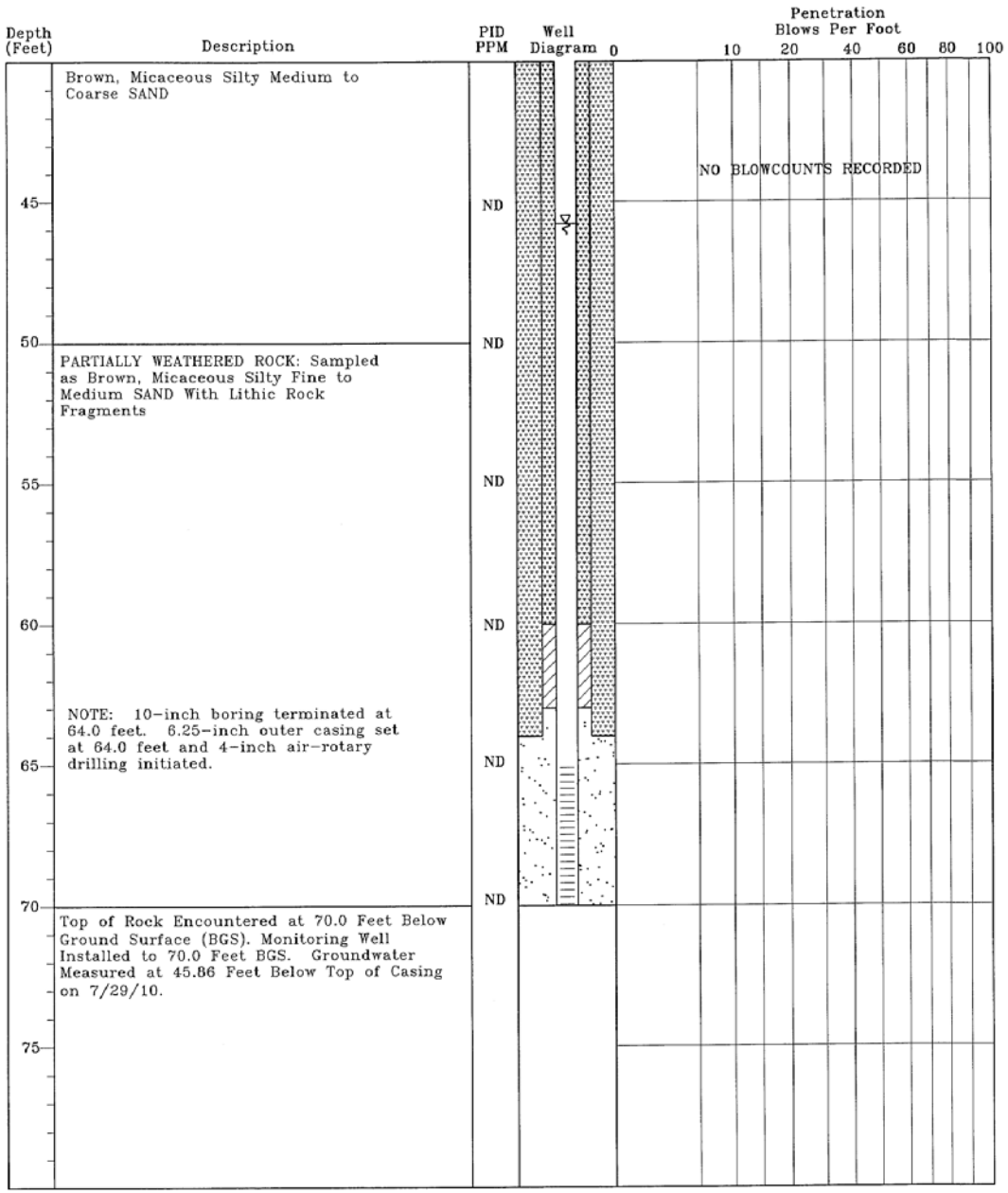
Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-19D
Date Drilled:	7/19/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235 B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



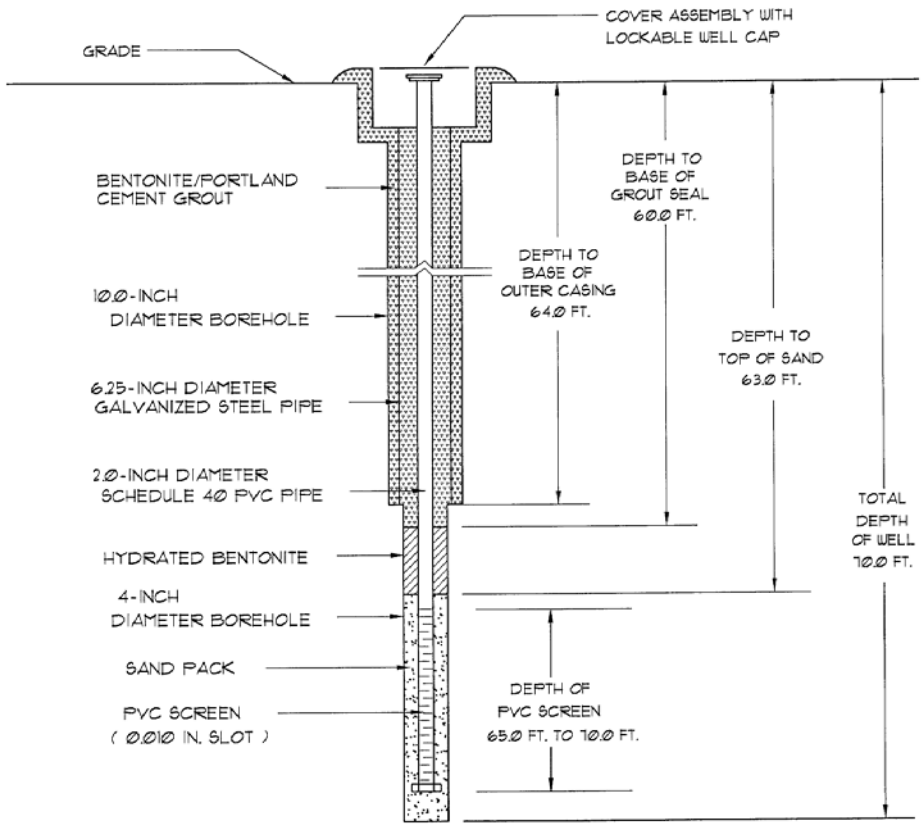
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-19D
Date Drilled:	7/19/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235 B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

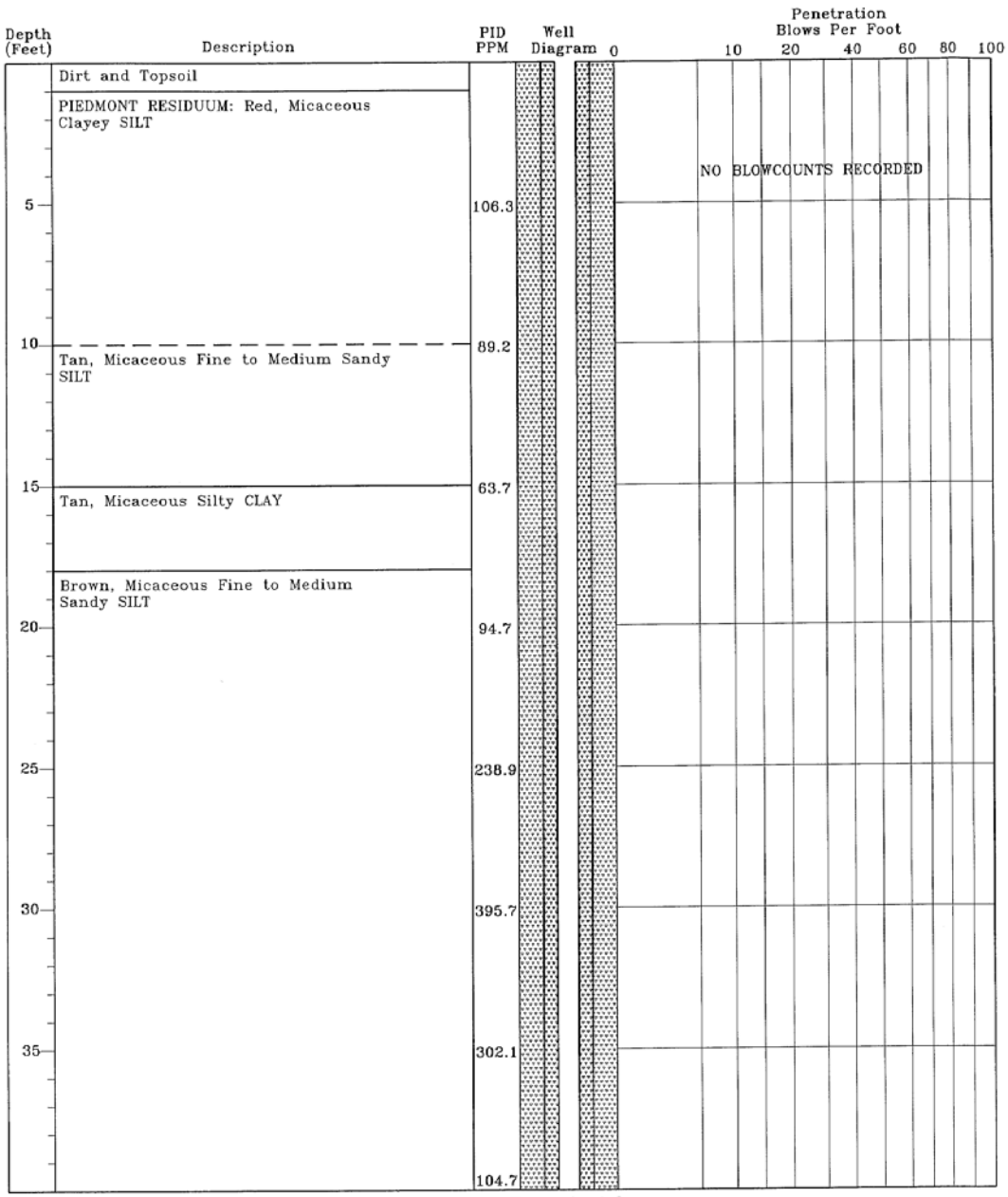
MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730



Well Number:	MW-19D
Date Drilled:	7/19/10
Drilled By:	Geologic Exploration, Inc.
Driller: J. Watkins	S.C. I.D. #: B 01979
Logged By:	B. Kelly

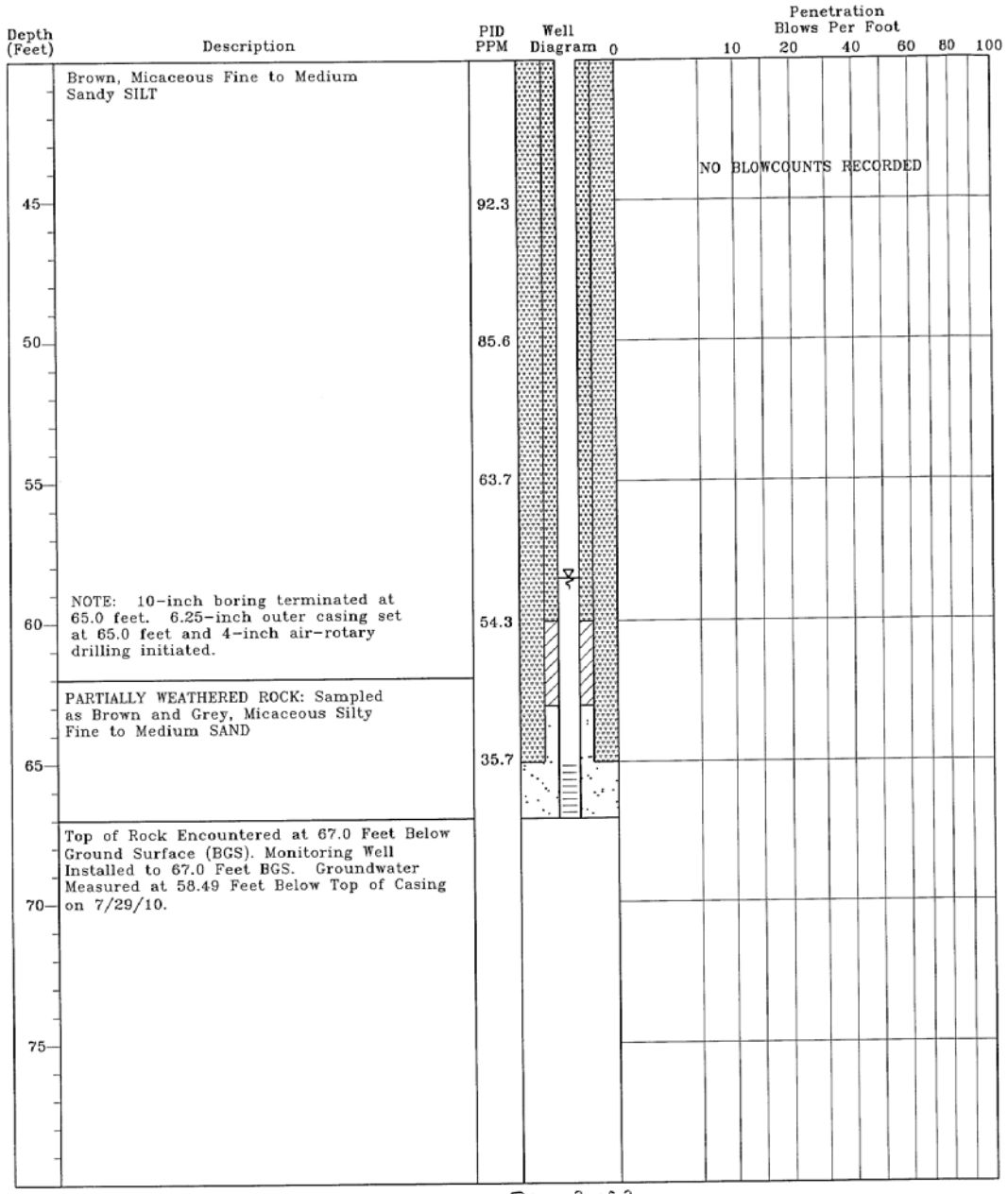
Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-20D
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235 B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



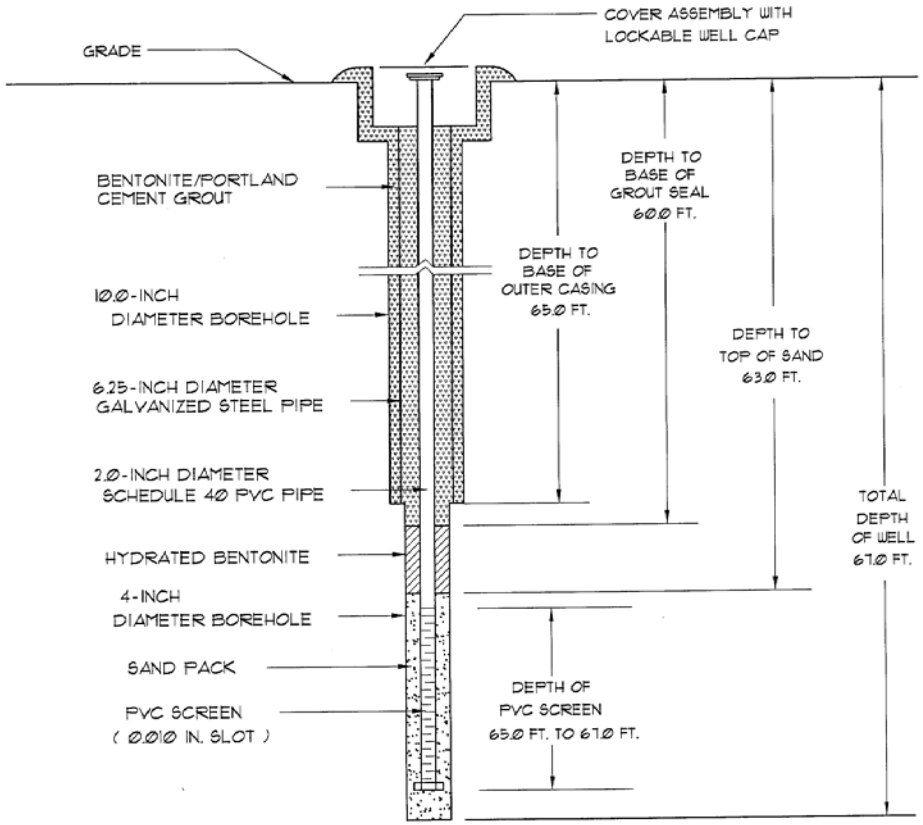
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-20D
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235 B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

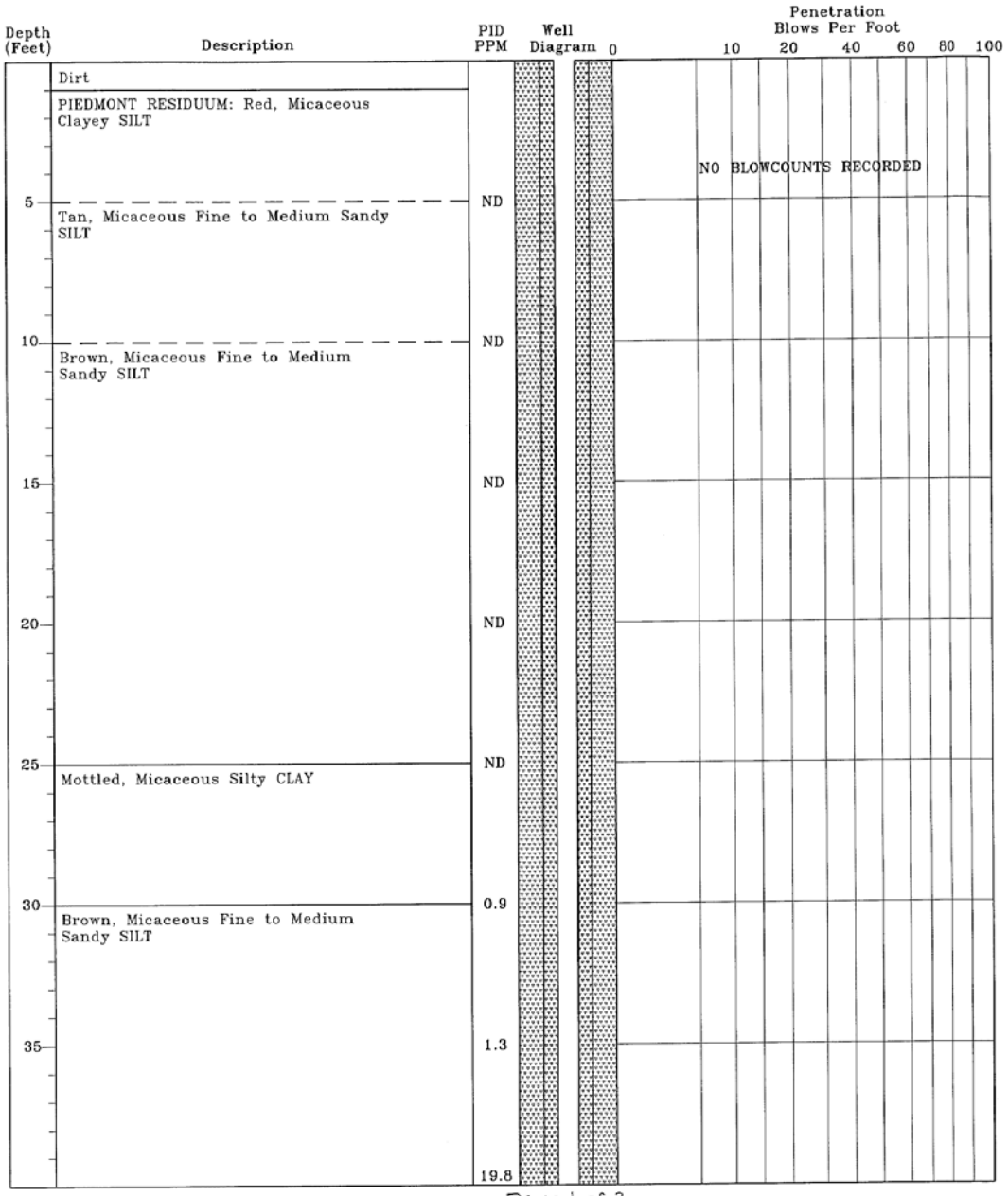
MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730



Well Number:	MW-20D
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration, Inc.
Driller: J. Watkins	S.C. I.D. #:B 01979
Logged By:	B. Kelly

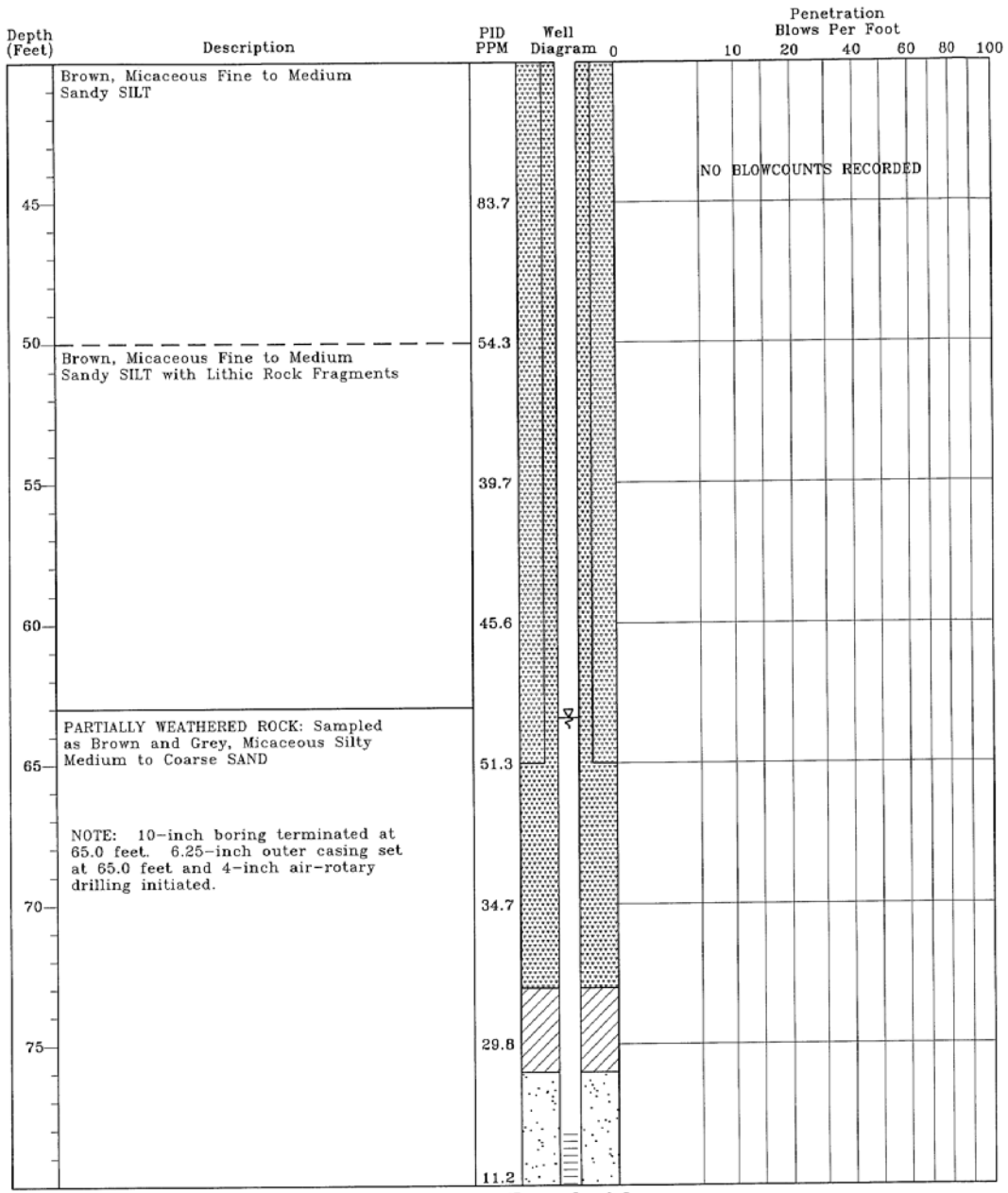
Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-21D
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

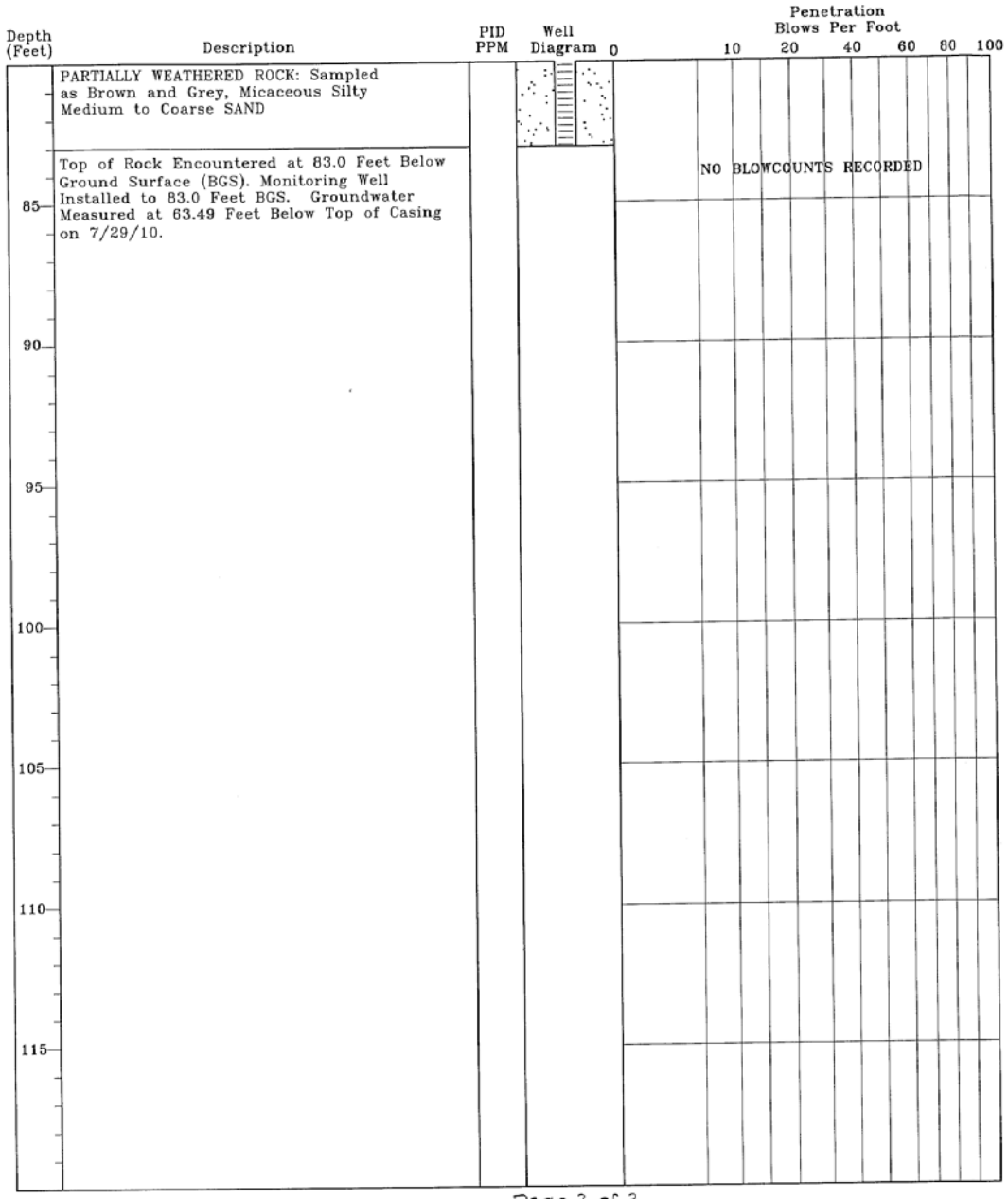
Prepared By:
Midlands Environmental Consultants, Inc.
235 B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-21D
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235 B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



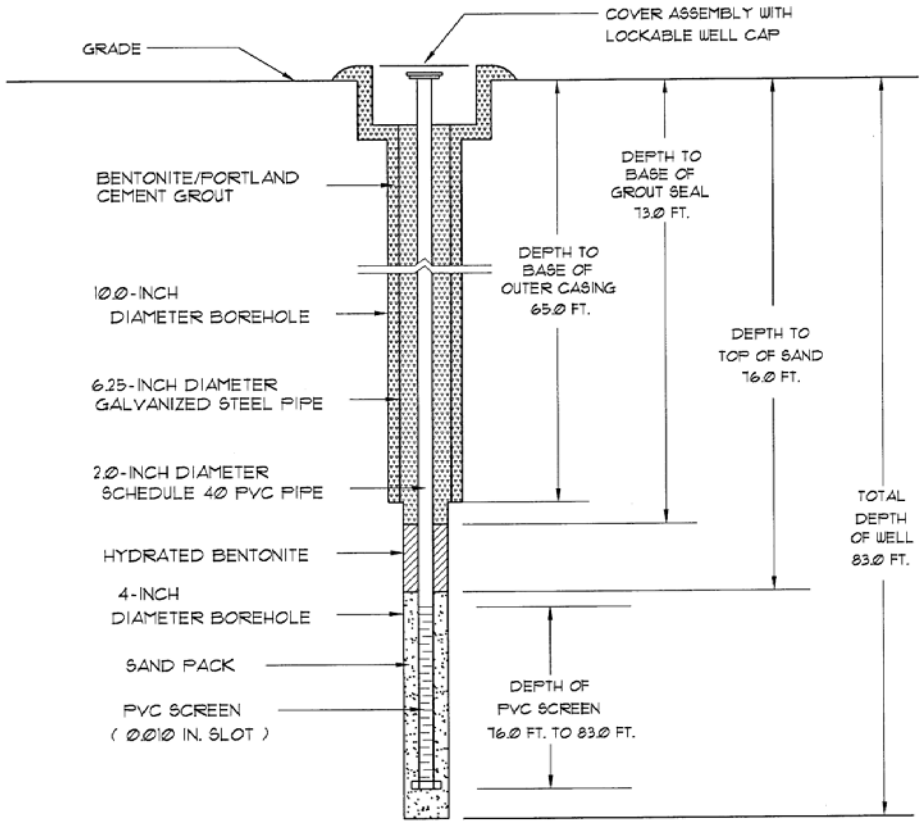
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-21D
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235 B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2046

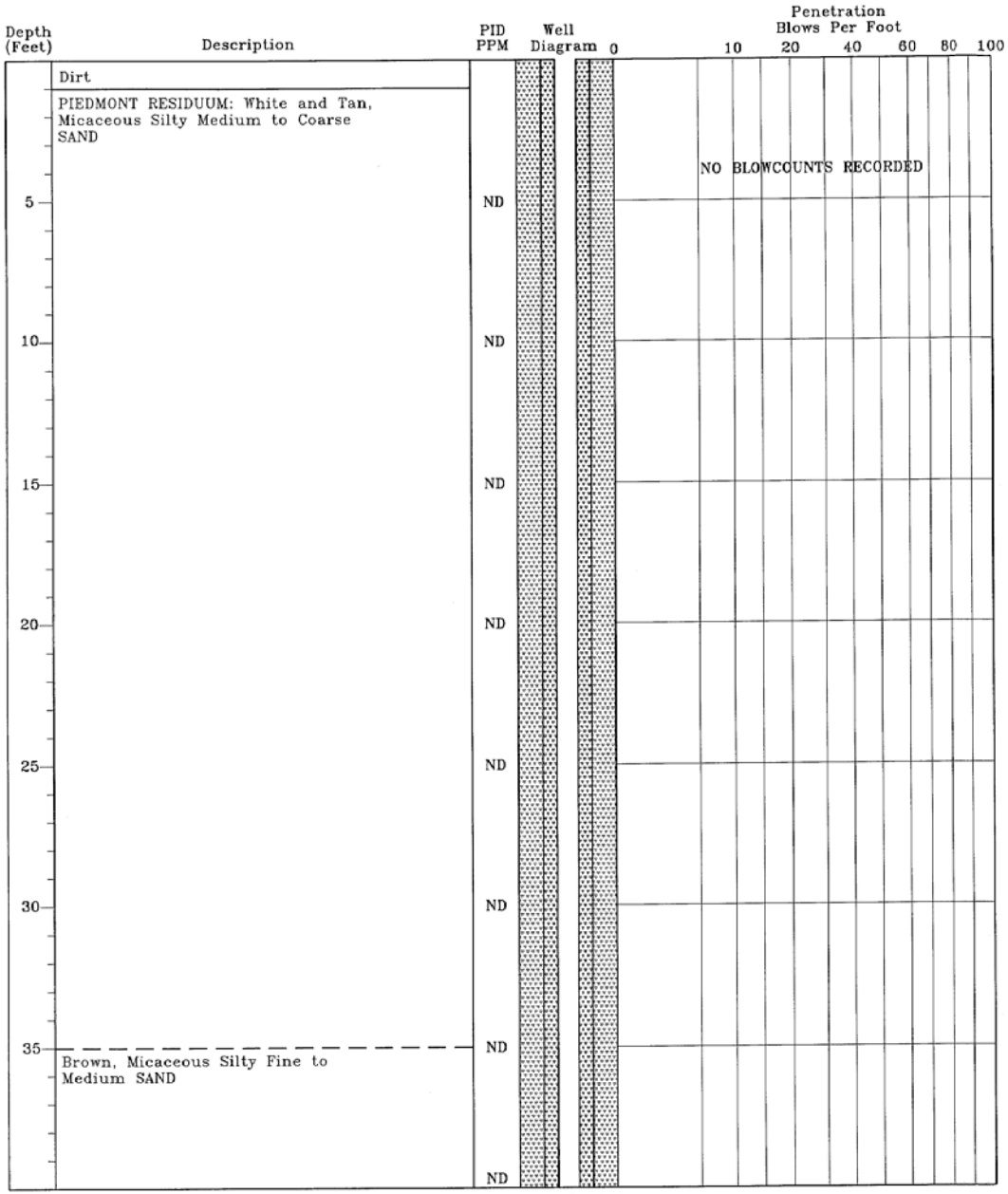
MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730



Well Number:	MW-21D
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration, Inc.
Driller: J. Watkins	S.C. I.D. #: B 01979
Logged By:	B. Kelly

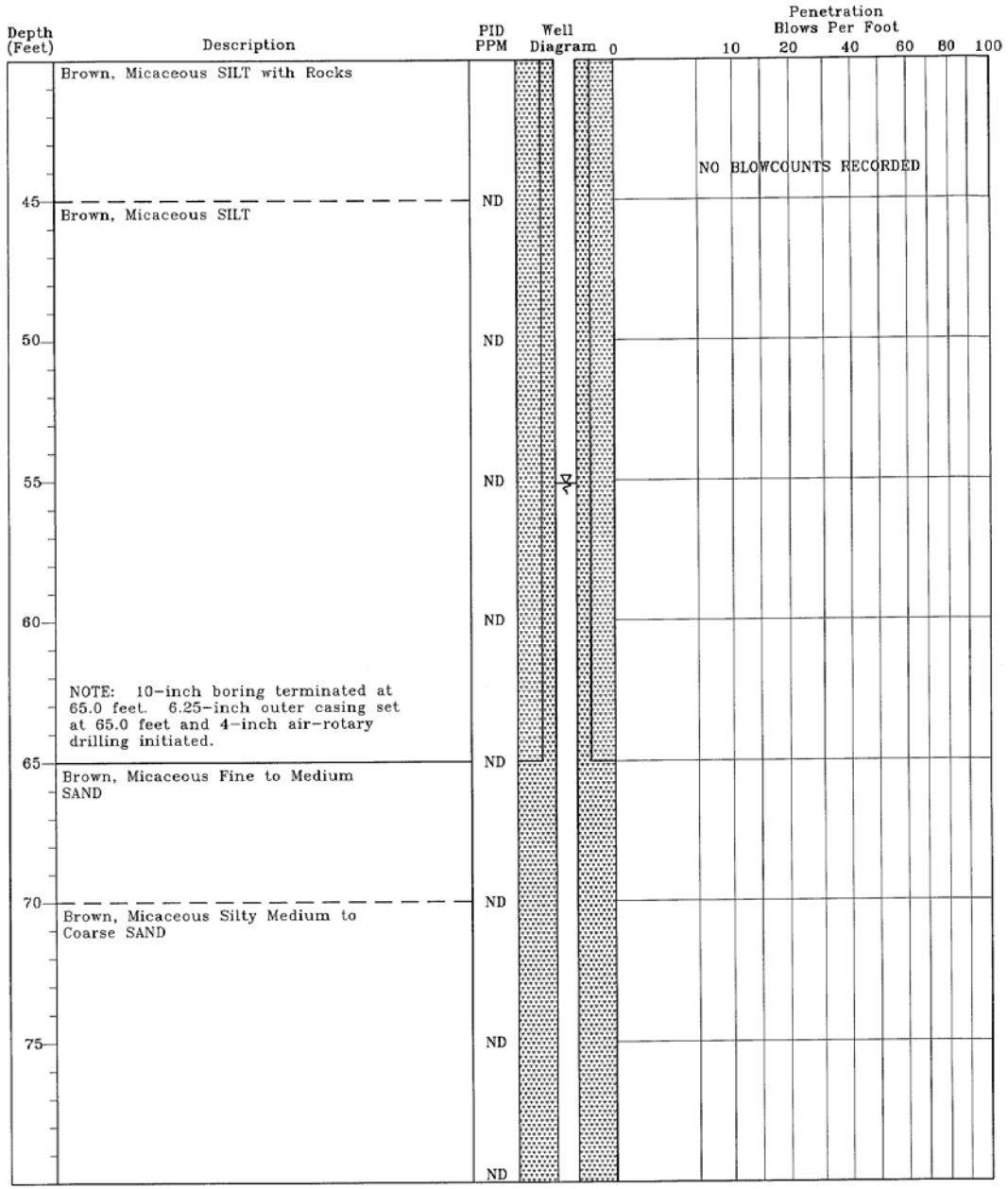
Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-22D
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

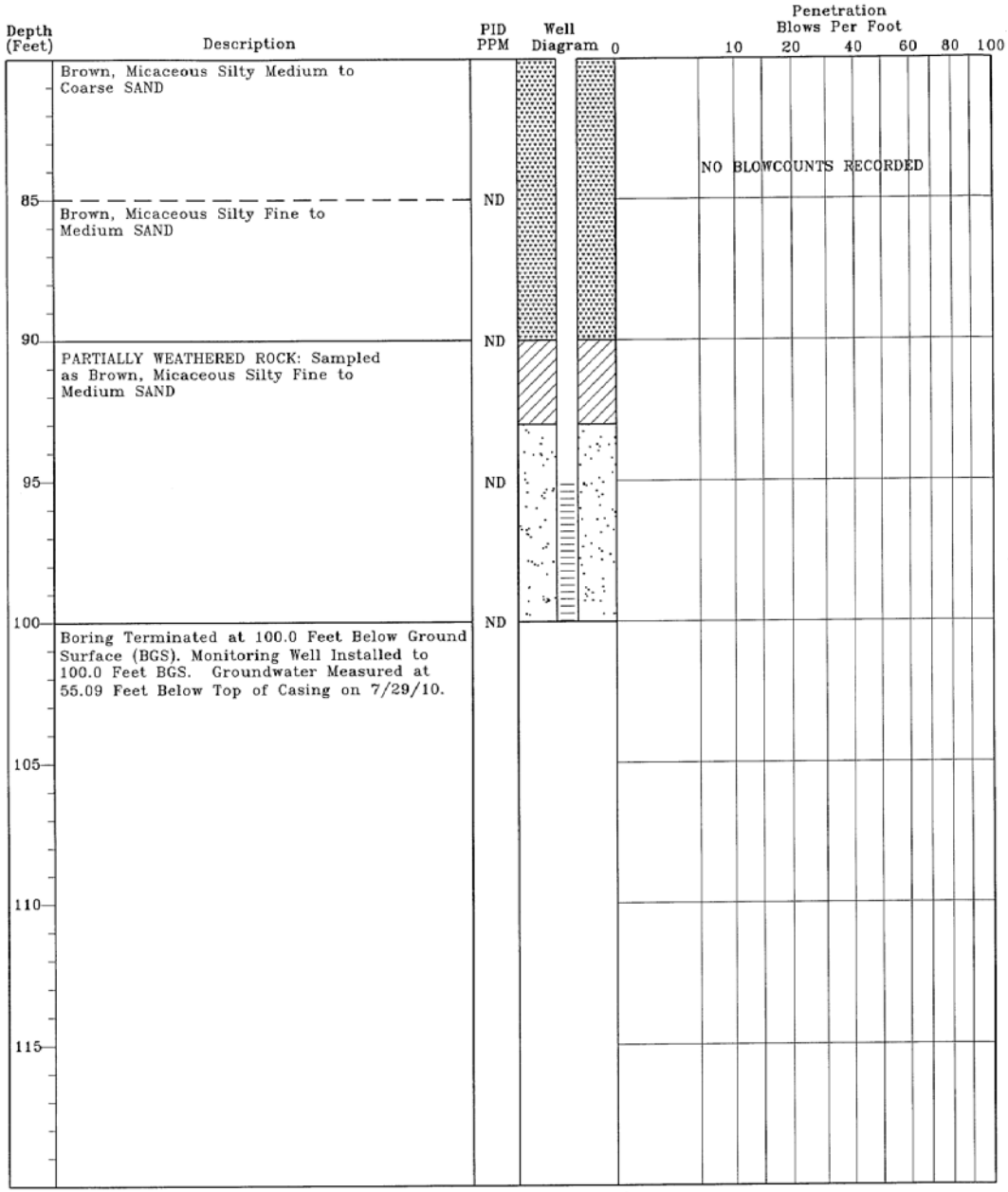
Prepared By:
Midlands Environmental Consultants, Inc.
235 B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-22D
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235 B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



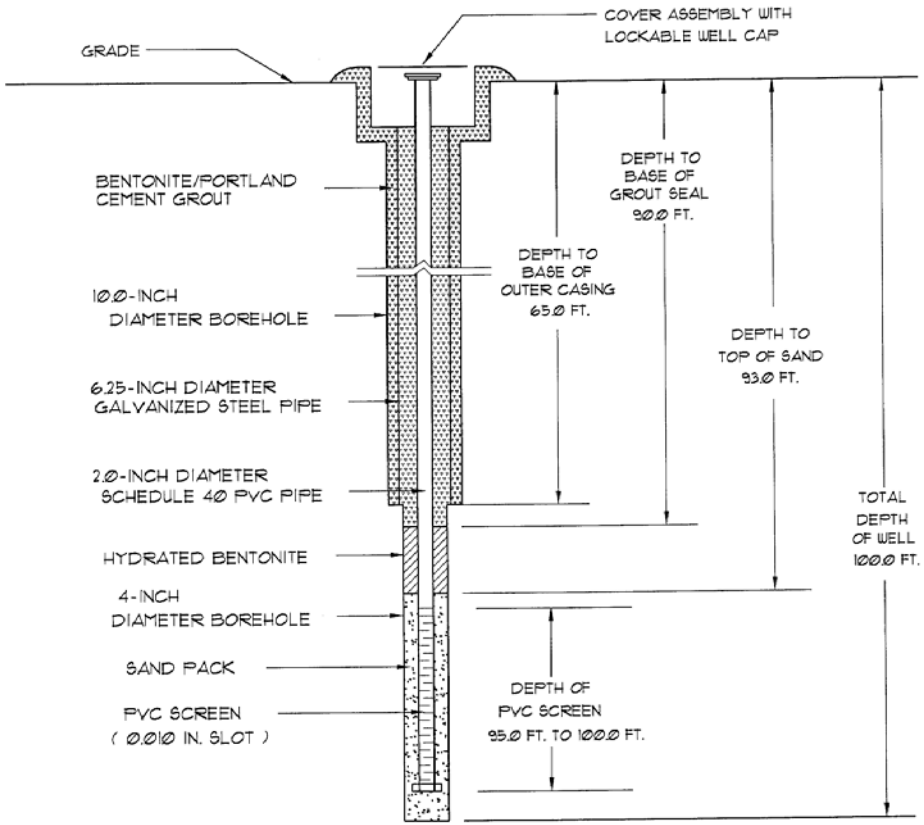
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-22D
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235 B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-1048

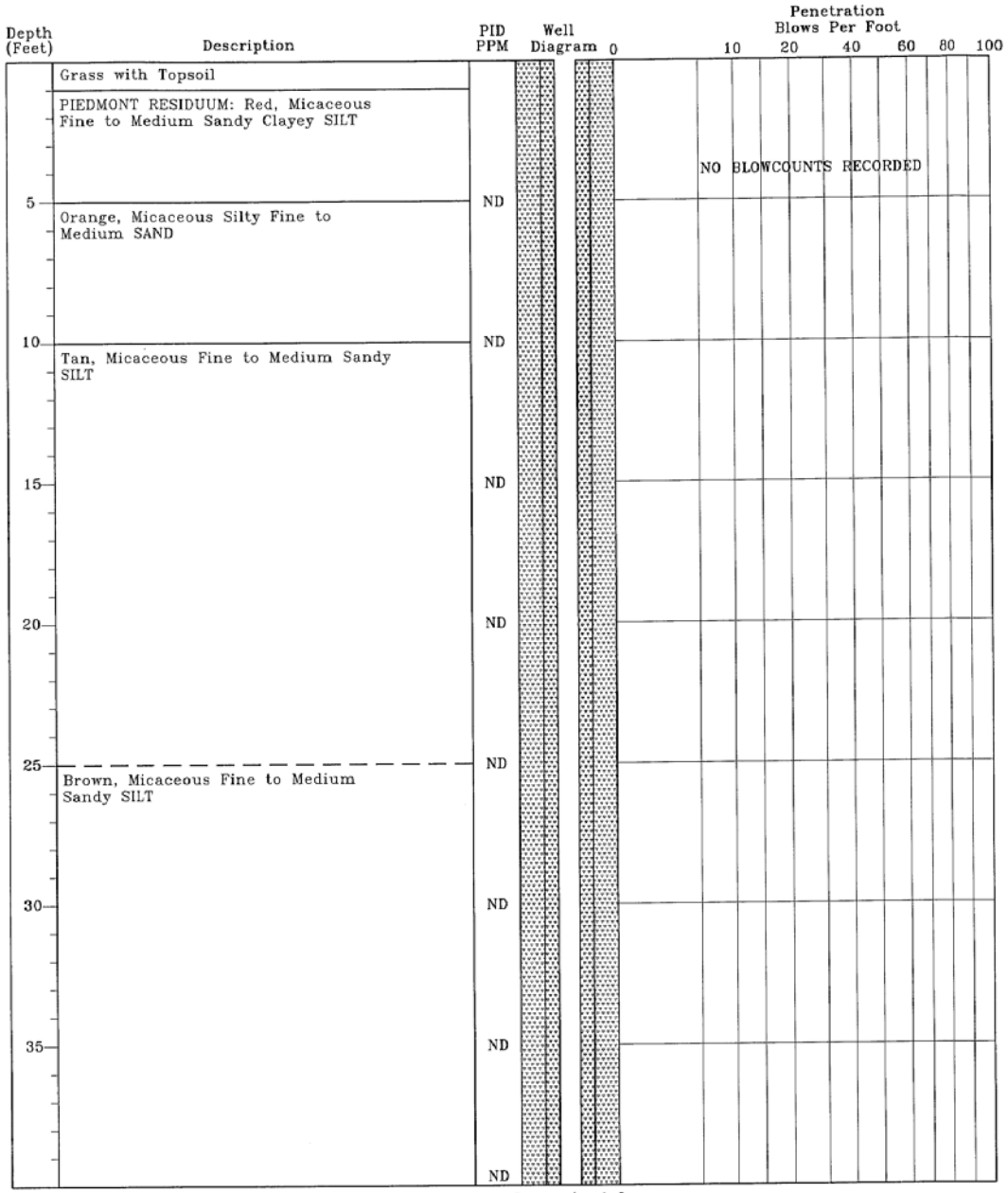
MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730



Well Number:	MW-22D
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration, Inc.
Driller: J. Watkins	S.C. I.D. #: B 01979
Logged By:	B. Kelly

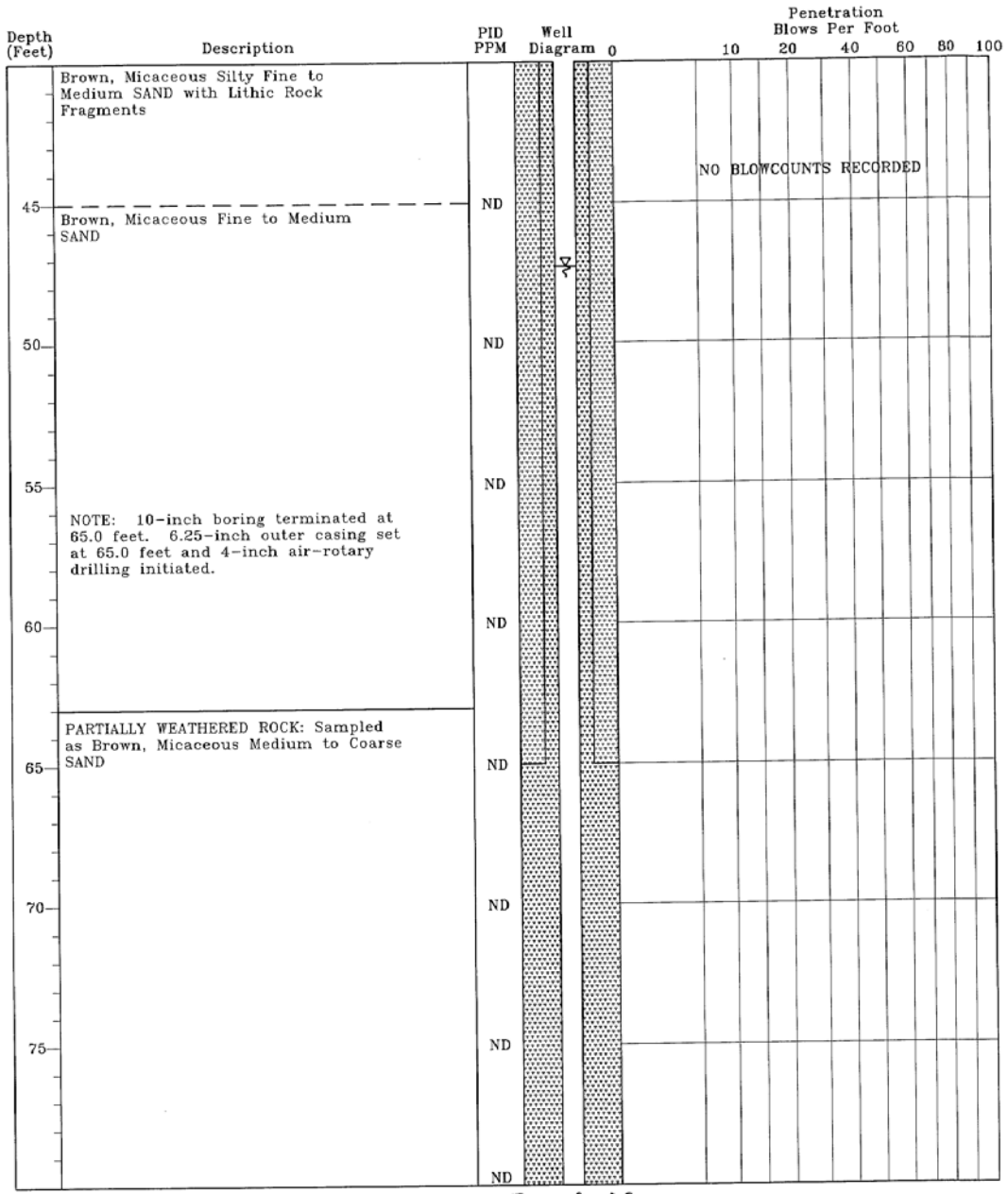
Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-23D
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

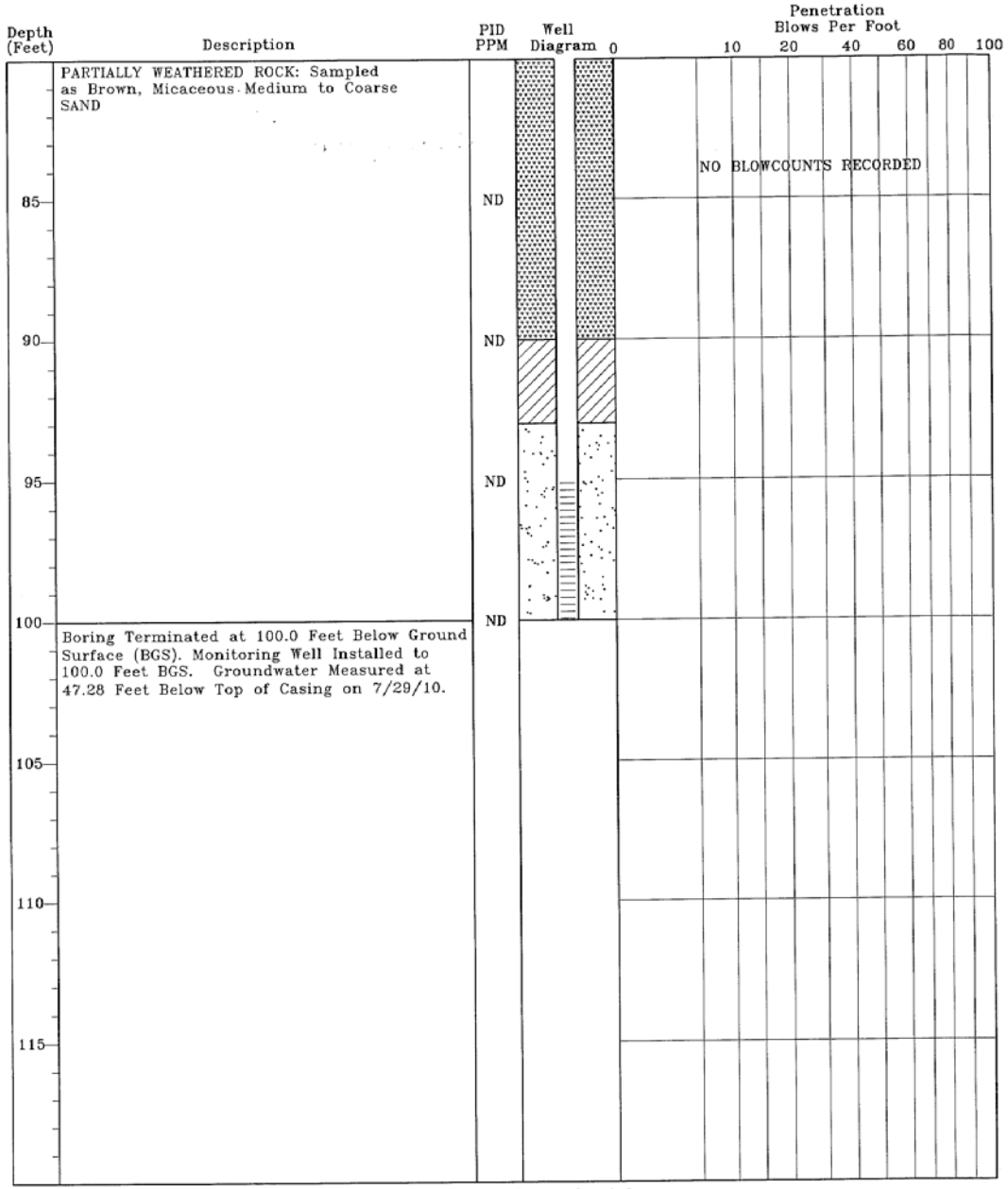
Prepared By:
Midlands Environmental Consultants, Inc.
235 B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-23D
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235 B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



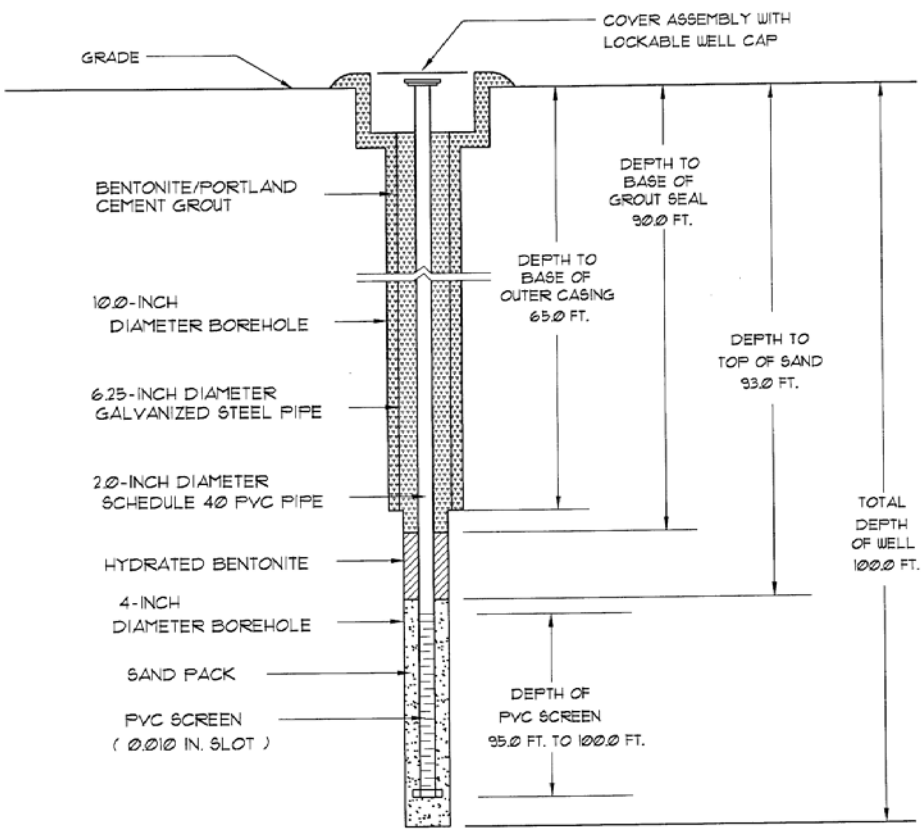
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-23D
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235 B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

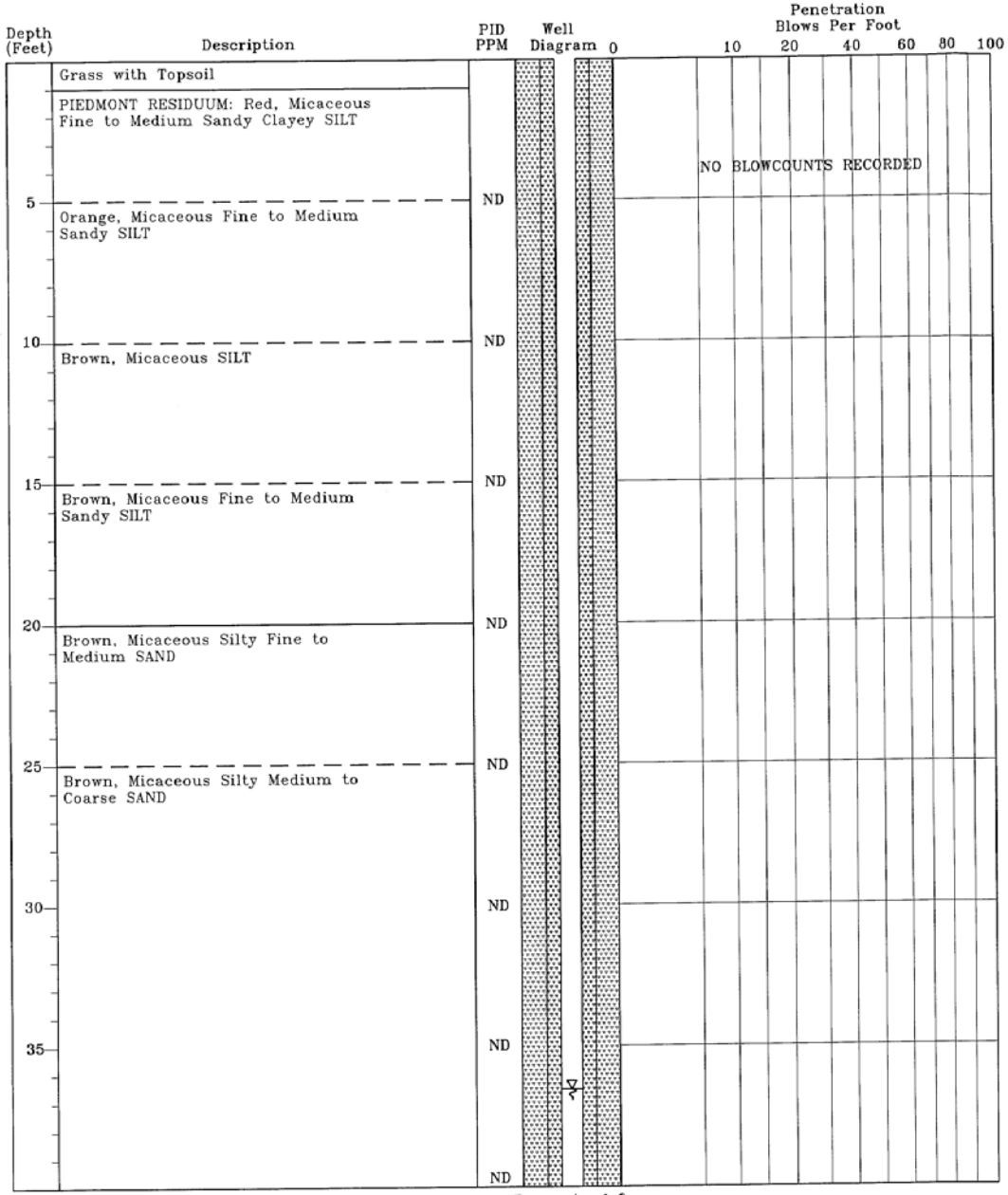
MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MEC| Project Number 10-2730



Well Number:	MW-23D
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration, Inc.
Driller: J. Watkins	S.C. I.D. #: B 01979
Logged By:	B. Kelly

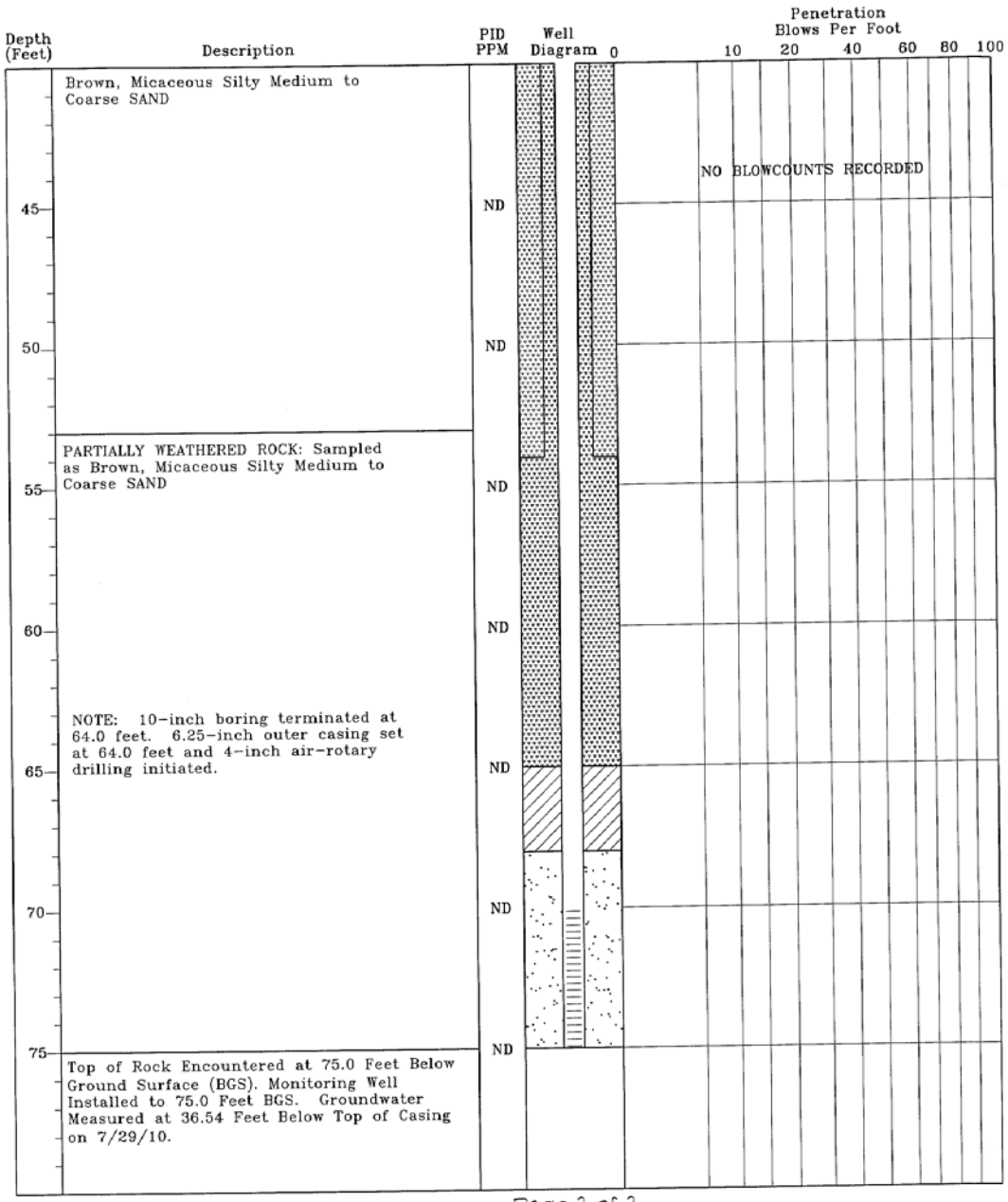
Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 Fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-24D
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235 B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



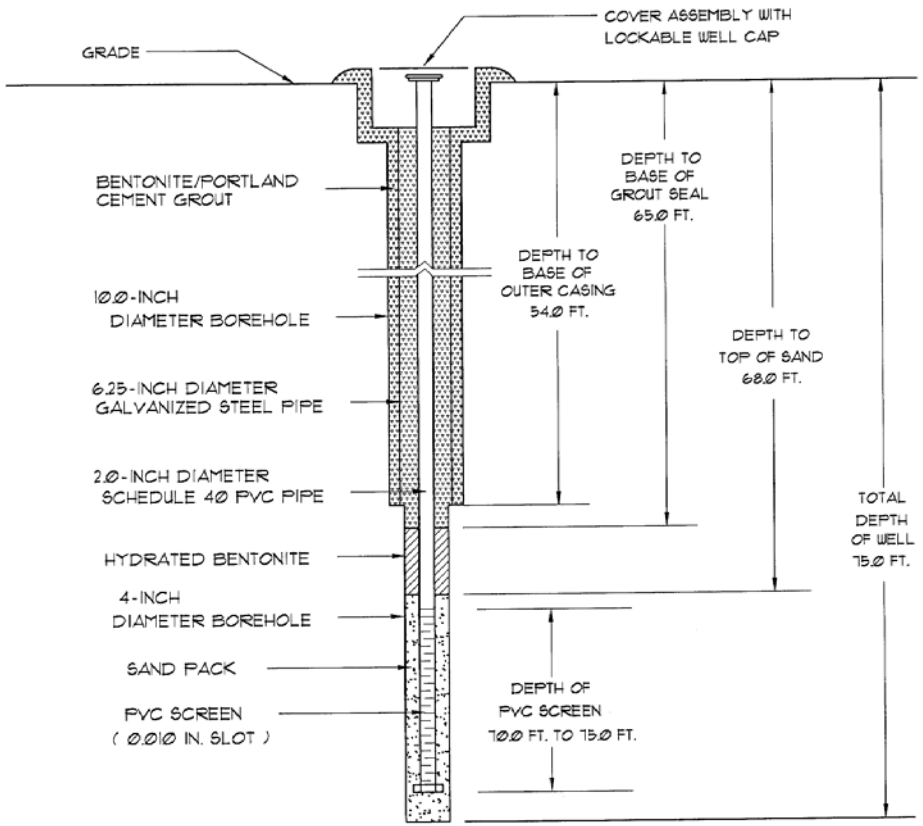
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730

Boring Number:	MW-24D
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235 B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 10-2730



Well Number:	MW-24D
Date Drilled:	7/21/10
Drilled By:	Geologic Exploration, Inc.
Driller: J. Watkins	S.C. I.D. #:B 01979
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: ESTATE OF DONALD MCGILL (DIANA MCMAHAN) (last) (first)
Address: 4520 DERRCLARE BLANE LANE
City: EVANS State: GA Zip: 30809
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: ANDERSON
Name: MCGILL GROCERY
Street Address: 2744 LAKE SECESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
RED CLAY	5.0	5.0
TAN CLAYEY SILT	23.0	28.0
GRAY/BROWN WEATHER ROCK	22.0	50.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-5 BENTONITE SEAL FROM 29.0 TO 33.0 FT.

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

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) 45.0 ft. Date Started: 07/21/10 Date Completed: 07/21/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 35.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 35.0 ft. and 45.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 37.0 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 33.0 ft. to 45.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 29.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JASON MANTAK CERT. NO.: 01494
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: Jason Mantak Well Driller Date: 07/27/10
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: ESTATE OF DONALD MCGILL (DIANA MCMAHAN) (last) (first)
Address: 4520 DERRCLARE BLANE LANE
City: EVANS State: GA Zip: 30809
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** ANDERSON
Name: MCGILL GROCERY
Street Address: 2744 LAKE SECESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

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

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILTY CLAY	20.0	20.0
TAN/BROWN SILT	30.0	50.0
PARTIALLY WEATHERED ROCK	3.0	53.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-6 BENTONITE SEAL FROM 38.0 TO 41.0 FT.

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

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) Date Started: 07/19/10
53.0 ft. Date Completed: 07/19/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 43.0 ft. depth
____ in. to ____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 43.0 ft. and 53.0 ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 45.0 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 41.0 ft. to 53.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From 0.0 ft. to 38.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: Jerry Watkins Well Driller Date: 07/27/10

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: ESTATE OF DONALD MCGILL (DIANA MCMAHAN) (last) (first)
Address: 4520 DERRCLARE BLANE LANE
City: EVANS State: GA Zip: 30809
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** ANDERSON
Name: MCGILL GROCERY
Street Address: 2744 LAKE SECESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

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

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE CLAYEY SILT	14.0	14.0
GRAY ROCK	2.0	16.0
BROWN CLAYEY SILT	17.0	33.0
GRAY ROCK	7.0	40.0
BROWN CLAYEY SILT	10.0	50.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-7 BENTONITE SEAL FROM 34.0 TO 38.0 FT.

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

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) Date Started: 07/21/10
50.0 ft. Date Completed: 07/21/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 40.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 40.0 ft. and 50.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 42.0 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 38.0 ft. to 50.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 34.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JASON MANTAK CERT. NO.: 01494
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: Jason Mantak (Well Driller) Date: 07/27/10

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: ESTATE OF DONALD MCGILL (DIANA MCMAHAN) (last) (first)
Address: 4520 DERRCLARE BLANE LANE
City: EVANS State: GA Zip: 30809
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: ANDERSON
Name: MCGILL GROCERY
Street Address: 2744 LAKE SECESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
RED SANDY SILT	10.0	10.0
TAN/BROWN SANDY SILT	15.0	25.0
TAN SANDY SILT	5.0	30.0
TAN/BROWN SANDY SILT	18.0	48.0
ROCK	1.0	49.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-8 BENTONITE SEAL FROM 33.0 TO 37.0 FT.

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

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) 49.0 ft. Date Started: 07/24/10 Date Completed: 07/24/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 39.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 39.0 ft. and 49.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 43.0 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 37.0 ft. to 49.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 33.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date Installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P. _____ Volts _____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JOHNNY BURR CERT. NO.: 01740
Address: (Print) 176 COMMERCE BLVD Level: A ☐ B ☐ C ☐ D ☑ (circle one)
STATESVILLE, NC 28625
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: Johnny Burr Well Driller Date: 07/27/10

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE. PROTECT. PROSPER

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

1. WELL OWNER INFORMATION:
Name: ESTATE OF DONALD MCGILL (DIANA MCMAHAN) (last) (first)
Address: 4520 DERRCLARE BLANE LANE
City: EVANS State: GA Zip: 30809
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: ANDERSON
Name: MCGILL GROCERY
Street Address: 2744 LAKE SECESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

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

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILTY CLAY	8.0	8.0
ORANGE/TAN SAND	14.0	22.0
BROWN SILT	20.0	42.0
PARTIALLY WEATHERED ROCK	9.0	51.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-9 BENTONITE SEAL FROM 36.0 TO 39.0 FT.

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

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) Date Started: 07/19/10
51.0 ft. Date Completed: 07/19/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 41.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 41.0 ft. and 51.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 43.0 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 39.0 ft. to 51.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 36.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date Installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: Jerry Watkins Well Driller Date: 07/27/10

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE. PROTECT. PROSPER.

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

1. WELL OWNER INFORMATION:
Name: ESTATE OF DONALD MCGILL (DIANA MCMAHAN) (last) (first)
Address: 4520 DERRCLARE BLANE LANE
City: EVANS State: GA Zip: 30809
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: ANDERSON
Name: MCGILL GROCERY
Street Address: 2744 LAKE SECESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILTY CLAY	6.0	6.0
BROWN SILTY CLAY	12.0	18.0
BROWN SILT	32.0	50.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: MW-10 BENTONITE SEAL FROM 35.0 TO 38.0 FT.		

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

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) Date Started: 07/21/10
50.0 ft. Date Completed: 07/21/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 40.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 40.0 ft. and 50.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 42.0 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 38.0 ft. to 50.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 35.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD Level: A ☐ B ☑ C ☐ D ☐ (circle one)
STATESVILLE, NC 28625
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: Jerry Watkins Well Driller Date: 07/27/10

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: ESTATE OF DONALD MCGILL (DIANA MCMAHAN) (last) (first)
Address: 4520 DERRCLARE BLANE LANE
City: EVANS State: GA Zip: 30809
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: ANDERSON
Name: MCGILL GROCERY
Street Address: 2744 LAKE SECESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILTY CLAY	6.0	6.0
BROWN SILTY CLAY	12.0	18.0
BROWN SILT	32.0	50.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-11 BENTONITE SEAL FROM 35.0 TO 38.0 FT.

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

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) 50.0 ft. Date Started: 07/21/10 Date Completed: 07/21/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 40.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 40.0 ft. and 50.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 42.0 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 38.0 ft. to 50.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 35.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: Jerry Watkins Well Driller Date: 07/27/10

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: ESTATE OF DONALD MCGILL (DIANA MCMAHAN) (last) (first)
Address: 4520 DERRCLARE BLANE LANE
City: EVANS State: GA Zip: 30809
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: ANDERSON
Name: MCGILL GROCERY
Street Address: 2744 LAKE SECESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
RED CLAY	3.0	3.0
TAN SAND	23.0	26.0
BROWN SILT	34.0	60.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-12 BENTONITE SEAL FROM 45.0 TO 48.0 FT.

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

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) 60.0 ft. Date Started: 07/15/10 Date Completed: 07/15/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 50.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 50.0 ft. and 60.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 52.0 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 48.0 ft. to 60.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 45.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P. _____ Volts _____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A B C D (circle one) ☐ ☑ ☐ ☐
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: Jerry Watkins Well Driller Date: 07/27/10

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: ESTATE OF DONALD MCGILL (DIANA MCMAHAN) (last) (first)
Address: 4520 DERRCLARE BLANE LANE
City: EVANS State: GA Zip: 30809
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: ANDERSON
Name: MCGILL GROCERY
Street Address: 2744 LAKE SECESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE CLAY	3.0	3.0
TAN/BROWN SAND	38.0	41.0
BROWN SILT	19.0	60.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-13 BENTONITE SEAL FROM 45.0 TO 48.0 FT.

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

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) Date Started: 07/16/10
60.0 ft. Date Completed: 07/16/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 50.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 50.0 ft. and 60.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 42.0 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 48.0 ft. to 60.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 45.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: Jerry Watkins Well Driller Date: 07/27/10

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: ESTATE OF DONALD MCGILL (DIANA MCMAHAN) (last) (first)
Address: 4520 DERRCLARE BLANE LANE
City: EVANS State: GA Zip: 30809
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: ANDERSON
Name: MCGILL GROCERY
Street Address: 2744 LAKE SECESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
RED CLAY	15.0	15.0
TAN CLAYEY SILT	45.0	60.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-14 BENTONITE SEAL FROM 43.0 TO 47.0 FT.

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

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) Date Started: 07/20/10
59.0 ft. Date Completed: 07/20/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 49.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 49.0 ft. and 59.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 52.0 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 47.0 ft. to 59.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 43.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P. _____ Volts _____ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JASON MANTAK CERT. NO.: 01494
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: Jason Mantak Well Driller Date: 07/27/10

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: ESTATE OF DONALD MCGILL (DIANA MCMAHAN) (last) (first)
Address: 4520 DERRCLARE BLANE LANE
City: EVANS State: GA Zip: 30809
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** ANDERSON
Name: MCGILL GROCERY
Street Address: 2744 LAKE SECESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

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

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
RED CLAY	5.0	5.0
TAN CLAYEY SILT	50.0	55.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-15 BENTONITE SEAL FROM 39.0 TO 43.0 FT.

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

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) Date Started: 07/21/10
55.0 ft. Date Completed: 07/21/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 45.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 45.0 ft. and 55.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 47.0 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 43.0 ft. to 55.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 39.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JASON MANTAK CERT. NO.: 01494
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: Jason Mantak (Well Driller) Date: 07/27/10

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: ESTATE OF DONALD MCGILL (DIANA MCMAHAN) (last) (first)
Address: 4520 DERRCLARE BLANE LANE
City: EVANS State: GA Zip: 30809
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** ANDERSON
Name: MCGILL GROCERY
Street Address: 2744 LAKE SECESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

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

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SANDY CLAY	37.0	37.0
BROWN/TAN SANDY SILT	18.0	55.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-16 BENTONITE SEAL FROM 40.0 TO 43.0 FT.

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

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) Date Started: 07/20/10
55.0 ft. Date Completed: 07/20/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 45.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 45.0 ft. and 55.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 47.0 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 43.0 ft. to 55.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 40.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P. _____ Volts _____ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS **CERT. NO.:** 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: Jerry Watkins Well Driller Date: 07/27/10

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: ESTATE OF DONALD MCGILL (DIANA MCMAHAN) (last) (first)
Address: 4520 DERRCLARE BLANE LANE
City: EVANS State: GA Zip: 30809
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** ANDERSON
Name: MCGILL GROCERY
Street Address: 2744 LAKE SECESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

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

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
RED CLAY	8.0	8.0
TAN CLAYEY SILT	47.0	55.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-17 BENTONITE SEAL FROM 39.0 TO 43.0 FT.

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

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) 55.0 ft. **Date Started:** 07/20/10 **Date Completed:** 07/20/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 45.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 45.0 ft. and 55.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 47.0 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 43.0 ft. to 55.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 39.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date Installed: _____ Not Installed ☐
Mfr. Name: _____ Model No.: _____
H.P. _____ Volts _____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JASON MANTAK **CERT. NO.:** 01494
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: Jason Mantak (Well Driller) Date: 07/27/10

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE. PROTECT. PROSPER.

1. WELL OWNER INFORMATION:
Name: ABBEVILLE COUNTY FIRE COMMISSION (last) (first)
Address: PO BOX 435
City: ABBEVILLE State: SC Zip: 29620
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** ANDERSON
Name: MCGILL GROCERY
Street Address: 2744 LAKE SECESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

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

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
RED CLAY	4.0	4.0
ORANGE SILTY CLAY	31.0	35.0
BROWN/TAN SANDY SILT	10.0	45.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-18 BENTONITE SEAL FROM 30.0 TO 33.0 FT.

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

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) 45.0 ft. Date Started: 07/20/10 Date Completed: 07/20/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 35.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 35.0 ft. and 45.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 37.0 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 33.0 ft. to 45.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 30.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS **CERT. NO.:** 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: Jerry Watkins Well Driller Date: 07/27/10

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: ESTATE OF DONALD MCGILL (DIANA MCMAHAN) (last) (first)
Address: 4520 DERRCLARE BLANE LANE
City: EVANS State: GA Zip: 30809
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** ANDERSON
Name: MCGILL GROCERY
Street Address: 2744 LAKE SECESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

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

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILTY CLAY	20.0	20.0
TAN BROWN SILT	30.0	50.0
PARTIALLY WEATHERED ROCK	20.0	70.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: MW-19D BENTONITE SEAL FROM 60.0 TO 63.0 FT. 6 1/4" GALVANIZED CASING GROUTED FROM 0.0 TO 64.0 FT		

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

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) 70.0 ft. Date Started: 07/16/10 Date Completed: 07/19/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH, 6 INCH
Type: ☑ PVC ☑ Galvanized ☐ Steel ☐ Other
2.0 in. to 65.0 ft. depth
6.0 in. to 64.0 ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 5.0 FEET
Set Between: 65.0 ft. and 70.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 45.0 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 63.0 ft. to 70.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 60.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date Installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS **CERT. NO.:** 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: Jerry Watkins Well Driller Date: 07/27/10

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: ESTATE OF DONALD MCGILL (DIANA MCMAHAN) (last) (first)
Address: 4520 DERRCLARE BLANE LANE
City: EVANS State: GA Zip: 30809
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** ANDERSON
Name: MCGILL GROCERY
Street Address: 2744 LAKE SECESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

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

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE CLAY	3.0	3.0
BROWN/TAN SILTY CLAY	15.0	18.0
BROWN SILT	44.0	62.0
PARTIALLY WEATHERED ROCK	5.0	67.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-20D BENTONITE SEAL FROM 60.0 TO 63.0 FT. 6 1/4" GALVANIZED CASING GROUTED FROM 0.0 TO 65.0 FT

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

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) Date Started: 07/20/10
67.0 ft. Date Completed: 07/21/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH, 6 INCH
Type: ☑ PVC ☑ Galvanized ☐ Steel ☐ Other
2.0 in. to 65.0 ft. depth
6.0 in. to 65.0 ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 2.0 FEET
Set Between: 65.0 ft. and 67.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 42.0 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 63.0 ft. to 67.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 60.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P. _____ Volts _____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A B C D (circle one) ☐ ☑ ☐ ☐
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: Jerry Watkins Well Driller Date: 07/27/10

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: ESTATE OF DONALD MCGILL (DIANA MCMAHAN) (last) (first)
Address: 4520 DERRCLARE BLANE LANE
City: EVANS State: GA Zip: 30809
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** ANDERSON
Name: MCGILL GROCERY
Street Address: 2744 LAKE SECESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

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

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILTY CLAY	6.0	6.0
BROWN SILTY CLAY	12.0	18.0
BROWN SILT	36.0	54.0
GRAY SILT	9.0	63.0
PARTIALLY WEATHERED ROCK	20.0	83.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-21D BENTONITE SEAL FROM 73.0 TO 76.0 FT. 6 1/4" GALVANIZED CASING GROUTED FROM 0.0 TO 65.0 FT.

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

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) 83.0 ft. **Date Started:** 07/20/10 **Date Completed:** 07/21/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH, 6 INCH
Type: ☑ PVC ☑ Galvanized ☐ Steel ☐ Other
2.0 in. to 78.0 ft. depth
6.0 in. to 65.0 ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 5.0 FEET
Set Between: 78.0 ft. and 83.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 42.0 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 76.0 ft. to 83.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 73.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date Installed: _____ Not Installed ☐
Mfr. Name: _____ Model No.: _____
H.P. _____ Volts _____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS **CERT. NO.:** 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: Jerry Watkins Well Driller Date: 07/27/10

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: ESTATE OF DONALD MCGILL (DIANA MCMAHAN) (last) (first)
Address: 4520 DERRCLARE BLANE LANE
City: EVANS State: GA Zip: 30809
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** ANDERSON
Name: MCGILL GROCERY
Street Address: 2744 LAKE SECESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

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

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE CLAY	3.0	3.0
TAN/BROWN SAND	38.0	41.0
BROWN SILT	49.0	90.0
PARTIALLY WEATHERED ROCK	10.0	100.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-22D BENTONITE SEAL FROM 90.0 TO 93.0 FT. 6 1/4" GALVANIZED CASING GROUTED FROM 0.0 TO 65.0 FT

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

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) 100.0 ft. **Date Started:** 07/15/10 **Date Completed:** 07/21/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH, 6 INCH
Type: ☑ PVC ☑ Galvanized ☐ Steel ☐ Other
2.0 in. to 95.0 ft. depth
6.0 in. to 65.0 ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 5.0 FEET
Set Between: 95.0 ft. and 100.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 52.0 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 93.0 ft. to 100.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 90.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date Installed: _____ ☐ Not installed
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS **CERT. NO.:** 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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.

Jerry Watkins
Signed: _____ Date: 07/27/10
Well Driller

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: ESTATE OF DONALD MCGILL (DIANA MCMAHAN) (last) (first)
Address: 4520 DERRCLARE BLANE LANE
City: EVANS State: GA Zip: 30809
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** ANDERSON
Name: MCGILL GROCERY
Street Address: 2744 LAKE SECESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

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

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SANDY CLAY	37.0	37.0
BROWN/TAN SANDY SILT	26.0	63.0
PARTIALLY WEATHERED ROCK	37.0	100.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: MW-23D BENTONITE SEAL FROM 90.0 TO 93.0 FT. 6 1/4" GALVANIZED CASING GROUTED FROM 0.0 TO 65.0 FT.		

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

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) 100.0 ft. Date Started: 07/15/10 Date Completed: 07/21/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH, 6 INCH
Type: ☑ PVC ☑ Galvanized ☐ Steel ☐ Other
2.0 in. to 95.0 ft. depth
6.0 in. to 65.0 ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 5.0 FEET
Set Between: 95.0 ft. and 100.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 47.0 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 93.0 ft. to 100.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 90.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS **CERT. NO.:** 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: Jerry Watkins Well Driller Date: 07/27/10

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: ABBEVILLE COUNTY FIRE COMMISSION (last) (first)
Address: PO BOX 435
City: ABBEVILLE State: SC Zip: 29620
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** ANDERSON
Name: MCGILL GROCERY
Street Address: 2744 LAKE SECESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

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

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
RED CLAY	4.0	4.0
ORANGE SILTY CLAY	31.0	35.0
BROWN/TAN SANDY SILT	18.0	53.0
PARTIALLY WEATHERED ROCK	22.0	75.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-24D BENTONITE SEAL FROM 65.0 TO 68.0 FT. 6 1/4" GALVANIZED CASING GROUTED FROM 0.0 TO 54.0 FT

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

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) 75.0 ft. Date Started: 07/15/10 Date Completed: 07/21/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH, 6 INCH
Type: ☑ PVC ☑ Galvanized ☐ Steel ☐ Other
2.0 in. to 70.0 ft. depth
6.0 in. to 54.0 ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 5.0 FEET
Set Between: 70.0 ft. and 75.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 37.0 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 (filler pack) ☑ Yes ☐ No
Installed from 68.0 ft. to 75.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 65.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P. _____ Volts _____ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS **CERT. NO.:** 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: Jerry Watkins Well Driller Date: 07/27/10

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

APPENDIX B

ANALYTICAL RESULTS

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

August 06, 2010

Mr. Bryan Shane
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: McGLL GROCERY 10-2730
Pace Project No.: 9274549

Dear Mr. Shane:
Enclosed are the analytical results for sample(s) received by the laboratory on July 30, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Renee Spencer

Renee Spencer

renee.spencer@pacelabs.com
Project Manager

Enclosures

cc: Mr. Jeff Coleman, Midlands Environmental

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

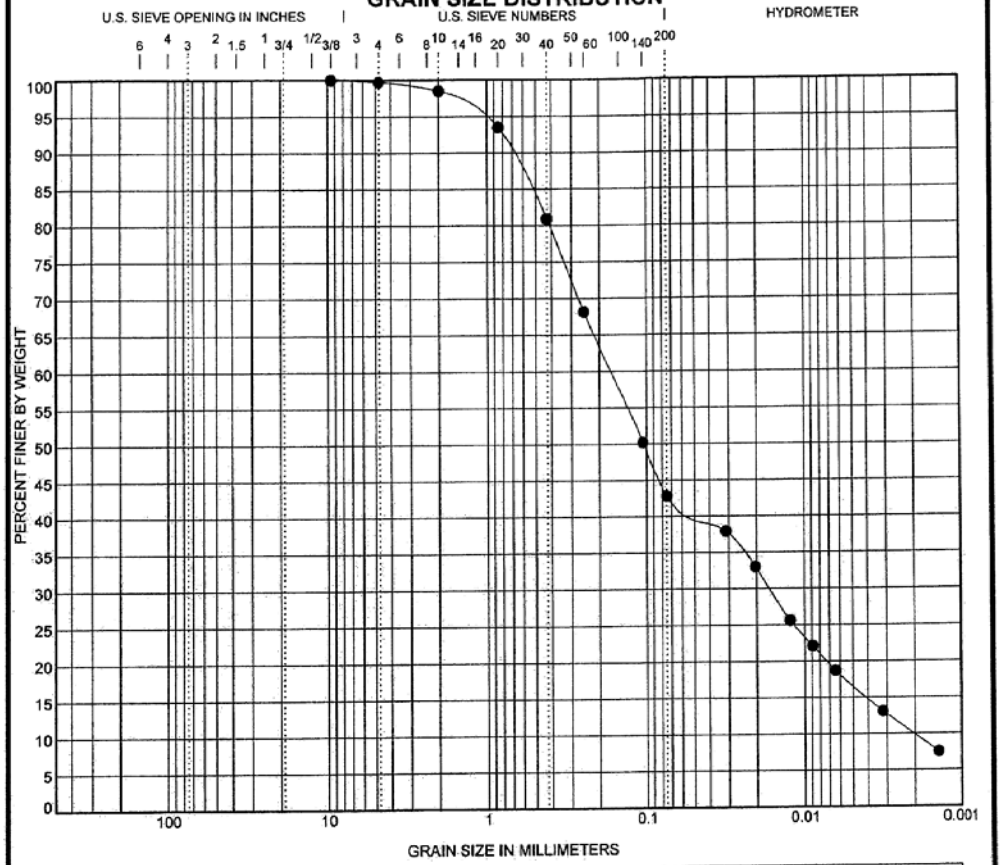
SAMPLE SUMMARY

Project: McGLL GROCERY 10-2730
Pace Project No.: 9274549

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9274549001	**MW-11 (50')**	Solid	07/23/10 10:00	07/30/10 14:20
9274549002	**MW-21D (80')**	Solid	07/23/10 10:30	07/30/10 14:20

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

GRAIN SIZE DISTRIBUTION



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Specimen Identification		Classification	LL	PL	PI	Cc	Cu
●	MW-11	50'					0.81	83.64

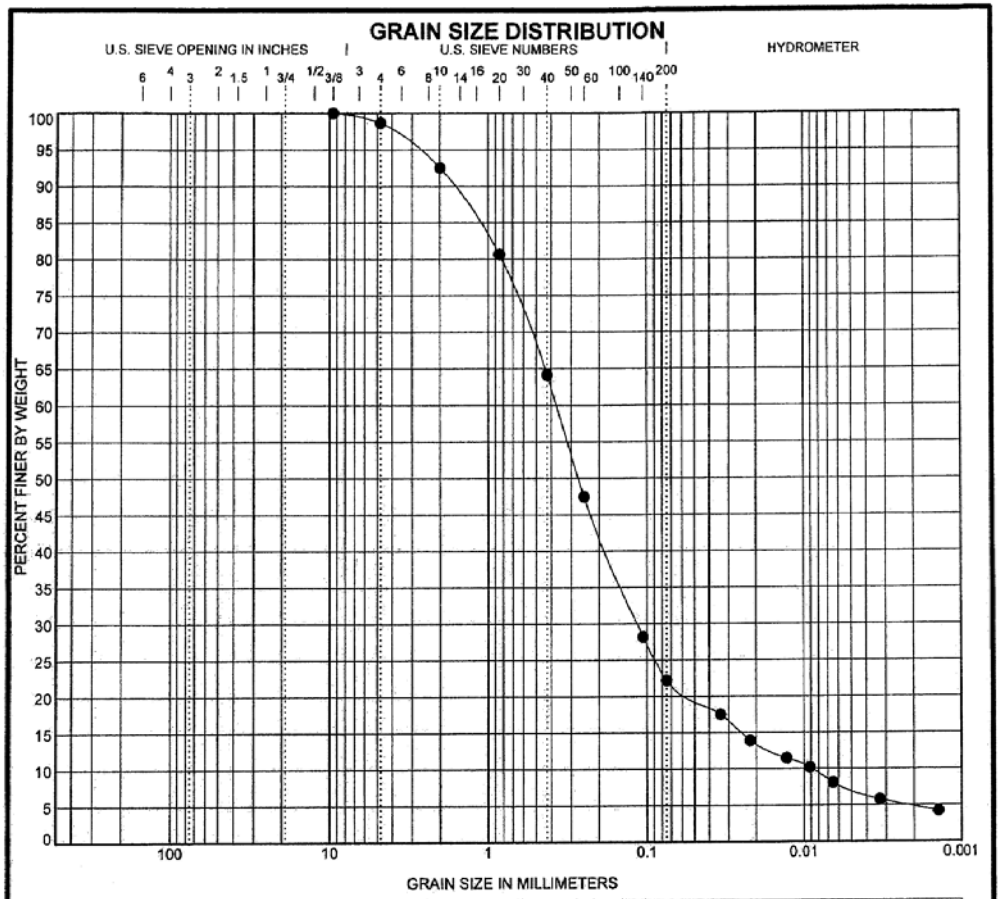
	Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	MW-11	50'	9.5	0.169	0.017	0.002	0.3	57.0	26.1	16.7

SHIELD ENGINEERING, INC.
4301 Taggart Creek Road
Charlotte, NC 28208
Telephone: 704-394-6913
Toll Free: 800-395-5220
Fax: 704-394-6968

Pace Project No.: 9274549
Pace Lab ID: 9274549001
Pace Analytical
Shield Project No.: 1100026-01

H:\GEO-ENVIRONMENTAL (0120)\LAB\LAB GINT\2010\1100026-01_PACE.GPJMW-113/17/2010 2:00:01 PM

GRAIN SIZE DISTRIBUTION



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Specimen Identification	Classification	LL	PL	PI	Cc	Cu
●	MW-21D 80'					4.01	42.29

	Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	MW-21D 80'	9.5	0.373	0.115	0.009	1.3	76.5	15.0	7.2

SHIELD ENGINEERING, INC.
4301 Taggart Creek Road
Charlotte, NC 28208
Telephone: 704-394-6913
Toll Free: 800-395-5220
Fax: 704-394-6968

Pace Project No.: 9274549
Pace Lab ID: 9274549002
Pace Analytical
Shield Project No.: 1100026-01

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of 1379096

Section A Required Client Information:
Company: MECL
Address: 235-B Dooley Road Lexington, SC 29073
Email To: SLC@MECL.Net
Phone: 803-808-2043 Fax: 803-808-2046
Requested Due Date/TAT:

Section B Required Project Information:
Report To: B. Shuler
Copy To:
Purchase Order No.:
Project Name: McGill Grocery
Project Number: 10-2730

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: R. Spencer
Pace Profile #: 8320-2

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER
Site Location STATE: SC Abbeville County

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-11(50')	SL	G			7/23/10	10:00		1	X								X	Grain-Size/Hydro		9274519
2	MW-21D(80')	SL	G			7/23/10	10:30		1	X								X			881
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
		7-30-10	10:18	Pace	7-30-10	10:18	
		7-30-10	1420		7-30-10	18:20	1.2 yes yes

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 7/30/10

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 29, 2010

Mr. Bryan Shane
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: McGill Grocery 10-2790
Pace Project No.: 9266173

Dear Mr. Shane:
Enclosed are the analytical results for sample(s) received by the laboratory on March 26, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Renee Spencer

Renee Spencer

renee.spencer@pacelabs.com
Project Manager

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: McGill Grocery 10-2790
Pace Project No.: 9266173

Charlotte Certification IDs
Connecticut Certification #: PH-0104
9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
Kentucky UST Certification #: 84
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 990060001
South Carolina Drinking Water Cert. #: 990060003
Tennessee Certification #: 04010
Virginia Certification #: 00213
West Virginia Certification #: 357
Florida/NELAP Certification #: E87627

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: McGill Grocery 10-2790
Pace Project No.: 9266173

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9266173001	**GPW-1**	Water	03/24/10 10:12	03/26/10 15:45
9266173002	**GPW-2**	Water	03/24/10 13:29	03/26/10 15:45
9266173003	**GPW-4**	Water	03/24/10 14:15	03/26/10 15:45
9266173004	**GPW-8**	Water	03/25/10 14:40	03/26/10 15:45
9266173005	**GPW-9**	Water	03/25/10 14:56	03/26/10 15:45

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: McGill Grocery 10-2790
Pace Project No.: 9266173

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9266173001	**GPW-1**	EPA 8260	KJM	11
9266173002	**GPW-2**	EPA 8260	KJM	11
9266173003	**GPW-4**	EPA 8260	KJM	11
9266173004	**GPW-8**	EPA 8260	KJM	11
9266173005	**GPW-9**	EPA 8260	KJM	11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 10-2790
Pace Project No.: 9266173

Sample: GPW-1 **Lab ID: 9266173001** Collected: 03/24/10 10:12 Received: 03/26/10 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**192**	ug/L	50.0	12.0	10		03/29/10 12:44	71-43-2	
Ethylbenzene	**80.5**	ug/L	50.0	11.0	10		03/29/10 12:44	100-41-4	
Methyl-tert-butyl ether	**387**	ug/L	50.0	20.0	10		03/29/10 12:44	1634-04-4	
Naphthalene	ND	ug/L	50.0	29.0	10		03/29/10 12:44	91-20-3	
Toluene	**2890**	ug/L	50.0	18.0	10		03/29/10 12:44	108-88-3	E
m&p-Xylene	**328**	ug/L	100	27.0	10		03/29/10 12:44	1330-20-7	
o-Xylene	**231**	ug/L	50.0	17.0	10		03/29/10 12:44	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130		10		03/29/10 12:44	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		10		03/29/10 12:44	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		10		03/29/10 12:44	17060-07-0	
Toluene-d8 (S)	97	%	70-130		10		03/29/10 12:44	2037-26-5	

Sample: GPW-2 **Lab ID: 9266173002** Collected: 03/24/10 13:29 Received: 03/26/10 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**19900**	ug/L	100	24.0	20		03/29/10 13:26	71-43-2	E
Ethylbenzene	**8320**	ug/L	100	22.0	20		03/29/10 13:26	100-41-4	E
Methyl-tert-butyl ether	**81600**	ug/L	100	40.0	20		03/29/10 13:26	1634-04-4	E
Naphthalene	**1050**	ug/L	100	58.0	20		03/29/10 13:26	91-20-3	
Toluene	**107000**	ug/L	100	36.0	20		03/29/10 13:26	108-88-3	E
m&p-Xylene	**21600**	ug/L	200	54.0	20		03/29/10 13:26	1330-20-7	E
o-Xylene	**22600**	ug/L	100	34.0	20		03/29/10 13:26	95-47-6	E
4-Bromofluorobenzene (S)	102	%	70-130		20		03/29/10 13:26	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		20		03/29/10 13:26	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	70-130		20		03/29/10 13:26	17060-07-0	
Toluene-d8 (S)	95	%	70-130		20		03/29/10 13:26	2037-26-5	

Sample: GPW-4 **Lab ID: 9266173003** Collected: 03/24/10 14:15 Received: 03/26/10 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		03/29/10 11:46	71-43-2	pH
Ethylbenzene	ND	ug/L	5.0	1.1	1		03/29/10 11:46	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		03/29/10 11:46	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		03/29/10 11:46	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		03/29/10 11:46	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		03/29/10 11:46	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		03/29/10 11:46	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130		1		03/29/10 11:46	460-00-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 10-2790
Pace Project No.: 9266173

Sample: GPW-4 **Lab ID: 9266173003** Collected: 03/24/10 14:15 Received: 03/26/10 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dibromofluoromethane (S)	100	%	70-130		1		03/29/10 11:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		03/29/10 11:46	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/29/10 11:46	2037-26-5	

Sample: GPW-8 **Lab ID: 9266173004** Collected: 03/25/10 14:40 Received: 03/26/10 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		03/29/10 12:04	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		03/29/10 12:04	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		03/29/10 12:04	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		03/29/10 12:04	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		03/29/10 12:04	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		03/29/10 12:04	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		03/29/10 12:04	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130		1		03/29/10 12:04	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		03/29/10 12:04	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		03/29/10 12:04	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		03/29/10 12:04	2037-26-5	

Sample: GPW-9 **Lab ID: 9266173005** Collected: 03/25/10 14:56 Received: 03/26/10 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		03/29/10 12:23	71-43-2	HS
Ethylbenzene	ND	ug/L	5.0	1.1	1		03/29/10 12:23	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		03/29/10 12:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		03/29/10 12:23	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		03/29/10 12:23	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		03/29/10 12:23	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		03/29/10 12:23	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130		1		03/29/10 12:23	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		03/29/10 12:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		03/29/10 12:23	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/29/10 12:23	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 10-2790
Pace Project No.: 9266173

QC Batch: MSV/10425 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 9266173001, 9266173002, 9266173003, 9266173004, 9266173005

METHOD BLANK: 421246 Matrix: Water
Associated Lab Samples: 9266173001, 9266173002, 9266173003, 9266173004, 9266173005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	5.0	03/29/10 11:10	
Ethylbenzene	ug/L	ND	5.0	03/29/10 11:10	
m&p-Xylene	ug/L	ND	10.0	03/29/10 11:10	
Methyl-tert-butyl ether	ug/L	ND	5.0	03/29/10 11:10	
Naphthalene	ug/L	ND	5.0	03/29/10 11:10	
o-Xylene	ug/L	ND	5.0	03/29/10 11:10	
Toluene	ug/L	ND	5.0	03/29/10 11:10	
1,2-Dichloroethane-d4 (S)	%	104	70-130	03/29/10 11:10	
4-Bromofluorobenzene (S)	%	101	70-130	03/29/10 11:10	
Dibromofluoromethane (S)	%	100	70-130	03/29/10 11:10	
Toluene-d8 (S)	%	99	70-130	03/29/10 11:10	

LABORATORY CONTROL SAMPLE: 421247

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	45.1	90	70-130	
Ethylbenzene	ug/L	50	44.6	89	70-130	
m&p-Xylene	ug/L	100	89.4	89	70-130	
Methyl-tert-butyl ether	ug/L	50	48.2	96	70-130	
Naphthalene	ug/L	50	46.0	92	70-130	
o-Xylene	ug/L	50	47.8	96	70-130	
Toluene	ug/L	50	46.5	93	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: McGill Grocery 10-2790
Pace Project No.: 9266173

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
S - Surrogate
1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.
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.
Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.
U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

1353097

Section A Required Client Information:

Company: MECI
Address: 235-B Dooley Rd. Lexington SC 29073
Email To: wcm@meci.net
Phone: 803-808-2043 Fax: 803-808-2048
Requested Due Date/TAT:

Section B Required Project Information:

Report To: B. Shane
Copy To:
Purchase Order No.:
Project Name: McGill Grocery
Project Number: 10-2730

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: R. Spencer
Pace Profile #: 836-8

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	BTEX, Naph, MTBE (8260)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GPW-1	WT	G			3/24	10:12		3				3						X		Strong odor 001
2	GPW-2	↓	↓			3/24	13:29		2				2						↓		odor 2 VOA 002
3	GPW-4	↓	↓			3/24	14:15		2				2						↓		no odor 2 VOA 003
4	GPW-8	↓	↓			3/25	14:40		2				2						↓		no odor 2 VOA 004
5	GPW-9	WT	G			3/25	14:56		2				2						X		no odor 2 VOA 005
6																					
7																					
8																					
9																					
10																					
11																					
12																					

0926073

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Report J values	[signature]	3/26/10	1054	[signature] / Pace	3/26/10	1054				
	[signature] / Pace	3/26/10	1545	[signature] / Pace	3/26/10	15:45	Sib	yes	no	yes

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kyle Pudney
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 3/25/2010

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 30, 2010

Mr. Bryan Shane
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: McGill Grocery 10-2730
Pace Project No.: 9266199

Dear Mr. Shane:
Enclosed are the analytical results for sample(s) received by the laboratory on March 27, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Renee Spencer

Renee Spencer

renee.spencer@pacelabs.com
Project Manager

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: McGill Grocery 10-2730
Pace Project No.: 9266199

Charlotte Certification IDs
9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
Connecticut Certification #: PH-0104
Virginia Certification #: 00213
Tennessee Certification #: 04010
South Carolina Drinking Water Cert. #: 990060003
South Carolina Certification #: 990060001
Pennsylvania Certification #: 68-00784
North Carolina Wastewater Certification #: 12
North Carolina Field Services Certification #: 5342
North Carolina Drinking Water Certification #: 37706
New Jersey Certification #: NC012
Louisiana/LELAP Certification #: 04034
Kentucky UST Certification #: 84
Florida/NELAP Certification #: E87627
West Virginia Certification #: 357

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: McGill Grocery 10-2730
Pace Project No.: 9266199

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9266199001	GPW-3	Water	03/26/10 11:25	03/27/10 09:00
9266199002	GPW-10	Water	03/26/10 11:30	03/27/10 09:00
9266199003	GPW-11	Water	03/26/10 11:10	03/27/10 09:00
9266199004	GPW-12	Water	03/26/10 11:03	03/27/10 09:00
9266199005	GPW-13	Water	03/26/10 10:50	03/27/10 09:00
9266199006	GPW-14	Water	03/26/10 11:40	03/27/10 09:00
9266199007	GPW-17	Water	03/26/10 12:04	03/27/10 09:00

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: McGill Grocery 10-2730
Pace Project No.: 9266199

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9266199001	**GPW-3**	EPA 8260	DLK	11
9266199002	**GPW-10**	EPA 8260	DLK	11
9266199003	**GPW-11**	EPA 8260	DLK	11
9266199004	**GPW-12**	EPA 8260	DLK	11
9266199005	**GPW-13**	EPA 8260	DLK	11
9266199006	**GPW-14**	EPA 8260	DLK	11
9266199007	**GPW-17**	EPA 8260	DLK	11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 10-2730
Pace Project No.: 9266199

Sample: GPW-3 **Lab ID: 9266199001** Collected: 03/26/10 11:25 Received: 03/27/10 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		03/28/10 21:29	71-43-2	HS
Ethylbenzene	ND	ug/L	5.0	1.1	1		03/28/10 21:29	100-41-4	
Methyl-tert-butyl ether	**16.5**	ug/L	5.0	2.0	1		03/28/10 21:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		03/28/10 21:29	91-20-3	
Toluene	**3.4J**	ug/L	5.0	1.8	1		03/28/10 21:29	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		03/28/10 21:29	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		03/28/10 21:29	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130		1		03/28/10 21:29	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		03/28/10 21:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		03/28/10 21:29	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/28/10 21:29	2037-26-5	

Sample: GPW-10 **Lab ID: 9266199002** Collected: 03/26/10 11:30 Received: 03/27/10 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		03/28/10 20:16	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		03/28/10 20:16	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		03/28/10 20:16	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		03/28/10 20:16	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		03/28/10 20:16	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		03/28/10 20:16	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		03/28/10 20:16	95-47-6	
4-Bromofluorobenzene (S)	102	%	70-130		1		03/28/10 20:16	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		03/28/10 20:16	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		03/28/10 20:16	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/28/10 20:16	2037-26-5	

Sample: GPW-11 **Lab ID: 9266199003** Collected: 03/26/10 11:10 Received: 03/27/10 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		03/28/10 20:34	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		03/28/10 20:34	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		03/28/10 20:34	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		03/28/10 20:34	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		03/28/10 20:34	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		03/28/10 20:34	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		03/28/10 20:34	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130		1		03/28/10 20:34	460-00-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 10-2730
Pace Project No.: 9266199

Sample: GPW-11 **Lab ID: 9266199003** Collected: 03/26/10 11:10 Received: 03/27/10 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dibromofluoromethane (S)	101	%	70-130		1		03/28/10 20:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		03/28/10 20:34	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/28/10 20:34	2037-26-5	

Sample: GPW-12 **Lab ID: 9266199004** Collected: 03/26/10 11:03 Received: 03/27/10 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		03/28/10 19:58	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		03/28/10 19:58	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		03/28/10 19:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		03/28/10 19:58	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		03/28/10 19:58	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		03/28/10 19:58	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		03/28/10 19:58	95-47-6	
4-Bromofluorobenzene (S)	103	%	70-130		1		03/28/10 19:58	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		03/28/10 19:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		03/28/10 19:58	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		03/28/10 19:58	2037-26-5	

Sample: GPW-13 **Lab ID: 9266199005** Collected: 03/26/10 10:50 Received: 03/27/10 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		03/28/10 21:47	71-43-2	HS
Ethylbenzene	ND	ug/L	5.0	1.1	1		03/28/10 21:47	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		03/28/10 21:47	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		03/28/10 21:47	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		03/28/10 21:47	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		03/28/10 21:47	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		03/28/10 21:47	95-47-6	
4-Bromofluorobenzene (S)	102	%	70-130		1		03/28/10 21:47	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		03/28/10 21:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		03/28/10 21:47	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/28/10 21:47	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 10-2730
Pace Project No.: 9266199

Sample: GPW-14 **Lab ID: 9266199006** Collected: 03/26/10 11:40 Received: 03/27/10 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**1920**	ug/L	5.0	1.2	1		03/28/10 20:53	71-43-2	E
Ethylbenzene	**678**	ug/L	5.0	1.1	1		03/28/10 20:53	100-41-4	E
Methyl-tert-butyl ether	**11500**	ug/L	5.0	2.0	1		03/28/10 20:53	1634-04-4	E
Naphthalene	**84.0**	ug/L	5.0	2.9	1		03/28/10 20:53	91-20-3	
Toluene	**4290**	ug/L	5.0	1.8	1		03/28/10 20:53	108-88-3	E
m&p-Xylene	**2000**	ug/L	10.0	2.7	1		03/28/10 20:53	1330-20-7	E
o-Xylene	**1680**	ug/L	5.0	1.7	1		03/28/10 20:53	95-47-6	E
4-Bromofluorobenzene (S)	105	%	70-130		1		03/28/10 20:53	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		03/28/10 20:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		03/28/10 20:53	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		03/28/10 20:53	2037-26-5	

Sample: GPW-17 **Lab ID: 9266199007** Collected: 03/26/10 12:04 Received: 03/27/10 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**1.9J**	ug/L	5.0	1.2	1		03/28/10 21:11	71-43-2	
Ethylbenzene	**1.9J**	ug/L	5.0	1.1	1		03/28/10 21:11	100-41-4	
Methyl-tert-butyl ether	**20.7**	ug/L	5.0	2.0	1		03/28/10 21:11	1634-04-4	C8
Naphthalene	**5.4**	ug/L	5.0	2.9	1		03/28/10 21:11	91-20-3	C8
Toluene	**11.9**	ug/L	5.0	1.8	1		03/28/10 21:11	108-88-3	
m&p-Xylene	**7.0J**	ug/L	10.0	2.7	1		03/28/10 21:11	1330-20-7	
o-Xylene	**5.5**	ug/L	5.0	1.7	1		03/28/10 21:11	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130		1		03/28/10 21:11	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		03/28/10 21:11	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		03/28/10 21:11	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/28/10 21:11	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 10-2730
Pace Project No.: 9266199

QC Batch: MSV/10430 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 9266199001, 9266199002, 9266199003

METHOD BLANK: 421316 Matrix: Water
Associated Lab Samples: 9266199001, 9266199002, 9266199003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	5.0	03/28/10 11:32	
Ethylbenzene	ug/L	ND	5.0	03/28/10 11:32	
m&p-Xylene	ug/L	ND	10.0	03/28/10 11:32	
Methyl-tert-butyl ether	ug/L	ND	5.0	03/28/10 11:32	
Naphthalene	ug/L	ND	5.0	03/28/10 11:32	
o-Xylene	ug/L	ND	5.0	03/28/10 11:32	
Toluene	ug/L	ND	5.0	03/28/10 11:32	
1,2-Dichloroethane-d4 (S)	%	106	70-130	03/28/10 11:32	
4-Bromofluorobenzene (S)	%	99	70-130	03/28/10 11:32	
Dibromofluoromethane (S)	%	102	70-130	03/28/10 11:32	
Toluene-d8 (S)	%	100	70-130	03/28/10 11:32	

LABORATORY CONTROL SAMPLE: 421317

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	49.6	99	70-130	
Ethylbenzene	ug/L	50	49.6	99	70-130	
m&p-Xylene	ug/L	100	98.2	98	70-130	
Methyl-tert-butyl ether	ug/L	50	50.6	101	70-130	
Naphthalene	ug/L	50	48.9	98	70-130	
o-Xylene	ug/L	50	52.9	106	70-130	
Toluene	ug/L	50	49.8	100	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			99	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 10-2730
Pace Project No.: 9266199

QC Batch: MSV/10431 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 9266199004, 9266199005, 9266199006, 9266199007

METHOD BLANK: 421318 Matrix: Water
Associated Lab Samples: 9266199004, 9266199005, 9266199006, 9266199007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	5.0	03/28/10 11:50	
Ethylbenzene	ug/L	ND	5.0	03/28/10 11:50	
m&p-Xylene	ug/L	ND	10.0	03/28/10 11:50	
Methyl-tert-butyl ether	ug/L	ND	5.0	03/28/10 11:50	
Naphthalene	ug/L	ND	5.0	03/28/10 11:50	
o-Xylene	ug/L	ND	5.0	03/28/10 11:50	
Toluene	ug/L	ND	5.0	03/28/10 11:50	
1,2-Dichloroethane-d4 (S)	%	104	70-130	03/28/10 11:50	
4-Bromofluorobenzene (S)	%	100	70-130	03/28/10 11:50	
Dibromofluoromethane (S)	%	98	70-130	03/28/10 11:50	
Toluene-d8 (S)	%	100	70-130	03/28/10 11:50	

LABORATORY CONTROL SAMPLE: 421319

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	47.3	95	70-130	
Ethylbenzene	ug/L	50	47.0	94	70-130	
m&p-Xylene	ug/L	100	93.8	94	70-130	
Methyl-tert-butyl ether	ug/L	50	49.3	99	70-130	
Naphthalene	ug/L	50	47.3	95	70-130	
o-Xylene	ug/L	50	50.2	100	70-130	
Toluene	ug/L	50	48.0	96	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: McGill Grocery 10-2730
Pace Project No.: 9266199

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

C8	Result may be biased high due to carryover from previously analyzed sample.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1353098

Section A Required Client Information:

Company: MECI
Address: 235-B Dooley Road
Lexington, SC 29073
Email To: wcm@meci.net
Phone: 803-808-2043 Fax: 803-808-2048
Requested Due Date/TAT:

Section B Required Project Information:

Report To: B. Shane
Copy To:
Purchase Order No.:
Project Name: McGill Grocery
Project Number: 10-2730

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: R. Spencer
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: TEX, Naph, MTBE 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GPW - 3	WT	G			3/26	11:25		2				2					X			thick + silty 001
2	GPW - 10						11:30		3				3								002
3	GPW - 11						11:10		1				1								003
4	GPW - 12						11:03		3				3								004
5	GPW - 13						10:50		2				2								thick & silty 005
6	GPW - 14						11:40		3				3								006
7	GPW - 17	WT	G			3/26	12:04		1				1					X			007
8																					
9																					
10																					
11																					
12																					

92661 99

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Report J values				TPACE	3/27/10	0900	2.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Kyle Pudney
SIGNATURE of SAMPLER: Kyle V. Pudney
DATE Signed (MM/DD/YY): 3/26/2010

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

April 23, 2010

Mr. Chad McClary
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: MCGILL GROCERY 10-2730
Pace Project No.: 9267868

Dear Mr. McClary:
Enclosed are the analytical results for sample(s) received by the laboratory on April 21, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

Samples are non-method compliant. Results cannot be used for compliance monitoring.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Renee Spencer

Renee Spencer

renee.spencer@pacelabs.com
Project Manager

Enclosures

cc: Mr. Bryan Shane, Midlands Environmental

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: MCGILL GROCERY 10-2730
Pace Project No.: 9267868

Charlotte Certification IDs
9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
Connecticut Certification #: PH-0104
Virginia Certification #: 00213
Tennessee Certification #: 04010
South Carolina Drinking Water Cert. #: 990060003
South Carolina Certification #: 990060001
Pennsylvania Certification #: 68-00784
North Carolina Wastewater Certification #: 12
North Carolina Field Services Certification #: 5342
North Carolina Drinking Water Certification #: 37706
New Jersey Certification #: NC012
Louisiana/LELAP Certification #: 04034
Kentucky UST Certification #: 84
Florida/NELAP Certification #: E87627
West Virginia Certification #: 357

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: MCGILL GROCERY 10-2730
Pace Project No.: 9267868

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9267868001	**GPW-19**	EPA 8260	KJM	11	PASI-C
9267868002	**GPW-20**	EPA 8260	KJM	11	PASI-C
9267868003	**GPW-21**	EPA 8260	KJM	11	PASI-C
9267868004	**GPW-22**	EPA 8260	KJM	11	PASI-C
9267868005	**GPW-23**	EPA 8260	KJM	11	PASI-C
9267868006	**GPW-27**	EPA 8260	KJM	11	PASI-C
9267868007	**GPW-31**	EPA 8260	KJM	11	PASI-C
9267868008	**GPW-32**	EPA 8260	KJM	11	PASI-C
9267868009	**GPW-33**	EPA 8260	KJM	11	PASI-C
9267868010	**GPW-34**	EPA 8260	KJM	11	PASI-C
9267868011	**GPW-35**	EPA 8260	KJM	11	PASI-C
9267868012	**GPW-36**	EPA 8260	KJM	11	PASI-C
9267868013	**GPW-37**	EPA 8260	KJM	11	PASI-C
9267868014	**GPW-39**	EPA 8260	KJM	11	PASI-C
9267868015	**GPW-40**	EPA 8260	KJM	11	PASI-C

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCGILL GROCERY 10-2730
Pace Project No.: 9267868

Sample: GPW-19 **Lab ID: 9267868001** Collected: 04/20/10 11:00

Parameters	Results	Units	Report Limit	DF
Benzene	ND	ug/L	5.0	1
Ethylbenzene	ND	ug/L	5.0	1
Methyl-tert-butyl ether	ND	ug/L	5.0	1
Naphthalene	ND	ug/L	5.0	1
Toluene	ND	ug/L	5.0	1
m&p-Xylene	ND	ug/L	10.0	1
o-Xylene	ND	ug/L	5.0	1

Sample: GPW-20 **Lab ID: 9267868002** Collected: 04/20/10 11:10

Parameters	Results	Units	Report Limit	DF
Benzene	ND	ug/L	5.0	1
Ethylbenzene	ND	ug/L	5.0	1
Methyl-tert-butyl ether	**934**	ug/L	5.0	1
Naphthalene	ND	ug/L	5.0	1
Toluene	ND	ug/L	5.0	1
m&p-Xylene	ND	ug/L	10.0	1
o-Xylene	ND	ug/L	5.0	1

Sample: GPW-21 **Lab ID: 9267868003** Collected: 04/20/10 11:25

Parameters	Results	Units	Report Limit	DF
Benzene	ND	ug/L	25.0	5
Ethylbenzene	ND	ug/L	25.0	5
Methyl-tert-butyl ether	**697**	ug/L	25.0	5
Naphthalene	ND	ug/L	25.0	5
Toluene	ND	ug/L	25.0	5
m&p-Xylene	ND	ug/L	50.0	5
o-Xylene	ND	ug/L	25.0	5

Sample: GPW-22 **Lab ID: 9267868004** Collected: 04/20/10 11:30

Parameters	Results	Units	Report Limit	DF
Benzene	ND	ug/L	5.0	1
Ethylbenzene	ND	ug/L	5.0	1
Methyl-tert-butyl ether	ND	ug/L	5.0	1
Naphthalene	ND	ug/L	5.0	1
Toluene	ND	ug/L	5.0	1
m&p-Xylene	ND	ug/L	10.0	1
o-Xylene	ND	ug/L	5.0	1

Sample: GPW-23 **Lab ID: 9267868005** Collected: 04/20/10 12:00

Parameters	Results	Units	Report Limit	DF
Benzene	ND	ug/L	5.0	1
Ethylbenzene	ND	ug/L	5.0	1

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCGILL GROCERY 10-2730
Pace Project No.: 9267868

Sample: GPW-23 **Lab ID: 9267868005** Collected: 04/20/10 12:00

Parameters	Results	Units	Report Limit	DF
Methyl-tert-butyl ether	ND	ug/L	5.0	1
Naphthalene	ND	ug/L	5.0	1
Toluene	ND	ug/L	5.0	1
m&p-Xylene	ND	ug/L	10.0	1
o-Xylene	ND	ug/L	5.0	1

Sample: GPW-27 **Lab ID: 9267868006** Collected: 04/20/10 12:10

Parameters	Results	Units	Report Limit	DF
Benzene	**2280**	ug/L	5.0	1
Ethylbenzene	**754**	ug/L	5.0	1
Methyl-tert-butyl ether	**9560**	ug/L	5.0	1
Naphthalene	**104**	ug/L	5.0	1
Toluene	**3500**	ug/L	5.0	1
m&p-Xylene	**1410**	ug/L	10.0	1
o-Xylene	**1140**	ug/L	5.0	1

Sample: GPW-31 **Lab ID: 9267868007** Collected: 04/20/10 12:15

Parameters	Results	Units	Report Limit	DF
Benzene	**149**	ug/L	5.0	1
Ethylbenzene	**15.3**	ug/L	5.0	1
Methyl-tert-butyl ether	**497**	ug/L	5.0	1
Naphthalene	ND	ug/L	5.0	1
Toluene	**166**	ug/L	5.0	1
m&p-Xylene	**67.7**	ug/L	10.0	1
o-Xylene	**41.7**	ug/L	5.0	1

Sample: GPW-32 **Lab ID: 9267868008** Collected: 04/20/10 12:30

Parameters	Results	Units	Report Limit	DF
Benzene	ND	ug/L	5.0	1
Ethylbenzene	ND	ug/L	5.0	1
Methyl-tert-butyl ether	**6.0**	ug/L	5.0	1
Naphthalene	ND	ug/L	5.0	1
Toluene	ND	ug/L	5.0	1
m&p-Xylene	ND	ug/L	10.0	1
o-Xylene	ND	ug/L	5.0	1

Sample: GPW-33 **Lab ID: 9267868009** Collected: 04/20/10 12:40

Parameters	Results	Units	Report Limit	DF
Benzene	ND	ug/L	5.0	1
Ethylbenzene	ND	ug/L	5.0	1
Methyl-tert-butyl ether	ND	ug/L	5.0	1
Naphthalene	ND	ug/L	5.0	1

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCGILL GROCERY 10-2730
Pace Project No.: 9267868

Sample: GPW-33 **Lab ID: 9267868009** Collected: 04/20/10 12:40

Parameters	Results	Units	Report Limit	DF
Toluene	ND	ug/L	5.0	1
m&p-Xylene	ND	ug/L	10.0	1
o-Xylene	ND	ug/L	5.0	1

Sample: GPW-34 **Lab ID: 9267868010** Collected: 04/20/10 13:00

Parameters	Results	Units	Report Limit	DF
Benzene	**198**	ug/L	50.0	10
Ethylbenzene	**62.6**	ug/L	50.0	10
Methyl-tert-butyl ether	**3590**	ug/L	50.0	10
Naphthalene	ND	ug/L	50.0	10
Toluene	**1060**	ug/L	50.0	10
m&p-Xylene	**245**	ug/L	100	10
o-Xylene	**144**	ug/L	50.0	10

Sample: GPW-35 **Lab ID: 9267868011** Collected: 04/20/10 13:20

Parameters	Results	Units	Report Limit	DF
Benzene	ND	ug/L	5.0	1
Ethylbenzene	ND	ug/L	5.0	1
Methyl-tert-butyl ether	ND	ug/L	5.0	1
Naphthalene	ND	ug/L	5.0	1
Toluene	ND	ug/L	5.0	1
m&p-Xylene	ND	ug/L	10.0	1
o-Xylene	ND	ug/L	5.0	1

Sample: GPW-36 **Lab ID: 9267868012** Collected: 04/20/10 13:40

Parameters	Results	Units	Report Limit	DF
Benzene	ND	ug/L	10.0	2
Ethylbenzene	ND	ug/L	10.0	2
Methyl-tert-butyl ether	ND	ug/L	10.0	2
Naphthalene	ND	ug/L	10.0	2
Toluene	ND	ug/L	10.0	2
m&p-Xylene	ND	ug/L	20.0	2
o-Xylene	ND	ug/L	10.0	2

Sample: GPW-37 **Lab ID: 9267868013** Collected: 04/20/10 14:15

Parameters	Results	Units	Report Limit	DF
Benzene	ND	ug/L	50.0	10
Ethylbenzene	ND	ug/L	50.0	10
Methyl-tert-butyl ether	ND	ug/L	50.0	10
Naphthalene	ND	ug/L	50.0	10
Toluene	ND	ug/L	50.0	10
m&p-Xylene	ND	ug/L	100	10

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCGILL GROCERY 10-2730
Pace Project No.: 9267868

Sample: GPW-37 **Lab ID: 9267868013** Collected: 04/20/10 14:15

Parameters	Results	Units	Report Limit	DF
o-Xylene	ND	ug/L	50.0	10

Sample: GPW-39 **Lab ID: 9267868014** Collected: 04/20/10 14:25

Parameters	Results	Units	Report Limit	DF
Benzene	ND	ug/L	25.0	5
Ethylbenzene	ND	ug/L	25.0	5
Methyl-tert-butyl ether	ND	ug/L	25.0	5
Naphthalene	ND	ug/L	25.0	5
Toluene	ND	ug/L	25.0	5
m&p-Xylene	ND	ug/L	50.0	5
o-Xylene	ND	ug/L	25.0	5

Sample: GPW-40 **Lab ID: 9267868015** Collected: 04/20/10 14:30

Parameters	Results	Units	Report Limit	DF
Benzene	ND	ug/L	5.0	1
Ethylbenzene	ND	ug/L	5.0	1
Methyl-tert-butyl ether	ND	ug/L	5.0	1
Naphthalene	ND	ug/L	5.0	1
Toluene	ND	ug/L	5.0	1
m&p-Xylene	ND	ug/L	10.0	1
o-Xylene	ND	ug/L	5.0	1

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

1357453

Section A Required Client Information:

Company: MECI
Address: 235-B Dooley Road
Lexington, SC 29073
Email To: wcm@mci.net
Phone: 803-808-2043 Fax: 803-808-2048
Requested Due Date/TAT:

Section B Required Project Information:

Report To: B. Shane
Copy To:
Purchase Order No.:
Project Name: McGill Grocery
Project Number: 10-2730

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: R. Spencer
Pace Profile #: 1376-1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N): BTEX, Naph, MTBE, 8260B	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GPW-19	WT	G			4/20	11:00		3				3					Y	X		92607868001
2	GPW-20						11:10		3				3								002
3	GPW-21						11:25		1				1							1 VOA only	003
4	GPW-22						11:30		3				3								004
5	GPW-23						12:00		2				2							2 VOA only	005
6	GPW-27						12:10		3				3								006
7	GPW-31						12:15		3				3								007
8	GPW-32						12:30		3				3								008
9	GPW 33						12:40		3				3								009
10	GPW 34						1:00		1				1							1 VOA only, thick	010
11	GPW 35						1:20		2				2							2 VOA only	011
12	GPW 36	WT	G			4/20	1:40		1				1						X	1 VOA only	012

ADDITIONAL COMMENTS

Report J values
Field Screening
2-Day Turn Around

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	4/21/10	11:04	JZ Moody Pace	4/21/10	11:04
JZ Moody	4-22-10	16:50	[signature] PACE	4/21/10	1650

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
3.0	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kyle Pudney
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY):

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

1357486

Section A Required Client Information:

Company: MECI
Address: 235-B Dooley Road
Lexington, SC 29073
Email To: wcm@meci.net
Phone: 803-808-2043 Fax: 803-808-2048
Requested Due Date/TAT:

Section B Required Project Information:

Report To: B. Shue
Copy To:
Purchase Order No.:
Project Name: McGill Grocery
Project Number: 10-2730

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: R. Spencer
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D Required Client Information

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: BTEX, MyK, MTBE 8260B	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9267868
1	GPW-37	WT	G			4/20	2:15		1				X					X	X		1 VOA only, thick 013
2	GPW-39	WT	G			4/20	2:25		1				X					X	X		1 VOA only, thick 014
3	GPW-40	WT	G			4/20	2:30		2				X					X	X		2 VOA only, thick 015
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Report J Values		4/21/10	11:04	B Moody-Pace	4/21/10	11:04				
Field Screening	B Moody	4-21-10	16:50	PACE	4/21/10	1650	3.0	Y	N	Y
2-Day Turn Around										

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kyle Pudney
SIGNATURE of SAMPLER: Kyle V. Pudney
DATE Signed (MM/DD/YY): 4/20/2010

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

May 05, 2010

Mr. Chad McClary
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: MCGILL GROCERY 10-2730
Pace Project No.: 9268454

Dear Mr. McClary:
Enclosed are the analytical results for sample(s) received by the laboratory on May 01, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

Samples are non-method compliant. Results cannot be used for compliance monitoring.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Erin L Waters

Erin Waters for
Renee Spencer
renee.spencer@pacelabs.com
Project Manager

Enclosures

cc: Mr. Bryan Shane, Midlands Environmental

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: MCGILL GROCERY 10-2730
Pace Project No.: 9268454

Charlotte Certification IDs
Kentucky UST Certification #: 84
Louisiana/LELAP Certification #: 04034
Connecticut Certification #: PH-0104
9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
West Virginia Certification #: 357
Virginia Certification #: 00213
Tennessee Certification #: 04010
South Carolina Drinking Water Cert. #: 99006003
South Carolina Certification #: 99006001
Pennsylvania Certification #: 68-00784
North Carolina Wastewater Certification #: 12
North Carolina Field Services Certification #: 5342
North Carolina Drinking Water Certification #: 37706
New Jersey Certification #: NC012
Florida/NELAP Certification #: E87627

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: MCGILL GROCERY 10-2730
Pace Project No.: 9268454

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9268454001	**GPW-41**	EPA 8260	MCK	11	PASI-C
9268454002	**GPW-42**	EPA 8260	MCK	11	PASI-C
9268454003	**GPW-43**	EPA 8260	MCK	11	PASI-C
9268454004	**GPW-44**	EPA 8260	MCK	11	PASI-C
9268454005	**GPW-46**	EPA 8260	MCK	11	PASI-C
9268454006	**GPW-47**	EPA 8260	MCK	11	PASI-C
9268454007	**GPW-48**	EPA 8260	MCK	11	PASI-C
9268454008	**GPW-49**	EPA 8260	MCK	11	PASI-C
9268454009	**GPW-50**	EPA 8260	MCK	11	PASI-C

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCGILL GROCERY 10-2730
Pace Project No.: 9268454

Sample: GPW-41 **Lab ID: 9268454001** Collected: 04/30/10 09:30

Parameters	Results	Units	Report Limit	DF
Benzene	ND	ug/L	5.0	1
Ethylbenzene	ND	ug/L	5.0	1
Methyl-tert-butyl ether	ND	ug/L	5.0	1
Naphthalene	ND	ug/L	5.0	1
Toluene	ND	ug/L	5.0	1
m&p-Xylene	ND	ug/L	10.0	1
o-Xylene	ND	ug/L	5.0	1

Sample: GPW-42 **Lab ID: 9268454002** Collected: 04/30/10 09:45

Parameters	Results	Units	Report Limit	DF
Benzene	ND	ug/L	20.0	4
Ethylbenzene	ND	ug/L	20.0	4
Methyl-tert-butyl ether	ND	ug/L	20.0	4
Naphthalene	ND	ug/L	20.0	4
Toluene	ND	ug/L	20.0	4
m&p-Xylene	ND	ug/L	40.0	4
o-Xylene	ND	ug/L	20.0	4

Sample: GPW-43 **Lab ID: 9268454003** Collected: 04/30/10 10:15

Parameters	Results	Units	Report Limit	DF
Benzene	ND	ug/L	5.0	1
Ethylbenzene	ND	ug/L	5.0	1
Methyl-tert-butyl ether	ND	ug/L	5.0	1
Naphthalene	ND	ug/L	5.0	1
Toluene	ND	ug/L	5.0	1
m&p-Xylene	ND	ug/L	10.0	1
o-Xylene	ND	ug/L	5.0	1

Sample: GPW-44 **Lab ID: 9268454004** Collected: 04/30/10 10:30

Parameters	Results	Units	Report Limit	DF
Benzene	ND	ug/L	25.0	5
Ethylbenzene	ND	ug/L	25.0	5
Methyl-tert-butyl ether	ND	ug/L	25.0	5
Naphthalene	ND	ug/L	25.0	5
Toluene	ND	ug/L	25.0	5
m&p-Xylene	ND	ug/L	50.0	5
o-Xylene	ND	ug/L	25.0	5

Sample: GPW-46 **Lab ID: 9268454005** Collected: 04/30/10 10:40

Parameters	Results	Units	Report Limit	DF
Benzene	ND	ug/L	10.0	2
Ethylbenzene	ND	ug/L	10.0	2

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCGILL GROCERY 10-2730
Pace Project No.: 9268454

Sample: GPW-46 **Lab ID: 9268454005** Collected: 04/30/10 10:40

Parameters	Results	Units	Report Limit	DF
Methyl-tert-butyl ether	ND	ug/L	10.0	2
Naphthalene	ND	ug/L	10.0	2
Toluene	ND	ug/L	10.0	2
m&p-Xylene	ND	ug/L	20.0	2
o-Xylene	ND	ug/L	10.0	2

Sample: GPW-47 **Lab ID: 9268454006** Collected: 04/30/10 10:55

Parameters	Results	Units	Report Limit	DF
Benzene	ND	ug/L	5.0	1
Ethylbenzene	ND	ug/L	5.0	1
Methyl-tert-butyl ether	ND	ug/L	5.0	1
Naphthalene	ND	ug/L	5.0	1
Toluene	ND	ug/L	5.0	1
m&p-Xylene	ND	ug/L	10.0	1
o-Xylene	ND	ug/L	5.0	1

Sample: GPW-48 **Lab ID: 9268454007** Collected: 04/30/10 11:15

Parameters	Results	Units	Report Limit	DF
Benzene	ND	ug/L	5.0	1
Ethylbenzene	ND	ug/L	5.0	1
Methyl-tert-butyl ether	ND	ug/L	5.0	1
Naphthalene	ND	ug/L	5.0	1
Toluene	ND	ug/L	5.0	1
m&p-Xylene	ND	ug/L	10.0	1
o-Xylene	ND	ug/L	5.0	1

Sample: GPW-49 **Lab ID: 9268454008** Collected: 04/30/10 11:30

Parameters	Results	Units	Report Limit	DF
Benzene	ND	ug/L	50.0	10
Ethylbenzene	ND	ug/L	50.0	10
Methyl-tert-butyl ether	ND	ug/L	50.0	10
Naphthalene	ND	ug/L	50.0	10
Toluene	ND	ug/L	50.0	10
m&p-Xylene	ND	ug/L	100	10
o-Xylene	ND	ug/L	50.0	10

Sample: GPW-50 **Lab ID: 9268454009** Collected: 04/30/10 12:00

Parameters	Results	Units	Report Limit	DF
Benzene	ND	ug/L	5.0	1
Ethylbenzene	ND	ug/L	5.0	1
Methyl-tert-butyl ether	ND	ug/L	5.0	1
Naphthalene	ND	ug/L	5.0	1

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCGILL GROCERY 10-2730
Pace Project No.: 9268454

Sample: GPW-50 **Lab ID: 9268454009** Collected: 04/30/10 12:00

Parameters	Results	Units	Report Limit	DF
Toluene	ND	ug/L	5.0	1
m&p-Xylene	ND	ug/L	10.0	1
o-Xylene	ND	ug/L	5.0	1

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1357498

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: MECI	Report To: B. Shane	Attention:
Address: 235-B Dooley Rd Lexington, SC 29073	Copy To:	Company Name:
		Address:
Email To: wcm@meci.net	Purchase Order No.:	Pace Quote Reference:
Phone: 803-808-2043 Fax: 803-808-2048	Project Name: McGill Grocery	Pace Project Manager: R. Spencer
Requested Due Date/TAT:	Project Number: 10-2730	Pace Profile #: 3756-1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	BTEX, Naph, MTBE 8260B	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9268454
1	GPW-41	WT	G			4/30	9:30		2				2						X	001	2 VOA ONLY
2	GPW-42						9:45		1				1							002	1 VOA ONLY very Thick
3	GPW-43						10:15		2				2							003	2 VOA ONLY Thick
4	GPW-44						10:30		1				1							004	1 VOA ONLY, very thick
5	GPW-46						10:40		2				2							005	2 VOA, Thick
6	GPW-47						10:55		3				3							006	
7	GPW-48						11:15		3				3							007	
8	GPW-49						11:30		1				1							008	1 VOA, very thick
9	GPW-50	WT	G			4/30	12:00		3				3						X	009	
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Report J values	[signature]	4/30/2010	4:30	Brian Heath - PACE	~~2.5~~ BH					
Field Screening					5-1-10	9:00	2.5	Y	n	Y
2 Day turnaround										

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kyle Pudney

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 4/30/2010

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 07, 2010

Mr. Bryan Shane
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: MCGILL GROCERY 10-2730
Pace Project No.: 9270867

Dear Mr. Shane:
Enclosed are the analytical results for sample(s) received by the laboratory on June 04, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

Samples are non-method compliant. Results cannot be used for compliance monitoring.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Renee Spencer

Renee Spencer

renee.spencer@pacelabs.com
Project Manager

Enclosures

cc: Mr. Jeff Coleman, Midlands Environmental

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: MCGILL GROCERY 10-2730
Pace Project No.: 9270867

Charlotte Certification IDs
Connecticut Certification #: PH-0104
9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
Kentucky UST Certification #: 84
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Tennessee Certification #: 04010
Virginia Certification #: 00213
West Virginia Certification #: 357
Florida/NELAP Certification #: E87627

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: MCGILL GROCERY 10-2730
Pace Project No.: 9270867

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9270867001	**GPW-WSW**	EPA 8260	KJM	11	PASI-C

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCGILL GROCERY 10-2730
Pace Project No.: 9270867

Sample: GPW-WSW **Lab ID: 9270867001** Collected: 06/02/10 10:10

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	ND	ug/L	5.0	1	
Ethylbenzene	ND	ug/L	5.0	1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1	
Naphthalene	ND	ug/L	5.0	1	
Toluene	ND	ug/L	5.0	1	
m&p-Xylene	ND	ug/L	10.0	1	
o-Xylene	ND	ug/L	5.0	1	

QUALIFIERS

Project: MCGILL GROCERY 10-2730
Pace Project No.: 9270867

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

SAMPLE QUALIFIERS

Sample: 9270867001

[1] Samples are non-method compliant. Results cannot be used for compliance monitoring.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1357990

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: MECI	Report To: B. Shane	Attention:
Address: 235-B Pooley Road Lexington SC 29073	Copy To:	Company Name:
		Address:
Email To: JLC@mecionet	Purchase Order No.:	Pace Quote Reference:
Phone: 803-808-2043 Fax: 803-808-2048	Project Name: McGill Grocery	Pace Project Manager: R Spencer
Requested Due Date/TAT:	Project Number: 10-2730	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	MTBE, Naph, MTBE (8260B)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GPW - WSW	WT	G			6/2	10:10		3				3						X		9270867 001
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Report J values	Lacey Price	6-4-10	10:49a	[signature] Pace	6-4-10	1049				
Field Screening	[signature] Pace	6-4-10	1430	Justin Motley pace CH	6-4-10	1430	2.7	Y	n	Y
Please dispose of EDB samples for GPW-WSW										

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kyle Pudney

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 6/2/2010

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 08, 2010

Mr. Bryan Shane
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: MCGILLS GROC 10-2730
Pace Project No.: 9270901

Dear Mr. Shane:
Enclosed are the analytical results for sample(s) received by the laboratory on June 05, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

Samples are non-method compliant. Results cannot be used for compliance monitoring.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Renee Spencer

Renee Spencer

renee.spencer@pacelabs.com
Project Manager

Enclosures

cc: Mr. Jeff Coleman, Midlands Environmental

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: MCGILLS GROC 10-2730
Pace Project No.: 9270901

Charlotte Certification IDs
9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
Connecticut Certification #: PH-0104
Virginia Certification #: 00213
Tennessee Certification #: 04010
South Carolina Drinking Water Cert. #: 99006003
South Carolina Certification #: 99006001
Pennsylvania Certification #: 68-00784
North Carolina Wastewater Certification #: 12
North Carolina Field Services Certification #: 5342
North Carolina Drinking Water Certification #: 37706
New Jersey Certification #: NC012
Louisiana/LELAP Certification #: 04034
Kentucky UST Certification #: 84
Florida/NELAP Certification #: E87627
West Virginia Certification #: 357

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: MCGILLS GROC 10-2730
Pace Project No.: 9270901

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9270901001	**GPW-51**	EPA 8260	KJM	11	PASI-C
9270901002	**GPW-52**	EPA 8260	KJM	11	PASI-C
9270901003	**GPW-53**	EPA 8260	KJM	11	PASI-C
9270901004	**GPW-54**	EPA 8260	KJM	11	PASI-C
9270901005	**GPW-55**	EPA 8260	KJM	11	PASI-C
9270901006	**GPW-56**	EPA 8260	KJM	11	PASI-C
9270901007	**GPW-57**	EPA 8260	KJM	11	PASI-C

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCGILLS GROC 10-2730
Pace Project No.: 9270901

Sample: GPW-51 **Lab ID: 9270901001** Collected: 06/03/10 12:13

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	ND	ug/L	5.0	1	
Ethylbenzene	ND	ug/L	5.0	1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1	
Naphthalene	ND	ug/L	5.0	1	
Toluene	ND	ug/L	5.0	1	
m&p-Xylene	ND	ug/L	10.0	1	
o-Xylene	ND	ug/L	5.0	1	

Sample: GPW-52 **Lab ID: 9270901002** Collected: 06/03/10 12:06

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	ND	ug/L	5.0	1	
Ethylbenzene	ND	ug/L	5.0	1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1	
Naphthalene	ND	ug/L	5.0	1	
Toluene	ND	ug/L	5.0	1	
m&p-Xylene	ND	ug/L	10.0	1	
o-Xylene	ND	ug/L	5.0	1	

Sample: GPW-53 **Lab ID: 9270901003** Collected: 06/03/10 12:00

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	ND	ug/L	5.0	1	
Ethylbenzene	ND	ug/L	5.0	1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1	
Naphthalene	ND	ug/L	5.0	1	
Toluene	ND	ug/L	5.0	1	
m&p-Xylene	ND	ug/L	10.0	1	
o-Xylene	ND	ug/L	5.0	1	

Sample: GPW-54 **Lab ID: 9270901004** Collected: 06/03/10 11:53

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	ND	ug/L	5.0	1	
Ethylbenzene	ND	ug/L	5.0	1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1	
Naphthalene	ND	ug/L	5.0	1	
Toluene	ND	ug/L	5.0	1	
m&p-Xylene	ND	ug/L	10.0	1	
o-Xylene	ND	ug/L	5.0	1	

Sample: GPW-55 **Lab ID: 9270901005** Collected: 06/03/10 11:47

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	ND	ug/L	5.0	1	
Ethylbenzene	ND	ug/L	5.0	1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCGILLS GROC 10-2730
Pace Project No.: 9270901

Sample: GPW-55 **Lab ID: 9270901005** Collected: 06/03/10 11:47

Parameters	Results	Units	Report Limit	DF	Qualifiers
Methyl-tert-butyl ether	ND	ug/L	5.0	1	
Naphthalene	ND	ug/L	5.0	1	
Toluene	ND	ug/L	5.0	1	
m&p-Xylene	ND	ug/L	10.0	1	
o-Xylene	ND	ug/L	5.0	1	

Sample: GPW-56 **Lab ID: 9270901006** Collected: 06/03/10 11:38

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	ND	ug/L	5.0	1	
Ethylbenzene	ND	ug/L	5.0	1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1	
Naphthalene	ND	ug/L	5.0	1	
Toluene	ND	ug/L	5.0	1	
m&p-Xylene	ND	ug/L	10.0	1	
o-Xylene	ND	ug/L	5.0	1	

Sample: GPW-57 **Lab ID: 9270901007** Collected: 06/03/10 11:30

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	ND	ug/L	5.0	1	
Ethylbenzene	ND	ug/L	5.0	1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1	
Naphthalene	ND	ug/L	5.0	1	
Toluene	ND	ug/L	5.0	1	
m&p-Xylene	ND	ug/L	10.0	1	
o-Xylene	ND	ug/L	5.0	1	

QUALIFIERS

Project: MCGILLS GROC 10-2730
Pace Project No.: 9270901

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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)

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: MCGILLS GROC 10-2730
Pace Project No.: 9270901

DEFINITIONS

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

SAMPLE QUALIFIERS

Sample: 9270901001

[1] Samples are non-method compliant. Results cannot be used for compliance monitoring.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1358000

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: MECI	Report To: B Shane	Attention:
Address: 235B Dooley Rd Lexington SC 29073	Copy To:	Company Name:
		Address:
Email To:	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: McGills Groc	Pace Project Manager: R Spencer
Requested Due Date/TAT: 2DAY	Project Number: 10-2730	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GPW-51	wt	G			6/3	1213		3									X		001
2	-52	↓	↓			↓	1206		↓									↓		002
3	-53	↓	↓			↓	1200		↓									↓		003
4	-54	↓	↓			↓	1153		↓									↓		004
5	-55	↓	↓			↓	1147		↓									↓		005
6	-56	↓	↓			↓	1138		↓									↓		006
7	-57	wt	G			6/3	1130		3									X		007
8																				
9																				
10																				
11																				
12																				

9210901

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Not for Compliance Report J values				[signature] / PACE	6/5	800	4.1	4	N	4

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John Womack

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/4/10

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 25, 2010

Mr. Bryan Shane
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: MCGILL GROCERY 10-2730
Pace Project No.: 9272135

Dear Mr. Shane:
Enclosed are the analytical results for sample(s) received by the laboratory on June 23, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

Samples are non-method compliant. Results cannot be used for compliance monitoring.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Renee Spencer

Renee Spencer

renee.spencer@pacelabs.com
Project Manager

Enclosures

cc: Mr. Jeff Coleman, Midlands Environmental

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: MCGILL GROCERY 10-2730
Pace Project No.: 9272135

Charlotte Certification IDs
9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Tennessee Certification #: 04010
Virginia Certification #: 00213
West Virginia Certification #: 357
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH THE nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: MCGILL GROCERY 10-2730
Pace Project No.: 9272135

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9272135001	**GPW-58**	EPA 8260	BLC	11	PASI-C
9272135002	**GPW-59**	EPA 8260	BLC	11	PASI-C
9272135003	**GPW-60**	EPA 8260	BLC	11	PASI-C
9272135004	**GPW-61**	EPA 8260	BLC	11	PASI-C
9272135005	**GPW-62**	EPA 8260	BLC	11	PASI-C
9272135006	**GPW-63**	EPA 8260	BLC	11	PASI-C
9272135007	**GPW-64**	EPA 8260	BLC	11	PASI-C
9272135008	**GPW-65**	EPA 8260	BLC	11	PASI-C
9272135009	**GPW-66**	EPA 8260	BLC	11	PASI-C
9272135010	**GPW-67**	EPA 8260	BLC	11	PASI-C

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCGILL GROCERY 10-2730
Pace Project No.: 9272135

Sample: GPW-58 **Lab ID: 9272135001** Collected: 06/22/10 11:00

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	ND	ug/L	5.0	1	
Ethylbenzene	ND	ug/L	5.0	1	
Methyl-tert-butyl ether	**7.0**	ug/L	5.0	1	
Naphthalene	ND	ug/L	5.0	1	
Toluene	ND	ug/L	5.0	1	
m&p-Xylene	ND	ug/L	10.0	1	
o-Xylene	ND	ug/L	5.0	1	

Sample: GPW-59 **Lab ID: 9272135002** Collected: 06/22/10 11:10

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	**773**	ug/L	5.0	1	E
Ethylbenzene	**154**	ug/L	5.0	1	
Methyl-tert-butyl ether	**5520**	ug/L	5.0	1	E
Naphthalene	**16.3**	ug/L	5.0	1	
Toluene	**350**	ug/L	5.0	1	E
m&p-Xylene	**643**	ug/L	10.0	1	E
o-Xylene	**284**	ug/L	5.0	1	E

Sample: GPW-60 **Lab ID: 9272135003** Collected: 06/22/10 11:20

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	**626**	ug/L	5.0	1	E
Ethylbenzene	**224**	ug/L	5.0	1	E
Methyl-tert-butyl ether	**5370**	ug/L	5.0	1	E
Naphthalene	**60.2**	ug/L	5.0	1	
Toluene	**976**	ug/L	5.0	1	E
m&p-Xylene	**789**	ug/L	10.0	1	E
o-Xylene	**731**	ug/L	5.0	1	E

Sample: GPW-61 **Lab ID: 9272135004** Collected: 06/22/10 15:00

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	ND	ug/L	5.0	1	
Ethylbenzene	ND	ug/L	5.0	1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1	
Naphthalene	**6.8**	ug/L	5.0	1	C8
Toluene	ND	ug/L	5.0	1	
m&p-Xylene	ND	ug/L	10.0	1	
o-Xylene	ND	ug/L	5.0	1	

Sample: GPW-62 **Lab ID: 9272135005** Collected: 06/22/10 11:30

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	ND	ug/L	5.0	1	
Ethylbenzene	ND	ug/L	5.0	1	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH ISO 17025 nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCGILL GROCERY 10-2730
Pace Project No.: 9272135

Sample: GPW-62 **Lab ID: 9272135005** Collected: 06/22/10 11:30

Parameters	Results	Units	Report Limit	DF	Qualifiers
Methyl-tert-butyl ether	**255**	ug/L	5.0	1	E
Naphthalene	ND	ug/L	5.0	1	
Toluene	ND	ug/L	5.0	1	
m&p-Xylene	ND	ug/L	10.0	1	
o-Xylene	ND	ug/L	5.0	1	

Sample: GPW-63 **Lab ID: 9272135006** Collected: 06/22/10 11:40

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	ND	ug/L	5.0	1	
Ethylbenzene	ND	ug/L	5.0	1	
Methyl-tert-butyl ether	**10**	ug/L	5.0	1	
Naphthalene	ND	ug/L	5.0	1	
Toluene	ND	ug/L	5.0	1	
m&p-Xylene	ND	ug/L	10.0	1	
o-Xylene	ND	ug/L	5.0	1	

Sample: GPW-64 **Lab ID: 9272135007** Collected: 06/22/10 11:50

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	ND	ug/L	5.0	1	
Ethylbenzene	ND	ug/L	5.0	1	
Methyl-tert-butyl ether	**403**	ug/L	5.0	1	E
Naphthalene	ND	ug/L	5.0	1	
Toluene	ND	ug/L	5.0	1	
m&p-Xylene	ND	ug/L	10.0	1	
o-Xylene	ND	ug/L	5.0	1	

Sample: GPW-65 **Lab ID: 9272135008** Collected: 06/22/10 12:00

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	ND	ug/L	5.0	1	
Ethylbenzene	ND	ug/L	5.0	1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1	
Naphthalene	ND	ug/L	5.0	1	
Toluene	ND	ug/L	5.0	1	
m&p-Xylene	ND	ug/L	10.0	1	
o-Xylene	ND	ug/L	5.0	1	

Sample: GPW-66 **Lab ID: 9272135009** Collected: 06/22/10 15:20

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	ND	ug/L	5.0	1	
Ethylbenzene	ND	ug/L	5.0	1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1	
Naphthalene	ND	ug/L	5.0	1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH THE NELAC STANDARDS nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCGILL GROCERY 10-2730
Pace Project No.: 9272135

Sample: GPW-66 **Lab ID: 9272135009** Collected: 06/22/10 15:20

Parameters	Results	Units	Report Limit	DF	Qualifiers
Toluene	ND	ug/L	5.0	1	
m&p-Xylene	ND	ug/L	10.0	1	
o-Xylene	ND	ug/L	5.0	1	

Sample: GPW-67 **Lab ID: 9272135010** Collected: 06/22/10 15:10

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	ND	ug/L	5.0	1	
Ethylbenzene	ND	ug/L	5.0	1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1	
Naphthalene	ND	ug/L	5.0	1	
Toluene	ND	ug/L	5.0	1	
m&p-Xylene	ND	ug/L	10.0	1	
o-Xylene	ND	ug/L	5.0	1	

QUALIFIERS

Project: MCGILL GROCERY 10-2730
Pace Project No.: 9272135

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: MCGILL GROCERY 10-2730
Pace Project No.: 9272135

SAMPLE QUALIFIERS

Sample: 9272135001

[1] Samples are non-method compliant. Results cannot be used for compliance monitoring.

ANALYTE QUALIFIERS

C8 Result may be biased high due to carryover from previously analyzed sample.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of 1379383

Section A Required Client Information:

Company: MEC
Address: 235-B Dooley Rd. Lexington, SC 29073
Email To: BPK@mecinet
Phone: 803-408-2048 Fax: 803-2048
Requested Due Date/TAT:

Section B Required Project Information:

Report To: B. Shaw
Copy To:
Purchase Order No.:
Project Name: McGill Grocery
Project Number: 10-2730

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: R. Singer
Pace Profile #: 3756-1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N): Diss. Methane, Ethane, Ethene	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GPW-58	WT	G			6/22	11:00		3				X					X	X		9272135 001
2	GPW-59						11:10														002
3	GPW-60						11:20														003
4	GPW-61						11:00														004
5	GPW-62						11:30														005
6	GPW-63						11:40														006
7	GPW-64						11:60														007
8	GPW-65						12:00														008
9	GPW-66	V	V			V	15:20		V				V						V		009
10	GPW-67	WT	G			6/22	15:10		3				X						X		010
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Report "J" Values	B Moody	6-23-10	9:43	B Moody - Pace	6/23/10	9:43				
		6-23-10	14:55		6/23/10	19:57	8.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: B Moody
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 6/23/10

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 28, 2010

Mr. Bryan Shane
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: MCGILL'S GROCERY 10-2730
Pace Project No.: 9272211

Dear Mr. Shane:
Enclosed are the analytical results for sample(s) received by the laboratory on June 24, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

Samples are non-method compliant. Results cannot be used for compliance monitoring.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Renee Spencer

Renee Spencer

renee.spencer@pacelabs.com
Project Manager

Enclosures

cc: Mr. Jeff Coleman, Midlands Environmental

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: MCGILL'S GROCERY 10-2730
Pace Project No.: 9272211

Charlotte Certification IDs
9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Tennessee Certification #: 04010
Virginia Certification #: 00213
West Virginia Certification #: 357
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: MCGILL'S GROCERY 10-2730
Pace Project No.: 9272211

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9272211001	**GPW-68**	EPA 8260	KJM	11	PASI-C
9272211002	**GPW-69**	EPA 8260	KJM	11	PASI-C
9272211003	**GPW-70**	EPA 8260	KJM	11	PASI-C
9272211004	**GPW-71**	EPA 8260	KJM	11	PASI-C
9272211005	**GPW-72**	EPA 8260	KJM	11	PASI-C
9272211006	**GPW-73**	EPA 8260	KJM	11	PASI-C

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCGILL'S GROCERY 10-2730
Pace Project No.: 9272211

Sample: GPW-68 **Lab ID: 9272211001** Collected: 06/23/10 10:00

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	ND	ug/L	5.0	1	
Ethylbenzene	ND	ug/L	5.0	1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1	
Naphthalene	ND	ug/L	5.0	1	
Toluene	ND	ug/L	5.0	1	
m&p-Xylene	ND	ug/L	10.0	1	
o-Xylene	ND	ug/L	5.0	1	

Sample: GPW-69 **Lab ID: 9272211002** Collected: 06/23/10 10:10

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	ND	ug/L	5.0	1	
Ethylbenzene	ND	ug/L	5.0	1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1	
Naphthalene	ND	ug/L	5.0	1	
Toluene	ND	ug/L	5.0	1	
m&p-Xylene	ND	ug/L	10.0	1	
o-Xylene	ND	ug/L	5.0	1	

Sample: GPW-70 **Lab ID: 9272211003** Collected: 06/23/10 10:50

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	ND	ug/L	5.0	1	
Ethylbenzene	ND	ug/L	5.0	1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1	
Naphthalene	ND	ug/L	5.0	1	
Toluene	ND	ug/L	5.0	1	
m&p-Xylene	ND	ug/L	10.0	1	
o-Xylene	ND	ug/L	5.0	1	

Sample: GPW-71 **Lab ID: 9272211004** Collected: 06/23/10 10:45

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	ND	ug/L	5.0	1	
Ethylbenzene	ND	ug/L	5.0	1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1	
Naphthalene	ND	ug/L	5.0	1	
Toluene	ND	ug/L	5.0	1	
m&p-Xylene	ND	ug/L	10.0	1	
o-Xylene	ND	ug/L	5.0	1	

Sample: GPW-72 **Lab ID: 9272211005** Collected: 06/23/10 10:35

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	ND	ug/L	5.0	1	
Ethylbenzene	ND	ug/L	5.0	1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCGILL'S GROCERY 10-2730
Pace Project No.: 9272211

Sample: GPW-72 **Lab ID: 9272211005** Collected: 06/23/10 10:35

Parameters	Results	Units	Report Limit	DF	Qualifiers
Methyl-tert-butyl ether	ND	ug/L	5.0	1	
Naphthalene	ND	ug/L	5.0	1	
Toluene	ND	ug/L	5.0	1	
m&p-Xylene	ND	ug/L	10.0	1	
o-Xylene	ND	ug/L	5.0	1	

Sample: GPW-73 **Lab ID: 9272211006** Collected: 06/23/10 10:20

Parameters	Results	Units	Report Limit	DF	Qualifiers
Benzene	ND	ug/L	5.0	1	
Ethylbenzene	ND	ug/L	5.0	1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1	
Naphthalene	ND	ug/L	5.0	1	
Toluene	ND	ug/L	5.0	1	
m&p-Xylene	ND	ug/L	10.0	1	
o-Xylene	ND	ug/L	5.0	1	

QUALIFIERS

Project: MCGILL'S GROCERY 10-2730
Pace Project No.: 9272211

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: MCGILL'S GROCERY 10-2730
Pace Project No.: 9272211

SAMPLE QUALIFIERS

Sample: 9272211001

[1] Samples are non-method compliant. Results cannot be used for compliance monitoring.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1379015

Section A Required Client Information:

Company:	MECI
Address:	235-B Dooley Road Lexington, SC 29073
Email To:	BPK@MECI.net
Phone:	803-808-2043
Fax:	808-2046
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	B. Shane
Copy To:	
Purchase Order No.:	
Project Name:	McGill's Grocery
Project Number:	10-2730

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	R. Spear
Pace Profile #:	3756-1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Btex, MTBE, Naptn 8260-B	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GPW-68	WT	G			6/23	10:00		2				X						X		001
2	GPW-69	↓	↓			↓	10:10		3				↓						↓		002
3	GPW-70	↓	↓			↓	10:50		↓				↓						↓		003
4	GPW-71	↓	↓			↓	10:45		↓				↓						↓		004
5	GPW-72	↓	↓			↓	10:35		↓				↓						↓		005
6	GPW-73	WT	G			6/23	10:20		3				X						X		006
7																					
8																					
9																					
10																					
11																					
12																					

9272211

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Report "J" Values	[signature], MECI	6/23	3:45	[signature] - Pace	6-24-10	12:00				
	[signature]	6-24-10	14:25	[signature] / Pace	6/24	1425	3.1	Y	N	Y
Screening samples										

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [signature]

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 6/23/10

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

August 05, 2010

Mr. Bryan Shane
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Dear Mr. Shane:
Enclosed are the analytical results for sample(s) received by the laboratory on July 30, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Renee Spencer

Renee Spencer

renee.spencer@pacelabs.com
Project Manager

Enclosures

cc: Mr. Jeff Coleman, Midlands Environmental

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 99030002
South Carolina Certification #: 99030001
Virginia Certification #: 00072

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9274552001	MW-1	Water	07/28/10 11:40	07/30/10 14:20
9274552002	MW-2	Water	07/28/10 11:50	07/30/10 14:20
9274552003	MW-3	Water	07/28/10 11:20	07/30/10 14:20
9274552004	MW-4	Water	07/28/10 12:00	07/30/10 14:20
9274552005	MW-5	Water	07/28/10 12:20	07/30/10 14:20
9274552006	MW-6	Water	07/28/10 11:55	07/30/10 14:20
9274552007	MW-7	Water	07/28/10 14:00	07/30/10 14:20
9274552008	MW-8	Water	07/28/10 13:50	07/30/10 14:20
9274552009	MW-9	Water	07/28/10 13:45	07/30/10 14:20
9274552010	MW-10	Water	07/28/10 12:15	07/30/10 14:20
9274552011	MW-11	Water	07/28/10 14:00	07/30/10 14:20
9274552012	MW-12	Water	07/28/10 14:50	07/30/10 14:20
9274552013	MW-13	Water	07/28/10 15:20	07/30/10 14:20
9274552014	MW-14	Water	07/28/10 14:35	07/30/10 14:20
9274552015	MW-15	Water	07/28/10 16:05	07/30/10 14:20
9274552016	MW-16	Water	07/28/10 15:35	07/30/10 14:20
9274552017	MW-17	Water	07/28/10 15:55	07/30/10 14:20
9274552018	MW-18	Water	07/28/10 16:20	07/30/10 14:20
9274552019	MW-19D	Water	07/28/10 12:05	07/30/10 14:20
9274552020	MW-20D	Water	07/28/10 11:40	07/30/10 14:20
9274552021	MW-21D	Water	07/28/10 13:10	07/30/10 14:20
9274552022	MW-22D	Water	07/28/10 15:10	07/30/10 14:20
9274552023	MW-23D	Water	07/28/10 16:10	07/30/10 14:20
9274552024	MW-24D	Water	07/28/10 16:25	07/30/10 14:20
9274552025	WSW-1	Water	07/28/10 16:30	07/30/10 14:20
9274552026	WSW-2	Water	07/28/10 17:15	07/30/10 14:20
9274552027	WSW-3-WSW-7	Water	07/28/10 16:40	07/30/10 14:20
9274552028	WSW-4	Water	07/28/10 17:00	07/30/10 14:20
9274552029	WSW-5	Water	07/28/10 17:05	07/30/10 14:20
9274552030	WSW-6	Water	07/28/10 16:35	07/30/10 14:20
9274552031	WSW-8	Water	07/28/10 16:47	07/30/10 14:20
9274552032	WSW-9	Water	07/28/10 15:30	07/30/10 14:20

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9274552001	MW-1	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	KJM, MCK	21
9274552002	MW-2	EPA 8011	RES	2
		EPA 6010	JMW	1
		EPA 8260	KJM, MCK	21
9274552003	MW-3	EPA 8011	RES	2
		EPA 6010	JMW	1
		EPA 8260	KJM, MCK	21
9274552004	MW-4	EPA 8011	RES	2
		EPA 6010	JMW	1
		EPA 8260	KJM	21
9274552005	MW-5	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	KJM	21
9274552006	MW-6	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	MCK	21
9274552007	MW-7	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	MCK	21
9274552008	MW-8	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	MCK	21
9274552009	MW-9	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	MCK	21
9274552010	MW-10	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	MCK	21
9274552011	MW-11	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	KJM, MCK	21
9274552012	MW-12	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	MCK	21
9274552013	MW-13	EPA 8011	CAH	2

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6010	JMW	1
		EPA 8260	MCK	21
9274552014	MW-14	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	MCK	21
9274552015	MW-15	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	MCK	21
9274552016	MW-16	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	MCK	21
9274552017	MW-17	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	MCK	21
9274552018	MW-18	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	MCK	21
9274552019	MW-19D	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	MCK	21
9274552020	MW-20D	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	KJM, MCK	21
9274552021	MW-21D	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	KJM	21
9274552022	MW-22D	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	MCK	21
9274552023	MW-23D	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	MCK	21
9274552024	MW-24D	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 8260	MCK	21
9274552025	WSW-1	EPA 8011	RES	2
		EPA 8260	MCK	11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9274552026	**WSW-2**	EPA 8011	RES	2
		EPA 8260	MCK	11
9274552027	**WSW-3-WSW-7**	EPA 8011	RES	2
		EPA 8260	MCK	11
9274552028	**WSW-4**	EPA 8011	RES	2
		EPA 8260	MCK	11
9274552029	**WSW-5**	EPA 8011	RES	2
		EPA 8260	MCK	11
9274552030	**WSW-6**	EPA 8011	RES	2
		EPA 8260	MCK	11
9274552031	**WSW-8**	EPA 8011	RES	2
		EPA 8260	MCK	11
9274552032	**WSW-9**	EPA 8011	RES	2
		EPA 8260	MCK	11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Sample: MW-1 **Lab ID: 9274552001** Collected: 07/28/10 11:40 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**1.9**	ug/L	0.039	0.039	2	08/02/10 16:02	08/03/10 17:17	106-93-4	
1-Chloro-2-bromopropane (S)	171	%	60-140		2	08/02/10 16:02	08/03/10 17:17	301-79-56	S5
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**6.2**	ug/L	5.0	4.0	1	08/02/10 11:30	08/04/10 20:10	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**1980**	ug/L	1000	620	10		08/01/10 00:30	75-85-4	
tert-Amylmethyl ether	**1310**	ug/L	100	45.0	10		08/01/10 00:30	994-05-8	
Benzene	**6300**	ug/L	5000	1200	1000		08/02/10 16:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	480	10		08/01/10 00:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	270	10		08/01/10 00:30	75-65-0	
tert-Butyl Formate	ND	ug/L	500	90.0	10		08/01/10 00:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	13.0	10		08/01/10 00:30	107-06-2	
Diisopropyl ether	**14900**	ug/L	5000	2700	1000		08/02/10 16:27	108-20-3	
Ethanol	ND	ug/L	2000	1700	10		08/01/10 00:30	64-17-5	
Ethylbenzene	**3740**	ug/L	50.0	11.0	10		08/01/10 00:30	100-41-4	E
Ethyl-tert-butyl ether	ND	ug/L	100	46.0	10		08/01/10 00:30	637-92-3	
Methyl-tert-butyl ether	**2040**	ug/L	50.0	20.0	10		08/01/10 00:30	1634-04-4	E
Naphthalene	**241**	ug/L	50.0	29.0	10		08/01/10 00:30	91-20-3	
Toluene	**117000**	ug/L	5000	1800	1000		08/02/10 16:27	108-88-3	
Xylene (Total)	**29000**	ug/L	10000	2700	1000		08/02/10 16:27	1330-20-7	
m&p-Xylene	**19900**	ug/L	10000	2700	1000		08/02/10 16:27	179601-23-1	
o-Xylene	**9050**	ug/L	5000	1700	1000		08/02/10 16:27	95-47-6	
Dibromofluoromethane (S)	100	%	70-130		10		08/01/10 00:30	1868-53-7	
Toluene-d8 (S)	93	%	70-130		10		08/01/10 00:30	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		10		08/01/10 00:30	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		10		08/01/10 00:30	17060-07-0	

Sample: MW-2 **Lab ID: 9274552002** Collected: 07/28/10 11:50 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.29**	ug/L	0.020	0.020	1	08/02/10 16:02	08/03/10 08:13	106-93-4	
1-Chloro-2-bromopropane (S)	85	%	60-140		1	08/02/10 16:02	08/03/10 08:13	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	08/02/10 11:30	08/04/10 20:22	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**6480**	ug/L	500	310	5		08/01/10 00:48	75-85-4	
tert-Amylmethyl ether	**928**	ug/L	50.0	22.5	5		08/01/10 00:48	994-05-8	
Benzene	**3170**	ug/L	2500	600	500		08/02/10 16:45	71-43-2	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Sample: MW-2 **Lab ID: 9274552002** Collected: 07/28/10 11:50 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	500	240	5		08/01/10 00:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	135	5		08/01/10 00:48	75-65-0	
tert-Butyl Formate	ND	ug/L	250	45.0	5		08/01/10 00:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	6.5	5		08/01/10 00:48	107-06-2	
Diisopropyl ether	**19300**	ug/L	2500	1350	500		08/02/10 16:45	108-20-3	
Ethanol	ND	ug/L	1000	850	5		08/01/10 00:48	64-17-5	
Ethylbenzene	**1850**	ug/L	25.0	5.5	5		08/01/10 00:48	100-41-4	E
Ethyl-tert-butyl ether	ND	ug/L	50.0	23.0	5		08/01/10 00:48	637-92-3	
Methyl-tert-butyl ether	**32700**	ug/L	2500	1000	500		08/02/10 16:45	1634-04-4	
Naphthalene	**253**	ug/L	25.0	14.5	5		08/01/10 00:48	91-20-3	
Toluene	**44900**	ug/L	2500	900	500		08/02/10 16:45	108-88-3	
Xylene (Total)	**13700**	ug/L	5000	1350	500		08/02/10 16:45	1330-20-7	
m&p-Xylene	**8520**	ug/L	5000	1350	500		08/02/10 16:45	179601-23-1	
o-Xylene	**5170**	ug/L	2500	850	500		08/02/10 16:45	95-47-6	
Dibromofluoromethane (S)	100	%	70-130		5		08/01/10 00:48	1868-53-7	
Toluene-d8 (S)	94	%	70-130		5		08/01/10 00:48	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		5		08/01/10 00:48	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		5		08/01/10 00:48	17060-07-0	

Sample: MW-3 **Lab ID: 9274552003** Collected: 07/28/10 11:20 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.072**	ug/L	0.019	0.019	1	08/02/10 16:02	08/03/10 08:32	106-93-4	
1-Chloro-2-bromopropane (S)	92	%	60-140		1	08/02/10 16:02	08/03/10 08:32	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	08/02/10 11:30	08/04/10 20:26	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**5410**	ug/L	100	62.0	1		08/01/10 01:07	75-85-4	E
tert-Amylmethyl ether	**221**	ug/L	10.0	4.5	1		08/01/10 01:07	994-05-8	
Benzene	**1540**	ug/L	1000	240	200		08/02/10 17:03	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		08/01/10 01:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		08/01/10 01:07	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		08/01/10 01:07	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		08/01/10 01:07	107-06-2	
Diisopropyl ether	**6810**	ug/L	1000	540	200		08/02/10 17:03	108-20-3	
Ethanol	ND	ug/L	200	170	1		08/01/10 01:07	64-17-5	
Ethylbenzene	**1350**	ug/L	1000	220	200		08/02/10 17:03	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		08/01/10 01:07	637-92-3	
Methyl-tert-butyl ether	**14600**	ug/L	1000	400	200		08/02/10 17:03	1634-04-4	
Naphthalene	**424**	ug/L	5.0	2.9	1		08/01/10 01:07	91-20-3	E

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Sample: MW-3 **Lab ID: 9274552003** Collected: 07/28/10 11:20 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	**20000**	ug/L	1000	360	200		08/02/10 17:03	108-88-3	
Xylene (Total)	**11700**	ug/L	2000	540	200		08/02/10 17:03	1330-20-7	
m&p-Xylene	**7100**	ug/L	2000	540	200		08/02/10 17:03	179601-23-1	
o-Xylene	**4620**	ug/L	1000	340	200		08/02/10 17:03	95-47-6	
Dibromofluoromethane (S)	99	%	70-130		1		08/01/10 01:07	1868-53-7	
Toluene-d8 (S)	79	%	70-130		1		08/01/10 01:07	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		1		08/01/10 01:07	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		08/01/10 01:07	17060-07-0	

Sample: MW-4 **Lab ID: 9274552004** Collected: 07/28/10 12:00 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	08/02/10 16:02	08/03/10 08:50	106-93-4	
1-Chloro-2-bromopropane (S)	86	%	60-140		1	08/02/10 16:02	08/03/10 08:50	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	08/02/10 11:30	08/04/10 20:29	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**13900**	ug/L	5000	3100	50		08/02/10 17:22	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	225	50		08/02/10 17:22	994-05-8	
Benzene	**801**	ug/L	250	60.0	50		08/02/10 17:22	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	2400	50		08/02/10 17:22	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	1350	50		08/02/10 17:22	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	450	50		08/02/10 17:22	762-75-4	
1,2-Dichloroethane	ND	ug/L	250	65.0	50		08/02/10 17:22	107-06-2	
Diisopropyl ether	**4880**	ug/L	250	135	50		08/02/10 17:22	108-20-3	
Ethanol	ND	ug/L	10000	8500	50		08/02/10 17:22	64-17-5	
Ethylbenzene	**164J**	ug/L	250	55.0	50		08/02/10 17:22	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	230	50		08/02/10 17:22	637-92-3	
Methyl-tert-butyl ether	**7700**	ug/L	250	100	50		08/02/10 17:22	1634-04-4	
Naphthalene	ND	ug/L	250	145	50		08/02/10 17:22	91-20-3	
Toluene	**1510**	ug/L	250	90.0	50		08/02/10 17:22	108-88-3	
Xylene (Total)	**1510**	ug/L	500	135	50		08/02/10 17:22	1330-20-7	
m&p-Xylene	**871**	ug/L	500	135	50		08/02/10 17:22	179601-23-1	
o-Xylene	**643**	ug/L	250	85.0	50		08/02/10 17:22	95-47-6	
Dibromofluoromethane (S)	103	%	70-130		50		08/02/10 17:22	1868-53-7	
Toluene-d8 (S)	101	%	70-130		50		08/02/10 17:22	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		50		08/02/10 17:22	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		50		08/02/10 17:22	17060-07-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Sample: MW-5 **Lab ID: 9274552005** Collected: 07/28/10 12:20 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	08/02/10 16:06	08/02/10 17:09	106-93-4	
1-Chloro-2-bromopropane (S)	121	%	60-140		1	08/02/10 16:06	08/02/10 17:09	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**39.4**	ug/L	5.0	**4.0**	1	08/02/10 11:30	08/04/10 20:32	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		08/03/10 15:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		08/03/10 15:17	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		08/03/10 15:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		08/03/10 15:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		08/03/10 15:17	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		08/03/10 15:17	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		08/03/10 15:17	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		08/03/10 15:17	108-20-3	
Ethanol	ND	ug/L	200	170	1		08/03/10 15:17	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/03/10 15:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		08/03/10 15:17	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		08/03/10 15:17	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		08/03/10 15:17	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		08/03/10 15:17	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		08/03/10 15:17	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/03/10 15:17	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		08/03/10 15:17	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		08/03/10 15:17	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		08/03/10 15:17	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		08/03/10 15:17	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		08/03/10 15:17	17060-07-0	

Sample: MW-6 **Lab ID: 9274552006** Collected: 07/28/10 11:55 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	08/02/10 16:06	08/02/10 18:10	106-93-4	
1-Chloro-2-bromopropane (S)	99	%	60-140		1	08/02/10 16:06	08/02/10 18:10	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	08/02/10 11:30	08/04/10 20:35	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		08/01/10 02:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		08/01/10 02:02	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		08/01/10 02:02	71-43-2	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Sample: MW-6 **Lab ID: 9274552006** Collected: 07/28/10 11:55 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		08/01/10 02:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		08/01/10 02:02	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		08/01/10 02:02	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		08/01/10 02:02	107-06-2	
Diisopropyl ether	**57.7**	ug/L	5.0	2.7	1		08/01/10 02:02	108-20-3	
Ethanol	ND	ug/L	200	170	1		08/01/10 02:02	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/01/10 02:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		08/01/10 02:02	637-92-3	
Methyl-tert-butyl ether	**23.8**	ug/L	5.0	2.0	1		08/01/10 02:02	1634-04-4	
Naphthalene	**3.9J**	ug/L	5.0	2.9	1		08/01/10 02:02	91-20-3	
Toluene	**3.5J**	ug/L	5.0	1.8	1		08/01/10 02:02	108-88-3	
Xylene (Total)	**3.2J**	ug/L	10.0	2.7	1		08/01/10 02:02	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/01/10 02:02	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		08/01/10 02:02	95-47-6	
Dibromofluoromethane (S)	95	%	70-130		1		08/01/10 02:02	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		08/01/10 02:02	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		08/01/10 02:02	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		08/01/10 02:02	17060-07-0	

Sample: MW-7 **Lab ID: 9274552007** Collected: 07/28/10 14:00 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	08/02/10 16:06	08/02/10 18:31	106-93-4	
1-Chloro-2-bromopropane (S)	84	%	60-140		1	08/02/10 16:06	08/02/10 18:31	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	08/03/10 10:40	08/04/10 22:28	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		08/01/10 02:20	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		08/01/10 02:20	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		08/01/10 02:20	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		08/01/10 02:20	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		08/01/10 02:20	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		08/01/10 02:20	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		08/01/10 02:20	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		08/01/10 02:20	108-20-3	
Ethanol	ND	ug/L	200	170	1		08/01/10 02:20	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/01/10 02:20	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		08/01/10 02:20	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		08/01/10 02:20	1634-04-4	
Naphthalene	**3.1J**	ug/L	5.0	2.9	1		08/01/10 02:20	91-20-3	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Sample: MW-7 **Lab ID: 9274552007** Collected: 07/28/10 14:00 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	**2.2J**	ug/L	5.0	1.8	1		08/01/10 02:20	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		08/01/10 02:20	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/01/10 02:20	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		08/01/10 02:20	95-47-6	
Dibromofluoromethane (S)	97	%	70-130		1		08/01/10 02:20	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		08/01/10 02:20	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		08/01/10 02:20	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		08/01/10 02:20	17060-07-0	

Sample: MW-8 **Lab ID: 9274552008** Collected: 07/28/10 13:50 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	08/02/10 16:06	08/02/10 18:51	106-93-4	
1-Chloro-2-bromopropane (S)	107	%	60-140		1	08/02/10 16:06	08/02/10 18:51	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**5.4**	ug/L	5.0	4.0	1	08/03/10 10:40	08/04/10 22:34	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		08/01/10 02:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		08/01/10 02:39	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		08/01/10 02:39	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		08/01/10 02:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		08/01/10 02:39	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		08/01/10 02:39	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		08/01/10 02:39	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		08/01/10 02:39	108-20-3	
Ethanol	ND	ug/L	200	170	1		08/01/10 02:39	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/01/10 02:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		08/01/10 02:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		08/01/10 02:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		08/01/10 02:39	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		08/01/10 02:39	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		08/01/10 02:39	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/01/10 02:39	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		08/01/10 02:39	95-47-6	
Dibromofluoromethane (S)	95	%	70-130		1		08/01/10 02:39	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		08/01/10 02:39	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		08/01/10 02:39	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		08/01/10 02:39	17060-07-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Sample: MW-9 **Lab ID: 9274552009** Collected: 07/28/10 13:45 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	08/02/10 16:06	08/02/10 19:10	106-93-4	
1-Chloro-2-bromopropane (S)	105	%	60-140		1	08/02/10 16:06	08/02/10 19:10	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**7.9**	ug/L	5.0	4.0	1	08/03/10 10:40	08/04/10 22:41	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		08/01/10 02:57	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		08/01/10 02:57	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		08/01/10 02:57	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		08/01/10 02:57	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		08/01/10 02:57	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		08/01/10 02:57	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		08/01/10 02:57	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		08/01/10 02:57	108-20-3	
Ethanol	ND	ug/L	200	170	1		08/01/10 02:57	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/01/10 02:57	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		08/01/10 02:57	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		08/01/10 02:57	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		08/01/10 02:57	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		08/01/10 02:57	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		08/01/10 02:57	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/01/10 02:57	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		08/01/10 02:57	95-47-6	
Dibromofluoromethane (S)	97	%	70-130		1		08/01/10 02:57	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		08/01/10 02:57	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		08/01/10 02:57	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		08/01/10 02:57	17060-07-0	

Sample: MW-10 **Lab ID: 9274552010** Collected: 07/28/10 12:15 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.025	0.025	1	08/02/10 16:06	08/02/10 19:30	106-93-4	
1-Chloro-2-bromopropane (S)	123	%	60-140		1	08/02/10 16:06	08/02/10 19:30	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**23.2**	ug/L	5.0	4.0	1	08/03/10 10:40	08/04/10 22:44	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		08/01/10 03:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		08/01/10 03:16	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		08/01/10 03:16	71-43-2	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Sample: MW-10 **Lab ID: 9274552010** Collected: 07/28/10 12:15 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		08/01/10 03:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		08/01/10 03:16	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		08/01/10 03:16	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		08/01/10 03:16	107-06-2	
Diisopropyl ether	**12.8**	ug/L	5.0	2.7	1		08/01/10 03:16	108-20-3	
Ethanol	ND	ug/L	200	170	1		08/01/10 03:16	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/01/10 03:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		08/01/10 03:16	637-92-3	
Methyl-tert-butyl ether	**8.0**	ug/L	5.0	2.0	1		08/01/10 03:16	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		08/01/10 03:16	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		08/01/10 03:16	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		08/01/10 03:16	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/01/10 03:16	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		08/01/10 03:16	95-47-6	
Dibromofluoromethane (S)	96	%	70-130		1		08/01/10 03:16	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		08/01/10 03:16	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		08/01/10 03:16	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		08/01/10 03:16	17060-07-0	

Sample: MW-11 **Lab ID: 9274552011** Collected: 07/28/10 14:00 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.31**	ug/L	0.021	0.021	1	08/02/10 16:06	08/02/10 20:09	106-93-4	
1-Chloro-2-bromopropane (S)	120	%	60-140		1	08/02/10 16:06	08/02/10 20:09	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	08/03/10 10:40	08/04/10 22:47	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**3990**	ug/L	500	310	5		08/01/10 03:34	75-85-4	
tert-Amylmethyl ether	**237**	ug/L	50.0	22.5	5		08/01/10 03:34	994-05-8	
Benzene	**997**	ug/L	25.0	6.0	5		08/01/10 03:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	240	5		08/01/10 03:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	135	5		08/01/10 03:34	75-65-0	
tert-Butyl Formate	ND	ug/L	250	45.0	5		08/01/10 03:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	6.5	5		08/01/10 03:34	107-06-2	
Diisopropyl ether	**7840**	ug/L	1000	540	200		08/03/10 16:49	108-20-3	
Ethanol	ND	ug/L	1000	850	5		08/01/10 03:34	64-17-5	
Ethylbenzene	**340**	ug/L	25.0	5.5	5		08/01/10 03:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	23.0	5		08/01/10 03:34	637-92-3	
Methyl-tert-butyl ether	**18600**	ug/L	1000	400	200		08/03/10 16:49	1634-04-4	
Naphthalene	**43.6**	ug/L	25.0	14.5	5		08/01/10 03:34	91-20-3	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Sample: MW-11 **Lab ID: 9274552011** Collected: 07/28/10 14:00 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	**8120**	ug/L	1000	360	200		08/03/10 16:49	108-88-3	
Xylene (Total)	**2480**	ug/L	50.0	13.5	5		08/01/10 03:34	1330-20-7	
m&p-Xylene	**1540**	ug/L	50.0	13.5	5		08/01/10 03:34	179601-23-1	
o-Xylene	**940**	ug/L	25.0	8.5	5		08/01/10 03:34	95-47-6	
Dibromofluoromethane (S)	97	%	70-130		5		08/01/10 03:34	1868-53-7	
Toluene-d8 (S)	**100**	%	70-130		5		08/01/10 03:34	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		5		08/01/10 03:34	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		5		08/01/10 03:34	17060-07-0	

Sample: MW-12 **Lab ID: 9274552012** Collected: 07/28/10 14:50 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	08/02/10 16:06	08/02/10 20:29	106-93-4	
1-Chloro-2-bromopropane (S)	126	%	60-140		1	08/02/10 16:06	08/02/10 20:29	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	08/03/10 10:40	08/04/10 22:50	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**201**	ug/L	100	62.0	1		08/01/10 03:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		08/01/10 03:52	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		08/01/10 03:52	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		08/01/10 03:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		08/01/10 03:52	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		08/01/10 03:52	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		08/01/10 03:52	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		08/01/10 03:52	108-20-3	
Ethanol	ND	ug/L	200	170	1		08/01/10 03:52	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/01/10 03:52	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		08/01/10 03:52	637-92-3	
Methyl-tert-butyl ether	**3.6J**	ug/L	5.0	2.0	1		08/01/10 03:52	1634-04-4	
Naphthalene	**3.1J**	ug/L	5.0	2.9	1		08/01/10 03:52	91-20-3	
Toluene	**2.1J**	ug/L	5.0	1.8	1		08/01/10 03:52	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		08/01/10 03:52	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/01/10 03:52	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		08/01/10 03:52	95-47-6	
Dibromofluoromethane (S)	98	%	70-130		1		08/01/10 03:52	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		08/01/10 03:52	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		08/01/10 03:52	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		08/01/10 03:52	17060-07-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Sample: MW-13 **Lab ID: 9274552013** Collected: 07/28/10 15:20 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	08/02/10 16:06	08/02/10 20:48	106-93-4	
1-Chloro-2-bromopropane (S)	139	%	60-140		1	08/02/10 16:06	08/02/10 20:48	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	08/03/10 10:40	08/04/10 22:53	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		08/01/10 04:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		08/01/10 04:11	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		08/01/10 04:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		08/01/10 04:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		08/01/10 04:11	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		08/01/10 04:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		08/01/10 04:11	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		08/01/10 04:11	108-20-3	
Ethanol	ND	ug/L	200	170	1		08/01/10 04:11	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/01/10 04:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		08/01/10 04:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		08/01/10 04:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		08/01/10 04:11	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		08/01/10 04:11	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		08/01/10 04:11	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/01/10 04:11	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		08/01/10 04:11	95-47-6	
Dibromofluoromethane (S)	96	%	70-130		1		08/01/10 04:11	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		08/01/10 04:11	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		08/01/10 04:11	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		08/01/10 04:11	17060-07-0	

Sample: MW-14 **Lab ID: 9274552014** Collected: 07/28/10 14:35 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	08/02/10 16:06	08/02/10 21:08	106-93-4	
1-Chloro-2-bromopropane (S)	137	%	60-140		1	08/02/10 16:06	08/02/10 21:08	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**4.1J**	ug/L	5.0	4.0	1	08/03/10 10:40	08/04/10 23:06	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		08/01/10 04:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		08/01/10 04:29	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		08/01/10 04:29	71-43-2	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Sample: MW-14 **Lab ID: 9274552014** Collected: 07/28/10 14:35 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		08/01/10 04:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		08/01/10 04:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		08/01/10 04:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		08/01/10 04:29	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		08/01/10 04:29	108-20-3	
Ethanol	ND	ug/L	200	170	1		08/01/10 04:29	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/01/10 04:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		08/01/10 04:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		08/01/10 04:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		08/01/10 04:29	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		08/01/10 04:29	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		08/01/10 04:29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/01/10 04:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		08/01/10 04:29	95-47-6	
Dibromofluoromethane (S)	99	%	70-130		1		08/01/10 04:29	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		08/01/10 04:29	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		08/01/10 04:29	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		08/01/10 04:29	17060-07-0	

Sample: MW-15 **Lab ID: 9274552015** Collected: 07/28/10 16:05 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	08/02/10 16:06	08/02/10 21:27	106-93-4	
1-Chloro-2-bromopropane (S)	138	%	60-140		1	08/02/10 16:06	08/02/10 21:27	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	08/03/10 10:40	08/04/10 23:09	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		08/01/10 04:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		08/01/10 04:47	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		08/01/10 04:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		08/01/10 04:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		08/01/10 04:47	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		08/01/10 04:47	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		08/01/10 04:47	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		08/01/10 04:47	108-20-3	
Ethanol	ND	ug/L	200	170	1		08/01/10 04:47	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/01/10 04:47	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		08/01/10 04:47	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		08/01/10 04:47	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		08/01/10 04:47	91-20-3	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH NELAC
nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Sample: MW-15 **Lab ID: 9274552015** Collected: 07/28/10 16:05 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	ND	ug/L	5.0	1.8	1		08/01/10 04:47	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		08/01/10 04:47	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/01/10 04:47	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		08/01/10 04:47	95-47-6	
Dibromofluoromethane (S)	101	%	70-130		1		08/01/10 04:47	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		08/01/10 04:47	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		08/01/10 04:47	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		08/01/10 04:47	17060-07-0	

Sample: MW-16 **Lab ID: 9274552016** Collected: 07/28/10 15:35 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	08/02/10 16:06	08/02/10 21:46	106-93-4	
1-Chloro-2-bromopropane (S)	96	%	60-140		1	08/02/10 16:06	08/02/10 21:46	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	08/03/10 10:40	08/04/10 23:12	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		08/01/10 05:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		08/01/10 05:06	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		08/01/10 05:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		08/01/10 05:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		08/01/10 05:06	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		08/01/10 05:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		08/01/10 05:06	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		08/01/10 05:06	108-20-3	
Ethanol	ND	ug/L	200	170	1		08/01/10 05:06	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/01/10 05:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		08/01/10 05:06	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		08/01/10 05:06	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		08/01/10 05:06	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		08/01/10 05:06	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		08/01/10 05:06	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/01/10 05:06	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		08/01/10 05:06	95-47-6	
Dibromofluoromethane (S)	98	%	70-130		1		08/01/10 05:06	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		08/01/10 05:06	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		08/01/10 05:06	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		08/01/10 05:06	17060-07-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Sample: MW-17 **Lab ID: 9274552017** Collected: 07/28/10 15:55 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	08/02/10 16:06	08/02/10 22:06	106-93-4	
1-Chloro-2-bromopropane (S)	129	%	60-140		1	08/02/10 16:06	08/02/10 22:06	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	08/03/10 10:40	08/04/10 23:15	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		08/01/10 05:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		08/01/10 05:24	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		08/01/10 05:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		08/01/10 05:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		08/01/10 05:24	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		08/01/10 05:24	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		08/01/10 05:24	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		08/01/10 05:24	108-20-3	
Ethanol	ND	ug/L	200	170	1		08/01/10 05:24	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/01/10 05:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		08/01/10 05:24	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		08/01/10 05:24	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		08/01/10 05:24	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		08/01/10 05:24	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		08/01/10 05:24	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/01/10 05:24	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		08/01/10 05:24	95-47-6	
Dibromofluoromethane (S)	101	%	70-130		1		08/01/10 05:24	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		08/01/10 05:24	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		08/01/10 05:24	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		08/01/10 05:24	17060-07-0	

Sample: MW-18 **Lab ID: 9274552018** Collected: 07/28/10 16:20 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	08/02/10 16:06	08/02/10 22:25	106-93-4	
1-Chloro-2-bromopropane (S)	139	%	60-140		1	08/02/10 16:06	08/02/10 22:25	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	08/03/10 10:40	08/04/10 23:19	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		08/01/10 05:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		08/01/10 05:42	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		08/01/10 05:42	71-43-2	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Sample: MW-18 **Lab ID: 9274552018** Collected: 07/28/10 16:20 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		08/01/10 05:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		08/01/10 05:42	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		08/01/10 05:42	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		08/01/10 05:42	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		08/01/10 05:42	108-20-3	
Ethanol	ND	ug/L	200	170	1		08/01/10 05:42	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/01/10 05:42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		08/01/10 05:42	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		08/01/10 05:42	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		08/01/10 05:42	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		08/01/10 05:42	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		08/01/10 05:42	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/01/10 05:42	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		08/01/10 05:42	95-47-6	
Dibromofluoromethane (S)	101	%	70-130		1		08/01/10 05:42	1868-53-7	
Toluene-d8 (S)	86	%	70-130		1		08/01/10 05:42	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		08/01/10 05:42	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		08/01/10 05:42	17060-07-0	

Sample: MW-19D **Lab ID: 9274552019** Collected: 07/28/10 12:05 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	08/02/10 16:06	08/02/10 22:44	106-93-4	
1-Chloro-2-bromopropane (S)	125	%	60-140		1	08/02/10 16:06	08/02/10 22:44	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	08/03/10 10:40	08/04/10 23:22	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		08/01/10 06:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		08/01/10 06:01	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		08/01/10 06:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		08/01/10 06:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		08/01/10 06:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		08/01/10 06:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		08/01/10 06:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		08/01/10 06:01	108-20-3	
Ethanol	ND	ug/L	200	170	1		08/01/10 06:01	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/01/10 06:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		08/01/10 06:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		08/01/10 06:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		08/01/10 06:01	91-20-3	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Sample: MW-19D **Lab ID: 9274552019** Collected: 07/28/10 12:05 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	ND	ug/L	5.0	1.8	1		08/01/10 06:01	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		08/01/10 06:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/01/10 06:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		08/01/10 06:01	95-47-6	
Dibromofluoromethane (S)	99	%	70-130		1		08/01/10 06:01	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		08/01/10 06:01	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		08/01/10 06:01	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		08/01/10 06:01	17060-07-0	

Sample: MW-20D **Lab ID: 9274552020** Collected: 07/28/10 11:40 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.055**	ug/L	0.019	0.019	1	08/02/10 16:06	08/02/10 23:04	106-93-4	
1-Chloro-2-bromopropane (S)	104	%	60-140		1	08/02/10 16:06	08/02/10 23:04	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	08/03/10 10:40	08/04/10 23:25	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**1490**	ug/L	100	62.0	1		08/01/10 06:19	75-85-4	
tert-Amylmethyl ether	**77.7**	ug/L	10.0	4.5	1		08/01/10 06:19	994-05-8	
Benzene	**230**	ug/L	5.0	1.2	1		08/01/10 06:19	71-43-2	E
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		08/01/10 06:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		08/01/10 06:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		08/01/10 06:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		08/01/10 06:19	107-06-2	
Diisopropyl ether	**1720**	ug/L	250	135	50		08/03/10 19:17	108-20-3	
Ethanol	ND	ug/L	200	170	1		08/01/10 06:19	64-17-5	
Ethylbenzene	**57.2**	ug/L	5.0	1.1	1		08/01/10 06:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		08/01/10 06:19	637-92-3	
Methyl-tert-butyl ether	**3720**	ug/L	250	100	50		08/03/10 19:17	1634-04-4	
Naphthalene	**11.2**	ug/L	5.0	2.9	1		08/01/10 06:19	91-20-3	
Toluene	**573**	ug/L	250	90.0	50		08/03/10 19:17	108-88-3	
Xylene (Total)	**379**	ug/L	10.0	2.7	1		08/01/10 06:19	1330-20-7	
m&p-Xylene	**201**	ug/L	10.0	2.7	1		08/01/10 06:19	179601-23-1	
o-Xylene	**178**	ug/L	5.0	1.7	1		08/01/10 06:19	95-47-6	
Dibromofluoromethane (S)	100	%	70-130		1		08/01/10 06:19	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		08/01/10 06:19	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		1		08/01/10 06:19	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		08/01/10 06:19	17060-07-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Sample: MW-21D **Lab ID: 9274552021** Collected: 07/28/10 13:10 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	08/02/10 16:06	08/02/10 23:23	106-93-4	
1-Chloro-2-bromopropane (S)	95	%	60-140		1	08/02/10 16:06	08/02/10 23:23	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	109	ug/L	5.0	4.0	1	08/03/10 10:40	08/04/10 23:28	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		08/02/10 13:51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		08/02/10 13:51	994-05-8	
Benzene	3.6J	ug/L	5.0	1.2	1		08/02/10 13:51	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		08/02/10 13:51	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		08/02/10 13:51	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		08/02/10 13:51	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		08/02/10 13:51	107-06-2	
Diisopropyl ether	98.5	ug/L	5.0	2.7	1		08/02/10 13:51	108-20-3	
Ethanol	ND	ug/L	200	170	1		08/02/10 13:51	64-17-5	
Ethylbenzene	1.3J	ug/L	5.0	1.1	1		08/02/10 13:51	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		08/02/10 13:51	637-92-3	
Methyl-tert-butyl ether	128	ug/L	5.0	2.0	1		08/02/10 13:51	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		08/02/10 13:51	91-20-3	
Toluene	4.2J	ug/L	5.0	1.8	1		08/02/10 13:51	108-88-3	
Xylene (Total)	8.3J	ug/L	10.0	2.7	1		08/02/10 13:51	1330-20-7	
m&p-Xylene	5.1J	ug/L	10.0	2.7	1		08/02/10 13:51	179601-23-1	
o-Xylene	3.2J	ug/L	5.0	1.7	1		08/02/10 13:51	95-47-6	
Dibromofluoromethane (S)	107	%	70-130		1		08/02/10 13:51	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		08/02/10 13:51	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		08/02/10 13:51	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		08/02/10 13:51	17060-07-0	

Sample: MW-22D **Lab ID: 9274552022** Collected: 07/28/10 15:10 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	08/02/10 16:06	08/02/10 23:42	106-93-4	
1-Chloro-2-bromopropane (S)	94	%	60-140		1	08/02/10 16:06	08/02/10 23:42	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	08/03/10 10:40	08/04/10 23:31	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		07/31/10 21:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		07/31/10 21:07	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		07/31/10 21:07	71-43-2	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Sample: MW-22D **Lab ID: 9274552022** Collected: 07/28/10 15:10 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		07/31/10 21:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		07/31/10 21:07	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		07/31/10 21:07	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		07/31/10 21:07	107-06-2	
Diisopropyl ether	**19.1**	ug/L	5.0	2.7	1		07/31/10 21:07	108-20-3	
Ethanol	ND	ug/L	200	170	1		07/31/10 21:07	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		07/31/10 21:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		07/31/10 21:07	637-92-3	
Methyl-tert-butyl ether	**33.1**	ug/L	5.0	2.0	1		07/31/10 21:07	1634-04-4	
Naphthalene	**3.1J**	ug/L	5.0	2.9	1		07/31/10 21:07	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		07/31/10 21:07	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		07/31/10 21:07	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		07/31/10 21:07	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		07/31/10 21:07	95-47-6	
Dibromofluoromethane (S)	104	%	70-130		1		07/31/10 21:07	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		07/31/10 21:07	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		07/31/10 21:07	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		07/31/10 21:07	17060-07-0	

Sample: MW-23D **Lab ID: 9274552023** Collected: 07/28/10 16:10 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.021	1	08/02/10 16:06	08/03/10 00:01	106-93-4	
1-Chloro-2-bromopropane (S)	89	%	60-140		1	08/02/10 16:06	08/03/10 00:01	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**10.5**	ug/L	5.0	4.0	1	08/03/10 10:40	08/04/10 23:35	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		07/31/10 21:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		07/31/10 21:26	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		07/31/10 21:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		07/31/10 21:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		07/31/10 21:26	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		07/31/10 21:26	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		07/31/10 21:26	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		07/31/10 21:26	108-20-3	
Ethanol	ND	ug/L	200	170	1		07/31/10 21:26	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		07/31/10 21:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		07/31/10 21:26	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		07/31/10 21:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		07/31/10 21:26	91-20-3	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Sample: MW-23D **Lab ID: 9274552023** Collected: 07/28/10 16:10 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	ND	ug/L	5.0	1.8	1		07/31/10 21:26	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		07/31/10 21:26	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		07/31/10 21:26	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		07/31/10 21:26	95-47-6	
Dibromofluoromethane (S)	103	%	70-130		1		07/31/10 21:26	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		07/31/10 21:26	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		07/31/10 21:26	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		07/31/10 21:26	17060-07-0	

Sample: MW-24D **Lab ID: 9274552024** Collected: 07/28/10 16:25 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	08/02/10 16:06	08/03/10 00:21	106-93-4	
1-Chloro-2-bromopropane (S)	92	%	60-140		1	08/02/10 16:06	08/03/10 00:21	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**20.4**	ug/L	5.0	4.0	1	08/03/10 10:40	08/04/10 23:47	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		07/31/10 21:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		07/31/10 21:44	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		07/31/10 21:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		07/31/10 21:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		07/31/10 21:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		07/31/10 21:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		07/31/10 21:44	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		07/31/10 21:44	108-20-3	
Ethanol	ND	ug/L	200	170	1		07/31/10 21:44	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		07/31/10 21:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		07/31/10 21:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		07/31/10 21:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		07/31/10 21:44	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		07/31/10 21:44	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		07/31/10 21:44	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		07/31/10 21:44	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		07/31/10 21:44	95-47-6	
Dibromofluoromethane (S)	103	%	70-130		1		07/31/10 21:44	1868-53-7	
Toluene-d8 (S)	88	%	70-130		1		07/31/10 21:44	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		07/31/10 21:44	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		07/31/10 21:44	17060-07-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Sample: WSW-1 **Lab ID: 9274552025** Collected: 07/28/10 16:30 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	08/02/10 16:10	08/03/10 02:53	106-93-4	
1-Chloro-2-bromopropane (S)	99	%	60-140		1	08/02/10 16:10	08/03/10 02:53	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.25	1		08/04/10 23:38	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/04/10 23:38	100-41-4	
Methyl-tert-butyl ether	2.2	ug/L	1.0	0.21	1		08/04/10 23:38	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/04/10 23:38	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		08/04/10 23:38	108-88-3	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/04/10 23:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/04/10 23:38	95-47-6	
4-Bromofluorobenzene (S)	103	%	70-130		1		08/04/10 23:38	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		08/04/10 23:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		08/04/10 23:38	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		08/04/10 23:38	2037-26-5	

Sample: WSW-2 **Lab ID: 9274552026** Collected: 07/28/10 17:15 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	08/02/10 16:10	08/03/10 03:54	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		1	08/02/10 16:10	08/03/10 03:54	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.25	1		08/05/10 00:04	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/05/10 00:04	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/05/10 00:04	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/05/10 00:04	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		08/05/10 00:04	108-88-3	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/05/10 00:04	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/05/10 00:04	95-47-6	
4-Bromofluorobenzene (S)	104	%	70-130		1		08/05/10 00:04	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		08/05/10 00:04	1868-53-7	
1,2-Dichloroethane-d4 (S)	114	%	70-130		1		08/05/10 00:04	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		08/05/10 00:04	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Sample: WSW-3-WSW-7 **Lab ID: 9274552027** Collected: 07/28/10 16:40 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	08/02/10 16:10	08/03/10 04:14	106-93-4	
1-Chloro-2-bromopropane (S)	99	%	60-140		1	08/02/10 16:10	08/03/10 04:14	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.25	1		08/05/10 00:29	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/05/10 00:29	100-41-4	
Methyl-tert-butyl ether	4.3	ug/L	1.0	0.21	1		08/05/10 00:29	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/05/10 00:29	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		08/05/10 00:29	108-88-3	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/05/10 00:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/05/10 00:29	95-47-6	
4-Bromofluorobenzene (S)	102	%	70-130		1		08/05/10 00:29	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		08/05/10 00:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	70-130		1		08/05/10 00:29	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		08/05/10 00:29	2037-26-5	

Sample: WSW-4 **Lab ID: 9274552028** Collected: 07/28/10 17:00 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	08/02/10 16:10	08/03/10 04:34	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	08/02/10 16:10	08/03/10 04:34	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.25	1		08/05/10 00:55	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/05/10 00:55	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/05/10 00:55	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/05/10 00:55	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		08/05/10 00:55	108-88-3	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/05/10 00:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/05/10 00:55	95-47-6	
4-Bromofluorobenzene (S)	104	%	70-130		1		08/05/10 00:55	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		1		08/05/10 00:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		08/05/10 00:55	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		08/05/10 00:55	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Sample: WSW-5 **Lab ID: 9274552029** Collected: 07/28/10 17:05 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	08/02/10 16:10	08/03/10 04:54	106-93-4	
1-Chloro-2-bromopropane (S)	99	%	60-140		1	08/02/10 16:10	08/03/10 04:54	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.25	1		08/05/10 01:20	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/05/10 01:20	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/05/10 01:20	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/05/10 01:20	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		08/05/10 01:20	108-88-3	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/05/10 01:20	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/05/10 01:20	95-47-6	
4-Bromofluorobenzene (S)	103	%	70-130		1		08/05/10 01:20	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		08/05/10 01:20	1868-53-7	
1,2-Dichloroethane-d4 (S)	112	%	70-130		1		08/05/10 01:20	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		08/05/10 01:20	2037-26-5	

Sample: WSW-6 **Lab ID: 9274552030** Collected: 07/28/10 16:35 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	08/02/10 16:11	08/03/10 05:14	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		1	08/02/10 16:11	08/03/10 05:14	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.25	1		08/05/10 01:46	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/05/10 01:46	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/05/10 01:46	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/05/10 01:46	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		08/05/10 01:46	108-88-3	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/05/10 01:46	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/05/10 01:46	95-47-6	
4-Bromofluorobenzene (S)	105	%	70-130		1		08/05/10 01:46	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		08/05/10 01:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	114	%	70-130		1		08/05/10 01:46	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		08/05/10 01:46	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

Sample: WSW-8 **Lab ID: 9274552031** Collected: 07/28/10 16:47 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	08/02/10 16:11	08/03/10 05:54	106-93-4	
1-Chloro-2-bromopropane (S)	99	%	60-140		1	08/02/10 16:11	08/03/10 05:54	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.25	1		08/05/10 02:11	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/05/10 02:11	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/05/10 02:11	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/05/10 02:11	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		08/05/10 02:11	108-88-3	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/05/10 02:11	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/05/10 02:11	95-47-6	
4-Bromofluorobenzene (S)	104	%	70-130		1		08/05/10 02:11	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		08/05/10 02:11	1868-53-7	
1,2-Dichloroethane-d4 (S)	112	%	70-130		1		08/05/10 02:11	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		08/05/10 02:11	2037-26-5	

Sample: WSW-9 **Lab ID: 9274552032** Collected: 07/28/10 15:30 Received: 07/30/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	08/02/10 16:11	08/03/10 06:14	106-93-4	
1-Chloro-2-bromopropane (S)	103	%	60-140		1	08/02/10 16:11	08/03/10 06:14	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.25	1		08/05/10 02:36	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/05/10 02:36	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		08/05/10 02:36	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		08/05/10 02:36	91-20-3	
Toluene	0.72J	ug/L	1.0	0.26	1		08/05/10 02:36	108-88-3	
m&p-Xylene	ND	ug/L	2.0	0.66	1		08/05/10 02:36	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		08/05/10 02:36	95-47-6	
4-Bromofluorobenzene (S)	104	%	70-130		1		08/05/10 02:36	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		1		08/05/10 02:36	1868-53-7	
1,2-Dichloroethane-d4 (S)	114	%	70-130		1		08/05/10 02:36	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		08/05/10 02:36	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

QC Batch: OEXT/10705 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9274552001, 9274552002, 9274552003, 9274552004

METHOD BLANK: 476972 Matrix: Water
Associated Lab Samples: 9274552001, 9274552002, 9274552003, 9274552004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	08/03/10 01:13	
1-Chloro-2-bromopropane (S)	%	100	60-140	08/03/10 01:13	

LABORATORY CONTROL SAMPLE & LCSD: 476973 476974

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.28	0.29	0.28	102	98	60-140	4	20	
1-Chloro-2-bromopropane (S)	%				106	98	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 476975 476976

Parameter	Units	9274498002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.27	0.26	96	94	60-140	2	20	
1-Chloro-2-bromopropane (S)	%						99	97	60-140			

SAMPLE DUPLICATE: 476977

Parameter	Units	9274537001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	101	90	12		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

QC Batch: OEXT/10706 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9274552005, 9274552006, 9274552007, 9274552008, 9274552009, 9274552010, 9274552011, 9274552012, 9274552013, 9274552014, 9274552015, 9274552016, 9274552017, 9274552018, 9274552019, 9274552020, 9274552021, 9274552022, 9274552023, 9274552024

METHOD BLANK: 476980 Matrix: Water
Associated Lab Samples: 9274552005, 9274552006, 9274552007, 9274552008, 9274552009, 9274552010, 9274552011, 9274552012, 9274552013, 9274552014, 9274552015, 9274552016, 9274552017, 9274552018, 9274552019, 9274552020, 9274552021, 9274552022, 9274552023, 9274552024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.019	08/02/10 16:11	
1-Chloro-2-bromopropane (S)	%	118	60-140	08/02/10 16:11	

LABORATORY CONTROL SAMPLE & LCSD: 476981 476982

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.28	0.32	0.31	112	108	60-140	2	20	
1-Chloro-2-bromopropane (S)	%				120	117	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 476983 476984

Parameter	Units	9274552005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.27	.27	0.28	0.31	102	112	60-140	9	20	
1-Chloro-2-bromopropane (S)	%						104	117	60-140			

SAMPLE DUPLICATE: 476985

Parameter	Units	9274552010 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	123	99	50		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

QC Batch: OEXT/10707 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9274552025, 9274552026, 9274552027, 9274552028, 9274552029, 9274552030, 9274552031, 9274552032

METHOD BLANK: 476988 Matrix: Water
Associated Lab Samples: 9274552025, 9274552026, 9274552027, 9274552028, 9274552029, 9274552030, 9274552031, 9274552032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.019	08/03/10 01:53	
1-Chloro-2-bromopropane (S)	%	100	60-140	08/03/10 01:53	

LABORATORY CONTROL SAMPLE & LCSD: 476989 476990

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.28	0.28	0.29	98	102	60-140	5	20	
1-Chloro-2-bromopropane (S)	%				101	103	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 476991 476992

Parameter	Units	9274552025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.28	0.28	102	100	60-140	2	20	
1-Chloro-2-bromopropane (S)	%						100	99	60-140			

SAMPLE DUPLICATE: 476993

Parameter	Units	9274552030 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	101	101	1		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

QC Batch: MPRP/6770 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 9274552001, 9274552002, 9274552003, 9274552004, 9274552005, 9274552006

METHOD BLANK: 476863 Matrix: Water
Associated Lab Samples: 9274552001, 9274552002, 9274552003, 9274552004, 9274552005, 9274552006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	08/04/10 19:03	

LABORATORY CONTROL SAMPLE: 476864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	497	99	80-120	

MATRIX SPIKE SAMPLE: 476865

Parameter	Units	9274245005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	500	488	97	75-125	

SAMPLE DUPLICATE: 476866

Parameter	Units	9274245006 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	ND	ND		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

QC Batch: MPRP/6780 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 9274552007, 9274552008, 9274552009, 9274552010, 9274552011, 9274552012, 9274552013, 9274552014, 9274552015, 9274552016, 9274552017, 9274552018, 9274552019, 9274552020, 9274552021, 9274552022, 9274552023, 9274552024

METHOD BLANK: 477198 Matrix: Water
Associated Lab Samples: 9274552007, 9274552008, 9274552009, 9274552010, 9274552011, 9274552012, 9274552013, 9274552014, 9274552015, 9274552016, 9274552017, 9274552018, 9274552019, 9274552020, 9274552021, 9274552022, 9274552023, 9274552024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	08/04/10 22:12	

LABORATORY CONTROL SAMPLE: 477199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	481	96	80-120	

MATRIX SPIKE SAMPLE: 477200

Parameter	Units	9274552007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	500	489	98	75-125	

SAMPLE DUPLICATE: 477201

Parameter	Units	9274552008 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	5.4	6.4	17	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

QC Batch: MSV/11785 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 9274552025, 9274552026, 9274552027, 9274552028, 9274552029, 9274552030, 9274552031, 9274552032

METHOD BLANK: 478084 Matrix: Water
Associated Lab Samples: 9274552025, 9274552026, 9274552027, 9274552028, 9274552029, 9274552030, 9274552031, 9274552032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	08/04/10 22:47	
Ethylbenzene	ug/L	ND	1.0	08/04/10 22:47	
m&p-Xylene	ug/L	ND	2.0	08/04/10 22:47	
Methyl-tert-butyl ether	ug/L	ND	1.0	08/04/10 22:47	
Naphthalene	ug/L	ND	1.0	08/04/10 22:47	
o-Xylene	ug/L	ND	1.0	08/04/10 22:47	
Toluene	ug/L	ND	1.0	08/04/10 22:47	
1,2-Dichloroethane-d4 (S)	%	110	70-130	08/04/10 22:47	
4-Bromofluorobenzene (S)	%	101	70-130	08/04/10 22:47	
Dibromofluoromethane (S)	%	110	70-130	08/04/10 22:47	
Toluene-d8 (S)	%	99	70-130	08/04/10 22:47	

LABORATORY CONTROL SAMPLE: 478085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	47.1	94	70-130	
Ethylbenzene	ug/L	50	46.9	94	70-130	
m&p-Xylene	ug/L	100	97.7	98	70-130	
Methyl-tert-butyl ether	ug/L	50	53.1	106	70-130	
Naphthalene	ug/L	50	51.8	104	70-130	
o-Xylene	ug/L	50	48.8	98	70-130	
Toluene	ug/L	50	50.7	101	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			106	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 478086 478087

Parameter	Units	9274664004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	51.1	49.0	102	98	70-130	4	30	
Ethylbenzene	ug/L	ND	50	50	53.1	53.4	106	107	70-130	1	30	
m&p-Xylene	ug/L	ND	100	100	112	113	112	112	70-130	0	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	52.1	52.7	104	105	70-130	1	30	
Naphthalene	ug/L	ND	50	50	53.8	57.2	108	114	70-130	6	30	
o-Xylene	ug/L	ND	50	50	56.5	56.4	113	112	70-130	0	30	
Toluene	ug/L	ND	50	50	57.5	52.4	115	105	70-130	9	30	
1,2-Dichloroethane-d4 (S)	%						101	101	70-130			
4-Bromofluorobenzene (S)	%						106	107	70-130			

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 478086 478087

Parameter	Units	9274664004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dibromofluoromethane (S)	%						103	104	70-130			
Toluene-d8 (S)	%						105	101	70-130			

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH NELAC
nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

QC Batch: MSV/11755 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates SC
Associated Lab Samples: 9274552021, 9274552022, 9274552023, 9274552024

METHOD BLANK: 476770 Matrix: Water
Associated Lab Samples: 9274552021, 9274552022, 9274552023, 9274552024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	07/31/10 14:03	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	07/31/10 14:03	
Benzene	ug/L	ND	5.0	07/31/10 14:03	
Diisopropyl ether	ug/L	ND	5.0	07/31/10 14:03	
Ethanol	ug/L	ND	200	07/31/10 14:03	
Ethyl-tert-butyl ether	ug/L	ND	10.0	07/31/10 14:03	
Ethylbenzene	ug/L	ND	5.0	07/31/10 14:03	
m&p-Xylene	ug/L	ND	10.0	07/31/10 14:03	
Methyl-tert-butyl ether	ug/L	ND	5.0	07/31/10 14:03	
Naphthalene	ug/L	ND	5.0	07/31/10 14:03	
o-Xylene	ug/L	ND	5.0	07/31/10 14:03	
tert-Amyl Alcohol	ug/L	ND	100	07/31/10 14:03	
tert-Amylmethyl ether	ug/L	ND	10.0	07/31/10 14:03	
tert-Butyl Alcohol	ug/L	ND	100	07/31/10 14:03	
tert-Butyl Formate	ug/L	ND	50.0	07/31/10 14:03	
Toluene	ug/L	ND	5.0	07/31/10 14:03	
Xylene (Total)	ug/L	ND	10.0	07/31/10 14:03	
1,2-Dichloroethane-d4 (S)	%	102	70-130	07/31/10 14:03	
4-Bromofluorobenzene (S)	%	98	70-130	07/31/10 14:03	
Dibromofluoromethane (S)	%	100	70-130	07/31/10 14:03	
Toluene-d8 (S)	%	100	70-130	07/31/10 14:03	

METHOD BLANK: 477252 Matrix: Water
Associated Lab Samples: 9274552021, 9274552022, 9274552023, 9274552024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	08/02/10 13:33	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	08/02/10 13:33	
Benzene	ug/L	ND	5.0	08/02/10 13:33	
Diisopropyl ether	ug/L	ND	5.0	08/02/10 13:33	
Ethanol	ug/L	ND	200	08/02/10 13:33	
Ethyl-tert-butyl ether	ug/L	ND	10.0	08/02/10 13:33	
Ethylbenzene	ug/L	ND	5.0	08/02/10 13:33	
m&p-Xylene	ug/L	ND	10.0	08/02/10 13:33	
Methyl-tert-butyl ether	ug/L	ND	5.0	08/02/10 13:33	
Naphthalene	ug/L	ND	5.0	08/02/10 13:33	
o-Xylene	ug/L	ND	5.0	08/02/10 13:33	
tert-Amyl Alcohol	ug/L	ND	100	08/02/10 13:33	
tert-Amylmethyl ether	ug/L	ND	10.0	08/02/10 13:33	
tert-Butyl Alcohol	ug/L	ND	100	08/02/10 13:33	
tert-Butyl Formate	ug/L	ND	50.0	08/02/10 13:33	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

METHOD BLANK: 477252 Matrix: Water

Associated Lab Samples: 9274552021, 9274552022, 9274552023, 9274552024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	5.0	08/02/10 13:33	
Xylene (Total)	ug/L	ND	10.0	08/02/10 13:33	
1,2-Dichloroethane-d4 (S)	%	100	70-130	08/02/10 13:33	
4-Bromofluorobenzene (S)	%	95	70-130	08/02/10 13:33	
Dibromofluoromethane (S)	%	104	70-130	08/02/10 13:33	
Toluene-d8 (S)	%	100	70-130	08/02/10 13:33	

LABORATORY CONTROL SAMPLE: 476771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	51.0	102	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1510	151	70-130	L3
Benzene	ug/L	50	51.9	104	70-130	
Diisopropyl ether	ug/L	50	50.2	100	70-130	
Ethanol	ug/L	2000	2780	139	70-130	L3
Ethyl-tert-butyl ether	ug/L	100	104	104	70-130	
Ethylbenzene	ug/L	50	51.8	104	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	49.5	99	70-130	
Naphthalene	ug/L	50	48.6	97	70-130	
o-Xylene	ug/L	50	52.8	106	70-130	
tert-Amyl Alcohol	ug/L	1000	1310	131	70-130	L3
tert-Amylmethyl ether	ug/L	100	101	101	70-130	
tert-Butyl Alcohol	ug/L	500	789	158	70-130	L3
tert-Butyl Formate	ug/L	400	408	102	70-130	
Toluene	ug/L	50	51.2	102	70-130	
Xylene (Total)	ug/L	150	157	105	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 476772 476773

Parameter	Units	9274552023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	65.5	61.8	131	124	70-130	6	30	M0
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	1640	1570	164	157	70-130	4	30	M0
Benzene	ug/L	ND	50	50	60.3	59.4	121	119	70-130	1	30	
Diisopropyl ether	ug/L	ND	50	50	64.7	61.9	129	124	70-130	4	30	
Ethanol	ug/L	ND	2000	2000	2360	2800	118	140	70-130	17	30	M0
Ethyl-tert-butyl ether	ug/L	ND	100	100	132	127	132	127	70-130	4	30	M0
Ethylbenzene	ug/L	ND	50	50	55.9	55.3	112	111	70-130	1	30	
m&p-Xylene	ug/L	ND	100	100	108	106	108	106	70-130	2	30	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 476772 476773

Parameter	Units	9274552023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methyl-tert-butyl ether	ug/L	ND	50	50	63.2	59.5	126	119	70-130	6	30	
Naphthalene	ug/L	ND	50	50	52.0	53.8	104	108	70-130	3	30	
o-Xylene	ug/L	ND	50	50	55.9	56.0	112	112	70-130	0	30	
tert-Amyl Alcohol	ug/L	ND	1000	1000	1510	1340	151	134	70-130	12	30	M0
tert-Amylmethyl ether	ug/L	ND	100	100	125	120	125	120	70-130	4	30	
tert-Butyl Alcohol	ug/L	ND	500	500	945	848	189	170	70-130	11	30	M0
tert-Butyl Formate	ug/L	ND	400	400	84.0	84.4	21	21	70-130	0	30	P5
Toluene	ug/L	ND	50	50	57.8	57.1	115	114	70-130	1	30	
1,2-Dichloroethane-d4 (S)	%						105	99	70-130			
4-Bromofluorobenzene (S)	%						101	100	70-130			
Dibromofluoromethane (S)	%						104	102	70-130			
Toluene-d8 (S)	%						99	100	70-130			

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

QC Batch: MSV/11756 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates SC

Associated Lab Samples: 9274552001, 9274552002, 9274552003, 9274552004, 9274552005, 9274552006, 9274552007, 9274552008, 9274552009, 9274552010, 9274552011, 9274552012, 9274552013, 9274552014, 9274552015, 9274552016, 9274552017, 9274552018, 9274552019, 9274552020

METHOD BLANK: 476785 Matrix: Water

Associated Lab Samples: 9274552001, 9274552002, 9274552003, 9274552004, 9274552005, 9274552006, 9274552007, 9274552008, 9274552009, 9274552010, 9274552011, 9274552012, 9274552013, 9274552014, 9274552015, 9274552016, 9274552017, 9274552018, 9274552019, 9274552020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	08/01/10 00:12	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	08/01/10 00:12	
Benzene	ug/L	ND	5.0	08/01/10 00:12	
Diisopropyl ether	ug/L	ND	5.0	08/01/10 00:12	
Ethanol	ug/L	ND	200	08/01/10 00:12	
Ethyl-tert-butyl ether	ug/L	ND	10.0	08/01/10 00:12	
Ethylbenzene	ug/L	ND	5.0	08/01/10 00:12	
m&p-Xylene	ug/L	ND	10.0	08/01/10 00:12	
Methyl-tert-butyl ether	ug/L	ND	5.0	08/01/10 00:12	
Naphthalene	ug/L	ND	5.0	08/01/10 00:12	
o-Xylene	ug/L	ND	5.0	08/01/10 00:12	
tert-Amyl Alcohol	ug/L	ND	100	08/01/10 00:12	
tert-Amylmethyl ether	ug/L	ND	10.0	08/01/10 00:12	
tert-Butyl Alcohol	ug/L	ND	100	08/01/10 00:12	
tert-Butyl Formate	ug/L	ND	50.0	08/01/10 00:12	
Toluene	ug/L	ND	5.0	08/01/10 00:12	
Xylene (Total)	ug/L	ND	10.0	08/01/10 00:12	
1,2-Dichloroethane-d4 (S)	%	104	70-130	08/01/10 00:12	
4-Bromofluorobenzene (S)	%	97	70-130	08/01/10 00:12	
Dibromofluoromethane (S)	%	103	70-130	08/01/10 00:12	
Toluene-d8 (S)	%	100	70-130	08/01/10 00:12	

METHOD BLANK: 477959 Matrix: Water

Associated Lab Samples: 9274552001, 9274552002, 9274552003, 9274552004, 9274552005, 9274552006, 9274552007, 9274552008, 9274552009, 9274552010, 9274552011, 9274552012, 9274552013, 9274552014, 9274552015, 9274552016, 9274552017, 9274552018, 9274552019, 9274552020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	08/03/10 14:03	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	08/03/10 14:03	
Benzene	ug/L	ND	5.0	08/03/10 14:03	
Diisopropyl ether	ug/L	ND	5.0	08/03/10 14:03	
Ethanol	ug/L	ND	200	08/03/10 14:03	
Ethyl-tert-butyl ether	ug/L	ND	10.0	08/03/10 14:03	
Ethylbenzene	ug/L	ND	5.0	08/03/10 14:03	
m&p-Xylene	ug/L	ND	10.0	08/03/10 14:03	
Methyl-tert-butyl ether	ug/L	ND	5.0	08/03/10 14:03	
Naphthalene	ug/L	ND	5.0	08/03/10 14:03	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

METHOD BLANK: 477959 Matrix: Water

Associated Lab Samples: 9274552001, 9274552002, 9274552003, 9274552004, 9274552005, 9274552006, 9274552007, 9274552008, 9274552009, 9274552010, 9274552011, 9274552012, 9274552013, 9274552014, 9274552015, 9274552016, 9274552017, 9274552018, 9274552019, 9274552020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
o-Xylene	ug/L	ND	5.0	08/03/10 14:03	
tert-Amyl Alcohol	ug/L	ND	100	08/03/10 14:03	
tert-Amylmethyl ether	ug/L	ND	10.0	08/03/10 14:03	
tert-Butyl Alcohol	ug/L	ND	100	08/03/10 14:03	
tert-Butyl Formate	ug/L	ND	50.0	08/03/10 14:03	
Toluene	ug/L	ND	5.0	08/03/10 14:03	
Xylene (Total)	ug/L	ND	10.0	08/03/10 14:03	
1,2-Dichloroethane-d4 (S)	%	97	70-130	08/03/10 14:03	
4-Bromofluorobenzene (S)	%	97	70-130	08/03/10 14:03	
Dibromofluoromethane (S)	%	98	70-130	08/03/10 14:03	
Toluene-d8 (S)	%	98	70-130	08/03/10 14:03	

METHOD BLANK: 478287 Matrix: Water

Associated Lab Samples: 9274552001, 9274552002, 9274552003, 9274552004, 9274552005, 9274552006, 9274552007, 9274552008, 9274552009, 9274552010, 9274552011, 9274552012, 9274552013, 9274552014, 9274552015, 9274552016, 9274552017, 9274552018, 9274552019, 9274552020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	08/02/10 13:33	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	08/02/10 13:33	
Benzene	ug/L	ND	5.0	08/02/10 13:33	
Diisopropyl ether	ug/L	ND	5.0	08/02/10 13:33	
Ethanol	ug/L	ND	200	08/02/10 13:33	
Ethyl-tert-butyl ether	ug/L	ND	10.0	08/02/10 13:33	
Ethylbenzene	ug/L	ND	5.0	08/02/10 13:33	
m&p-Xylene	ug/L	ND	10.0	08/02/10 13:33	
Methyl-tert-butyl ether	ug/L	ND	5.0	08/02/10 13:33	
Naphthalene	ug/L	ND	5.0	08/02/10 13:33	
o-Xylene	ug/L	ND	5.0	08/02/10 13:33	
tert-Amyl Alcohol	ug/L	ND	100	08/02/10 13:33	
tert-Amylmethyl ether	ug/L	ND	10.0	08/02/10 13:33	
tert-Butyl Alcohol	ug/L	ND	100	08/02/10 13:33	
tert-Butyl Formate	ug/L	ND	50.0	08/02/10 13:33	
Toluene	ug/L	ND	5.0	08/02/10 13:33	
Xylene (Total)	ug/L	ND	10.0	08/02/10 13:33	
1,2-Dichloroethane-d4 (S)	%	100	70-130	08/02/10 13:33	
4-Bromofluorobenzene (S)	%	95	70-130	08/02/10 13:33	
Dibromofluoromethane (S)	%	104	70-130	08/02/10 13:33	
Toluene-d8 (S)	%	100	70-130	08/02/10 13:33	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

LABORATORY CONTROL SAMPLE: 476786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.1	100	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1300	130	70-130	
Benzene	ug/L	50	50.8	102	70-130	
Diisopropyl ether	ug/L	50	49.4	99	70-130	
Ethanol	ug/L	2000	2620	131	70-130	L3
Ethyl-tert-butyl ether	ug/L	100	101	101	70-130	
Ethylbenzene	ug/L	50	50.1	100	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	48.2	96	70-130	
Naphthalene	ug/L	50	44.4	89	70-130	
o-Xylene	ug/L	50	51.2	102	70-130	
tert-Amyl Alcohol	ug/L	1000	1140	114	70-130	
tert-Amylmethyl ether	ug/L	100	98.5	98	70-130	
tert-Butyl Alcohol	ug/L	500	653	131	70-130	L3
tert-Butyl Formate	ug/L	400	409	102	70-130	
Toluene	ug/L	50	49.9	100	70-130	
Xylene (Total)	ug/L	150	152	102	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 476787 476788

Parameter	Units	9274552009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	55.1	54.0	110	108	70-130	2	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	1390	1410	139	141	70-130	2	30	M0
Benzene	ug/L	ND	50	50	55.0	55.1	110	110	70-130	0	30	
Diisopropyl ether	ug/L	ND	50	50	54.1	53.1	108	106	70-130	2	30	
Ethanol	ug/L	ND	2000	2000	2010	2470	100	124	70-130	21	30	
Ethyl-tert-butyl ether	ug/L	ND	100	100	110	108	110	108	70-130	1	30	
Ethylbenzene	ug/L	ND	50	50	52.7	51.5	105	103	70-130	2	30	
m&p-Xylene	ug/L	ND	100	100	101	98.8	101	98	70-130	3	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	53.6	52.5	107	105	70-130	2	30	
Naphthalene	ug/L	ND	50	50	46.4	47.4	93	95	70-130	2	30	
o-Xylene	ug/L	ND	50	50	52.4	50.8	104	101	70-130	3	30	
tert-Amyl Alcohol	ug/L	ND	1000	1000	1330	1200	133	120	70-130	11	30	M0
tert-Amylmethyl ether	ug/L	ND	100	100	107	105	107	105	70-130	2	30	
tert-Butyl Alcohol	ug/L	ND	500	500	793	791	159	158	70-130	0	30	M0
tert-Butyl Formate	ug/L	ND	400	400	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	ND	50	50	53.8	53.7	105	105	70-130	0	30	
1,2-Dichloroethane-d4 (S)	%						99	98	70-130			
4-Bromofluorobenzene (S)	%						101	101	70-130			
Dibromofluoromethane (S)	%						100	99	70-130			
Toluene-d8 (S)	%						100	102	70-130			

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: McGILL GROCERY 10-2730
Pace Project No.: 9274552

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 3

1357473

Section A Required Client Information:

Company:	MECI
Address:	235-B Dooley Rd. Lexington, SC 29073
Email To:	WCM@meci.net
Phone:	803-808-2043 Fax: 803-808-2048
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	B. Shane
Copy To:	
Purchase Order No.:	
Project Name:	McGill Grocery
Project Number:	10-2730

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	R. Spencer
Pace Profile #:	836-5

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Btex, napth, Mtbt, 8260B	1,2 DCA 8-OXY	8011 EDB	Total Lead	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G			7/28	11:40		7			1	6						X	X	X	X		001
2	MW-2						11:50																	002
3	MW-3						11:20																	003
4	MW-4						12:00																	004
5	MW-5						12:20																	005
6	MW-6						11:55																	006
7	MW-7						14:00																	007
8	MW-8						13:50																	008
9	MW-9						13:45																	009
10	MW-10						12:15																	010
11	MW-11						14:00																	011
12	MW-12	WT	G			7/28	14:50		7			1	6						X	X	X	X		012

9274552

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Please report "J"	[signature]	7-30-10	10:18	[signature] / Pace	7-30-10	10:18				
Values	[signature] / Pace	7-30-	1420	[signature]	7/30/10	14:20	1.2	yes	no	yes

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Logan McConahey

SIGNATURE of SAMPLER: Logan McConahey

DATE Signed (MM/DD/YY): 07/28/10

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 3

1379088

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: MECI	Report To: B. Shane	Attention:
Address: 235-B Dooley Rd. Lexington. SC 29073	Copy To:	Company Name:
		Address:
Email To: wcn@meci.net	Purchase Order No.:	Pace Quote Reference:
Phone: 803-808-2043 Fax: 803-808-2048	Project Name: McGill Grocery	Pace Project Manager: R. Spencer
Requested Due Date/TAT:	Project Number: 10-2730	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Aftex.napth.mtbe,8260B	1,2 DCA, 8-OXY	8011 EDB	Total Lead	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-13	WT	G			7/28	15:20		7			1	6						X	X	X	X		013
2	MW-14						14:35																	014
3	MW-15						16:05																	015
4	MW-16						15:35																	016
5	MW-17						15:55																	017
6	MW-18						16:20																	018
7	MW-19 D						12:05																	019
8	MW-20 D						11:40																	020
9	MW-21 D						13:10																	021
10	MW-22 D						15:10																	022
11	MW-23 D						16:10																	023
12	MW-24 D	WT	G			7/28	16:25		7			1	6						X	X	X	X		024

9274552

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Please report "J"	[signature]	7-30-10	10:18	[signature] Pace	7-30-10	10:18	
Values	[signature]	7-30	1420	[signature]	7/30/10	19:20	1.2 yes no yes

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Logan McConahey

SIGNATURE of SAMPLER: Logan McConahey

DATE Signed (MM/DD/YY): 07/28/10

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 3 of 3

1379089

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: MECI	Report To: B. Shane	Attention:
Address: 235-B Dooley Rd. Lexington, SC 29073	Copy To:	Company Name:
		Address:
Email To: wcm@meci.net	Purchase Order No.:	Pace Quote Reference:
Phone: 803-808-2043 Fax: 803-808-2048	Project Name: McGill Grocery	Pace Project Manager: R. Spencer
Requested Due Date/TAT:	Project Number: 10-2730	Pace Profile #:

REGULATORY AGENCY

- [ ] NPDES
- [ ] GROUND WATER
- [ ] DRINKING WATER
- [x] UST
- [ ] RCRA
- [ ] OTHER

Site Location STATE: SC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Btex, napth, mtbe, 8260B	8011 EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WSW-1	WT	G			7/28	16:30		6				6						X	X		Behind Fire station
2	WSW-2						17:15															Dug well/concrete lid
3	WSW-3/WSW-7						16:40															2801 Lake Sucession Rd.
4	WSW-4						17:00															Hose off of house
5	WSW-5						17:05															spigot under can by shed
6	WSW-6						16:35															2784 Lake sucession Rd.
7	WSW-8						16:47															well shed in front yard
8	WSW-9	WT	G			7/28	15:30		6				6						X	X		Dug well/concrete lid
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Please report "5"	[signature]	7-30-10	10:18	[signature] Pace	7-30-10	10:18				
Values	[signature] Pace	7-30	1420	[signature] Pace	7/30/10	14:20	1.2	yes	no	yes

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Logan McConahey

SIGNATURE of SAMPLER: Logan McConahey

DATE Signed (MM/DD/YY): 07/28/10

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

APPENDIX C
INFLOW TEST CALCULATIONS

SUMMARY of SLUG TEST (Page 1 of 2)

SOUTH CAROLINA
Department of Health and Environmental Control (DHEC)

Site Data

SITE ID # 19440 COUNTY Abbeville

FACILITY NAME McGill Grocery

SLUG DATA

See Appendix _____ Table _____ Figure _____ for a list of all data measurements.
(water level logs, etc.)(Complete as appropriate).
Water Level Recovery Data was measured by Interface Probe .
(Hermit Data Logger, Manually with Water Level Indicator, etc.)(List Method)
Complete the following table for each well tested.
COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED

Slug Test Conducted in well(s) number	MW-11	MW-13	MW-22D	
Initial Rise/Drawdown in well (feet)	1.08	0.85	0.81	
Radius of well casing (feet)	0.083	0.083	0.083	
Effective Radius of Well (feet)	0.33	0.33	0.33	
Static Saturated Aquifer Thickness (feet)	6.94	5.75	44.78	
Length of Well Screen (feet)	10	10	5	
Static Height of Water Column in Well (ft)	6.94	5.75	44.78	

Calculations

See Appendix _____ Table _____ Figure _____ for calculations
The method for aquifer calculations was NAVFAC
Calculated values by well were as follows:

Slug Test Conducted in Well(s) number	MW-11	MW-13	MW-22D	
Hydraulic Conductivity	2.47E-05	2.35E-05	2.34E-04	cm/sec

Thickness of the aquifer used to calculate hydraulic conductivity was N/A feet.
The aquifer is _____ confined _____ semi-confined _____ water table (Check as Appropriate).
SEE SHEET 3
The estimated seepage velocity is 1.73 feet per year based on a hydraulic conductivity of
2.41E-05 cm/sec, a hydraulic gradient of 1.74E-02 ft/ft, and a porosity of 25
percent for Silty SAND soil.

SUMMARY of SLUG TEST

Groundwater Seepage Velocity Calculations (Page 2 of 2)

SOUTH CAROLINA
Department of Health and Environmental Control (DHEC)

Site Data

SITE ID # 19440 COUNTY Abbeville

FACILITY NAME McGill Grocery

Hydraulic Conductivity (average)

Hydraulic Conductivity Average = 2.41E-05 cm/sec
(MW-11 & MW-13)

6.83E-02 ft./day

4.74E-05 ft./min

Groundwater Seepage Velocity

V = (Ki)/(Ne)
(ft./day)

* Enter Values in Shaded Areas Only

where:

K = Hydraulic Conductivity (ft./day)
I = Hydraulic Gradient (ft./ft.)
Ne = Effective Permeability

K = 6.83E-02 ft./day
I = 1.74E-02 ft./ft.
Ne = 0.25

V = **4.8E-03** ft./day **1.73** ft./year

Groundwater Seepage Velocity Calculations

Inflow Permeability Calculation

McGill Grocery

Test Performed: 7/28/2010

MW-11

Type II (Uncased Well)

Static: 43.06 ft

*Enter Values in Shaded Areas Only

Time (min)	Depth	delta H	Ht/Ho
0.25	44.14	1.08	1.00
0.50	44.09	1.03	0.95
0.75	44.07	1.01	0.94
1.00	44.03	0.97	0.90
1.25	43.99	0.93	0.86
1.50	43.95	0.89	0.82
1.75	43.93	0.87	0.81
2.00	43.92	0.86	0.80
3.00	43.81	0.75	0.69
4.00	43.74	0.68	0.63
5.00	43.68	0.62	0.57
6.00	43.62	0.56	0.52
7.00	43.55	0.49	0.45
8.00	43.51	0.45	0.42
9.00	43.49	0.43	0.40
11.00	43.43	0.37	0.34
13.00	43.37	0.31	0.29
15.00	43.33	0.27	0.25
17.00	43.30	0.24	0.22
22.00	43.25	0.19	0.18
27.00	43.20	0.14	0.13

Information from data and plot of Ht/Ho vs time

Bore Hole Diameter:	6.0	in
Total Depth of Well:	50	ft
Stand Pipe Area:	28.27	in^2
	0.20	ft^2

Coordinates from Graph for Slope Calc:

H1/Ho:	0.25	
t1:	15.00	min
H2/Ho:	0.18	
t2:	22.00	min

H1:	0.27	H2:	0.19
t1:	15.00	t2:	22.00
Radius	R:	3.00	in
Radius	R:	0.25	ft
Depth	D:	6.94	ft
	R/D:	0.036	
	D/R:	27.76	

Shape Factor Determination Value: 0.966542 *

*This value is used in conjunction with

Figure 13 of Reference [1] to obtain the shape factor.

Shape Factor S: 0.5

Coeff. of Permeability (K):

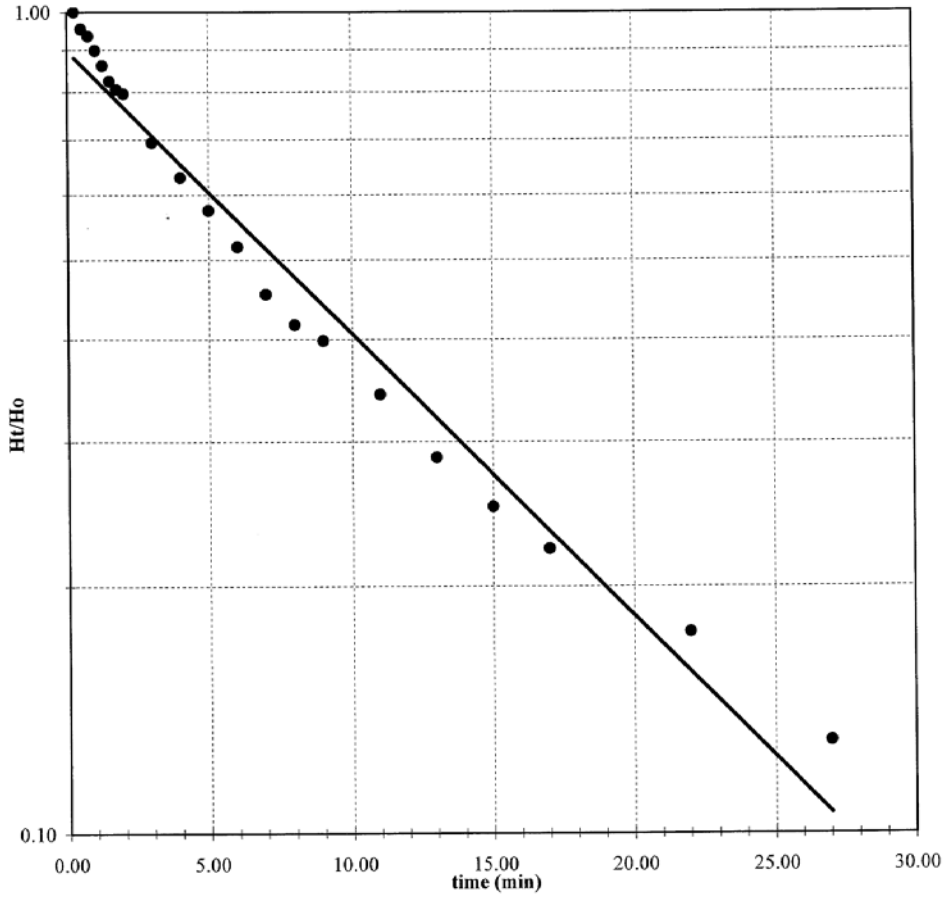
4.86E-05 ft/min

7.00E-02 ft/day

2.47E-05 cm/sec

Inflow for Condition A Well MW-11.xls

Ref [1]: Naval Fac. Engr. Command, Design Manual 7.01, soil Mechanics, Condition A.



Midlands
Environmental
Consultants, Inc.
235-B Dooley Road, Lexington, SC 29073
(803) 808-2043 fax: 808-2048

Inflow Permeability Calculation

McGill Grocery

Test Performed: 7/28/2010

MW-13

Type II (Uncased Well)

Static: 54.25 ft

*Enter Values in Shaded Areas Only

Time (min)	Depth	delta H	Ht/Ho
0.25	55.10	0.85	1.00
0.50	55.08	0.83	0.98
0.75	55.06	0.81	0.95
1.00	55.04	0.79	0.93
1.25	55.00	0.75	0.88
1.50	55.00	0.75	0.88
1.75	54.99	0.74	0.87
2.00	54.99	0.74	0.87
4.00	54.93	0.68	0.80
6.00	54.88	0.63	0.74
10.00	54.80	0.55	0.65
14.00	54.75	0.50	0.59
18.00	54.70	0.45	0.53
22.00	54.66	0.41	0.48
28.00	54.61	0.36	0.42
34.00	54.56	0.31	0.36
40.00	54.52	0.27	0.32
46.00	54.48	0.23	0.27
52.00	54.42	0.17	0.20
58.00	54.39	0.14	0.16
60.00	54.37	0.12	0.14

Information from data and plot of Ht/Ho vs time

Bore Hole Diameter:	6.0	in
Total Depth of Well:	60	ft
Stand Pipe Area:	28.27	in^2
	0.20	ft^2

Coordinates from Graph for Slope Calc:

H1/Ho:	0.25	
t1:	15.00	min
H2/Ho:	0.18	
t2:	22.00	min

H1:	0.21	H2:	0.15
t1:	15.00	t2:	22.00

Radius	R:	3.00	in
Radius	R:	0.25	ft
Depth	D:	5.75	ft
	R/D:	0.043	
	D/R:	23.00	

Shape Factor Determination Value: 0.968217 *

*This value is used in conjunction with

Figure 13 of Reference [1] to obtain the shape factor.

Shape Factor S: 0.5

Coeff. of Permeability (K):

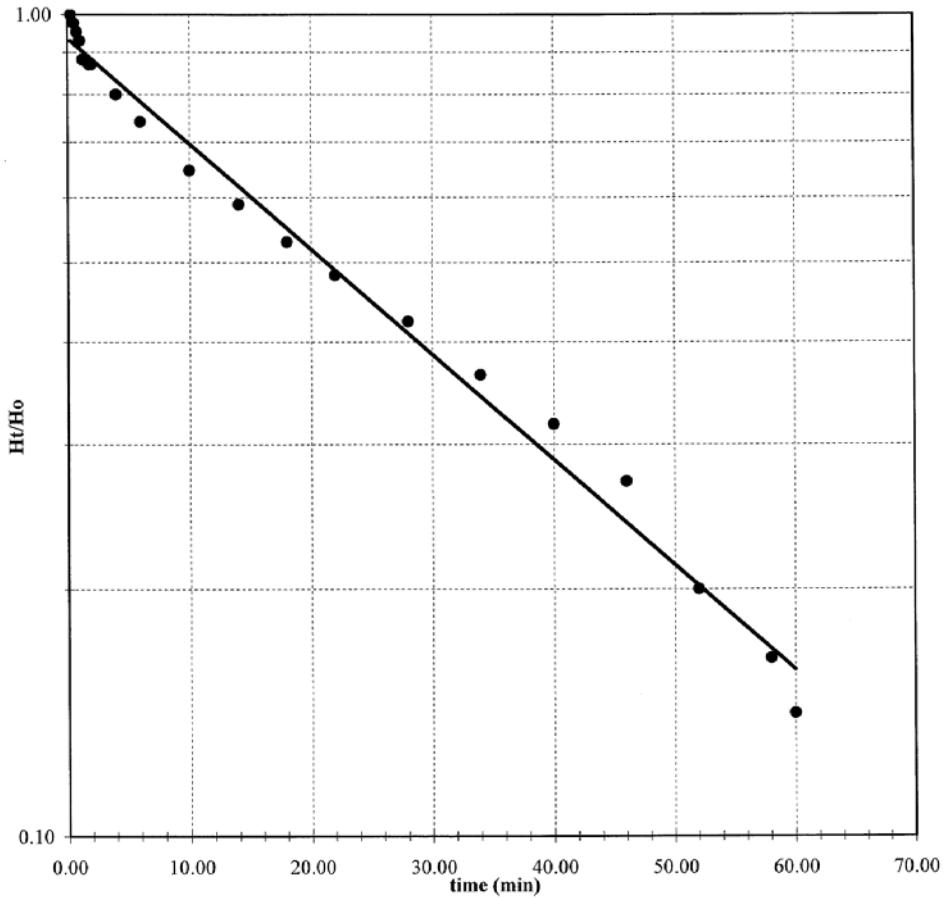
4.62E-05 ft/min

6.65E-02 ft/day

2.35E-05 cm/sec

Inflow for Condition A Well MW-13.xls

Ref [1]: Naval Fac. Engr. Command, Design Manual 7.01, soil Mechanics, Condition A.



Midlands
Environmental
Consultants, Inc.
235-B Dooley Road, Lexington, SC 29073
(803) 808-2043 fax: 808-2048

Inflow Permeability Calculation

McGill Grocery

Test Performed: 8/9/2010

MW-22D

Static: 55.22 ft

*Enter Values in Shaded Areas Only

Time (min)	Depth	delta H	H_t/H_o
0.25	56.03	0.81	1.00
0.50	55.95	0.73	0.90
0.75	55.87	0.65	0.80
1.00	55.82	0.60	0.74
1.25	55.77	0.55	0.68
1.50	55.72	0.50	0.62
1.75	55.67	0.45	0.56
2.00	55.63	0.41	0.51
3.00	55.50	0.28	0.35
4.00	55.43	0.21	0.26
5.00	55.37	0.15	0.19
6.00	55.33	0.11	0.14

Information from data and plot of Ht/H0 vs time

Diameter of Intake:	4	in
Length of Intake (L):	7	ft
Diameter of Standpipe:	2	in

* Formation Data Taken From SCDHEC Files

Coordinates from Graph for Slope Calc:

H_1/H_o:	0.35	
t_1:	3.00	min
H_2/H_o:	0.19	
t_2:	5.00	min

H_1:	0.28	H_2:	0.15
t_1:	3.00	t_2:	5.00

Intake Radius:	4.00	in
Intake Radius (rint):	0.33	ft
Standpipe Radius:	1.00	in
Standpipe Radius (rsp):	0.083	ft

Calc1=	0.000496	$(rsp^2)/2L$
Calc2=	3.044522	ln(L/rint)
Calc3=	0.610909	$\ln(H_1/H_2)$
Calc4=	2	(t_2-t_1)

K=Calc1*Calc2*(Calc3/Calc4)

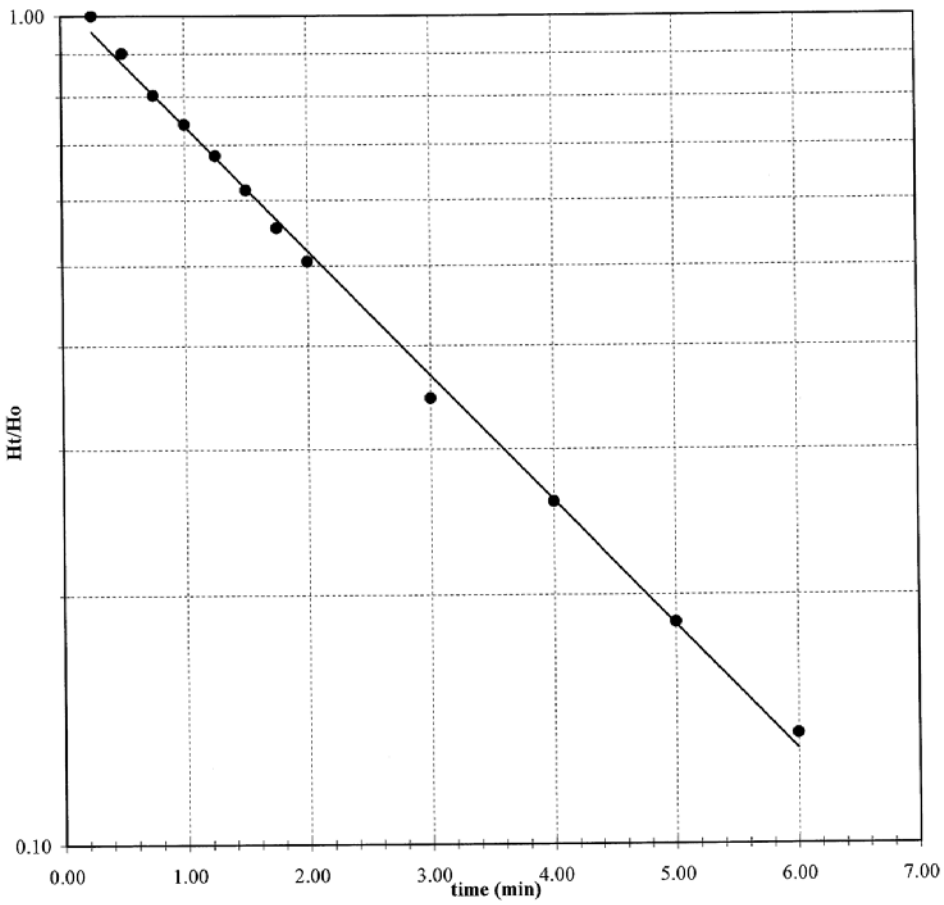
Coeff. of Permeability (K):

4.61E-04 ft/min

6.64E-01 ft/day

2.34E-04 cm/sec

Naval Fac. Engr. Command, Design Manuel 7.01, Soil Mechanics: Condition C



Midlands
Environmental
Consultants, Inc.
235-B Dooley Road, Lexington, SC 29073
(803) 808-2043 Fax: 808-2048

APPENDIX D
FIELD DATA INFORMATION SHEETS

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 7/28/2010

Field Personnel: Brian O., Alex W., and Logan M.

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-5

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	36.59			feet
Total Well Depth (TWD)	45			feet
Length of the water column (LWC=TWD-DGW)			8.41	feet
1 casing volume (CV=LWC X C)= _____ X		0.163	1.37	gallons
3 casing volume (3 X CV)=		3	4.11	gallons

Total Volume of Water Purged Before Sampling 1 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	12:20	12:25						
pH (s.u.)	6.89	6.82						
Specific Conductivity (µmhos/cm)	59.9	47.2						
Water Temperature (°C)	19.0	19.4						
Dissolved Oxygen	4.80	5.10						
PID readings, if required								

Remarks: Sample Time: 12:25 Dry at 1 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 7/28/2010

Field Personnel: Brian O., Alex W., and Logan M.

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-6

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	40.27			feet
Total Well Depth (TWD)	53			feet
Length of the water column (LWC=TWD-DGW)			12.73	feet
1 casing volume (CV=LWC X C)= _____ X		0.163	2.07	gallons
3 casing volume (3 X CV)=		3	6.22	gallons

Total Volume of Water Purged Before Sampling 3 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	11:55	12:00						
pH (s.u.)	5.30	5.15						
Specific Conductivity (µmhos/cm)	116.0	182.5						
Water Temperature (°C)	19.3	19.2						
Dissolved Oxygen	6.34	6.79						
PID readings, if required								

Remarks: Sample Time: 12:00 Dry at 3 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 7/28/2010

Field Personnel: Brian O., Alex W., and Logan M.

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-7

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	41.42			feet
Total Well Depth (TWD)	50			feet
Length of the water column (LWC=TWD-DGW)			8.58	feet
1 casing volume (CV=LWC X C)= _____ X		0.163	1.40	gallons
3 casing volume (3 X CV)=		3	4.20	gallons

Total Volume of Water Purged Before Sampling 2 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	14:00	14:05						
pH (s.u.)	6.87	6.74						
Specific Conductivity (µmhos/cm)	65.6	111.2						
Water Temperature (°C)	19.6	19.6						
Dissolved Oxygen	6.15	6.21						
PID readings, if required								

Remarks: Sample Time: 14:05 Dry at 2 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 7/28/2010

Field Personnel: Brian O., Alex W., and Logan M.

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-8

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	45.64			feet
Total Well Depth (TWD)	49			feet
Length of the water column (LWC=TWD-DGW)			3.36	feet
1 casing volume (CV=LWC X C)= _____ X		0.163	0.55	gallons
3 casing volume (3 X CV)=		3	1.64	gallons

Total Volume of Water Purged Before Sampling 1 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	13:50	13:55						
pH (s.u.)	7.94	7.66						
Specific Conductivity (µmhos/cm)	132.5	126.6						
Water Temperature (°C)	19.3	19.5						
Dissolved Oxygen	3.25	3.58						
PID readings, if required								

Remarks: Sample Time: 13:55 Dry at 1 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 7/28/2010

Field Personnel: Brian O., Alex W., and Logan M.

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-9

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	43.81			feet
Total Well Depth (TWD)	51			feet
Length of the water column (LWC=TWD-DGW)			7.19	feet
1 casing volume (CV=LWC X C)= _____ X		0.163	1.17	gallons
3 casing volume (3 X CV)=		3	3.52	gallons

Total Volume of Water Purged Before Sampling 1.5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	13:45	13:50						
pH (s.u.)	8.44	8.16						
Specific Conductivity (µmhos/cm)	186.9	173.6						
Water Temperature (°C)	21.4	19.6						
Dissolved Oxygen	5.76	6.59						
PID readings, if required								

Remarks: Sample Time: 13:50 Dry at 1.5 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 7/28/2010

Field Personnel: Brian O., Alex W., and Logan M.

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-10

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	42.82			feet
Total Well Depth (TWD)	50			feet
Length of the water column (LWC=TWD-DGW)			7.18	feet
1 casing volume (CV=LWC X C)= _____ X		0.163	1.17	gallons
3 casing volume (3 X CV)=		3	3.51	gallons

Total Volume of Water Purged Before Sampling 1 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	12:15	12:20						
pH (s.u.)	7.60	7.08						
Specific Conductivity (µmhos/cm)	182.7	207.7						
Water Temperature (°C)	19.9	18.4						
Dissolved Oxygen	7.00	6.33						
PID readings, if required								

Remarks: Sample Time: 12:20 Dry at 1 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 7/28/2010

Field Personnel: Brian O., Alex W., and Logan M.

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-11

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	43.08			feet
Total Well Depth (TWD)	50			feet
Length of the water column (LWC=TWD-DGW)			6.92	feet
1 casing volume (CV=LWC X C)=		X 0.163	1.13	gallons
3 casing volume (3 X CV)=		3	3.38	gallons

Total Volume of Water Purged Before Sampling 2 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	14:00	14:05						
pH (s.u.)	7.61	7.14						
Specific Conductivity (µmhos/cm)	182.1	172.8						
Water Temperature (℃)	20.3	19.1						
Dissolved Oxygen	2.36	2.83						
PID readings, if required								

Remarks: Sample Time: 14:05 Dry at 2 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 7/28/2010

Field Personnel: Brian O., Alex W., and Logan M.

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-12

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	54.15			feet
Total Well Depth (TWD)	60			feet
Length of the water column (LWC=TWD-DGW)			5.85	feet
1 casing volume (CV=LWC X C)= _____ X		0.163	0.95	gallons
3 casing volume (3 X CV)=		3	2.86	gallons

Total Volume of Water Purged Before Sampling 1.5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	14:50	14:55						
pH (s.u.)	6.03	5.93						
Specific Conductivity (µmhos/cm)	445.1	436.1						
Water Temperature (°C)	20.8	18.8						
Dissolved Oxygen	5.80	6.46						
PID readings, if required								

Remarks: Sample Time: 14:55 Dry at 1.5 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 7/28/2010

Field Personnel: Brian O., Alex W., and Logan M.

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-13

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	54.25			feet
Total Well Depth (TWD)	60			feet
Length of the water column (LWC=TWD-DGW)			5.75	feet
1 casing volume (CV=LWC X C)=	X	0.163	0.94	gallons
3 casing volume (3 X CV)=		3	2.81	gallons

Total Volume of Water Purged Before Sampling 2 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	15:20	15:25						
pH (s.u.)	8.81	8.16						
Specific Conductivity (µmhos/cm)	434.3	388.9						
Water Temperature (°C)	19.8	18.8						
Dissolved Oxygen	6.54	6.85						
PID readings, if required								

Remarks: Sample Time: 15:25 Dry at 2 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 7/28/2010

Field Personnel: Brian O., Alex W., and Logan M.

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-14

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	46.59			feet
Total Well Depth (TWD)	59			feet
Length of the water column (LWC=TWD-DGW)			12.41	feet
1 casing volume (CV=LWC X C)= _____ X		0.163	2.02	gallons
3 casing volume (3 X CV)=		3	6.07	gallons

Total Volume of Water Purged Before Sampling 1.5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	14:35	14:40						
pH (s.u.)	6.93	6.47						
Specific Conductivity (µmhos/cm)	77.8	50.8						
Water Temperature (°C)	20.2	18.3						
Dissolved Oxygen	6.10	7.43						
PID readings, if required								

Remarks: Sample Time: 14:40 Dry at 1.5 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 7/28/2010

Field Personnel: Brian O., Alex W., and Logan M.

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-15

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	47.85			feet
Total Well Depth (TWD)	55			feet
Length of the water column (LWC=TWD-DGW)			7.15	feet
1 casing volume (CV=LWC X C)=		X 0.163	1.17	gallons
3 casing volume (3 X CV)=		3	3.50	gallons

Total Volume of Water Purged Before Sampling 2 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	16:05	16:10						
pH (s.u.)	7.12	6.98						
Specific Conductivity (µmhos/cm)	70.3	51.2						
Water Temperature (°C)	18.5	18.3						
Dissolved Oxygen	6.75	7.65						
PID readings, if required								

Remarks: Sample Time: 16:10 Dry at 2 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 7/28/2010

Field Personnel: Brian O., Alex W., and Logan M.

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-16

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	46.13			feet
Total Well Depth (TWD)	55			feet
Length of the water column (LWC=TWD-DGW)			8.87	feet
1 casing volume (CV=LWC X C)= _____ X		0.163	1.45	gallons
3 casing volume (3 X CV)=		3	4.34	gallons

Total Volume of Water Purged Before Sampling 3 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	15:55	16:00						
pH (s.u.)	7.76	7.49						
Specific Conductivity (µmhos/cm)	61.2	56.7						
Water Temperature (°C)	19.5	19.6						
Dissolved Oxygen	6.31	6.46						
PID readings, if required								

Remarks: Sample Time: 16:00 Dry at 3 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 7/28/2010

Field Personnel: Brian O., Alex W., and Logan M.

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-17

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	46.13			feet
Total Well Depth (TWD)	55			feet
Length of the water column (LWC=TWD-DGW)			8.87	feet
1 casing volume (CV=LWC X C)= _____ X		0.163	1.45	gallons
3 casing volume (3 X CV)=		3	4.34	gallons

Total Volume of Water Purged Before Sampling 1.5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	15:55	16:00						
pH (s.u.)	8.72	8.10						
Specific Conductivity (µmhos/cm)	103.5	53.9						
Water Temperature (°C)	22.5	19.9						
Dissolved Oxygen	5.99	6.35						
PID readings, if required								

Remarks: Sample Time: 16:00 Dry at 1.5 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 7/28/2010

Field Personnel: Brian O., Alex W., and Logan M.

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time

Received by Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-18

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	35.99			feet
Total Well Depth (TWD)	45			feet
Length of the water column (LWC=TWD-DGW)			9.01	feet
1 casing volume (CV=LWC X C)= _____ X		0.163	1.47	gallons
3 casing volume (3 X CV)=		3	4.41	gallons

Total Volume of Water Purged Before Sampling 3 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	16:20	16:25						
pH (s.u.)	7.62	7.53						
Specific Conductivity (µmhos/cm)	48.2	42.9						
Water Temperature (°C)	21.9	20.2						
Dissolved Oxygen	6.31	6.92						
PID readings, if required								

Remarks: Sample Time: 16:25 Dry at 3 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 7/28/2010

Field Personnel: Brian O., Alex W., and Logan M.

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-19D

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	43.52			feet
Total Well Depth (TWD)	70			feet
Length of the water column (LWC=TWD-DGW)			26.48	feet
1 casing volume (CV=LWC X C)= _____ X		0.163	4.32	gallons
3 casing volume (3 X CV)=		3	12.95	gallons

Total Volume of Water Purged Before Sampling 8 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	12:05	12:10						
pH (s.u.)	5.79	6.21						
Specific Conductivity (µmhos/cm)	430.0	430.6						
Water Temperature (°C)	20.6	19.8.						
Dissolved Oxygen	4.77	5.67						
PID readings, if required								

Remarks: Sample Time: 12:10 Dry at 8 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 7/28/2010

Field Personnel: Brian O., Alex W., and Logan M.

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-20D

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	45.13			feet
Total Well Depth (TWD)	67			feet
Length of the water column (LWC=TWD-DGW)			21.87	feet
1 casing volume (CV=LWC X C)=		X 0.163	3.56	gallons
3 casing volume (3 X CV)=		3	10.69	gallons

Total Volume of Water Purged Before Sampling 5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	11:40	11:45						
pH (s.u.)	9.37	9.51						
Specific Conductivity (µmhos/cm)	1,937	1,123						
Water Temperature (°C)	21.4	19.4						
Dissolved Oxygen	5.06	6.47						
PID readings, if required								

Remarks: Sample Time: 11:45 Dry at 5 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 7/28/2010

Field Personnel: Brian O., Alex W., and Logan M.

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-21D

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	43.11			feet
Total Well Depth (TWD)	83			feet
Length of the water column (LWC=TWD-DGW)			39.89	feet
1 casing volume (CV=LWC X C)= _____ X		0.163	6.50	gallons
3 casing volume (3 X CV)=		3	19.51	gallons

Total Volume of Water Purged Before Sampling 6 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	13:10	13:15						
pH (s.u.)	7.84	8.13						
Specific Conductivity (µmhos/cm)	249.4	284.9						
Water Temperature (°C)	22.3	20.5						
Dissolved Oxygen	5.21	3.95						
PID readings, if required								

Remarks: Sample Time: 13:15 Dry at 6 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 7/28/2010

Field Personnel: Brian O., Alex W., and Logan M.

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-22D

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	55.03			feet
Total Well Depth (TWD)	100			feet
Length of the water column (LWC=TWD-DGW)			44.97	feet
1 casing volume (CV=LWC X C)= _____ X		0.163	7.33	gallons
3 casing volume (3 X CV)=		3	21.99	gallons

Total Volume of Water Purged Before Sampling 14 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	15:10	15:15	15:20					
pH (s.u.)	8.78	9.68	9.61					
Specific Conductivity (µmhos/cm)	1,956	1,889	1,311					
Water Temperature (°C)	20.1	19.8	19.1					
Dissolved Oxygen	5.01	5.16	5.49					
PID readings, if required								

Remarks: Sample Time: 15:20 Dry at 14 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 7/28/2010

Field Personnel: Brian O., Alex W., and Logan M.

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time

Received by Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-23D

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	50.35			feet
Total Well Depth (TWD)	100			feet
Length of the water column (LWC=TWD-DGW)			49.65	feet
1 casing volume (CV=LWC X C)=	_____ X	0.163	8.09	gallons
3 casing volume (3 X CV)=		3	24.28	gallons

Total Volume of Water Purged Before Sampling 17 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	16:10	16:15	16:20					
pH (s.u.)	6.61	6.60	7.02					
Specific Conductivity (µmhos/cm)	92.5	75.0	71.8					
Water Temperature (°C)	20.0	19.6	18.6					
Dissolved Oxygen	3.83	4.38	5.11					
PID readings, if required								

Remarks: Sample Time: 16:20 Dry at 17 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 7/28/2010

Field Personnel: Brian O., Alex W., and Logan M.

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time

Received by Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-24D

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	36.79			feet
Total Well Depth (TWD)	75			feet
Length of the water column (LWC=TWD-DGW)			38.21	feet
1 casing volume (CV=LWC X C)= _____ X		0.163	6.23	gallons
3 casing volume (3 X CV)=		3	18.68	gallons

Total Volume of Water Purged Before Sampling 19 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	16:25	16:30	16:35					
pH (s.u.)	6.91	6.87	6.85					
Specific Conductivity (µmhos/cm)	77.6	84.9	73.6					
Water Temperature (°C)	20.6	21.5	21.1					
Dissolved Oxygen	4.08	3.92	5.60					
PID readings, if required								

Remarks: Sample Time: 16:35

WASTE DISPOSAL MANIFESTS

Midlands Environmental Consultants, Inc.

August 9, 2010

Re: Treatment of Purge Water
McGill Grocery
Iva, South Carolina
SCDHEC Site ID Number 19440
MECI Project Number 10-2730

To Whom it May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

All purge waters were treated on-site using an up-flow treatment drum loaded with 30 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

Two 55-gallon drums were treated on July 28, 2010 at the referenced site.

A total of two (2) 55-gallon drums were treated at the referenced site.

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,
Midlands Environmental Consultants, Inc.

Brendon P. Kelly
Project Scientist

WASTE MANAGEMENT

Richland County LF
1047 Highway Church Road
Elgin, SC, 29045
Ph: (803) 788-3054

Original
Ticket# 1044008

Customer Name MIDLANDSENVIRON MIDLANDS ENVI
Ticket Date 07/23/2010
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 0
Destination
PO
Profile VA2718 (SOIL FROM UST ASSESSMENT)
Generator 126-MIDLANDSENVIRONMENTAL MIDLANDS ENVIRONMENTAL

Carrier MIDLANDSENVIRON MIDLANDS ENVIRONMENT
Vehicle# 2
Container
Driver
Check#
Billing # 0000469
Gen EPA ID

Volume

	Time	Scale	ScaleMaster		
In	07/23/2010 12:24:20	Scale1	Dwayne	Gross	11840 lb
Out	07/23/2010 12:45:57	Scale2	Dwayne	Tare	8940 lb
				Net	2900 lb
				Tons	1.45

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	SOIL-Cont. Soil -	100	1.45	Tons				01-ABBEVIL
2	FUEL-Fuel Surcharg	100		%				01-ABBEVIL
3	EVF-P-Standard Env	100		%				01-ABBEVIL

Total Fees
Total Ticket

SIGNATURE Chris Fashley

403WM McGill Grocy

SPECIAL WASTE MANIFEST

WASTE ID NUMBER VA2718	*Richland Landfill* 1047 Highway Church Road Elgin, SC 29045
EXPIRATION DATE December 7, 2010	Special Waste Phone: 803-744-3346 Fax: 866-904-7194

Prepared by: Karen Truett/Carol Weldon

GENERATOR OF WASTE: Midlands Env. Consultants, Inc. - Various

CUSTOMER Midlands Env. Consultants — ACCOUNT NUMBER: 820-469

LOCATION OF WASTE: Site Address:

CITY: Pelzer/Iva COUNTY: Abbeville

PHONE NUM 803-808-2043 CONTACT: Bryan Shane

FAX NUMBER:

GENERATOR'S SIGNATURE Chris Jadley DATE: 7/23

TRANSPORTER OF WASTE: MECI

DATE: 7/23/10 TRUCK NUMBER: #2

DRIVER'S SIGNATURE Chris Jadley

**** TO BE COMPLETED BY RICHLAND LANDFILL******

DISPOSAL SITE: RICHLAND LANDFILL ELGIN, SC

Waste Class: Soil

DESCRIPTION OF WASTE: Soil from UST Assessment

TICKET NUMBER: 1044808

RECEIVED BY: PCM

McGill Grocery

McGill Gravey

[illegible] COUNTY LANDFILL
[illegible] CHURCH ROAD
[illegible], SC 29645

[illegible] ENVIRONMENTAL CONSULT

[illegible] TIME IN: 13:15:33
[illegible] TIME OUT: 13:15

[illegible] 02-4716#7

[illegible] WT. 14400 LB

[illegible] WT. 9100 LB

[illegible] 5220 LB

[illegible]	AMOUNT
[illegible]	104.40
2.61 [illegible] AMOUNT:	104.40

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

FEB 18 2011

MS DIANA MCMAHAN PERSONAL REPRESENTATIVE
ESTATE OF DONALD E MCGILL
4520 DERRCLARE BLANE LN
EVANS GA 30809

UST DOCKET 11 Tech

Re: Groundwater Sampling Directive
McGill Grocery, Flat Rock Road, Iva, SC
UST Permit #19440; Cost Agreement # 40313
Release reported November 20, 2008
Tier II report received August 23, 2010
Abbeville County

Dear Ms. McMahan:

The Underground Storage Tank (UST) Management Division recognizes your commitment to continue work at this site using Midlands Environmental Consultants, Inc. as your contractor. The next appropriate scope of work at the site is comprehensive groundwater sampling of all monitoring wells and water supply wells.

All existing monitoring wells should be sampled for BTEX+naph+MtBE + 8 oxygenates (EPA Method 8260), EDB (EPA method 8011), and lead (no-purge sample, EPA Method 6010). Please sample the water supply wells for BTEX+naph+MtBE (EPA Method 8260) and EDB (EPA method 8011). Purging will not be required for existing monitoring wells where the water table is bracketed by the screen. Please have your contractor request low detection limits/reporting levels for all analyses. The use of "J" values is encouraged. Note that a non-detect analysis where the detection limit/reporting level exceeds the risk-based screening level (RBSL) is inconclusive. In this case, State Underground Petroleum Environmental Response Bank (SUPERB) payment may be denied since the analysis cannot be used as the basis for a decision.

The UST Division will not reimburse costs for oxygenate analysis for any laboratory that is not certified through the SCDHEC Office of Environmental Laboratory Certification. Detailed information regarding the oxygenate certification can be found on the UST Guidance Documents webpage. (http://www.scdhec.gov/environment/envserv/docs/OxygenateCertification.pdf. The document can also be accessed from the UST documents page at http://www.scdhec.net/environment/ lwm/forms/). Any laboratory with questions regarding the certification requirements should contact the Office of Environmental Laboratory Certification at (803) 896-0970.

Cost Agreement # 40313 has been approved in the amount shown on the enclosed cost agreement form for the sampling. Your contractor should submit sampling results to the Division in a monitoring report containing information stipulated in the following items:

- A narrative portion documenting current site conditions and noting the names of field personnel, date, time, ambient air temperature, and general weather conditions during the sampling event. The report should also contain well purging data, pH, specific conductivity, water temperature, PID readings (where applicable) and turbidity comments.
- Groundwater elevations, depth to groundwater, measurable free-phase product thickness (where applicable), total well depth and screened interval for all monitoring wells associated with the site, unless otherwise directed by the Division, presented in tabular form. Groundwater laboratory analytical data for all monitoring wells presented in tabular format.

- A groundwater elevation contour map of the site based on current potentiometric data.
- A Chemical of Concern (CoC) map based on current groundwater laboratory analytical data. The groundwater data should be adjacent to the relevant monitoring well.
- Manifests for any contaminated soil and/or groundwater removed from the site for treatment and/or disposal.
- Signature and seal by a professional geologist or engineer registered in the State of South Carolina.

Midlands Environmental Consultants, Inc. can submit an invoice for direct billing from the SUPERB Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina-Certified Underground Storage Tank Site Rehabilitation Contractor.

The monitoring report and invoice are due within 60 days from the date of this letter. An interim invoice may not be submitted for this scope of work. If the invoice is not submitted within one hundred and twenty (120) days from the date of this letter, monies allocated to pay for the work will be uncommitted. This means that invoices for the scope of work submitted after the 120-day deadline will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Department is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated costs must be pre-approved by the Department for the costs to be paid. The SCDHEC 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, SCDHEC reserves the right to question and/or reject costs if deemed unreasonable and to audit project records at any time during the project or after completion of work.

The Department 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 CoC concentrations, based on laboratory analysis, are below RBSLs, please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence concerning this site, please reference UST Permit # 19440. If there are any questions concerning this project, please contact me by telephone at (803) 896-6323, by fax at (803) 896-6245, or by e-mail at brineysm@dhec.sc.gov.

Sincerely,

Stephanie Briney

Stephanie Briney, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved cost agreement

cc: Midlands Environmental Consultants, Inc., PO Box 854, Lexington, SC 29071 (with enc.)
Technical file (with enc.)

Approved Cost Agreement 40313

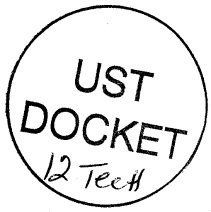
Facility: 19440 MCGILL GROCERY
PADGETJP
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB					
		B PERSONNEL	2.0000	290.00	580.00
10 SAMPLE COLLECTION					
		A GROUND WATER	6.0000	55.00	330.00
		C WATER SUPPLY	9.0000	25.00	225.00
		D GROUNDWATER NO-PURGE	18.0000	35.00	630.00
11 ANALYSES					
	GW GROUNDWATER				
		A BTEX+NAPTH+MTBE	33.0000	100.00	3,300.00
		E LEAD	24.0000	20.00	480.00
		F EDB	33.0000	55.00	1,815.00
		P 8 OXYGENATES	24.0000	85.00	2,040.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PCT PERCENT	0.1500	9,400.00	1,410.00
				Total Amount	10,810.00

Midlands
Environmental
Consultants, Inc.

March 7, 2011

Ms. Stephanie Briney, Hydrogeologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land & Waste Management
South Carolina Department of Health and
Environmental Control
2600 Bull Street
Columbia, South Carolina 29201



Subject: Report of Groundwater Sampling and Chemical Analyses
McGill Grocery
Lake Secession Road
Iva, South Carolina
SCDHEC Site ID# 19440, CA # 40313
MECI Project Number 11-3235
Certified Site Rehabilitation Contractor UCC-0009

Dear Ms. Briney,

On Behalf of Mr. Diane McMahan, Representative for the Estate of Donald McGill, Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling and Chemical Analyses of Groundwater Samples for the referenced site. This report describes assessment activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

PROJECT INFORMATION

The subject site (McGill Grocery) is located near the intersection of Lake Secession Road and McGill Circle, Iva, Abbeville County, South Carolina (see Figure 1). The subject site consists of an approximately 18.05 acre parcel that is occupied by an abandoned gasoline service station, the remainder of the property is undeveloped and wooded. The property occupies both sides of Lake Secession Road. The subject site formerly maintained two 1,000-gallon gasoline underground storage tanks (UST'S). A release of petroleum product was reported on January 28, 2009. MECI conducted an Initial Groundwater Assessment (IGWA) in May of 2009. This assessment included the installation of one monitoring well, collection of soil samples, and collection of groundwater samples. MECI conducted a Tier I Assessment in July of 2009. This assessment included the installation of three monitoring wells, collection of soil samples, collection of groundwater samples, and aquifer slug tests. During the Tier I Assessment groundwater samples were collected from six water supply wells (WSW-1, WSW-4, WSW-5, WSW-6, WSW-7, and WSW-8). Analytical results indicate petroleum impact to water supply wells WSW-1 and WSW-7. MTBE was detected in WSW-1 at 16.1 micrograms per liter on July 28, 2009, and 3.9J micrograms per liter on August 07,

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

2009. MTBE was detected in WSW-7 at 2.2J micrograms per liter on July 28, 2009 and August 07, 2009. MECI conducted a Tier II Assessment in July of 2010. This assessment included the installation of twenty monitoring wells, collection of ground water samples, and aquifer slug tests. During the Tier II Assessment groundwater samples were collected from eight water supply wells (WSW-1, WSW-2, and WSW-4 through WSW-9). Analytical results indicate petroleum impact to water supply wells WSW-1 WSW-7, and WSW-9. MTBE was detected in WSW-1 at 2.2 micrograms per liter on July 28, 2010. MTBE was detected in WSW-7 at 4.3 micrograms per liter on July 28, 2010. Toluene was detected in WSW-9 at 0.72J micrograms per liter on July 28, 2010.

The above project information is based on MECI field notes and SCDHEC files.

FIELD EXPLORATION

Field exploration conducted at the site include:

- groundwater sampling; chemical analyses: and,
- water supply well sampling and chemical analyses.

MONITORING WELL SAMPLING AND CHEMICAL ANALYSES

On February 23, 2011, MECI personnel collected groundwater samples from twenty four (24) monitoring wells at the subject site. Based on a request by SCDHEC personnel, not all of the wells were purged prior to sampling. Where applicable, purging was completed by bailing at least three well volumes of water from the well or until pH, conductivity, dissolved oxygen stabilized to within 10%, whichever occurred first. Field measurements of pH, conductivity, dissolved oxygen, dissolved carbon dioxide, and water temperature were obtained before well sampling process. Table 1 presents the results of the field measurements obtained. The wells were sampled in accordance with SCDHEC guidelines.

Groundwater samples obtained were sent to Pace Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Monitoring Well	Purge	No Purge	Gauge Only	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	Sulfate (EPA Method 375.2)	Nitrate (EPA Method 335.2)	Methane (RSK Method)	PAH's (EPA Method 8270)	Ferrous Iron (Field Test)
				Analyte Sampled									
MW-1		X		X	X	X	X	X					
MW-2		X		X	X	X	X	X					
MW-3		X		X	X	X	X	X					
MW-4		X		X	X	X	X	X					
MW-5		X		X	X	X	X	X					
MW-6		X		X	X	X	X	X					

MW-7		X		X	X	X	X	X					
MW-8		X		X	X	X	X	X					
MW-9		X		X	X	X	X	X					
MW-10		X		X	X	X	X	X					
MW-11		X		X	X	X	X	X					
MW-12		X		X	X	X	X	X					
MW-13		X		X	X	X	X	X					
MW-14		X		X	X	X	X	X					
MW-15		X		X	X	X	X	X					
MW-16		X		X	X	X	X	X					
MW-17		X		X	X	X	X	X					
MW-18		X		X	X	X	X	X					
MW-19D	X			X	X	X	X	X					
MW-20D	X			X	X	X	X	X					
MW-21D	X			X	X	X	X	X					
MW-22D	X			X	X	X	X	X					
MW-23D	X			X	X	X	X	X					
MW-24D	X			X	X	X	X	X					

Notes: BTEX = benzene, toluene, ethylbenzene, & total xylenes MTBE=methyl tertiary butyl ether 1,2 DCA = 1,2 dicloroethane PAH = polycyclic aromatic hydrocarbons

The results of the laboratory analyses are summarized in Table 2, Table 3, and presented in the attached laboratory reports.

WATER SUPPLY WELL SAMPLING AND CHEMICAL ANALYSES

On February 23, 2011, MECI personnel sampled eight water supply wells. The following matrix contains well status, owner(s), and tax map identification numbers:

Water Supply Well Number	Well Owner	Abbeville County Tax Map Number:	Notes:	Well Status
WSW-1	Abbeville County Fire Commission	042-00-00-275	2797 Lake Secession Road	Active
WSW-2	Wilson Creek Church	045-00-00-079	2955 Lake Secession Road	Active
WSW-4	Wallace D. Moore	045-00-00-080	2938 Lake Secession Road	Active
WSW-5	Marvin L. Crawley	045-00-00-278	2960 Lake Secession Road	Active
WSW-6	Doris Holland	045-00-00-083	2784 Lake Secession Road	Active
WSW-7	Ira R. Adams	045-00-00-085	2801 Lake Secession Road	Active
WSW-8	Marshall Marietta Bradford	045-00-00-276	41 McGill Circle	Active
WSW-9	Donald E. McGill	045-00-00-080	Lake Secession Road	Inactive

The samples collected from were sent to Pace Analytical of Huntersville, North Carolina (SCDHEC Laboratory Certification #99006) for analysis. The samples collected were analyzed for BTEX,

Naphthalene, MTBE (EPA Method 8260B) and EDB (EPA Method 8011). The results of the laboratory analyses are summarized in Table 2 and presented in attached laboratory reports.

GROUNDWATER ANALYTICAL RESULTS

As discussed above, groundwater samples obtained from the monitoring wells were analyzed for dissolved phase petroleum constituents. The analytical results indicate petroleum impact to the local groundwater with the highest dissolved concentrations detected in the area of monitoring well MW-1. The analytical results indicate dissolved total BTEX concentrations ranging from levels below detection limits (BDL) to 140,350J micrograms per liter in MW-1. The analytical results indicate dissolved MTBE concentrations ranging from levels below detection limits (BDL) to 22,800 micrograms per liter in monitoring well MW-11. The analytical results indicate dissolved Naphthalene concentrations ranging from levels below detection limits (BDL) to 55.0J micrograms per liter in monitoring well MW-3. The analytical results indicate dissolved EDB concentrations ranging from levels below detection limits (BDL) to 1.9 micrograms per liter in monitoring well MW-1. The results of the analyses for each monitoring well and specific parameters are listed on Table 2, Table 3, and are provided in the attached laboratory reports.

WATER SUPPLY WELL ANALYTICAL RESULTS

Eight samples were collected from water supply wells located near the subject site. Analytical results indicate MTBE concentrations at 3.1J micrograms per liter in water supply well WSW-7. Analytical results from WSW-1, WSW-2, WSW-4 through WSW-6, WSW-8, and WSW-9 does not indicate petroleum impact. The results of the analyses are presented on Table 2 and in the attached laboratory reports.

ASSESSMENT SUMMARY

Groundwater elevation data for the February 23, 2011, gauging events was plotted, and points of equal elevation were interpolated between the monitoring wells. A groundwater contour map of the surficial aquifer was thus prepared and is presented on Figure 3.

The analytical results indicate petroleum impact to the local groundwater with the highest dissolved concentrations detected in the area of monitoring well MW-1. The analytical results indicate dissolved total BTEX concentrations ranging from levels below detection limits (BDL) to 140,350J micrograms per liter in MW-1. The analytical results indicate dissolved MTBE concentrations ranging from levels below detection limits (BDL) to 22,800 micrograms per liter in monitoring well MW-11. The analytical results indicate dissolved Naphthalene concentrations ranging from levels below detection limits (BDL) to 55.0J micrograms per liter in monitoring well MW-3. The analytical results indicate dissolved EDB concentrations ranging from levels below detection limits (BDL) to 1.9 micrograms per liter in monitoring well MW-1. The results of the analyses for each monitoring well and specific parameters are listed on Table 2, Table 3 and in the attached laboratory reports. Figure 4 depicts graphically the concentrations of Total BTEX (indicator for plume migration) dissolved in the groundwater at the site. Figure 5 depicts graphically the concentrations of MTBE dissolved in the groundwater at the site.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. The general subsurface conditions utilized in our evaluation have been based on interpretation of subsurface data between borings. Contents of this report are intended for the sole use of Ms. Diane McMahan and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Courtney M. Sanders
Staff Biologist

Bryan T. Shane, P.G.
Principal Geologist

Attachments

TABLES

TABLE 1
PAGE 1 OF 2
FIELD PARAMETERS
FEBRUARY 23, 2011 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3235
SCDHEC SITE ID NUMBER 19440

Well Number	Sample Date	Dissolved CO_2 (mg/l)	Dissolved Oxygen (mg/l)	Temperature (^{O} Celsius)	pH		Conductivity		Ferrous Iron (mg/l)	Screened Interval (ft BGS)	Depth to Water (ft)	Well-head Elevation	Groundwater Elevation
					(Initial)	(Final)	(Initial)	(Final)					
MW-1	05/05/09	180	12.22	20.0	5.47	5.45	255.1	255.7	<0.2	40-50	45.19	96.57	51.38
	08/07/09	NT	NT	NT	NT	NT	NT	NT	NT	-	44.72	96.57	51.85
	07/28/10	200+	1.05	19.5	6.69	NT	224.0	NT	NT	-	40.79	96.57	55.78
	02/23/11	200+	0.88	17.0	5.80	NT	78.2	NT	NT	-	43.58	96.57	52.99
MW-2	07/31/09	115	5.93	20.5	6.16	NT	139.7	NT	<0.2	41-51	45.48	96.95	51.47
	07/28/10	200+	1.39	19.0	5.18	NT	283.3	NT	NT	-	41.60	96.95	55.35
	02/23/11	80	1.16	17.5	6.72	NT	68.9	NT	NT	-	44.21	96.95	52.74
MW-3	07/31/09	200+	5.53	19.3	6.21	5.89	149.3	143.4	<0.2	41-51	45.20	96.97	51.77
	07/28/10	200+	0.79	20.2	4.15	NT	280.0	NT	NT	-	41.31	96.97	55.66
	02/23/11	170	1.10	17.5	6.52	NT	147.2	NT	NT	-	43.83	96.97	53.14
MW-4	07/31/09	80	3.46	24.1	6.18	NT	166.0	NT	<0.2	42-52	49.30	99.71	50.41
	07/28/10	200+	2.09	20.0	5.73	NT	174.0	NT	NT	-	45.36	99.71	54.35
	02/23/11	120	1.27	17.2	3.27	NT	132.7	NT	NT	-	47.83	99.71	51.88
MW-5	07/28/10	85	4.80	19.0	6.89	6.82	59.9	47.2	NT	35-45	36.61	92.47	55.86
	02/23/11	30	5.93	15.8	8.41	NT	29.1	NT	NT	-	39.68	92.47	52.79
MW-6	07/28/10	180	6.34	19.3	5.30	5.15	116.0	182.5	NT	43-53	40.28	96.10	55.82
	02/23/11	120	2.90	17.4	5.96	NT	88.2	NT	NT	-	43.03	96.10	53.07
MW-7	07/28/10	125	6.15	19.6	6.87	6.74	65.6	111.2	NT	40-50	41.43	97.67	56.24
	02/23/11	75	11.64	14.8	5.58	NT	79.1	NT	NT	-	44.04	97.67	53.63
MW-8	07/28/10	120	3.25	19.3	7.94	7.66	132.5	126.6	NT	39-49	45.68	100.64	54.96
	02/23/11	110	6.34	16.6	6.27	NT	78.6	NT	NT	-	47.64	100.64	53.00
MW-9	07/28/10	90	5.76	21.4	8.44	8.16	186.9	173.6	NT	41-51	43.85	98.25	54.40
	02/23/11	40	6.40	17.1	6.16	NT	102.7	NT	NT	-	46.13	98.25	52.12
MW-10	07/28/10	130	7.00	19.9	7.60	7.08	182.7	207.7	NT	40-50	42.96	95.10	52.14
	02/23/11	40	0.93	16.9	6.29	NT	159.4	NT	NT	-	46.22	95.10	48.88
MW-11	07/28/10	200+	2.36	20.3	7.61	7.14	182.1	172.8	NT	40-50	43.05	97.68	54.63
	02/23/11	200+	0.98	17.0	6.22	NT	173.9	NT	NT	-	45.94	97.68	51.74

Notes:
1. mg/l = milligrams per liter.
2. Groundwater depths were measured from the top of the PVC riser pipe.
3. Final groundwater levels measured 02/23/11.
4. NT = Not Tested
5. Dissolved oxygen, dissolved carbon dioxide, initial pH, initial conductivity, and temperature measurements obtained on 02/23/11.

TABLE 1
PAGE 2 OF 2
FIELD PARAMETERS
FEBRUARY 23, 2011 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3235
SCDHEC SITE ID NUMBER 19440

Well Number	Sample Date	Dissolved CO_2 (mg/l)	Dissolved Oxygen (mg/l)	Temperature (^{O} Celsius)	pH (Initial)	pH (Final)	Conductivity (Initial)	Conductivity (Final)	Ferrous Iron (mg/l)	Screened Interval (ft BGS)	Depth to Water (ft)	Well-head Elevation	Groundwater Elevation
MW-12	07/28/10	150	5.80	20.8	6.03	5.93	445.1	436.1	NT	50-60	54.18	103.93	49.75
	02/23/11	70	5.82	18.6	6.00	NT	93.7	NT	NT	-	57.05	103.93	46.88
MW-13	07/28/10	100	6.54	19.8	8.81	8.16	434.3	388.9	NT	50-60	54.21	104.88	50.67
	02/23/11	60	6.78	16.8	7.44	NT	310.3	NT	NT	-	57.16	104.88	47.72
MW-14	07/28/10	200+	6.10	20.2	6.93	6.47	77.8	50.8	NT	49-59	51.60	102.93	51.33
	02/23/11	65	9.98	16.6	7.37	NT	25.5	NT	NT	-	54.39	102.93	48.54
MW-15	07/28/10	165	6.75	18.5	7.12	6.98	70.3	51.2	NT	45-55	47.85	98.20	50.35
	02/23/11	80	6.22	17.1	5.39	NT	46.4	NT	NT	-	50.50	98.20	47.70
MW-16	07/28/10	150	6.31	19.5	7.76	7.49	61.2	56.7	NT	45-55	46.16	97.51	51.35
	02/23/11	50	6.24	17.9	5.47	NT	1.9	NT	NT	-	48.76	97.51	48.75
MW-17	07/28/10	100	5.99	22.5	8.72	8.10	103.5	53.9	NT	45-55	46.65	98.62	51.97
	02/23/11	90	7.19	17.9	5.03	NT	23.8	NT	NT	-	49.29	98.62	49.33
MW-18	07/28/10	85	6.31	21.9	7.62	7.53	48.2	42.9	NT	35-45	35.99	87.20	51.21
	02/23/11	150	10.84	17.4	5.64	NT	36.2	NT	NT	-	38.47	87.20	48.73
MW-19D	07/28/10	5	4.77	20.6	5.79	6.21	430.0	430.6	NT	65-70	45.86	96.43	50.57
	02/23/11	10	0.81	17.9	10.25	9.98	361.6	334.3	NT	-	43.65	96.43	52.78
MW-20D	07/28/10	5	5.06	21.4	9.37	9.51	1,937	1,123	NT	65-67	58.49	97.23	38.74
	02/23/11	10	3.73	17.2	9.81	11.99	560	593	NT	-	44.32	97.23	52.91
MW-21D	07/28/10	200+	5.21	22.3	7.84	8.13	249.4	284.9	NT	78-83	63.49	97.64	34.15
	02/23/11	5	1.12	17.0	6.77	10.06	162.6	160.1	NT	-	46.00	97.64	51.64
MW-22D	07/28/10	5	5.01	20.1	8.78	9.61	1,956	1,311	NT	95-100	55.09	104.95	49.86
	02/23/11	80	4.10	17.2	6.96	6.03	165.9	72.1	NT	-	58.09	104.95	46.86
MW-23D	07/28/10	135	3.83	20.0	6.61	7.02	92.5	71.8	NT	95-100	47.28	97.83	50.55
	02/23/11	50	1.19	17.7	6.63	6.46	67.3	71.3	NT	-	50.00	97.83	47.83
MW-24D	07/28/10	5	4.08	20.6	6.91	6.85	77.6	73.6	NT	70-75	36.54	87.38	50.84
	02/23/11	85	6.44	18.1	5.08	5.83	19.9	59.3	NT	-	39.06	87.38	48.32

Notes:
1. mg/l = milligrams per liter.
2. Groundwater depths were measured from the top of the PVC riser pipe.
3. Final groundwater levels measured 02/23/11.
4. NT = Not Tested
5. Dissolved oxygen, dissolved carbon dioxide, initial pH, initial conductivity, and temperature measurements obtained on 02/23/11.

TABLE 2
PAGE 1 OF 3
GROUNDWATER ANALYTICAL RESULTS
FEBRUARY 23, 2011 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3235
SCDHEC ID NUMBER 19440

Well Number	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Total BTEX (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)	1,2 DCA (µg/l)	EDB (µg/l)	Total Lead (µg/l)	Methane (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-1	05/05/09	**7,780**	**98,500**	**3,910**	**24,100**	**134,290**	**59,700**	<500	<500	**1.7**	<5.0	NT	NT	NT
	07/31/09	**8,630**	**96,400**	**3,980**	**24,900**	**133,910**	**33,700**	<1,000	NT	**2.0**	NT	NT	NT	NT
	07/28/10	**6,300**	**117,000**	**3,740**	**29,000**	**156,040**	**2,040**	**241**	<50.0	**1.9**	**6.2**	NT	NT	NT
	02/23/11	**6,810**	**105,000**	**3,640J**	**24,900**	**140,350J**	**4,230J**	<5,000	<5,000	**1.9**	<5.0	NT	NT	NT
MW-2	07/31/09	**854**	**1,430**	**335J**	**3,470**	**6,089J**	**7,090**	**145**	<5.0	**0.039**	**6.6**	<10.0	<0.10	**4.5**
	07/28/10	**3,170**	**44,900**	**1,850**	**13,700**	**63,620**	**32,700**	**253**	<25.0	**0.29**	<5.0	NT	NT	NT
	02/23/11	**312**	**3,840**	**140J**	**1,170**	**5,462J**	**4,520**	<200	<200	<0.020	<5.0	NT	NT	NT
MW-3	07/31/09	**2,680**	**20,100**	**362J**	**8,110**	**31,252J**	**24,400**	**145**	<5.0	**0.10**	**5.8**	<10.0	<0.10	**2.6**
	07/28/10	**1,540**	**20,000**	**1,350**	**11,700**	**34,590**	**14,600**	**424**	<5.0	**0.072**	<5.0	NT	NT	NT
	02/23/11	<125	<125	**61.8J**	<250	**61.8J**	**2,220**	**55.0J**	<125	<0.020	<5.0	NT	NT	NT
MW-4	07/31/09	**956**	**4,440**	**174**	**1,860**	**7,430**	**6,130**	**24.9**	<5.0	<0.019	<5.0	<10.0	<0.10	**7.4**
	07/28/10	**801**	**1,510**	**164J**	**1,510**	**3,985J**	**7,700**	<250	<250	<0.019	<5.0	NT	NT	NT
	02/23/11	**367**	**164J**	**119J**	**631**	**1,281J**	**8,370**	<250	<250	<0.020	<5.0	NT	NT	NT
MW-5	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	**39.4**	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	**8.7**	NT	NT	NT
MW-6	07/28/10	<5.0	**3.5J**	<5.0	**3.2J**	**6.7J**	**23.8**	**3.9J**	<5.0	<0.020	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	**54.1**	<5.0	<5.0	<0.020	**7.9**	NT	NT	NT
MW-7	07/28/10	<5.0	**2.2J**	<5.0	<10.0	**2.2J**	<5.0	**3.1J**	<5.0	<0.019	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	**6.4**	NT	NT	NT
MW-8	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	**5.4**	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
MW-9	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	**7.9**	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
MW-10	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	**8.0**	<5.0	<5.0	<0.025	**23.2**	NT	NT	NT
	02/23/11	**2.1J**	**1.6J**	<5.0	**3.4J**	**7.1J**	**62.7**	<5.0	<5.0	<0.020	<5.0	NT	NT	NT

Notes:

1. BDL = Below Practical Quantitative Limits
2. µg/l = micrograms per liter
3. mg/l = milligrams per liter
4. MTBE = Methyl-Tertiary-Butyl Ether
5. See Appendix for Laboratory Detection Limits
6. NT = Not Tested.
7. EDB = Ethylene Dibromide
8. 1,2 DCA = 1,2-Dichloroethane
9. "J" Values used in Total BTEX Calculations
10. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).

TABLE 2
PAGE 2 OF 3
GROUNDWATER ANALYTICAL RESULTS
FEBRUARY 23, 2011 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3235
SCDHEC ID NUMBER 19440

Well Number	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Total BTEX (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)	1,2 DCA (µg/l)	EDB (µg/l)	Total Lead (µg/l)	Methane (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-11	07/28/10	**997**	**8,120**	**340**	**2,480**	**11,937**	**18,600**	**43.6**	<25.0	**0.31**	<5.0	NT	NT	NT
	02/23/11	**954**	**5,400**	**312J**	**2,660**	**9,326J**	**22,800**	<500	<500	<0.019	<5.0	NT	NT	NT
MW-12	07/28/10	<5.0	**2.1J**	<5.0	<10.0	**2.1J**	**3.6J**	**3.1J**	<5.0	<0.020	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	<5.0	NT	NT	NT
MW-13	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	<5.0	NT	NT	NT
MW-14	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	**4.1J**	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	<5.0	NT	NT	NT
MW-15	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	**4.1J**	NT	NT	NT
MW-16	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	**17.6**	NT	NT	NT
MW-17	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	**47.2**	NT	NT	NT
MW-18	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	**14.3**	NT	NT	NT
MW-19D	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	<5.0	NT	NT	NT
MW-20D	07/28/10	**230**	**573**	**57.2**	**379**	**1,239.2**	**3,720**	**11.2**	<5.0	**0.055**	<5.0	NT	NT	NT
	02/23/11	**214**	**359**	<125	**297**	**870**	**2,780**	<125	<125	<0.019	<5.0	NT	NT	NT
MW-21D	07/28/10	**3.6J**	**4.2J**	**1.3J**	**8.3J**	**17.4J**	**128**	<5.0	<5.0	<0.019	**109**	NT	NT	NT
	02/23/11	**2.1J**	**1.7J**	<5.0	**3.7J**	**7.5J**	**62.9**	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
MW-22D	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	**33.1**	**3.1J**	<5.0	<0.020	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	**282**	<5.0	<5.0	<0.020	<5.0	NT	NT	NT

Notes:

1. BDL = Below Practical Quantitative Limits
2. µg/l = micrograms per liter
3. mg/l = milligrams per liter
4. MTBE = Methyl-Tertiary-Butyl Ether
5. See Appendix for Laboratory Detection Limits
6. NT = Not Tested.
7. EDB = Ethylene Dibromide
8. 1,2 DCA = 1,2-Dichloroethane
9. "J" Values used in Total BTEX Calculations
10. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).

TABLE 2
PAGE 3 OF 3
GROUNDWATER ANALYTICAL RESULTS
FEBRUARY 23, 2011 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3235
SCDHEC ID NUMBER 19440

Well Number	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Total BTEX (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)	1,2 DCA (µg/l)	EDB (µg/l)	Total Lead (µg/l)	Methane (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-23D	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.021	**10.5**	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
MW-24D	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	**20.4**	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
WSW-1	07/28/09	<5.0	<5.0	<5.0	<10.0	BDL	**16.1**	<5.0	NT	NT	NT	NT	NT	NT
	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	**3.9J**	<5.0	NT	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	**2.2**	<1.0	NT	<0.019	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019	NT	NT	NT	NT
WSW-2	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019	NT	NT	NT	NT
WSW-4	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT
WSW-5	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019	NT	NT	NT	NT
WSW-6	07/28/09	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	NT	NT	NT	NT	NT
	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019	NT	NT	NT	NT
WSW-7	07/28/09	<5.0	<5.0	<5.0	<10.0	BDL	**2.2J**	<5.0	NT	NT	NT	NT	NT	NT
	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	**2.2J**	<5.0	NT	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	**4.3**	<1.0	NT	<0.019	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	**3.1J**	<5.0	NT	<0.020	NT	NT	NT	NT
WSW-8	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019	NT	NT	NT	NT
WSW-9	07/28/10	<1.0	**0.72J**	<1.0	<3.0	**0.72J**	<1.0	<1.0	NT	<0.019	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT

Notes:

1. BDL = Below Practical Quantitative Limits
2. µg/l = micrograms per liter
3. mg/l = milligrams per liter
4. MTBE = Methyl-Tertiary-Butyl Ether
5. See Appendix for Laboratory Detection Limits
6. NT = Not Tested.
7. EDB = Ethylene Dibromide
8. 1,2 DCA = 1,2-Dichloroethane
9. "J" Values used in Total BTEX Calculations
10. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).

TABLE 3
PAGE 1 OF 2
GROUNDWATER ANALYTICAL RESULTS (OXYGENATES)
FEBRUARY 23, 2011 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3235
SCDHEC SITE ID NUMBER 19440

Well Number	Sample Date	tert-Amyl alcohol (µg/l)	tert-Amyl methyl ether (µg/l)	3,3-Dimethyl-1-butanol (µg/l)	tert Butyl Alcohol (µg/l)	tert-Butyl Formate (µg/l)	Diisopropyl ether (µg/l)	Ethanol (µg/l)	Ethyl tert-butyl ether (µg/l)
MW-1	05/05/09	NT	NT	NT	NT	NT	NT	NT	NT
	07/31/09	NT	NT	NT	NT	NT	NT	NT	NT
	07/28/10	**1,980**	**1,310**	<1,000	<1,000	<500	**14,900**	<2,000	<100
	02/23/11	<100,000	<10,000	<100,000	<100,000	<50,000	**17,000**	<200,000	<10,000
MW-2	07/31/09	**23,500**	**145**	<100	<100	<50.0	**3,830**	<200	<10.0
	07/28/10	**6,480**	**928**	<500	<500	<250	**19,300**	<1,000	<50.0
	02/23/11	<4,000	<400	<4,000	<4,000	<2,000	**2,270**	<8,000	<400
MW-3	07/31/09	**16,800J**	**295**	<100	<100	<50.0	**11,600**	<200	<10.0
	07/28/10	**5,410**	**221**	<100	<100	<50.0	**6,810**	<200	<10.0
	02/23/11	<2,500	<250	<2,500	<2,500	<1,250	**1,040**	<5,000	<250
MW-4	07/31/09	**7,330**	**70.3**	<100	<100	<50.0	**3,140**	<200	<10.0
	07/28/10	**13,900**	<500	<5,000	<5,000	<2,500	**4,880**	<10,000	<500
	02/23/11	**5,710**	<500	<5,000	<5,000	<2,500	**4,220**	<10,000	<500
MW-5	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-6	07/28/10	<100	<10.0	<100	<100	<50.0	**57.7**	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	**98.2**	**255**	<10.0
MW-7	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-8	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-9	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-10	07/28/10	<100	<10.0	<100	<100	<50.0	**12.8**	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	**46.5**	<200	<10.0
MW-11	07/28/10	**3,990**	**237**	<500	<500	<250	**7,840**	<1,000	<50.0
	02/23/11	<10,000	**379J**	<10,000	<10,000	<5,000	**8,560**	<20,000	<1,000

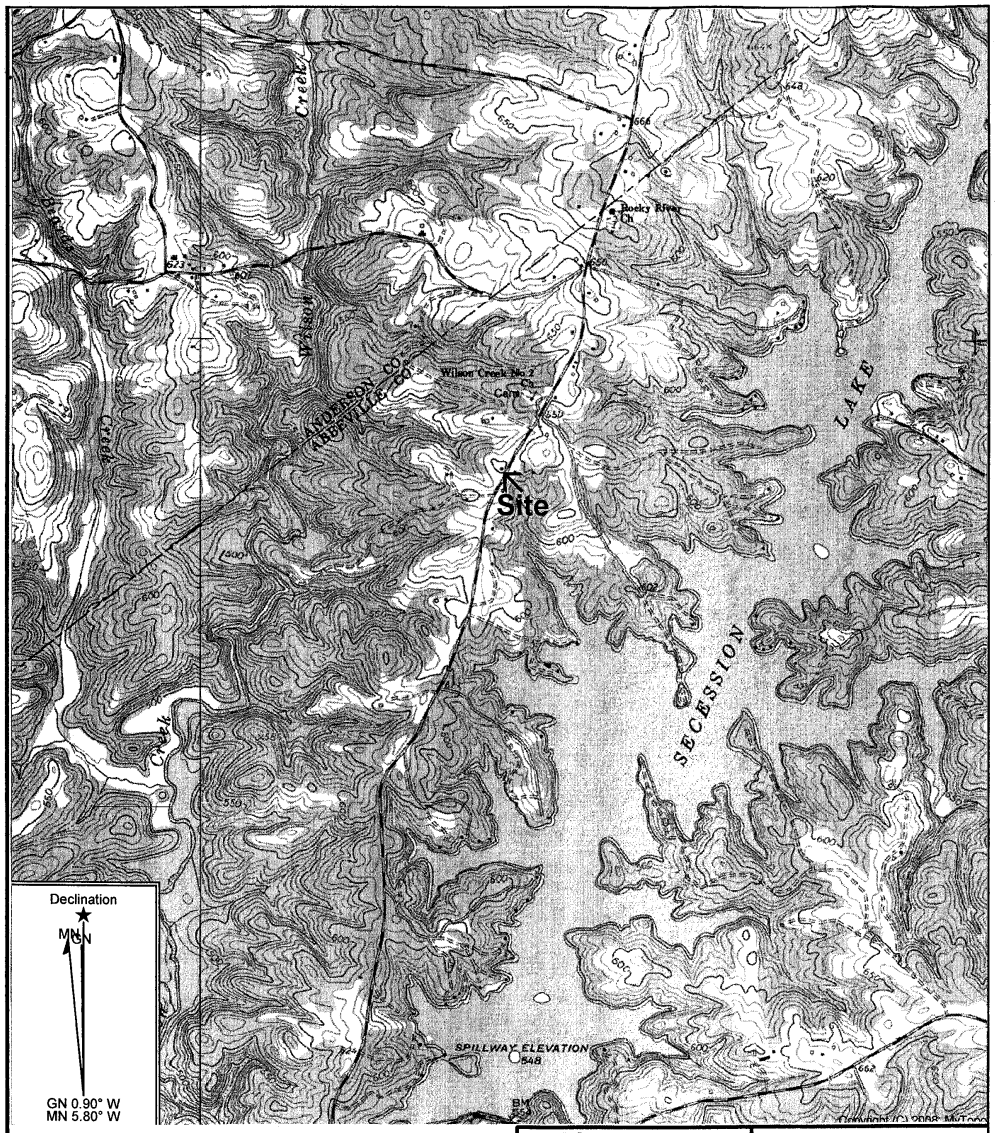
Notes:
1. µg/l = micrograms per liter
2. NT = Not Tested
3. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).

TABLE 3
PAGE 2 OF 2
GROUNDWATER ANALYTICAL RESULTS (OXYGENATES)
FEBRUARY 23, 2011 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3235
SCDHEC SITE ID NUMBER 19440

Well Number	Sample Date	tert-Amyl alcohol (µg/l)	tert-Amyl methyl ether (µg/l)	3,3-Dimethyl-1-butanol (µg/l)	tert Butyl Alcohol (µg/l)	tert-Butyl Formate (µg/l)	Diisopropyl ether (µg/l)	Ethanol (µg/l)	Ethyl tert-butyl ether (µg/l)
MW-12	07/28/10	**201**	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-13	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-14	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-15	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-16	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-17	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-18	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-19D	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-20D	07/28/10	**1,490**	**77.7**	<100	<100	<50.0	**1,720**	<200	<10.0
	02/23/11	<2,500	<250	<2,500	<2,500	<1,250	**1,300**	<5,000	<250
MW-21D	07/28/10	<100	<10.0	<100	<100	<50.0	**98.5**	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	**45.5**	<200	<10.0
MW-22D	07/28/10	<100	<10.0	<100	<100	<50.0	**19.1**	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	**147**	<200	<10.0
MW-23D	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-24D	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0

Notes:
1. µg/l = micrograms per liter
2. NT = Not Tested
3. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).

FIGURES



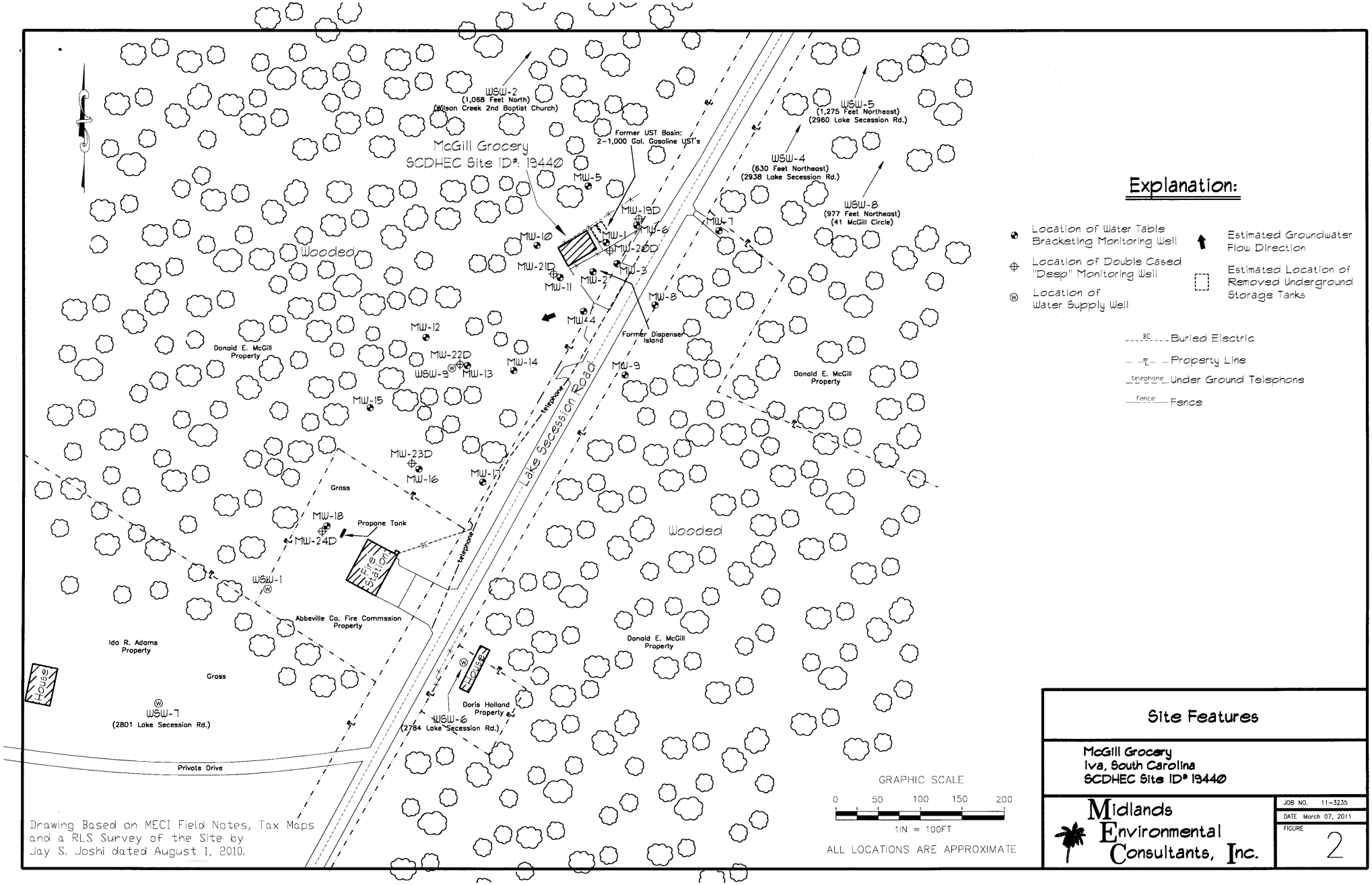
GRAPHIC SCALE

0 1000 2000 4000

1IN = 2000FT

Reference: Antreville, South Carolina
Iva, South Carolina
Contour Interval–10 Feet
USGS 7.5 Min. Quad

Midlands Environmental Consultants, Inc.	Site Location
McGill's Grocery Lake Secession Road, Iva, SC SCDHEC Site ID# 19440	
Figure 1	MECI 11-3235



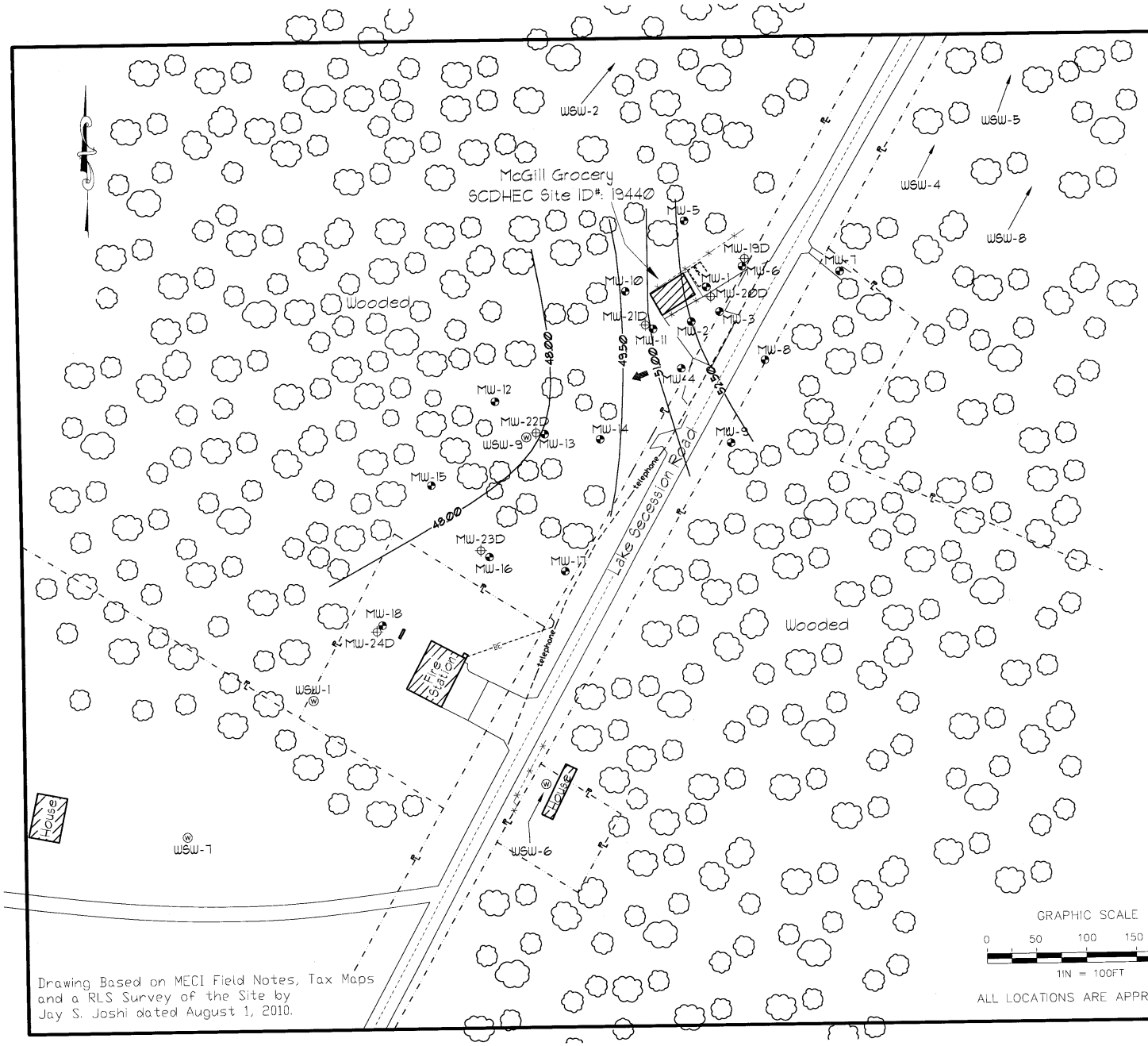
Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

Site Features

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 11-3235
DATE March 07, 2011
FIGURE 2



Explanation:

- Location of Water Table Bracketing Monitoring Well
- Location of Double Cased "Deep" Monitoring Well
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- Location of Water Supply Well
- Groundwater Elevation Contour (feet)

Groundwater Elevation Data

Well #	Depth to Water (ft)	Well Head Elevation	Groundwater Elevation
MW-1	43.58	96.57	52.99
MW-2	44.21	96.95	52.74
MW-3	43.83	96.97	53.14
MW-4	47.83	99.71	51.88
MW-5	39.68	92.47	52.79
MW-6	43.03	96.10	53.07
MW-7	44.04	97.67	53.63
MW-8	47.64	100.64	53.00
MW-9	46.13	98.25	52.12
MW-10	46.22	95.10	48.88
MW-11	45.94	97.68	51.74
MW-12	57.05	103.93	46.88
MW-13	57.16	104.88	47.72
MW-14	54.39	102.93	48.54
MW-15	50.50	98.20	47.70
MW-16	48.76	97.51	48.75
MW-17	49.29	98.62	49.33
MW-18	38.47	87.20	48.73
MW-19D	43.65	96.43	52.78
MW-20D	44.32	97.23	52.91
MW-21D	46.00	97.64	51.64
MW-22D	58.09	104.95	46.86
MW-23D	50.00	97.83	47.83
MW-24D	39.06	87.38	48.32

Notes: Depth to groundwater measured on February 23, 2011.

Contour Interval = 1.50 Foot

Monitoring wells MW-19D, MW-20D, MW-21D, MW-22D, MW-23D, and MW-24D not used in contouring.

Site Datum Based on Assumed Spot Elevation.

Ground Water Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

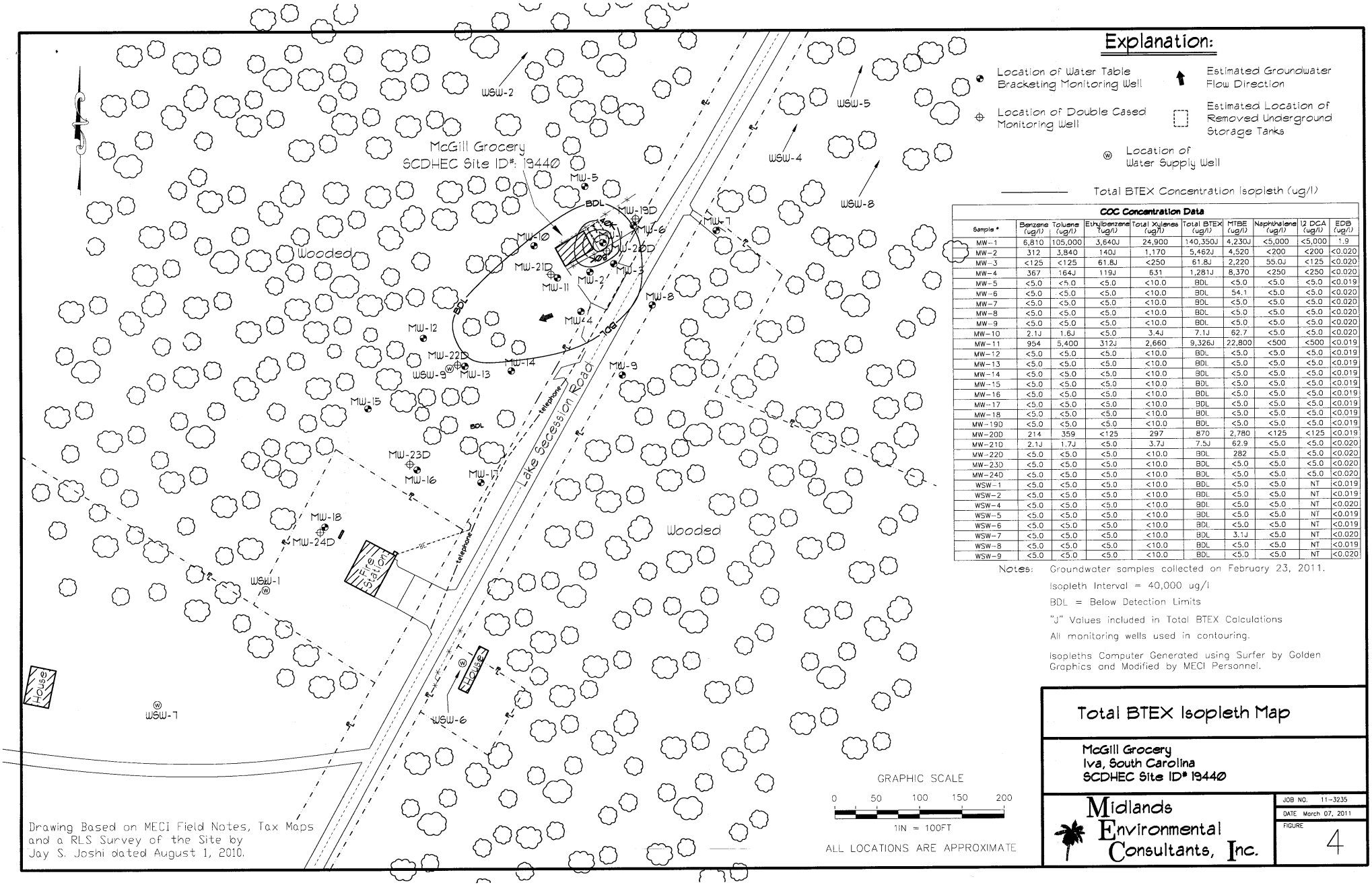
Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

Groundwater Contour Map

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 11-3235
DATE March 07, 2011
FIGURE 3



Explanation:

- Location of Water Table Bracketing Monitoring Well
- Location of Double Cased Monitoring Well
- Location of Water Supply Well
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- Total BTEX Concentration Isopleth (ug/l)

COC Concentration Data

Sample #	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)	1,2 DCA (ug/l)	EDB (ug/l)
MW-1	6,810	105,000	3,640J	24,900	140,350J	4,230J	<5,000	<5,000	1.9
MW-2	312	3,840	140J	1,170	5,462J	4,520	<200	<200	<0.020
MW-3	<125	<125	61.8J	<250	61.8J	2,220	55.0J	<125	<0.020
MW-4	367	164J	119J	631	1,281J	8,370	<250	<250	<0.020
MW-5	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-6	<5.0	<5.0	<5.0	<10.0	BDL	54.1	<5.0	<5.0	<0.020
MW-7	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-8	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-9	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-10	2.1J	1.6J	<5.0	3.4J	7.1J	62.7	<5.0	<5.0	<0.020
MW-11	954	5,400	312J	2,660	9,326J	22,800	<500	<500	<0.019
MW-12	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-13	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-14	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-16	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-17	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-18	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-19D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-20D	214	359	<125	297	870	2,780	<125	<125	<0.019
MW-21D	2.1J	1.7J	<5.0	3.7J	7.5J	62.9	<5.0	<5.0	<0.020
MW-22D	<5.0	<5.0	<5.0	<10.0	BDL	282	<5.0	<5.0	<0.020
MW-23D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-24D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
WSW-1	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019
WSW-2	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019
WSW-4	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.020
WSW-5	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019
WSW-6	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019
WSW-7	<5.0	<5.0	<5.0	<10.0	BDL	3.1J	<5.0	NT	<0.020
WSW-8	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019
WSW-9	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.020

Notes:
Groundwater samples collected on February 23, 2011.
Isopleth Interval = 40,000 ug/l
BDL = Below Detection Limits
"J" Values included in Total BTEX Calculations
All monitoring wells used in contouring.
Isopleths Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

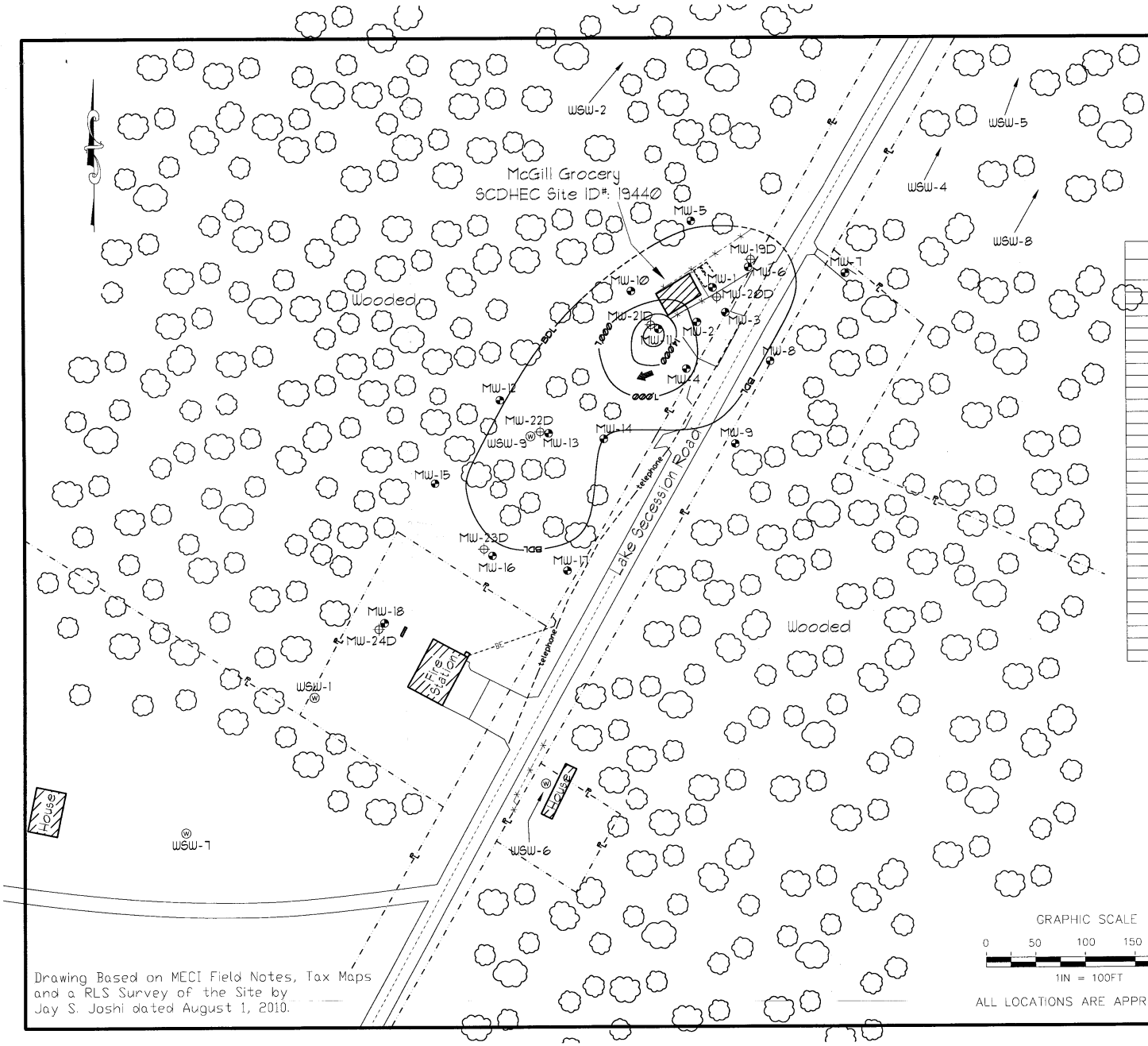
Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

Total BTEX Isopleth Map

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 11-3235
DATE March 07, 2011
FIGURE 4



Explanation:

- Location of Water Table Bracketing Monitoring Well
- Location of Double Cased Monitoring Well
- Location of Water Supply Well
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- MTBE Concentration Isopleth (ug/l)

COC Concentration Data

Sample #	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)	1,2 DCA (ug/l)	EDB (ug/l)
MW-1	6,810	105,000	3,640J	24,900	140,350J	4,230J	<5,000	<5,000	1.9
MW-2	312	3,840	140J	1,170	5,462J	4,520	<200	<200	<0.020
MW-3	<125	<125	61.8J	<250	61.8J	2,220	55.0J	<125	<0.020
MW-4	367	164J	119J	631	1,281J	8,370	<250	<250	<0.020
MW-5	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-6	<5.0	<5.0	<5.0	<10.0	BDL	54.1	<5.0	<5.0	<0.020
MW-7	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-8	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-9	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-10	2.1J	1.6J	<5.0	3.4J	7.1J	62.7	<5.0	<5.0	<0.020
MW-11	954	5,400	312J	2,660	9,326J	22,800	<500	<500	<0.019
MW-12	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-13	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-14	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-16	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-17	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-18	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-19D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-20D	214	359	<125	297	870	2,780	<125	<125	<0.019
MW-21D	2.1J	1.7J	<5.0	3.7J	7.5J	62.9	<5.0	<5.0	<0.020
MW-22D	<5.0	<5.0	<5.0	<10.0	BDL	282	<5.0	<5.0	<0.020
MW-23D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-24D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
WSW-1	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019
WSW-2	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019
WSW-4	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.020
WSW-5	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019
WSW-6	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019
WSW-7	<5.0	<5.0	<5.0	<10.0	BDL	3.1J	<5.0	NT	<0.020
WSW-8	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019
WSW-9	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.020

Notes:
Groundwater samples collected on February 23, 2011.
Isopleth Interval = 7,000 ug/l
BDL = Below Detection Limits
"J" Values included in Total BTEX Calculations
All monitoring wells and used in contouring.
Isopleths Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

MTBE Isopleth Map

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 11-3235
DATE March 07, 2011
FIGURE 5

ANALYTICAL RESULTS

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 04, 2011

Mr. Bryan Shane
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Dear Mr. Shane:
Enclosed are the analytical results for sample(s) received by the laboratory on February 25, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Erin K. Waters

Erin Waters for
Renee Spencer
renee.spencer@pacelabs.com
Project Manager

Enclosures

cc: Mr. Jeff Coleman, Midlands Environmental

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH THE nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 99030002
South Carolina Certification #: 99030001
Virginia Certification #: 00072
West Virginia Certification #: 356

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9288625001	MW-1	Water	02/23/11 11:15	02/25/11 15:30
9288625002	MW-2	Water	02/23/11 10:50	02/25/11 15:30
9288625003	MW-3	Water	02/23/11 11:10	02/25/11 15:30
9288625004	MW-4	Water	02/23/11 10:45	02/25/11 15:30
9288625005	MW-5	Water	02/23/11 11:45	02/25/11 15:30
9288625006	MW-6	Water	02/23/11 11:20	02/25/11 15:30
9288625007	MW-7	Water	02/23/11 10:30	02/25/11 15:30
9288625008	MW-8	Water	02/23/11 10:35	02/25/11 15:30
9288625009	MW-9	Water	02/23/11 10:40	02/25/11 15:30
9288625010	MW-10	Water	02/23/11 11:40	02/25/11 15:30
9288625011	MW-11	Water	02/23/11 11:30	02/25/11 15:30
9288625012	MW-12	Water	02/23/11 13:00	02/25/11 15:30
9288625013	MW-13	Water	02/23/11 12:55	02/25/11 15:30
9288625014	MW-14	Water	02/23/11 12:50	02/25/11 15:30
9288625015	MW-15	Water	02/23/11 14:45	02/25/11 15:30
9288625016	MW-16	Water	02/23/11 14:50	02/25/11 15:30
9288625017	MW-17	Water	02/23/11 14:55	02/25/11 15:30
9288625018	MW-18	Water	02/23/11 14:00	02/25/11 15:30
9288625019	MW-19D	Water	02/23/11 12:25	02/25/11 15:30
9288625020	MW-20D	Water	02/23/11 12:15	02/25/11 15:30
9288625021	MW-21D	Water	02/23/11 12:05	02/25/11 15:30
9288625022	MW-22D	Water	02/23/11 13:40	02/25/11 15:30
9288625023	MW-23D	Water	02/23/11 15:00	02/25/11 15:30
9288625024	MW-24D	Water	02/23/11 14:20	02/25/11 15:30
9288625025	WSW-1	Water	02/23/11 14:05	02/25/11 15:30
9288625026	WSW-2	Water	02/23/11 15:40	02/25/11 15:30
9288625027	WSW-4	Water	02/23/11 15:35	02/25/11 15:30
9288625028	WSW-5	Water	02/23/11 16:00	02/25/11 15:30
9288625029	WSW-6	Water	02/23/11 14:15	02/25/11 15:30
9288625030	WSW-7	Water	02/23/11 15:30	02/25/11 15:30
9288625031	WSW-8	Water	02/23/11 12:35	02/25/11 15:30
9288625032	WSW-9	Water	02/23/11 12:40	02/25/11 15:30

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9288625001	**MW-1**	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625002	**MW-2**	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625003	**MW-3**	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625004	**MW-4**	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625005	**MW-5**	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625006	**MW-6**	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625007	**MW-7**	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625008	**MW-8**	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625009	**MW-9**	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625010	**MW-10**	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625011	**MW-11**	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625012	**MW-12**	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625013	**MW-13**	EPA 8011	RES	2	PASI-C

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625014	MW-14	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625015	MW-15	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625016	MW-16	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625017	MW-17	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625018	MW-18	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625019	MW-19D	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625020	MW-20D	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625021	MW-21D	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625022	MW-22D	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625023	MW-23D	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625024	MW-24D	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9288625025	WSW-1	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9288625026	**WSW-2**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C
9288625027	**WSW-4**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C
9288625028	**WSW-5**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C
9288625029	**WSW-6**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C
9288625030	**WSW-7**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C
9288625031	**WSW-8**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C
9288625032	**WSW-9**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Sample: MW-1 **Lab ID: 9288625001** Collected: 02/23/11 11:15 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**1.9**	ug/L	0.079	0.079	4	02/28/11 16:54	03/01/11 12:08	106-93-4	
1-Chloro-2-bromopropane (S)	113	%	60-140		4	02/28/11 16:54	03/01/11 12:08	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	02/28/11 14:30	03/01/11 22:19	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100000	76800	1000		03/02/11 17:51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10000	3400	1000		03/02/11 17:51	994-05-8	
Benzene	**6810**	ug/L	5000	1700	1000		03/02/11 17:51	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100000	32100	1000		03/02/11 17:51	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100000	57700	1000		03/02/11 17:51	75-65-0	
tert-Butyl Formate	ND	ug/L	50000	7300	1000		03/02/11 17:51	762-75-4	
1,2-Dichloroethane	ND	ug/L	5000	1800	1000		03/02/11 17:51	107-06-2	
Diisopropyl ether	**17000**	ug/L	5000	1700	1000		03/02/11 17:51	108-20-3	
Ethanol	ND	ug/L	200000	138000	1000		03/02/11 17:51	64-17-5	
Ethylbenzene	**3640J**	ug/L	5000	1600	1000		03/02/11 17:51	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10000	3600	1000		03/02/11 17:51	637-92-3	
Methyl-tert-butyl ether	**4230J**	ug/L	5000	1700	1000		03/02/11 17:51	1634-04-4	
Naphthalene	ND	ug/L	5000	2000	1000		03/02/11 17:51	91-20-3	
Toluene	**105000**	ug/L	5000	1600	1000		03/02/11 17:51	108-88-3	
Xylene (Total)	**24900**	ug/L	10000	2700	1000		03/02/11 17:51	1330-20-7	
m&p-Xylene	**17200**	ug/L	10000	3100	1000		03/02/11 17:51	179601-23-1	
o-Xylene	**7700**	ug/L	5000	1600	1000		03/02/11 17:51	95-47-6	
Dibromofluoromethane (S)	105	%	70-130		1000		03/02/11 17:51	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1000		03/02/11 17:51	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1000		03/02/11 17:51	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1000		03/02/11 17:51	17060-07-0	

Sample: MW-2 **Lab ID: 9288625002** Collected: 02/23/11 10:50 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/28/11 16:54	03/01/11 09:47	106-93-4	
1-Chloro-2-bromopropane (S)	81	%	60-140		1	02/28/11 16:54	03/01/11 09:47	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	02/28/11 14:30	03/01/11 22:24	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	4000	3070	40		03/04/11 10:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	400	136	40		03/04/11 10:06	994-05-8	
Benzene	**312**	ug/L	200	68.0	40		03/04/11 10:06	71-43-2	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Sample: MW-2 **Lab ID: 9288625002** Collected: 02/23/11 10:50 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	4000	1280	40		03/04/11 10:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	4000	2310	40		03/04/11 10:06	75-65-0	
tert-Butyl Formate	ND	ug/L	2000	292	40		03/04/11 10:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	200	72.0	40		03/04/11 10:06	107-06-2	
Diisopropyl ether	**2270**	ug/L	200	68.0	40		03/04/11 10:06	108-20-3	
Ethanol	ND	ug/L	8000	5510	40		03/04/11 10:06	64-17-5	
Ethylbenzene	**140J**	ug/L	200	64.0	40		03/04/11 10:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	400	144	40		03/04/11 10:06	637-92-3	
Methyl-tert-butyl ether	**4520**	ug/L	200	68.0	40		03/04/11 10:06	1634-04-4	
Naphthalene	ND	ug/L	200	80.0	40		03/04/11 10:06	91-20-3	
Toluene	**3840**	ug/L	200	64.0	40		03/04/11 10:06	108-88-3	
Xylene (Total)	**1170**	ug/L	400	108	40		03/04/11 10:06	1330-20-7	
m&p-Xylene	**685**	ug/L	400	124	40		03/04/11 10:06	179601-23-1	
o-Xylene	**486**	ug/L	200	64.0	40		03/04/11 10:06	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		40		03/04/11 10:06	1868-53-7	
Toluene-d8 (S)	97	%	70-130		40		03/04/11 10:06	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		40		03/04/11 10:06	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		40		03/04/11 10:06	17060-07-0	

Sample: MW-3 **Lab ID: 9288625003** Collected: 02/23/11 11:10 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/28/11 16:55	03/01/11 10:07	106-93-4	
1-Chloro-2-bromopropane (S)	82	%	60-140		1	02/28/11 16:55	03/01/11 10:07	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	02/28/11 14:30	03/01/11 22:30	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	2500	1920	25		03/04/11 10:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	250	85.0	25		03/04/11 10:24	994-05-8	
Benzene	ND	ug/L	125	42.5	25		03/04/11 10:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2500	802	25		03/04/11 10:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2500	1440	25		03/04/11 10:24	75-65-0	
tert-Butyl Formate	ND	ug/L	1250	182	25		03/04/11 10:24	762-75-4	
1,2-Dichloroethane	ND	ug/L	125	45.0	25		03/04/11 10:24	107-06-2	
Diisopropyl ether	**1040**	ug/L	125	42.5	25		03/04/11 10:24	108-20-3	
Ethanol	ND	ug/L	5000	3440	25		03/04/11 10:24	64-17-5	
Ethylbenzene	**61.8J**	ug/L	125	40.0	25		03/04/11 10:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	90.0	25		03/04/11 10:24	637-92-3	
Methyl-tert-butyl ether	**2220**	ug/L	125	42.5	25		03/04/11 10:24	1634-04-4	
Naphthalene	**55.0J**	ug/L	125	50.0	25		03/04/11 10:24	91-20-3	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Sample: MW-3 **Lab ID: 9288625003** Collected: 02/23/11 11:10 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	ND	ug/L	125	40.0	25		03/04/11 10:24	108-88-3	
Xylene (Total)	ND	ug/L	250	67.5	25		03/04/11 10:24	1330-20-7	
m&p-Xylene	ND	ug/L	250	77.5	25		03/04/11 10:24	179601-23-1	
o-Xylene	ND	ug/L	125	40.0	25		03/04/11 10:24	95-47-6	
Dibromofluoromethane (S)	98	%	70-130		25		03/04/11 10:24	1868-53-7	
Toluene-d8 (S)	95	%	70-130		25		03/04/11 10:24	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		25		03/04/11 10:24	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		25		03/04/11 10:24	17060-07-0	

Sample: MW-4 **Lab ID: 9288625004** Collected: 02/23/11 10:45 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/28/11 16:55	03/01/11 10:28	106-93-4	
1-Chloro-2-bromopropane (S)	96	%	60-140		1	02/28/11 16:55	03/01/11 10:28	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	02/28/11 14:30	03/01/11 22:36	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**5710**	ug/L	5000	3840	50		03/02/11 18:46	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	170	50		03/02/11 18:46	994-05-8	
Benzene	**367**	ug/L	250	85.0	50		03/02/11 18:46	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	1600	50		03/02/11 18:46	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	2880	50		03/02/11 18:46	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	365	50		03/02/11 18:46	762-75-4	
1,2-Dichloroethane	ND	ug/L	250	90.0	50		03/02/11 18:46	107-06-2	
Diisopropyl ether	**4220**	ug/L	250	85.0	50		03/02/11 18:46	108-20-3	
Ethanol	ND	ug/L	10000	6890	50		03/02/11 18:46	64-17-5	
Ethylbenzene	**119J**	ug/L	250	80.0	50		03/02/11 18:46	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	180	50		03/02/11 18:46	637-92-3	
Methyl-tert-butyl ether	**8370**	ug/L	250	85.0	50		03/02/11 18:46	1634-04-4	
Naphthalene	ND	ug/L	250	100	50		03/02/11 18:46	91-20-3	
Toluene	**164J**	ug/L	250	80.0	50		03/02/11 18:46	108-88-3	
Xylene (Total)	**631**	ug/L	500	135	50		03/02/11 18:46	1330-20-7	
m&p-Xylene	**368J**	ug/L	500	155	50		03/02/11 18:46	179601-23-1	
o-Xylene	**264**	ug/L	250	80.0	50		03/02/11 18:46	95-47-6	
Dibromofluoromethane (S)	97	%	70-130		50		03/02/11 18:46	1868-53-7	
Toluene-d8 (S)	97	%	70-130		50		03/02/11 18:46	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		50		03/02/11 18:46	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		50		03/02/11 18:46	17060-07-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Sample: MW-5 **Lab ID: 9288625005** Collected: 02/23/11 11:45 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	02/28/11 16:55	03/01/11 10:48	106-93-4	
1-Chloro-2-bromopropane (S)	81	%	60-140		1	02/28/11 16:55	03/01/11 10:48	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**8.7**	ug/L	5.0	4.0	1	02/28/11 14:30	03/01/11 22:58	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/02/11 14:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/02/11 14:11	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/02/11 14:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/02/11 14:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/02/11 14:11	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/02/11 14:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/02/11 14:11	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/02/11 14:11	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/02/11 14:11	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/02/11 14:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/02/11 14:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/02/11 14:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/02/11 14:11	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/02/11 14:11	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/02/11 14:11	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/02/11 14:11	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/02/11 14:11	95-47-6	
Dibromofluoromethane (S)	104	%	70-130		1		03/02/11 14:11	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		03/02/11 14:11	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130		1		03/02/11 14:11	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		03/02/11 14:11	17060-07-0	

Sample: MW-6 **Lab ID: 9288625006** Collected: 02/23/11 11:20 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/01/11 12:10	03/01/11 14:27	106-93-4	
1-Chloro-2-bromopropane (S)	104	%	60-140		1	03/01/11 12:10	03/01/11 14:27	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**7.9**	ug/L	5.0	4.0	1	02/28/11 14:30	03/01/11 23:04	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/02/11 14:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/02/11 14:30	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/02/11 14:30	71-43-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Sample: MW-6 **Lab ID: 9288625006** Collected: 02/23/11 11:20 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/02/11 14:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/02/11 14:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/02/11 14:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/02/11 14:30	107-06-2	
Diisopropyl ether	**98.2**	ug/L	5.0	1.7	1		03/02/11 14:30	108-20-3	
Ethanol	**255**	ug/L	200	138	1		03/02/11 14:30	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/02/11 14:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/02/11 14:30	637-92-3	
Methyl-tert-butyl ether	**54.1**	ug/L	5.0	1.7	1		03/02/11 14:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/02/11 14:30	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/02/11 14:30	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/02/11 14:30	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/02/11 14:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/02/11 14:30	95-47-6	
Dibromofluoromethane (S)	104	%	70-130		1		03/02/11 14:30	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		03/02/11 14:30	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		03/02/11 14:30	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		03/02/11 14:30	17060-07-0	

Sample: MW-7 **Lab ID: 9288625007** Collected: 02/23/11 10:30 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/01/11 12:10	03/01/11 14:47	106-93-4	
1-Chloro-2-bromopropane (S)	104	%	60-140		1	03/01/11 12:10	03/01/11 14:47	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**6.4**	ug/L	5.0	4.0	1	03/01/11 12:00	03/02/11 17:29	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/02/11 14:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/02/11 14:48	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/02/11 14:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/02/11 14:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/02/11 14:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/02/11 14:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/02/11 14:48	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/02/11 14:48	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/02/11 14:48	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/02/11 14:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/02/11 14:48	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/02/11 14:48	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/02/11 14:48	91-20-3	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Sample: MW-7 **Lab ID: 9288625007** Collected: 02/23/11 10:30 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	ND	ug/L	5.0	1.6	1		03/02/11 14:48	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/02/11 14:48	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/02/11 14:48	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/02/11 14:48	95-47-6	
Dibromofluoromethane (S)	103	%	70-130		1		03/02/11 14:48	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		03/02/11 14:48	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		1		03/02/11 14:48	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		03/02/11 14:48	17060-07-0	

Sample: MW-8 **Lab ID: 9288625008** Collected: 02/23/11 10:35 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/01/11 12:10	03/01/11 15:07	106-93-4	
1-Chloro-2-bromopropane (S)	95	%	60-140		1	03/01/11 12:10	03/01/11 15:07	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	03/01/11 12:00	03/02/11 17:55	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/02/11 15:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/02/11 15:06	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/02/11 15:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/02/11 15:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/02/11 15:06	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/02/11 15:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/02/11 15:06	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/02/11 15:06	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/02/11 15:06	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/02/11 15:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/02/11 15:06	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/02/11 15:06	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/02/11 15:06	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/02/11 15:06	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/02/11 15:06	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/02/11 15:06	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/02/11 15:06	95-47-6	
Dibromofluoromethane (S)	105	%	70-130		1		03/02/11 15:06	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		03/02/11 15:06	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		1		03/02/11 15:06	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		03/02/11 15:06	17060-07-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH ISO 17025 nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Sample: MW-9 **Lab ID: 9288625009** Collected: 02/23/11 10:40 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/01/11 12:11	03/01/11 15:27	106-93-4	
1-Chloro-2-bromopropane (S)	96	%	60-140		1	03/01/11 12:11	03/01/11 15:27	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	03/01/11 12:00	03/02/11 18:02	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/02/11 15:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/02/11 15:25	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/02/11 15:25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/02/11 15:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/02/11 15:25	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/02/11 15:25	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/02/11 15:25	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/02/11 15:25	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/02/11 15:25	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/02/11 15:25	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/02/11 15:25	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/02/11 15:25	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/02/11 15:25	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/02/11 15:25	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/02/11 15:25	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/02/11 15:25	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/02/11 15:25	95-47-6	
Dibromofluoromethane (S)	101	%	70-130		1		03/02/11 15:25	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		03/02/11 15:25	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		1		03/02/11 15:25	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		03/02/11 15:25	17060-07-0	

Sample: MW-10 **Lab ID: 9288625010** Collected: 02/23/11 11:40 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/01/11 12:11	03/01/11 15:47	106-93-4	
1-Chloro-2-bromopropane (S)	93	%	60-140		1	03/01/11 12:11	03/01/11 15:47	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	03/01/11 12:00	03/02/11 18:05	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/02/11 15:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/02/11 15:43	994-05-8	
Benzene	**2.1J**	ug/L	5.0	1.7	1		03/02/11 15:43	71-43-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Sample: MW-10 **Lab ID: 9288625010** Collected: 02/23/11 11:40 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/02/11 15:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/02/11 15:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/02/11 15:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/02/11 15:43	107-06-2	
Diisopropyl ether	**46.5**	ug/L	5.0	1.7	1		03/02/11 15:43	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/02/11 15:43	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/02/11 15:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/02/11 15:43	637-92-3	
Methyl-tert-butyl ether	**62.7**	ug/L	5.0	1.7	1		03/02/11 15:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/02/11 15:43	91-20-3	
Toluene	**1.6J**	ug/L	5.0	1.6	1		03/02/11 15:43	108-88-3	
Xylene (Total)	**3.4J**	ug/L	10.0	2.7	1		03/02/11 15:43	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/02/11 15:43	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/02/11 15:43	95-47-6	
Dibromofluoromethane (S)	105	%	70-130		1		03/02/11 15:43	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		03/02/11 15:43	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		03/02/11 15:43	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		03/02/11 15:43	17060-07-0	

Sample: MW-11 **Lab ID: 9288625011** Collected: 02/23/11 11:30 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/01/11 12:12	03/01/11 16:46	106-93-4	
1-Chloro-2-bromopropane (S)	91	%	60-140		1	03/01/11 12:12	03/01/11 16:46	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	03/01/11 12:00	03/02/11 18:08	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	10000	7680	100		03/02/11 19:04	75-85-4	
tert-Amylmethyl ether	**379J**	ug/L	1000	340	100		03/02/11 19:04	994-05-8	
Benzene	**954**	ug/L	500	170	100		03/02/11 19:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	3210	100		03/02/11 19:04	624-95-3	
tert-Butyl Alcohol	ND	ug/L	10000	5770	100		03/02/11 19:04	75-65-0	
tert-Butyl Formate	ND	ug/L	5000	730	100		03/02/11 19:04	762-75-4	
1,2-Dichloroethane	ND	ug/L	500	180	100		03/02/11 19:04	107-06-2	
Diisopropyl ether	**8560**	ug/L	500	170	100		03/02/11 19:04	108-20-3	
Ethanol	ND	ug/L	20000	13800	100		03/02/11 19:04	64-17-5	
Ethylbenzene	**312J**	ug/L	500	160	100		03/02/11 19:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	360	100		03/02/11 19:04	637-92-3	
Methyl-tert-butyl ether	**22800**	ug/L	1000	340	200		03/04/11 11:56	1634-04-4	
Naphthalene	ND	ug/L	500	200	100		03/02/11 19:04	91-20-3	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH THE nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Sample: MW-11 **Lab ID: 9288625011** Collected: 02/23/11 11:30 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	**5400**	ug/L	500	160	100		03/02/11 19:04	108-88-3	
Xylene (Total)	**2660**	ug/L	1000	270	100		03/02/11 19:04	1330-20-7	
m&p-Xylene	**1550**	ug/L	1000	310	100		03/02/11 19:04	179601-23-1	
o-Xylene	**1100**	ug/L	500	160	100		03/02/11 19:04	95-47-6	
Dibromofluoromethane (S)	107	%	70-130		100		03/02/11 19:04	1868-53-7	
Toluene-d8 (S)	101	%	70-130		100		03/02/11 19:04	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		100		03/02/11 19:04	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		100		03/02/11 19:04	17060-07-0	

Sample: MW-12 **Lab ID: 9288625012** Collected: 02/23/11 13:00 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/01/11 12:12	03/01/11 17:26	106-93-4	
1-Chloro-2-bromopropane (S)	79	%	60-140		1	03/01/11 12:12	03/01/11 17:26	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	03/01/11 12:00	03/02/11 18:12	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/02/11 16:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/02/11 16:01	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/02/11 16:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/02/11 16:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/02/11 16:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/02/11 16:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/02/11 16:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/02/11 16:01	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/02/11 16:01	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/02/11 16:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/02/11 16:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/02/11 16:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/02/11 16:01	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/02/11 16:01	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/02/11 16:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/02/11 16:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/02/11 16:01	95-47-6	
Dibromofluoromethane (S)	112	%	70-130		1		03/02/11 16:01	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		03/02/11 16:01	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1		03/02/11 16:01	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		03/02/11 16:01	17060-07-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Sample: MW-13 **Lab ID: 9288625013** Collected: 02/23/11 12:55 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/01/11 12:12	03/01/11 17:46	106-93-4	
1-Chloro-2-bromopropane (S)	77	%	60-140		1	03/01/11 12:12	03/01/11 17:46	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	03/01/11 12:00	03/02/11 18:15	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/02/11 16:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/02/11 16:19	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/02/11 16:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/02/11 16:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/02/11 16:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/02/11 16:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/02/11 16:19	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/02/11 16:19	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/02/11 16:19	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/02/11 16:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/02/11 16:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/02/11 16:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/02/11 16:19	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/02/11 16:19	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/02/11 16:19	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/02/11 16:19	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/02/11 16:19	95-47-6	
Dibromofluoromethane (S)	108	%	70-130		1		03/02/11 16:19	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		03/02/11 16:19	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		03/02/11 16:19	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		03/02/11 16:19	17060-07-0	

Sample: MW-14 **Lab ID: 9288625014** Collected: 02/23/11 12:50 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/01/11 12:12	03/01/11 18:07	106-93-4	
1-Chloro-2-bromopropane (S)	63	%	60-140		1	03/01/11 12:12	03/01/11 18:07	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	03/01/11 12:00	03/02/11 18:19	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/02/11 16:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/02/11 16:38	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/02/11 16:38	71-43-2	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Sample: MW-14 **Lab ID: 9288625014** Collected: 02/23/11 12:50 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/02/11 16:38	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/02/11 16:38	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/02/11 16:38	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/02/11 16:38	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/02/11 16:38	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/02/11 16:38	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/02/11 16:38	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/02/11 16:38	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/02/11 16:38	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/02/11 16:38	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/02/11 16:38	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/02/11 16:38	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/02/11 16:38	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/02/11 16:38	95-47-6	
Dibromofluoromethane (S)	104	%	70-130		1		03/02/11 16:38	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		03/02/11 16:38	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		1		03/02/11 16:38	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		03/02/11 16:38	17060-07-0	

Sample: MW-15 **Lab ID: 9288625015** Collected: 02/23/11 14:45 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/01/11 12:13	03/01/11 18:26	106-93-4	
1-Chloro-2-bromopropane (S)	124	%	60-140		1	03/01/11 12:13	03/01/11 18:26	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**4.1J**	ug/L	5.0	4.0	1	03/01/11 12:00	03/02/11 18:22	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/02/11 16:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/02/11 16:56	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/02/11 16:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/02/11 16:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/02/11 16:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/02/11 16:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/02/11 16:56	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/02/11 16:56	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/02/11 16:56	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/02/11 16:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/02/11 16:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/02/11 16:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/02/11 16:56	91-20-3	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Sample: MW-15 **Lab ID: 9288625015** Collected: 02/23/11 14:45 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	ND	ug/L	5.0	1.6	1		03/02/11 16:56	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/02/11 16:56	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/02/11 16:56	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/02/11 16:56	95-47-6	
Dibromofluoromethane (S)	103	%	70-130		1		03/02/11 16:56	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		03/02/11 16:56	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		03/02/11 16:56	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		03/02/11 16:56	17060-07-0	

Sample: MW-16 **Lab ID: 9288625016** Collected: 02/23/11 14:50 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/01/11 12:13	03/01/11 18:46	106-93-4	
1-Chloro-2-bromopropane (S)	122	%	60-140		1	03/01/11 12:13	03/01/11 18:46	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**17.6**	ug/L	5.0	4.0	1	03/01/11 12:00	03/02/11 18:25	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/02/11 17:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/02/11 17:14	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/02/11 17:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/02/11 17:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/02/11 17:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/02/11 17:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/02/11 17:14	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/02/11 17:14	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/02/11 17:14	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/02/11 17:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/02/11 17:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/02/11 17:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/02/11 17:14	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/02/11 17:14	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/02/11 17:14	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/02/11 17:14	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/02/11 17:14	95-47-6	
Dibromofluoromethane (S)	104	%	70-130		1		03/02/11 17:14	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		03/02/11 17:14	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		1		03/02/11 17:14	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		03/02/11 17:14	17060-07-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Sample: MW-17 **Lab ID: 9288625017** Collected: 02/23/11 14:55 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/01/11 12:13	03/01/11 19:06	106-93-4	
1-Chloro-2-bromopropane (S)	111	%	60-140		1	03/01/11 12:13	03/01/11 19:06	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**47.2**	ug/L	5.0	4.0	1	03/01/11 12:00	03/02/11 18:39	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/02/11 17:33	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/02/11 17:33	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/02/11 17:33	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/02/11 17:33	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/02/11 17:33	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/02/11 17:33	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/02/11 17:33	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/02/11 17:33	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/02/11 17:33	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/02/11 17:33	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/02/11 17:33	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/02/11 17:33	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/02/11 17:33	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/02/11 17:33	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/02/11 17:33	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/02/11 17:33	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/02/11 17:33	95-47-6	
Dibromofluoromethane (S)	108	%	70-130		1		03/02/11 17:33	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		03/02/11 17:33	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		03/02/11 17:33	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		03/02/11 17:33	17060-07-0	

Sample: MW-18 **Lab ID: 9288625018** Collected: 02/23/11 14:00 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/01/11 12:13	03/01/11 19:26	106-93-4	
1-Chloro-2-bromopropane (S)	130	%	60-140		1	03/01/11 12:13	03/01/11 19:26	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**14.3**	ug/L	5.0	4.0	1	03/01/11 12:00	03/02/11 18:42	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/02/11 23:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/02/11 23:01	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/02/11 23:01	71-43-2	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Sample: MW-18 **Lab ID: 9288625018** Collected: 02/23/11 14:00 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/02/11 23:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/02/11 23:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/02/11 23:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/02/11 23:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/02/11 23:01	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/02/11 23:01	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/02/11 23:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/02/11 23:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/02/11 23:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/02/11 23:01	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/02/11 23:01	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/02/11 23:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/02/11 23:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/02/11 23:01	95-47-6	
Dibromofluoromethane (S)	108	%	70-130		1		03/02/11 23:01	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		03/02/11 23:01	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		1		03/02/11 23:01	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		03/02/11 23:01	17060-07-0	

Sample: MW-19D **Lab ID: 9288625019** Collected: 02/23/11 12:25 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/01/11 12:13	03/01/11 19:46	106-93-4	
1-Chloro-2-bromopropane (S)	114	%	60-140		1	03/01/11 12:13	03/01/11 19:46	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	03/01/11 12:00	03/02/11 18:46	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/02/11 23:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/02/11 23:19	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/02/11 23:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/02/11 23:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/02/11 23:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/02/11 23:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/02/11 23:19	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/02/11 23:19	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/02/11 23:19	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/02/11 23:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/02/11 23:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/02/11 23:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/02/11 23:19	91-20-3	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Sample: MW-19D **Lab ID: 9288625019** Collected: 02/23/11 12:25 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	ND	ug/L	5.0	1.6	1		03/02/11 23:19	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/02/11 23:19	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/02/11 23:19	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/02/11 23:19	95-47-6	
Dibromofluoromethane (S)	105	%	70-130		1		03/02/11 23:19	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		03/02/11 23:19	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		1		03/02/11 23:19	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		03/02/11 23:19	17060-07-0	

Sample: MW-20D **Lab ID: 9288625020** Collected: 02/23/11 12:15 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/01/11 12:13	03/01/11 20:06	106-93-4	
1-Chloro-2-bromopropane (S)	110	%	60-140		1	03/01/11 12:13	03/01/11 20:06	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	03/01/11 12:00	03/02/11 18:49	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	2500	1920	25		03/02/11 19:22	75-85-4	
tert-Amylmethyl ether	ND	ug/L	250	85.0	25		03/02/11 19:22	994-05-8	
Benzene	**214**	ug/L	125	42.5	25		03/02/11 19:22	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2500	802	25		03/02/11 19:22	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2500	1440	25		03/02/11 19:22	75-65-0	
tert-Butyl Formate	ND	ug/L	1250	182	25		03/02/11 19:22	762-75-4	
1,2-Dichloroethane	ND	ug/L	125	45.0	25		03/02/11 19:22	107-06-2	
Diisopropyl ether	**1300**	ug/L	125	42.5	25		03/02/11 19:22	108-20-3	
Ethanol	ND	ug/L	5000	3440	25		03/02/11 19:22	64-17-5	
Ethylbenzene	ND	ug/L	125	40.0	25		03/02/11 19:22	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	90.0	25		03/02/11 19:22	637-92-3	
Methyl-tert-butyl ether	**2780**	ug/L	125	42.5	25		03/02/11 19:22	1634-04-4	
Naphthalene	ND	ug/L	125	50.0	25		03/02/11 19:22	91-20-3	
Toluene	**359**	ug/L	125	40.0	25		03/02/11 19:22	108-88-3	
Xylene (Total)	**297**	ug/L	250	67.5	25		03/02/11 19:22	1330-20-7	
m&p-Xylene	**128J**	ug/L	250	77.5	25		03/02/11 19:22	179601-23-1	
o-Xylene	**169**	ug/L	125	40.0	25		03/02/11 19:22	95-47-6	
Dibromofluoromethane (S)	103	%	70-130		25		03/02/11 19:22	1868-53-7	
Toluene-d8 (S)	99	%	70-130		25		03/02/11 19:22	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		25		03/02/11 19:22	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		25		03/02/11 19:22	17060-07-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Sample: MW-21D **Lab ID: 9288625021** Collected: 02/23/11 12:05 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/01/11 12:13	03/01/11 20:26	106-93-4	
1-Chloro-2-bromopropane (S)	111	%	60-140		1	03/01/11 12:13	03/01/11 20:26	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	03/01/11 12:00	03/02/11 18:53	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/02/11 23:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/02/11 23:37	994-05-8	
Benzene	**2.1J**	ug/L	5.0	1.7	1		03/02/11 23:37	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/02/11 23:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/02/11 23:37	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/02/11 23:37	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/02/11 23:37	107-06-2	
Diisopropyl ether	**45.5**	ug/L	5.0	1.7	1		03/02/11 23:37	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/02/11 23:37	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/02/11 23:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/02/11 23:37	637-92-3	
Methyl-tert-butyl ether	**62.9**	ug/L	5.0	1.7	1		03/02/11 23:37	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/02/11 23:37	91-20-3	
Toluene	**1.7J**	ug/L	5.0	1.6	1		03/02/11 23:37	108-88-3	
Xylene (Total)	**3.7J**	ug/L	10.0	2.7	1		03/02/11 23:37	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/02/11 23:37	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/02/11 23:37	95-47-6	
Dibromofluoromethane (S)	106	%	70-130		1		03/02/11 23:37	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		03/02/11 23:37	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1		03/02/11 23:37	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		03/02/11 23:37	17060-07-0	

Sample: MW-22D **Lab ID: 9288625022** Collected: 02/23/11 13:40 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/01/11 12:14	03/01/11 20:46	106-93-4	
1-Chloro-2-bromopropane (S)	113	%	60-140		1	03/01/11 12:14	03/01/11 20:46	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	03/01/11 12:00	03/02/11 18:56	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/02/11 23:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/02/11 23:55	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/02/11 23:55	71-43-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Sample: MW-22D **Lab ID: 9288625022** Collected: 02/23/11 13:40 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/02/11 23:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/02/11 23:55	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/02/11 23:55	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/02/11 23:55	107-06-2	
Diisopropyl ether	**147**	ug/L	5.0	1.7	1		03/02/11 23:55	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/02/11 23:55	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/02/11 23:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/02/11 23:55	637-92-3	
Methyl-tert-butyl ether	**282**	ug/L	125	42.5	25		03/04/11 12:32	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/02/11 23:55	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/02/11 23:55	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/02/11 23:55	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/02/11 23:55	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/02/11 23:55	95-47-6	
Dibromofluoromethane (S)	101	%	70-130		1		03/02/11 23:55	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		03/02/11 23:55	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		1		03/02/11 23:55	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/02/11 23:55	17060-07-0	

Sample: MW-23D **Lab ID: 9288625023** Collected: 02/23/11 15:00 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/01/11 12:14	03/01/11 21:07	106-93-4	
1-Chloro-2-bromopropane (S)	80	%	60-140		1	03/01/11 12:14	03/01/11 21:07	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	03/01/11 12:00	03/02/11 19:00	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/03/11 00:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/03/11 00:14	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/03/11 00:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/03/11 00:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/03/11 00:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/03/11 00:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/03/11 00:14	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/03/11 00:14	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/03/11 00:14	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/03/11 00:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/03/11 00:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/03/11 00:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/03/11 00:14	91-20-3	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Sample: MW-23D **Lab ID: 9288625023** Collected: 02/23/11 15:00 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Toluene	ND	ug/L	5.0	1.6	1		03/03/11 00:14	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/03/11 00:14	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/03/11 00:14	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/03/11 00:14	95-47-6	
Dibromofluoromethane (S)	106	%	70-130		1		03/03/11 00:14	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		03/03/11 00:14	2037-26-5	
4-Bromofluorobenzene (S)	106	%	70-130		1		03/03/11 00:14	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/03/11 00:14	17060-07-0	

Sample: MW-24D **Lab ID: 9288625024** Collected: 02/23/11 14:20 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/01/11 12:14	03/01/11 21:27	106-93-4	
1-Chloro-2-bromopropane (S)	105	%	60-140		1	03/01/11 12:14	03/01/11 21:27	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	03/01/11 12:00	03/02/11 19:03	7439-92-1	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/03/11 00:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/03/11 00:32	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/03/11 00:32	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/03/11 00:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/03/11 00:32	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/03/11 00:32	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/03/11 00:32	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/03/11 00:32	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/03/11 00:32	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/03/11 00:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/03/11 00:32	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/03/11 00:32	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/03/11 00:32	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/03/11 00:32	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/03/11 00:32	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/03/11 00:32	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/03/11 00:32	95-47-6	
Dibromofluoromethane (S)	107	%	70-130		1		03/03/11 00:32	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		03/03/11 00:32	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		03/03/11 00:32	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		03/03/11 00:32	17060-07-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Sample: WSW-1 **Lab ID: 9288625025** Collected: 02/23/11 14:05 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/01/11 12:14	03/01/11 21:47	106-93-4	
1-Chloro-2-bromopropane (S)	86	%	60-140		1	03/01/11 12:14	03/01/11 21:47	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.7	1		03/03/11 00:50	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/03/11 00:50	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/03/11 00:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/03/11 00:50	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/03/11 00:50	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/03/11 00:50	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/03/11 00:50	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/03/11 00:50	95-47-6	
Dibromofluoromethane (S)	103	%	70-130		1		03/03/11 00:50	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		03/03/11 00:50	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1		03/03/11 00:50	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		03/03/11 00:50	17060-07-0	

Sample: WSW-2 **Lab ID: 9288625026** Collected: 02/23/11 15:40 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/01/11 13:56	03/01/11 23:26	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	03/01/11 13:56	03/01/11 23:26	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.7	1		03/03/11 01:08	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/03/11 01:08	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/03/11 01:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/03/11 01:08	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/03/11 01:08	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/03/11 01:08	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/03/11 01:08	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/03/11 01:08	95-47-6	
Dibromofluoromethane (S)	107	%	70-130		1		03/03/11 01:08	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		03/03/11 01:08	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		1		03/03/11 01:08	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		03/03/11 01:08	17060-07-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH THE NELAC STANDARDS
nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Sample: WSW-4 **Lab ID: 9288625027** Collected: 02/23/11 15:35 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/01/11 13:56	03/02/11 00:26	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	03/01/11 13:56	03/02/11 00:26	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.7	1		03/03/11 01:26	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/03/11 01:26	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/03/11 01:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/03/11 01:26	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/03/11 01:26	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/03/11 01:26	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/03/11 01:26	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/03/11 01:26	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		03/03/11 01:26	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		03/03/11 01:26	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		03/03/11 01:26	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		03/03/11 01:26	17060-07-0	

Sample: WSW-5 **Lab ID: 9288625028** Collected: 02/23/11 16:00 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/01/11 13:56	03/02/11 01:06	106-93-4	
1-Chloro-2-bromopropane (S)	103	%	60-140		1	03/01/11 13:56	03/02/11 01:06	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.7	1		03/03/11 01:45	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/03/11 01:45	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/03/11 01:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/03/11 01:45	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/03/11 01:45	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/03/11 01:45	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/03/11 01:45	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/03/11 01:45	95-47-6	
Dibromofluoromethane (S)	107	%	70-130		1		03/03/11 01:45	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		03/03/11 01:45	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		1		03/03/11 01:45	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		03/03/11 01:45	17060-07-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Sample: WSW-6 **Lab ID: 9288625029** Collected: 02/23/11 14:15 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/01/11 13:56	03/02/11 01:26	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		1	03/01/11 13:56	03/02/11 01:26	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.7	1		03/03/11 02:03	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/03/11 02:03	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/03/11 02:03	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/03/11 02:03	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/03/11 02:03	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/03/11 02:03	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/03/11 02:03	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/03/11 02:03	95-47-6	
Dibromofluoromethane (S)	103	%	70-130		1		03/03/11 02:03	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		03/03/11 02:03	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		03/03/11 02:03	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		03/03/11 02:03	17060-07-0	

Sample: WSW-7 **Lab ID: 9288625030** Collected: 02/23/11 15:30 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/01/11 13:57	03/02/11 01:46	106-93-4	
1-Chloro-2-bromopropane (S)	105	%	60-140		1	03/01/11 13:57	03/02/11 01:46	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.7	1		03/03/11 02:21	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/03/11 02:21	100-41-4	
Methyl-tert-butyl ether	**3.1J**	ug/L	5.0	1.7	1		03/03/11 02:21	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/03/11 02:21	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/03/11 02:21	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/03/11 02:21	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/03/11 02:21	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/03/11 02:21	95-47-6	
Dibromofluoromethane (S)	104	%	70-130		1		03/03/11 02:21	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		03/03/11 02:21	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		1		03/03/11 02:21	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		03/03/11 02:21	17060-07-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

Sample: WSW-8 **Lab ID: 9288625031** Collected: 02/23/11 12:35 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/01/11 13:57	03/02/11 02:06	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	03/01/11 13:57	03/02/11 02:06	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.7	1		03/03/11 02:39	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/03/11 02:39	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/03/11 02:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/03/11 02:39	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/03/11 02:39	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/03/11 02:39	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/03/11 02:39	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/03/11 02:39	95-47-6	
Dibromofluoromethane (S)	104	%	70-130		1		03/03/11 02:39	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		03/03/11 02:39	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		1		03/03/11 02:39	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		03/03/11 02:39	17060-07-0	

Sample: WSW-9 **Lab ID: 9288625032** Collected: 02/23/11 12:40 Received: 02/25/11 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/01/11 13:57	03/02/11 02:25	106-93-4	
1-Chloro-2-bromopropane (S)	104	%	60-140		1	03/01/11 13:57	03/02/11 02:25	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.7	1		03/03/11 02:57	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/03/11 02:57	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/03/11 02:57	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/03/11 02:57	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/03/11 02:57	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/03/11 02:57	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/03/11 02:57	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/03/11 02:57	95-47-6	
Dibromofluoromethane (S)	109	%	70-130		1		03/03/11 02:57	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		03/03/11 02:57	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1		03/03/11 02:57	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		03/03/11 02:57	17060-07-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

QC Batch: OEXT/12803 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9288625001, 9288625002, 9288625003, 9288625004, 9288625005

METHOD BLANK: 570929 Matrix: Water
Associated Lab Samples: 9288625001, 9288625002, 9288625003, 9288625004, 9288625005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	03/01/11 02:25	
1-Chloro-2-bromopropane (S)	%	103	60-140	03/01/11 02:25	

LABORATORY CONTROL SAMPLE & LCSD: 570930 570931

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.28	0.32	0.31	112	110	60-140	2	20	
1-Chloro-2-bromopropane (S)	%				102	99	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 570932 570933

Parameter	Units	9288571053 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.27	.27	0.29	0.27	104	100	60-140	4	20	
1-Chloro-2-bromopropane (S)	%						95	93	60-140			

SAMPLE DUPLICATE: 570934

Parameter	Units	9288571054 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	90	98	7		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH THE nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

QC Batch: OEXT/12808 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9288625006, 9288625007, 9288625008, 9288625009, 9288625010, 9288625011, 9288625012, 9288625013, 9288625014, 9288625015, 9288625016, 9288625017, 9288625018, 9288625019, 9288625020, 9288625021, 9288625022, 9288625023, 9288625024, 9288625025

METHOD BLANK: 571108 Matrix: Water
Associated Lab Samples: 9288625006, 9288625007, 9288625008, 9288625009, 9288625010, 9288625011, 9288625012, 9288625013, 9288625014, 9288625015, 9288625016, 9288625017, 9288625018, 9288625019, 9288625020, 9288625021, 9288625022, 9288625023, 9288625024, 9288625025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.019	03/01/11 13:27	
1-Chloro-2-bromopropane (S)	%	98	60-140	03/01/11 13:27	

LABORATORY CONTROL SAMPLE & LCSD: 571109 571110

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.28	0.25	0.28	92	98	60-140	9	20	
1-Chloro-2-bromopropane (S)	%				104	92	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 571111 571112

Parameter	Units	9288625010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.26	0.26	92	92	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						93	72	60-140			

SAMPLE DUPLICATE: 571113

Parameter	Units	9288625011 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	91	72	20		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

QC Batch: OEXT/12809 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9288625026, 9288625027, 9288625028, 9288625029, 9288625030, 9288625031, 9288625032

METHOD BLANK: 571115 Matrix: Water
Associated Lab Samples: 9288625026, 9288625027, 9288625028, 9288625029, 9288625030, 9288625031, 9288625032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.019	03/01/11 22:27	
1-Chloro-2-bromopropane (S)	%	95	60-140	03/01/11 22:27	

LABORATORY CONTROL SAMPLE & LCSD: 571116 571117

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.28	0.23	0.32	84	114	60-140	32	20	R1
1-Chloro-2-bromopropane (S)	%				81	106	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 571118 571119

Parameter	Units	9288625026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.33	0.33	118	118	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						108	110	60-140			

SAMPLE DUPLICATE: 571120

Parameter	Units	9288625027 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	102	98	6		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

QC Batch: MPRP/7930 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 9288625001, 9288625002, 9288625003, 9288625004, 9288625005, 9288625006

METHOD BLANK: 570667 Matrix: Water
Associated Lab Samples: 9288625001, 9288625002, 9288625003, 9288625004, 9288625005, 9288625006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/01/11 20:20	

LABORATORY CONTROL SAMPLE: 570668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	472	94	80-120	

MATRIX SPIKE SAMPLE: 570669

Parameter	Units	9288229018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	500	462	92	75-125	

SAMPLE DUPLICATE: 570670

Parameter	Units	9288229019 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	ND	ND		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

QC Batch: MPRP/7938 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 9288625007, 9288625008, 9288625009, 9288625010, 9288625011, 9288625012, 9288625013, 9288625014, 9288625015, 9288625016, 9288625017, 9288625018, 9288625019, 9288625020, 9288625021, 9288625022, 9288625023, 9288625024

METHOD BLANK: 571037 Matrix: Water
Associated Lab Samples: 9288625007, 9288625008, 9288625009, 9288625010, 9288625011, 9288625012, 9288625013, 9288625014, 9288625015, 9288625016, 9288625017, 9288625018, 9288625019, 9288625020, 9288625021, 9288625022, 9288625023, 9288625024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	03/02/11 17:23	

LABORATORY CONTROL SAMPLE: 571038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	483	97	80-120	

MATRIX SPIKE SAMPLE: 571039

Parameter	Units	9288625007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	6.4	500	452	89	75-125	

SAMPLE DUPLICATE: 571040

Parameter	Units	9288625008 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	ND	ND		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

QC Batch: MSV/14256 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates SC
Associated Lab Samples: 9288625001, 9288625004, 9288625005, 9288625006, 9288625007, 9288625008, 9288625009, 9288625010, 9288625011, 9288625012, 9288625013, 9288625014, 9288625015, 9288625016, 9288625017, 9288625020

METHOD BLANK: 571288 Matrix: Water
Associated Lab Samples: 9288625001, 9288625004, 9288625005, 9288625006, 9288625007, 9288625008, 9288625009, 9288625010, 9288625011, 9288625012, 9288625013, 9288625014, 9288625015, 9288625016, 9288625017, 9288625020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	03/02/11 10:50	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	03/02/11 10:50	
Benzene	ug/L	ND	5.0	03/02/11 10:50	
Diisopropyl ether	ug/L	ND	5.0	03/02/11 10:50	
Ethanol	ug/L	ND	200	03/02/11 10:50	
Ethyl-tert-butyl ether	ug/L	ND	10.0	03/02/11 10:50	
Ethylbenzene	ug/L	ND	5.0	03/02/11 10:50	
m&p-Xylene	ug/L	ND	10.0	03/02/11 10:50	
Methyl-tert-butyl ether	ug/L	ND	5.0	03/02/11 10:50	
Naphthalene	ug/L	ND	5.0	03/02/11 10:50	
o-Xylene	ug/L	ND	5.0	03/02/11 10:50	
tert-Amyl Alcohol	ug/L	ND	100	03/02/11 10:50	
tert-Amylmethyl ether	ug/L	ND	10.0	03/02/11 10:50	
tert-Butyl Alcohol	ug/L	ND	100	03/02/11 10:50	
tert-Butyl Formate	ug/L	ND	50.0	03/02/11 10:50	
Toluene	ug/L	ND	5.0	03/02/11 10:50	
Xylene (Total)	ug/L	ND	10.0	03/02/11 10:50	
1,2-Dichloroethane-d4 (S)	%	100	70-130	03/02/11 10:50	
4-Bromofluorobenzene (S)	%	104	70-130	03/02/11 10:50	
Dibromofluoromethane (S)	%	97	70-130	03/02/11 10:50	
Toluene-d8 (S)	%	101	70-130	03/02/11 10:50	

LABORATORY CONTROL SAMPLE: 571289

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	53.3	107	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1000	100	70-130	
Benzene	ug/L	50	52.5	105	70-130	
Diisopropyl ether	ug/L	50	52.1	104	70-130	
Ethanol	ug/L	2000	2210	110	70-130	
Ethyl-tert-butyl ether	ug/L	100	103	103	70-130	
Ethylbenzene	ug/L	50	52.4	105	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	51.3	103	70-130	
Naphthalene	ug/L	50	57.3	115	70-130	
o-Xylene	ug/L	50	53.4	107	70-130	
tert-Amyl Alcohol	ug/L	1000	1110	111	70-130	
tert-Amylmethyl ether	ug/L	100	103	103	70-130	
tert-Butyl Alcohol	ug/L	500	589	118	70-130	
tert-Butyl Formate	ug/L	400	420	105	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

LABORATORY CONTROL SAMPLE: 571289

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	54.6	109	70-130	
Xylene (Total)	ug/L	150	159	106	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			96	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 571290 571291

Parameter	Units	9288625008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	50.4	63.2	101	126	70-130	22	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	632	816	63	82	70-130	25	30	M0
Benzene	ug/L	ND	50	50	50.7	62.6	101	125	70-130	21	30	
Diisopropyl ether	ug/L	ND	50	50	46.9	59.0	94	118	70-130	23	30	
Ethanol	ug/L	ND	2000	2000	1030	1580	51	79	70-130	43	30	M0,R1
Ethyl-tert-butyl ether	ug/L	ND	100	100	98.7	122	99	122	70-130	21	30	
Ethylbenzene	ug/L	ND	50	50	51.7	57.1	103	114	70-130	10	30	
m&p-Xylene	ug/L	ND	100	100	100	115	100	115	70-130	14	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	48.4	60.0	97	120	70-130	21	30	
Naphthalene	ug/L	ND	50	50	47.9	55.9	96	112	70-130	15	30	
o-Xylene	ug/L	ND	50	50	48.6	56.6	97	113	70-130	15	30	
tert-Amyl Alcohol	ug/L	ND	1000	1000	844	1110	84	111	70-130	27	30	
tert-Amylmethyl ether	ug/L	ND	100	100	98.1	124	98	124	70-130	23	30	
tert-Butyl Alcohol	ug/L	ND	500	500	850	1110	170	222	70-130	27	30	M0
tert-Butyl Formate	ug/L	ND	400	400	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	ND	50	50	48.6	61.5	97	123	70-130	23	30	
1,2-Dichloroethane-d4 (S)	%						103	105	70-130			
4-Bromofluorobenzene (S)	%						102	98	70-130			
Dibromofluoromethane (S)	%						108	105	70-130			
Toluene-d8 (S)	%						97	101	70-130			

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

QC Batch: MSV/14258 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates SC
Associated Lab Samples: 9288625018, 9288625019, 9288625021, 9288625022, 9288625023, 9288625024, 9288625025, 9288625026, 9288625027, 9288625028, 9288625029, 9288625030

METHOD BLANK: 571294 Matrix: Water
Associated Lab Samples: 9288625018, 9288625019, 9288625021, 9288625022, 9288625023, 9288625024, 9288625025, 9288625026, 9288625027, 9288625028, 9288625029, 9288625030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	03/02/11 22:24	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	03/02/11 22:24	
Benzene	ug/L	ND	5.0	03/02/11 22:24	
Diisopropyl ether	ug/L	ND	5.0	03/02/11 22:24	
Ethanol	ug/L	ND	200	03/02/11 22:24	
Ethyl-tert-butyl ether	ug/L	ND	10.0	03/02/11 22:24	
Ethylbenzene	ug/L	ND	5.0	03/02/11 22:24	
m&p-Xylene	ug/L	ND	10.0	03/02/11 22:24	
Methyl-tert-butyl ether	ug/L	ND	5.0	03/02/11 22:24	
Naphthalene	ug/L	ND	5.0	03/02/11 22:24	
o-Xylene	ug/L	ND	5.0	03/02/11 22:24	
tert-Amyl Alcohol	ug/L	ND	100	03/02/11 22:24	
tert-Amylmethyl ether	ug/L	ND	10.0	03/02/11 22:24	
tert-Butyl Alcohol	ug/L	ND	100	03/02/11 22:24	
tert-Butyl Formate	ug/L	ND	50.0	03/02/11 22:24	
Toluene	ug/L	ND	5.0	03/02/11 22:24	
Xylene (Total)	ug/L	ND	10.0	03/02/11 22:24	
1,2-Dichloroethane-d4 (S)	%	103	70-130	03/02/11 22:24	
4-Bromofluorobenzene (S)	%	104	70-130	03/02/11 22:24	
Dibromofluoromethane (S)	%	105	70-130	03/02/11 22:24	
Toluene-d8 (S)	%	97	70-130	03/02/11 22:24	

LABORATORY CONTROL SAMPLE: 571295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	57.0	114	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	983	98	70-130	
Benzene	ug/L	50	53.1	106	70-130	
Diisopropyl ether	ug/L	50	51.2	102	70-130	
Ethanol	ug/L	2000	1710	85	70-130	
Ethyl-tert-butyl ether	ug/L	100	107	107	70-130	
Ethylbenzene	ug/L	50	52.7	105	70-130	
m&p-Xylene	ug/L	100	106	106	70-130	
Methyl-tert-butyl ether	ug/L	50	51.3	103	70-130	
Naphthalene	ug/L	50	56.9	114	70-130	
o-Xylene	ug/L	50	53.6	107	70-130	
tert-Amyl Alcohol	ug/L	1000	1020	102	70-130	
tert-Amylmethyl ether	ug/L	100	108	108	70-130	
tert-Butyl Alcohol	ug/L	500	533	107	70-130	
tert-Butyl Formate	ug/L	400	386	96	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

LABORATORY CONTROL SAMPLE: 571295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	54.1	108	70-130	
Xylene (Total)	ug/L	150	160	107	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 571296 571297

Parameter	Units	9288625018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	52.9	57.7	106	115	70-130	9	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	661	833	66	83	70-130	23	30	M0
Benzene	ug/L	ND	50	50	52.5	57.4	105	115	70-130	9	30	
Diisopropyl ether	ug/L	ND	50	50	52.7	58.1	105	116	70-130	10	30	
Ethanol	ug/L	ND	2000	2000	1150	1930	57	97	70-130	51	30	M0,R1
Ethyl-tert-butyl ether	ug/L	ND	100	100	106	120	106	120	70-130	12	30	
Ethylbenzene	ug/L	ND	50	50	49.2	57.3	98	115	70-130	15	30	
m&p-Xylene	ug/L	ND	100	100	98.0	115	98	115	70-130	16	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	55.3	61.8	111	124	70-130	11	30	
Naphthalene	ug/L	ND	50	50	47.3	55.0	95	110	70-130	15	30	
o-Xylene	ug/L	ND	50	50	48.7	56.3	97	113	70-130	14	30	
tert-Amyl Alcohol	ug/L	ND	1000	1000	869	1030	87	103	70-130	17	30	
tert-Amylmethyl ether	ug/L	ND	100	100	102	117	102	117	70-130	14	30	
tert-Butyl Alcohol	ug/L	ND	500	500	908	1130	182	226	70-130	22	30	M0
tert-Butyl Formate	ug/L	ND	400	400	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	ND	50	50	52.0	58.2	104	116	70-130	11	30	
1,2-Dichloroethane-d4 (S)	%						104	102	70-130			
4-Bromofluorobenzene (S)	%						95	100	70-130			
Dibromofluoromethane (S)	%						104	108	70-130			
Toluene-d8 (S)	%						98	98	70-130			

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

QC Batch: MSV/14259
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Oxygenates SC
Associated Lab Samples: 9288625031, 9288625032

METHOD BLANK: 571300
Matrix: Water
Associated Lab Samples: 9288625031, 9288625032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	5.0	03/02/11 22:43	
Ethylbenzene	ug/L	ND	5.0	03/02/11 22:43	
m&p-Xylene	ug/L	ND	10.0	03/02/11 22:43	
Methyl-tert-butyl ether	ug/L	ND	5.0	03/02/11 22:43	
Naphthalene	ug/L	ND	5.0	03/02/11 22:43	
o-Xylene	ug/L	ND	5.0	03/02/11 22:43	
Toluene	ug/L	ND	5.0	03/02/11 22:43	
Xylene (Total)	ug/L	ND	10.0	03/02/11 22:43	
1,2-Dichloroethane-d4 (S)	%	104	70-130	03/02/11 22:43	
4-Bromofluorobenzene (S)	%	103	70-130	03/02/11 22:43	
Dibromofluoromethane (S)	%	106	70-130	03/02/11 22:43	
Toluene-d8 (S)	%	99	70-130	03/02/11 22:43	

LABORATORY CONTROL SAMPLE: 571301

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	55.1	110	70-130	
Ethylbenzene	ug/L	50	55.0	110	70-130	
m&p-Xylene	ug/L	100	108	108	70-130	
Methyl-tert-butyl ether	ug/L	50	53.3	107	70-130	
Naphthalene	ug/L	50	59.9	120	70-130	
o-Xylene	ug/L	50	55.6	111	70-130	
Toluene	ug/L	50	58.1	116	70-130	
Xylene (Total)	ug/L	150	164	109	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			103	70-130	
Toluene-d8 (S)	%			108	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 571302 571303

Parameter	Units	9288625032 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	50.5	54.7	101	109	70-130	8	30	
Ethylbenzene	ug/L	ND	50	50	49.6	51.5	99	103	70-130	4	30	
m&p-Xylene	ug/L	ND	100	100	99.7	103	100	103	70-130	4	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	50.8	54.5	102	109	70-130	7	30	
Naphthalene	ug/L	ND	50	50	47.9	45.3	96	91	70-130	6	30	
o-Xylene	ug/L	ND	50	50	48.5	50.2	97	100	70-130	3	30	
Toluene	ug/L	ND	50	50	50.1	53.7	100	107	70-130	7	30	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH ISO 17025 nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 571302 571303

Parameter	Units	9288625032 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane-d4 (S)	%						101	97	70-130			
4-Bromofluorobenzene (S)	%						101	98	70-130			
Dibromofluoromethane (S)	%						102	104	70-130			
Toluene-d8 (S)	%						100	99	70-130			

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

QC Batch: MSV/14281
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Oxygenates SC
Associated Lab Samples: 9288625002, 9288625003

METHOD BLANK: 572823
Matrix: Water
Associated Lab Samples: 9288625002, 9288625003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	03/04/11 09:29	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	03/04/11 09:29	
Benzene	ug/L	ND	5.0	03/04/11 09:29	
Diisopropyl ether	ug/L	ND	5.0	03/04/11 09:29	
Ethanol	ug/L	ND	200	03/04/11 09:29	
Ethyl-tert-butyl ether	ug/L	ND	10.0	03/04/11 09:29	
Ethylbenzene	ug/L	ND	5.0	03/04/11 09:29	
m&p-Xylene	ug/L	ND	10.0	03/04/11 09:29	
Methyl-tert-butyl ether	ug/L	ND	5.0	03/04/11 09:29	
Naphthalene	ug/L	ND	5.0	03/04/11 09:29	
o-Xylene	ug/L	ND	5.0	03/04/11 09:29	
tert-Amyl Alcohol	ug/L	ND	100	03/04/11 09:29	
tert-Amylmethyl ether	ug/L	ND	10.0	03/04/11 09:29	
tert-Butyl Alcohol	ug/L	ND	100	03/04/11 09:29	
tert-Butyl Formate	ug/L	ND	50.0	03/04/11 09:29	
Toluene	ug/L	ND	5.0	03/04/11 09:29	
Xylene (Total)	ug/L	ND	10.0	03/04/11 09:29	
1,2-Dichloroethane-d4 (S)	%	104	70-130	03/04/11 09:29	
4-Bromofluorobenzene (S)	%	96	70-130	03/04/11 09:29	
Dibromofluoromethane (S)	%	105	70-130	03/04/11 09:29	
Toluene-d8 (S)	%	103	70-130	03/04/11 09:29	

LABORATORY CONTROL SAMPLE: 572824

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	56.4	113	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	881	88	70-130	
Benzene	ug/L	50	53.6	107	70-130	
Diisopropyl ether	ug/L	50	56.5	113	70-130	
Ethanol	ug/L	2000	2180	109	70-130	
Ethyl-tert-butyl ether	ug/L	100	110	110	70-130	
Ethylbenzene	ug/L	50	53.3	107	70-130	
m&p-Xylene	ug/L	100	107	107	70-130	
Methyl-tert-butyl ether	ug/L	50	53.2	106	70-130	
Naphthalene	ug/L	50	54.7	109	70-130	
o-Xylene	ug/L	50	53.5	107	70-130	
tert-Amyl Alcohol	ug/L	1000	1010	101	70-130	
tert-Amylmethyl ether	ug/L	100	103	103	70-130	
tert-Butyl Alcohol	ug/L	500	508	102	70-130	
tert-Butyl Formate	ug/L	400	422	105	70-130	
Toluene	ug/L	50	56.0	112	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH THE NELAC STANDARDS
nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

LABORATORY CONTROL SAMPLE: 572824

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	160	107	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			104	70-130	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: McGILL'S GROCERY 10-2730
Pace Project No.: 9288625

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
S - Surrogate
1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.
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.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
R1	RPD value was outside control limits.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 3

1407087

Section A Required Client Information:

Company: MECI
Address: 2358 Dooley Rd.
LEXINGTON, SC 29073
Email To:
Phone: 803-808-2045 Fax: 803-808-2048
Requested Due Date/TAT:

Section B Required Project Information:

Report To: BRYAN SHANE
Copy To:
Purchase Order No.:
Project Name: McGill's Grocery
Project Number: 10-2730

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: RENEE SPENCER
Pace Profile #: 836-5

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test ↓	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G			2-23	1115		7			1	6						X		92588625 001
2	MW-2						1050														002
3	MW-3						1110														003
4	MW-4						1045														004
5	MW-5						1145														005
6	MW-6						1120														006
7	MW-7						1030														007
8	MW-8						1035														008
9	MW-9						1040														009
10	MW-10						1140														010
11	MW-11						1130														011
12	MW-12	X	X			X	1300		X			XX							X		012

Requested Analysis Filtered (Y/N)

Analysis Test ↓: Bkgd Metals (Table B) + Mn; 8-oxy (8260B); EDB (8011); Total Pb

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
REPORT "J" VALUES	MCE	2-25	9:40	MCE	2-25	9:40				
	MCE	2-25	1730	Justin Pollard/Pace TH	2-25-11	15:30	3.1	Y	n	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: BRIAN OWEN
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 2-23-11

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 3

1407088

Section A Required Client Information:

Company: MEA

Address: 235 B Dooley Rd, Lexington, SC 29073

Email To:

Phone: 803-808-2043 Fax: 803-808-2048

Requested Due Date/TAT:

Section B Required Project Information:

Report To: Bryan Shank

Copy To:

Purchase Order No.:

Project Name: Mobil's Grocery

Project Number: 10-2730

Section C Invoice Information:

Attention:

Company Name:

Address:

Pace Quote Reference:

Pace Project Manager: Renee Spencer

Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N): BTEX, Naphthalene (8260B)	8-Oxy (8260B)	EDB (8011)	Total Pb	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																									92886250
1	MW-13	WT	G			2-23	1255		7			1	10						X	X	X	X			92886250 13
2	MW-14						1250																			014
3	MW-15						1445																			015
4	MW-16						1450																			016
5	MW-17						1455																			017
6	MW-18						1400																			018
7	MW-19D						1275																			019
8	MW-20D						1215																			020
9	MW-21D						1205																			021
10	MW-22D						1340																			022
11	MW-23D						1500																			023
12	MW-24D	X	X			X	1420	X		X	X								X	X	X	X				024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Report "J" Values		2-23	9:40		2-25	9:40				
		2-24	1530		2-25	15:30	3.1	Y	n	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: BRIAN OWEN

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 2-23-11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 3 of 3

1448503

Section A Required Client Information:

Company: MEC1
Address: 235 B Dooley Rd. Lexington, SC 29073
Email To:
Phone: 803 808 2043 Fax: 803-808-2048
Requested Due Date/TAT:

Section B Required Project Information:

Report To: BRYAN SHANE
Copy To:
Purchase Order No.:
Project Name: McGill's Grocery
Project Number: 10-2730

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: RENEE SPENCER
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / , -)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX, NAPTH, MTBE (8260 B)	EDB (8011)	[redacted]	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WSW-1	WT	G			2-23	1405		6			6						X	X	X			928625 025
2	WSW-2						1540																026
3	WSW-4						1535																027
4	WSW-5						1600																028
5	WSW-6						1415																029
6	WSW-7						1580																030
7	WSW-8	↓	↓			↓	1235																031
8	WSW-9	↓	↓			↓	1240		↓				↓						X	X	X			↓ 032
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
REPORT "J" VALUES		2-25	9:40		2-25	9:40				
		2-24	1630	Justin Matthews/pace clt	2-25	1530	3.1	Y	n	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: BRIAN OWEN
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 2-23-11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

FIELD DATA INFORMATION SHEETS

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 2/23/2011
Field Personnel: Brian Owen and Courtney Sanders
General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: McGill Grocery
Site ID#: 19440 **Monitoring Well #** MW-19D
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	43.65			feet
Total Well Depth (TWD)	70			feet
Length of the water column (LWC=TWD-DGW)			26.35	feet
1 casing volume (CV=LWC X C)=	____ X	0.163	4.30	gallons
3 casing volume (3 X CV)=		3	12.89	gallons

Total Volume of Water Purged Before Sampling 5 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	12:20	12:25						
pH (s.u.)	10.25	9.98						
Specific Conductivity (µmhos/cm)	361.6	334.3						
Water Temperature (°C)	17.9	17.6						
Dissolved Oxygen	0.81	1.62						
PID readings, if required								

Remarks: Sample Time: 12:25 Dry at 5 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 2/23/2011

Field Personnel: Brian Owen and Courtney Sanders

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-20D

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	44.32			feet
Total Well Depth (TWD)	67			feet
Length of the water column (LWC=TWD-DGW)			22.68	feet
1 casing volume (CV=LWC X C)=	____ X	0.163	3.70	gallons
3 casing volume (3 X CV)=		3	11.09	gallons

Total Volume of Water Purged Before Sampling 5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	12:10	12:15						
pH (s.u.)	9.81	11.99						
Specific Conductivity (µmhos/cm)	560.0	593.0						
Water Temperature (°C)	17.2	17.2						
Dissolved Oxygen	3.73	2.32						
PID readings, if required								

Remarks: Sample Time: 12:15 Dry at 5 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 2/23/2011

Field Personnel: Brian Owen and Courtney Sanders

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-21D

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:			feet
Depth to Free Product (DFP)			feet
Depth to Ground Water (DGW)	46.00		feet
Total Well Depth (TWD)	83		feet
Length of the water column (LWC=TWD-DGW)		37	feet
1 casing volume (CV=LWC X C)= ____ X	0.163	6.03	gallons
3 casing volume (3 X CV)=	3	18.09	gallons

Total Volume of Water Purged Before Sampling 5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	12:00	12:05						
pH (s.u.)	6.77	10.06						
Specific Conductivity (µmhos/cm)	162.6	160.1						
Water Temperature (°C)	17.0	17.0						
Dissolved Oxygen	1.12	1.25						
PID readings, if required								

Remarks: Sample Time: 12:05 Dry at 5 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 2/23/2011

Field Personnel: Brian Owen and Courtney Sanders

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-22D

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	58.09			feet
Total Well Depth (TWD)	100			feet
Length of the water column (LWC=TWD-DGW)			41.91	feet
1 casing volume (CV=LWC X C)=	____ X	0.163	6.83	gallons
3 casing volume (3 X CV)=		3	20.49	gallons

Total Volume of Water Purged Before Sampling 21 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	13:10	13:20	13:30	13:40				
pH (s.u.)	6.96	6.22	5.97	6.03				
Specific Conductivity (µmhos/cm)	165.9	161.5	155.5	72.1				
Water Temperature (°C)	17.2	17.1	16.7	16.9				
Dissolved Oxygen	4.10	4.85	4.95	4.79				
PID readings, if required								

Remarks: Sample Time: 13:40

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 2/23/2011

Field Personnel: Brian Owen and Courtney Sanders

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0		standard	X
pH=7.0	X	standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-23D

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	50.00			feet
Total Well Depth (TWD)	100			feet
Length of the water column (LWC=TWD-DGW)			50	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	8.15	gallons
3 casing volume (3 X CV)=		3	24.45	gallons

Total Volume of Water Purged Before Sampling 15 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	14:45	15:00						
pH (s.u.)	6.63	6.46						
Specific Conductivity (µmhos/cm)	67.3	71.3						
Water Temperature (°C)	17.7	17.3						
Dissolved Oxygen	1.19	2.10						
PID readings, if required								

Remarks: Sample Time: 15:00 Dry at 15 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 2/23/2011
Field Personnel: Brian Owen and Courtney Sanders
General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter YSI Model 550A
serial no. 02A0831
pH=4.0
pH=7.0 X
pH=10.0

Conductivity Meter
serial no. 02A0831
standard X
standard
standard

Chain of Custody

Relinquished by Date/Time

Received by Date/Time

Facility Name: McGill Grocery
Site ID#: 19440 **Monitoring Well #** MW-24D
Water Supply Well **Public** **Private**

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	39.06			feet
Total Well Depth (TWD)	75			feet
Length of the water column (LWC=TWD-DGW)			35.94	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	5.86	gallons
3 casing volume (3 X CV)=		3	17.57	gallons

Total Volume of Water Purged Before Sampling 12 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	14:10	14:15	14:20					
pH (s.u.)	5.08	5.79	5.83					
Specific Conductivity (µmhos/cm)	19.9	55.8	59.3					
Water Temperature (°C)	18.1	17.6	17.4					
Dissolved Oxygen	6.44	6.10	6.53					
PID readings, if required								

Remarks: Sample Time: 14:20 Dry at 12 Gallons

WASTE DISPOSAL MANIFESTS

March 8, 2011

Midlands
Environmental
Consultants, Inc.

Re: Treatment of Purge Water
McGill Grocery
Iva, South Carolina
SCDHEC Site ID Number 19440
MECI Project Number 11-3235

To Whom it May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

All purge waters were treated on-site using an up-flow treatment drum loaded with 30 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

Two 55-gallon drums were treated on February 23, 2011 at the referenced site.

A total of two (2) 55-gallon drums were treated at the referenced site.

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,
Midlands Environmental Consultants, Inc.

Courtney M. Sanders
Staff Biologist

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

JUN 06 2011

MS DIANA MCMAHAN PERSONAL REPRESENTATIVE
ESTATE OF DONALD E MCGILL
4520 DERRCLARE BLANE LN
EVANS GA 30809

UST DOCKET 13 Iva

Re: Monitoring/recovery well installation and AFVR directive
McGill Grocery, Lake Secession Road, Iva, SC
UST Permit #19440; CA #41495; MWA #UMW-24211
Release reported January 28, 2009
Monitoring report received March 29, 2011
Abbeville County

Dear Ms. McMahan:

The Underground Storage Tank (UST) Management Division has reviewed the referenced report submitted by Midlands Environmental Consultants, Inc. on your behalf. The report indicates that high concentrations of petroleum chemicals of concern (CoC) are present in monitoring well MW-1. Accordingly, the Division requests that an aggressive fluid and vapor recovery (AFVR) event be conducted to reduce the concentrations. To enhance the effectiveness of the event, please have your contractor install two 4-inch monitoring/recovery wells near MW-1 at the locations shown on the enclosed site map. The wells should have 20-foot screens. Upon installation, an AFVR event should be conducted on the new wells and MW-1. Off-gas treatment will be necessary.

Cost Agreement #41495 has been approved in the amount shown on the enclosed cost agreement form for the monitoring/recovery well installation and AFVR event. The necessary monitoring well approval is enclosed. Monitoring/recovery well installation and AFVR activities may proceed immediately upon receipt of this letter. The assessment report submitted at the completion of the activities should include well installation details and the following items:

- A narrative portion that documents the contractor name, field personnel present, general site conditions, general weather conditions including ambient air temperature, date, and start/stop times.
- A brief description of the completed work scope and any relevant descriptions pertaining to the data tables.
- A table summarizing the airflow (in CFM) and volatile air emissions concentrations collected from the stack of the truck **before off-gas treatment** on thirty-minute time intervals through each eight-hour each event or through an eight-hour period per day for each extended event. The table will also identify the recovery well or wells.

- A table summarizing magnehelic gauge measurements on thirty-minute time intervals through each eight-hour event or through an eight-hour period per day for each extended event. The gauges must be installed on the recovery well or wells and on immediately surrounding wells.
- The total volume of water recovered in gallons.
- The total volume of free-phase product recovered in gallons (typically measured with a product/water interface device inserted into the top of the tanker at the completion of the event and then converted to an approximate volume).
- The total weight of petroleum removed as vapor in pounds. This is calculated based on the airflow rate and the concentration of vapor.
- A table documenting the free-product thickness in each well before and after each AFVR event.
- A scaled base map depicting the location of the recovery well or wells and immediately surrounding wells equipped with magnehelic gauges.

The drop tube or "stinger" should initially be installed six inches below the free-phase product or installed at the water table interface if free-phase product is not present. After the first two hours of the AFVR event, the depth of the stinger should be adjusted to obtain the highest petroleum vapor recovery. The depth should be periodically readjusted throughout the event to maintain maximum vapor recovery. Groundwater recovery should not exceed four gallons per minute at any time during the event. The overall goal is to maximize the recovery of free-phase product and petroleum vapors in the capillary fringe and minimize the recovery of groundwater.

Midlands can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the well installation, AFVR activities, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina-Certified Underground Storage Tank Site Rehabilitation Contractor.

An assessment report and invoice are due within 90 days from the date of this letter. Interim invoices may not be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the SCDHEC is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Department for the cost to be paid. SCDHEC 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, SCDHEC reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

The Division grants pre-approval for transportation of petroleum-contaminated soil and up to 5,000 gallons of free-phase product and petroleum-contaminated groundwater from the referenced facility to a permitted treatment facility. The soil, product, and groundwater must be properly stored in labeled containers and must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest or acceptance letter from the receiving facility that clearly designates the quantity received must be included with the report.

On all correspondence concerning this facility, please reference UST Permit #19440. If there are any questions concerning this project, feel free to contact me by telephone at (803) 896-6398, by fax at (803) 896-6245, or by e-mail at padgetjp@dhec.sc.gov.

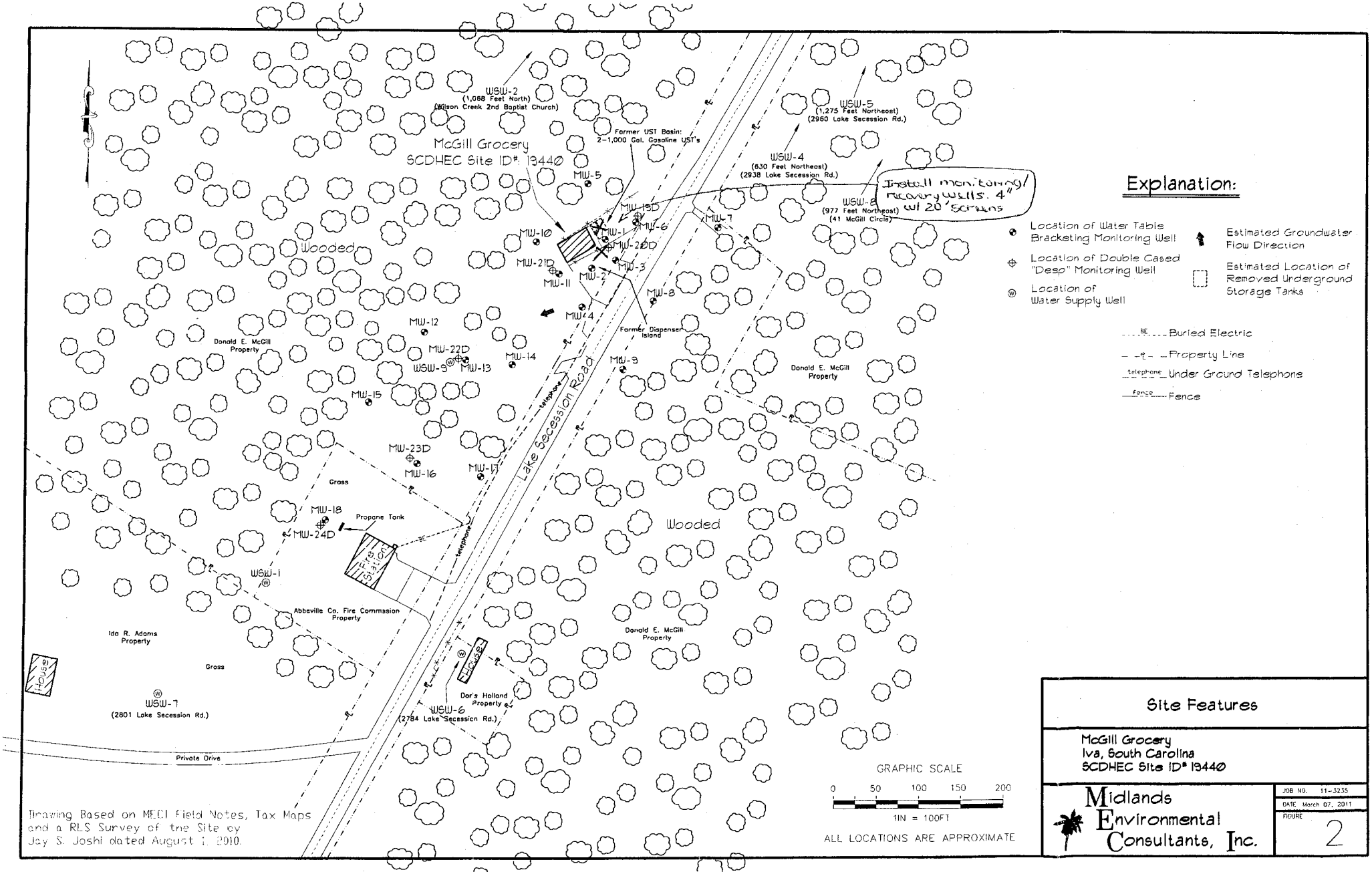
Sincerely,

Joel P. Padgett, P.G., Geologist/Hydrologist
Corrective Action Section
Underground Storage Tank Mangement Division
Bureau of Land and Waste Management

JPP/jpp
19440.1

enc: Approved cost agreement
Monitoring well approval
Site map

cc: Midlands Environmental Consultants, Inc., P.O. Box 854, Lexington, SC 29071-0854 (w/enc)
Technical file



Site Features

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 11-3235
DATE March 07, 2011
FIGURE 2

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

Monitoring Well Approval

Approval is hereby granted to:	Midlands Environmental Consultants, Inc.
(On behalf of):	Estate of Donald E. McGill
Facility:	McGill Grocery
UST Permit Number:	19440
County:	Dorchester

This approval is for the installation of two 4-inch monitoring/recovery wells. The wells are to be installed in the approved locations in accordance with 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 Department shall be completed and submitted to the Department within 30 days after well completion or abandonment unless another schedule has been approved by the Department. 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 Department within 30 days of receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.d.
5. If any of the information provided to the Department changes, notification to Joel Padgett (tel: (803) 896-6398 or e-mail: padgetjp@dhec.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. Departmental 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 April 26, 2002. A copy of this approval should be on the site during well installation.

Date of Issue: April 15, 2011 **Approval #:** UMW-24211

Joel P. Padgett, P.G., Geologist/Hydrologist
Corrective Action Section
Division of Assessment and Corrective Action
Bureau of Land and Waste Management

Approved Cost Agreement 41495

Facility: 19440 MCGILL GROCERY

PADGETJP

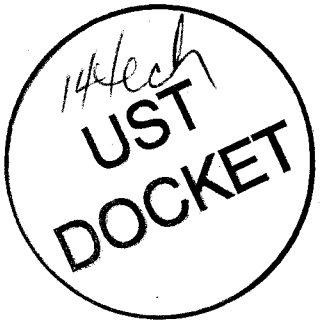
PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB				
	A EQUIPMENT	2.0000	575.00	1,150.00
	B PERSONNEL	2.0000	290.00	580.00
09 WELL INSTALLATION				
	D ROCK DRILLING	100.0000	58.00	5,800.00
16 SUBSEQUENT SURVEY				
	SUBSEQUENT SURVEY	1.0000	260.00	260.00
17 DISPOSAL				
	A2 WASTEWATER - PUMPING TEST	1,000.0000	0.60	600.00
	C SOIL (TREATMENT/DISPOSAL)	6.0000	50.00	300.00
19 RPT/PROJECT MNGT & COORDINATIO				
	PCT PERCENT	0.1500	11,970.00	1,795.50
23 EFR				
	A 8 HOUR EVENT	1.0000	3,000.00	3,000.00
	C OFF GAS TREATMENT	8.0000	35.00	280.00
		Total Amount		13,765.50

Midlands Environmental Consultants, Inc.

July 27, 2011

Mr. Joel P. Padgett, P.G., Hydrologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land & Waste Management
South Carolina Department of Health and
Environmental Control
2600 Bull Street
Columbia, South Carolina 29201



Subject: Report of Recovery Well Installation
McGill Grocery
Lake Secession Road
Iva, South Carolina
SCDHEC Site ID# 19440, CA # 41495
MECI Project Number 11-3414
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Padgett,

On behalf of Ms. Diane McMahan, Representative for the Estate of Donald McGill, Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Recovery Well Installation for the referenced site. This report describes assessment activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

PROJECT INFORMATION

The subject site (McGill Grocery) is located near the intersection of Lake Secession Road and McGill Circle, Iva, Abbeville County, South Carolina (see Figure 1). The subject site consists of an approximately 18.05 acre parcel that is occupied by an abandoned gasoline service station, the remainder of the property is undeveloped and wooded, this property occupies both sides of Lake Secession Road. The subject site formerly maintained two 1,000-gallon gasoline underground storage tanks (UST'S). A release of petroleum product was reported on January 28, 2009. MECI conducted an Initial Groundwater Assessment (IGWA) in May of 2009. This assessment included the installation of one monitoring well, collection of soil samples, and collection of groundwater samples. MECI conducted a Tier I Assessment in July of 2009. This assessment included the installation of three monitoring wells, collection of soil samples, collection of groundwater samples, and aquifer slug tests. During the Tier I Assessment groundwater samples were collected from six water supply wells (WSW-1, WSW-4, WSW-5, WSW-6, WSW-7, and WSW-8). Analytical results

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

indicate petroleum impact to water supply wells WSW-1 and WSW-7. MTBE was detected in WSW-1 at 16.1 micrograms per liter on July 28, 2009, and 3.9J micrograms per liter on August 07, 2009. MTBE was detected in WSW-7 at 2.2J micrograms per liter on July 28, 2009 and August 07, 2009. MECI conducted a Tier II Assessment in July of 2010. This assessment included the installation of twenty monitoring wells, collection of ground water samples, and aquifer slug tests. During the Tier II Assessment groundwater samples were collected from eight water supply wells (WSW-1, WSW-2, and WSW-4 through WSW-9). Analytical results indicate petroleum impact to water supply wells WSW-1 WSW-7, and WSW-9. MTBE was detected in WSW-1 at 2.2 micrograms per liter on July 28, 2010. MTBE was detected in WSW-7 at 4.3 micrograms per liter on July 28, 2010. Toluene was detected in WSW-9 at 0.72J micrograms per liter on July 28, 2010. During the February 23, 2011 comprehensive sampling event groundwater samples were collected from eight water supply wells (WSW-1, WSW-2, and WSW-4 through WSW-9). Analytical results indicate petroleum impact to water supply well WSW-7. MTBE was detected in WSW-7 at 3.1J micrograms per liter on February 23, 2011.

The above information is based on reports and correspondence obtained from MECI field notes and SCDHEC files.

FIELD EXPLORATION

Field exploration conducted at the site included:

- construction of two 4-Inch recovery wells;
- a subsequent survey to locate the newly installed recovery wells; and
- an Aggressive Fluid and Vapor Recovery Event.

The monitoring well location was selected based on SCDHEC project manager instructions, existing site conditions, and drilling accessibility.

MONITORING WELL INSTALLATION

On July 14, 2011, two single cased 4"-recovery wells (RW-1 and RW-2) were installed at the subject site. These wells were installed by Environmental Drilling and Probing Services, LLC, of Rock Hill, South Carolina (S.C. Driller Certification: Tommy Bolyard # B 01846). These 4-inch recovery wells were installed using a 10.0-inch outer diameter Air Hammer to construct the borehole. The following table presents new well installation details:

Well Number	Screened Interval (ft)	Total Depth (ft)
RW-1	30.0-50.0	50.0
RW-2	30.0-50.0	50.0

Representative portions of soil samples were screened with a Photo Ionization Detector (PID) and classified by MECI personnel. The soils encountered during drilling activities consisted of micaceous fine to coarse grained sandy silts of the Piedmont Physiographic Province. The soils encountered in this area are the product of in-place weathering of rocks similar to the rocks

underlying the site. In areas not altered by erosion or disturbed by the activities of man, the typical residual soil profile consists of near surface clayey soils and underlying sandy silt and sand. The boundary between soil and rock is gradational. A transitional zone termed "weathered rock" is normally found overlying the parent bedrock. This zone is typically the most transmissive zone for groundwater movement (During the installation of RW-2, partially weathered rock was encountered at 46.0 feet below ground surface). Consequently, the topography of the bedrock surface is uneven, even over short horizontal distances. It is not unusual to find lenses and boulders of hard rock and zones of weathered rock within the soil mantle well above the general bedrock level.

Test boring records showing soil descriptions and screening result are attached. Based on PID readings and lack of access to spread soils onsite, soil cuttings were transported to Waste Management/Richland Landfill, Elgin, SC by MECI. A total of 1.02 tons were disposed of in this manner. A disposal manifest for these soils is attached at the end of this report.

Following completion of the monitoring wells, the wells were developed by bailing until they were determined to be functioning properly and turbidity was reduced. Test Boring Records showing soil descriptions and monitoring well installation details are attached. The drummed purge water was treated by MECI personnel using a granular activated carbon drum. A total of one (1) drum of purge/development water was disposed of in this manner. A disposal manifest for the drummed purge water is attached at the end of this report.

SITE SURVEY

Following recovery well installation, a subsequent survey was conducted by MECI personnel to locate the vertical and horizontal position of the newly installed recovery wells. A top of casing (TOC) elevation of 96.57 for MW-1 was used as a benchmark for surveying purposes. The TOC elevation for RW-1 was determined to be 96.90 and RW-2 was determined to be 97.16.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT

Following recovery well installation, an aggressive fluid vapor recovery (AFVR) event was conducted at the subject site. On July 18, 2011, MECI personnel conducted an 8-hour AFVR event on monitoring well MW-1 and recovery wells RW-1 and RW-2. Please see the attached AFVR report for details of the event.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. The general subsurface conditions utilized in our evaluation have been based on interpretation of subsurface data between borings. Contents of this report are intended for the sole use by Ms. Diane McMahan and the South Carolina Department of Health and Environmental Control under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

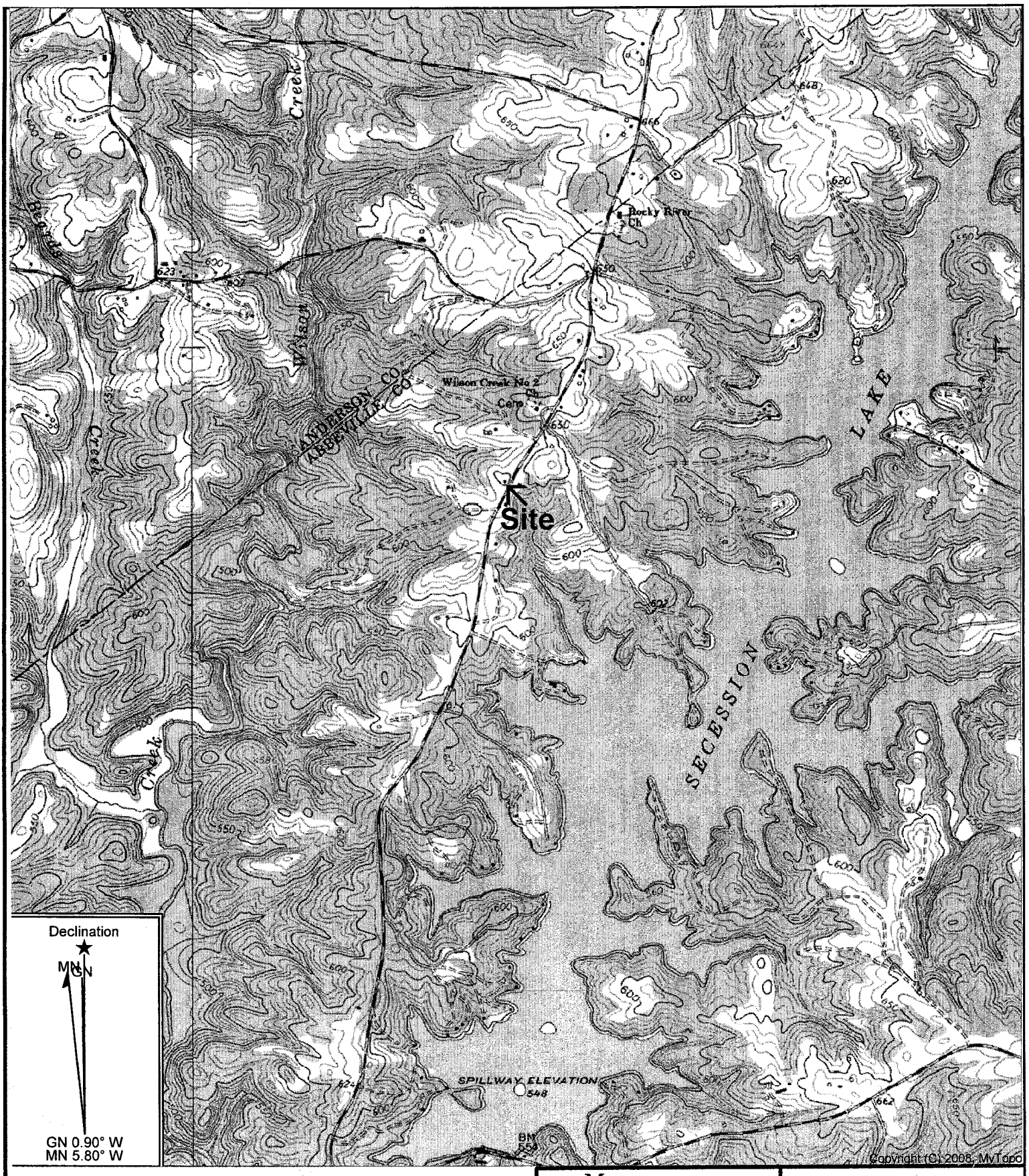
Sincerely,
Midlands Environmental Consultants, Inc.

Courtney M. Sanders
Staff Biologist

Jeff L. Coleman
Senior Scientist

Attachments:

FIGURES



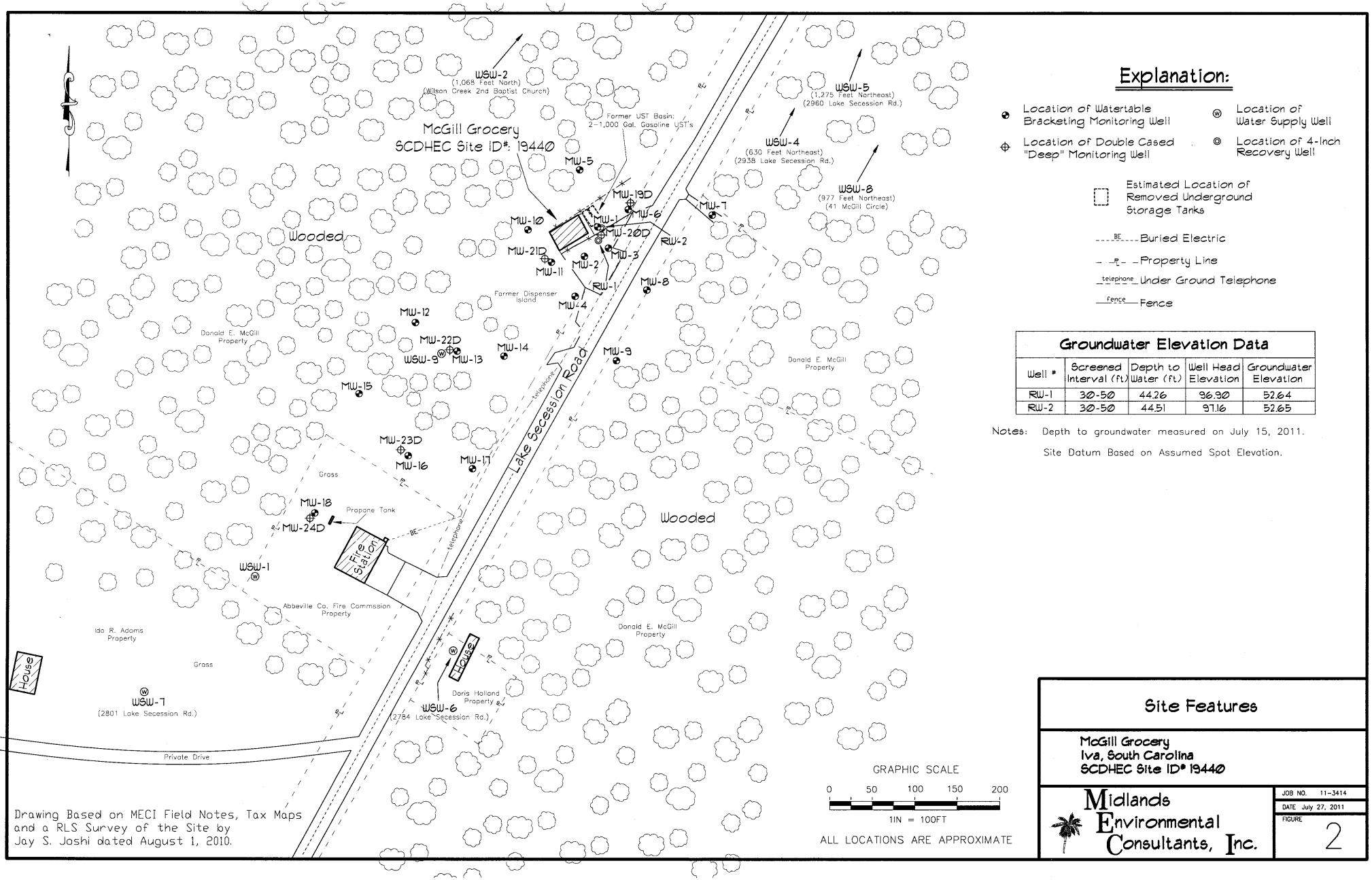
GRAPHIC SCALE

0 1000 2000 4000

1IN = 2000FT

Reference: Antreville, South Carolina
Iva, South Carolina
Contour Interval–10 Feet
USGS 7.5 Min. Quad

Midlands Environmental Consultants, Inc.	Site Location
McGill's Grocery Lake Secession Road, Iva, SC SCDHEC Site ID# 19440	
Figure 1	MECI 11-3414



Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Double Cased "Deep" Monitoring Well
- Location of Water Supply Well
- Location of 4-Inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks
- BE — Buried Electric
- PL — Property Line
- telephone — Under Ground Telephone
- fence — Fence

Groundwater Elevation Data

Well #	Screened Interval (ft)	Depth to Water (ft)	Well Head Elevation	Groundwater Elevation
RW-1	30-50	44.26	96.90	52.64
RW-2	30-50	44.51	97.16	52.65

Notes: Depth to groundwater measured on July 15, 2011.

Site Datum Based on Assumed Spot Elevation.

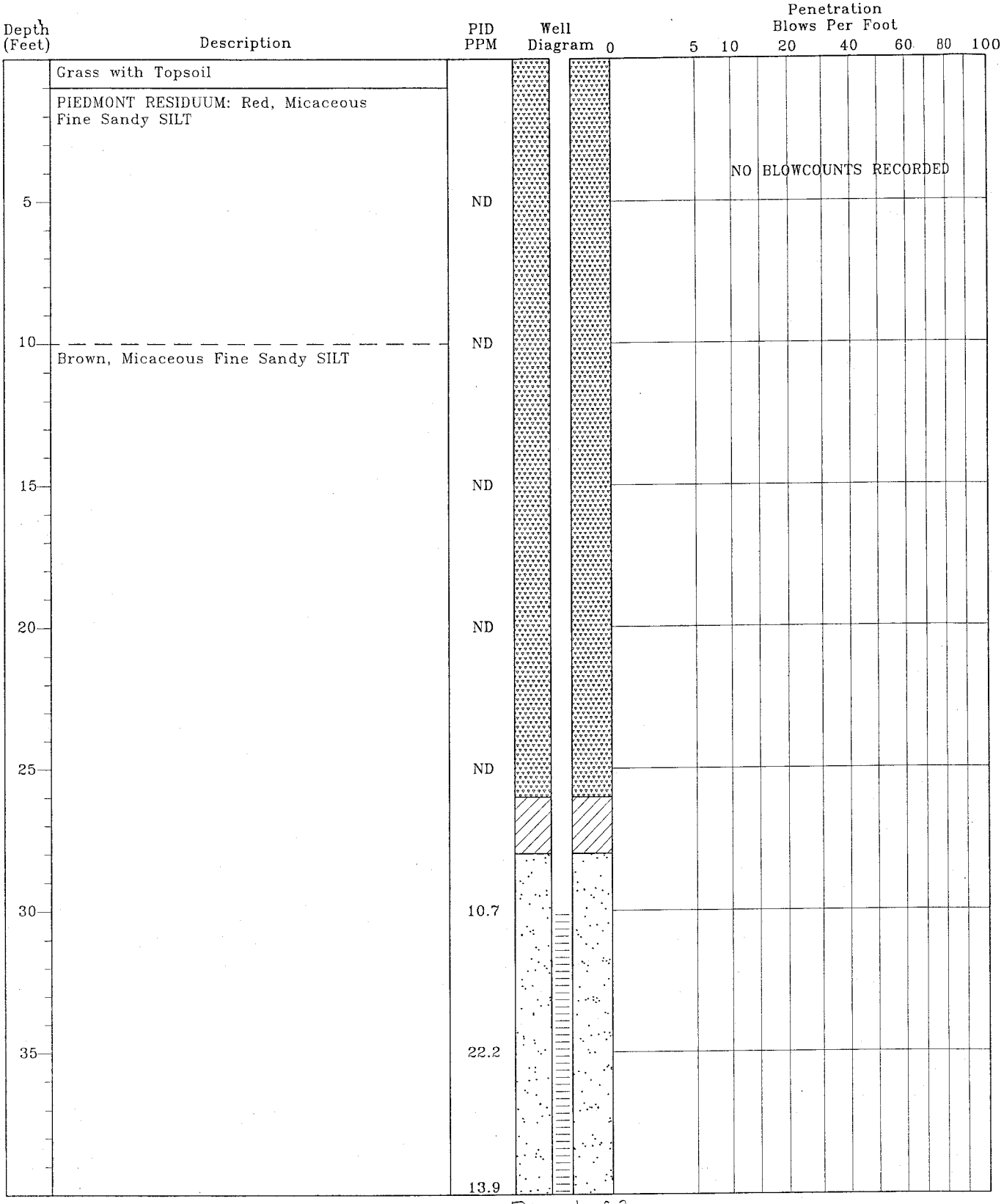
Site Features

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 11-3414
DATE July 27, 2011
FIGURE 2

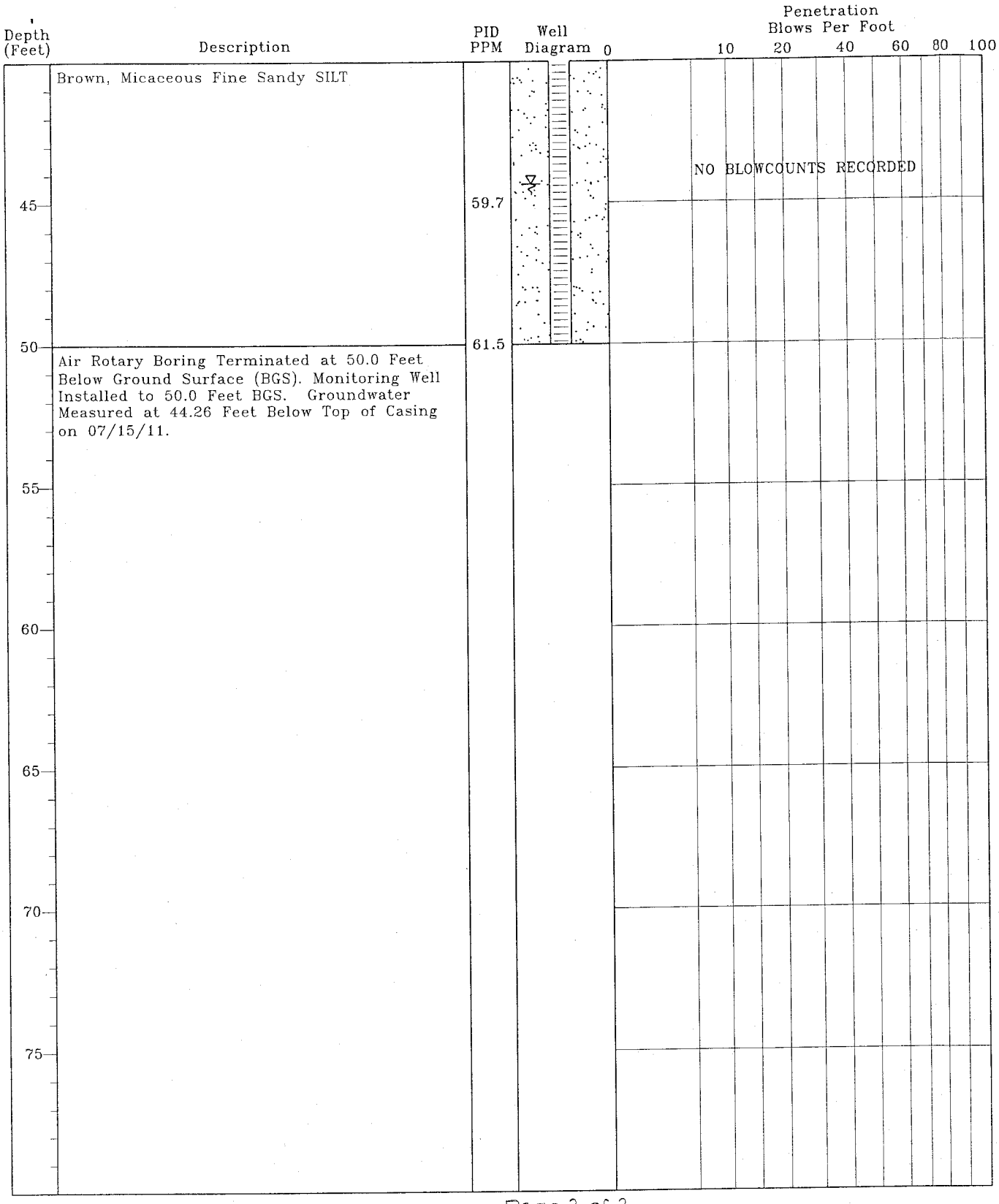
TEST BORING AND MONITORING WELL INSTALLATION RECORDS



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 11-3414

Boring Number:	RW-1
Date Drilled:	07/14/11
Drilled By:	Environmental Drilling & Probing Services
Logged By:	J. Coleman

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



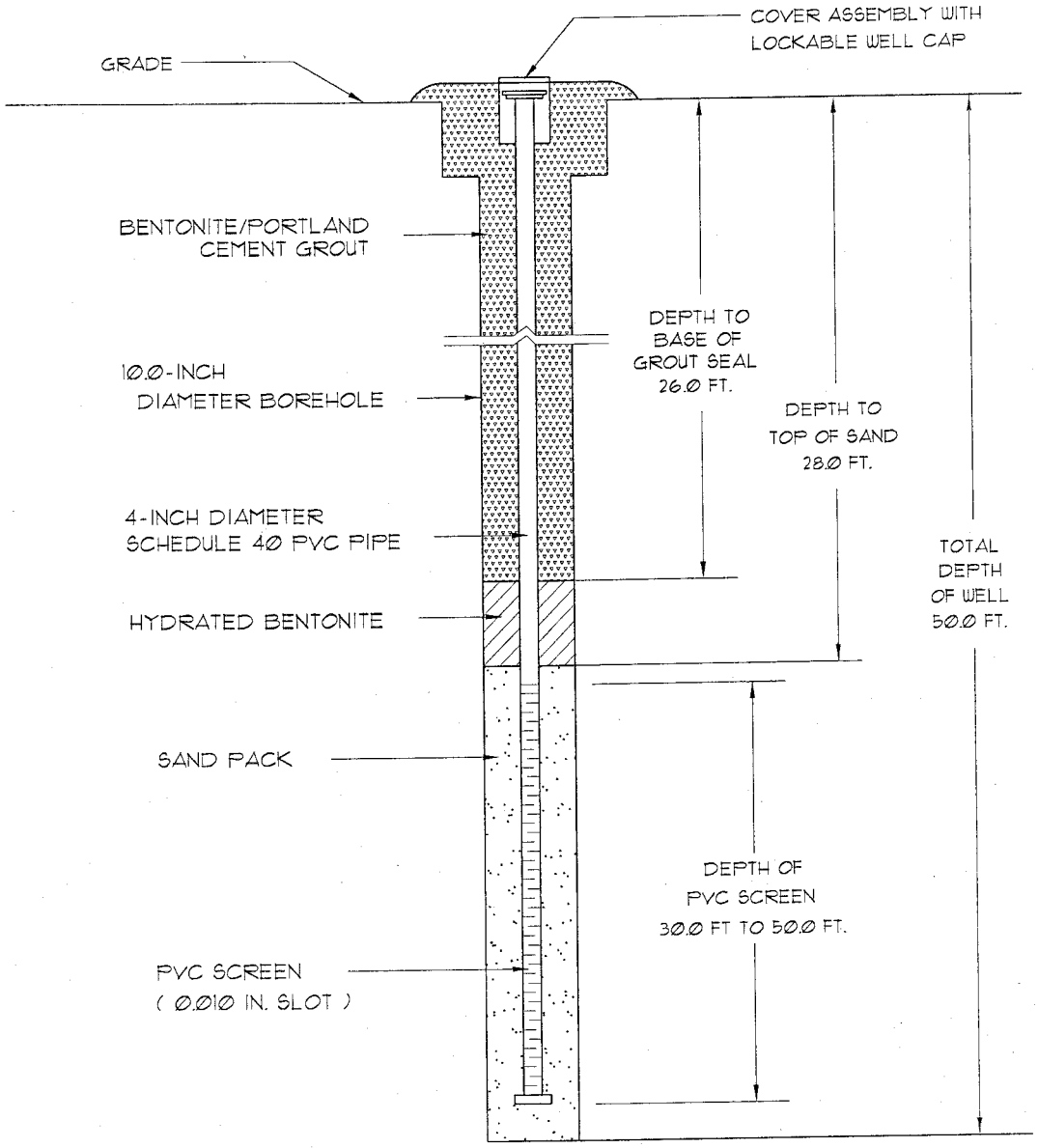
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 11-3414

Boring Number:	RW-1
Date Drilled:	07/14/11
Drilled By:	Environmental Drilling & Probing Services
Logged By:	J. Coleman

Prepared By:
Midlands Environmental Consultants, Inc.
235 B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

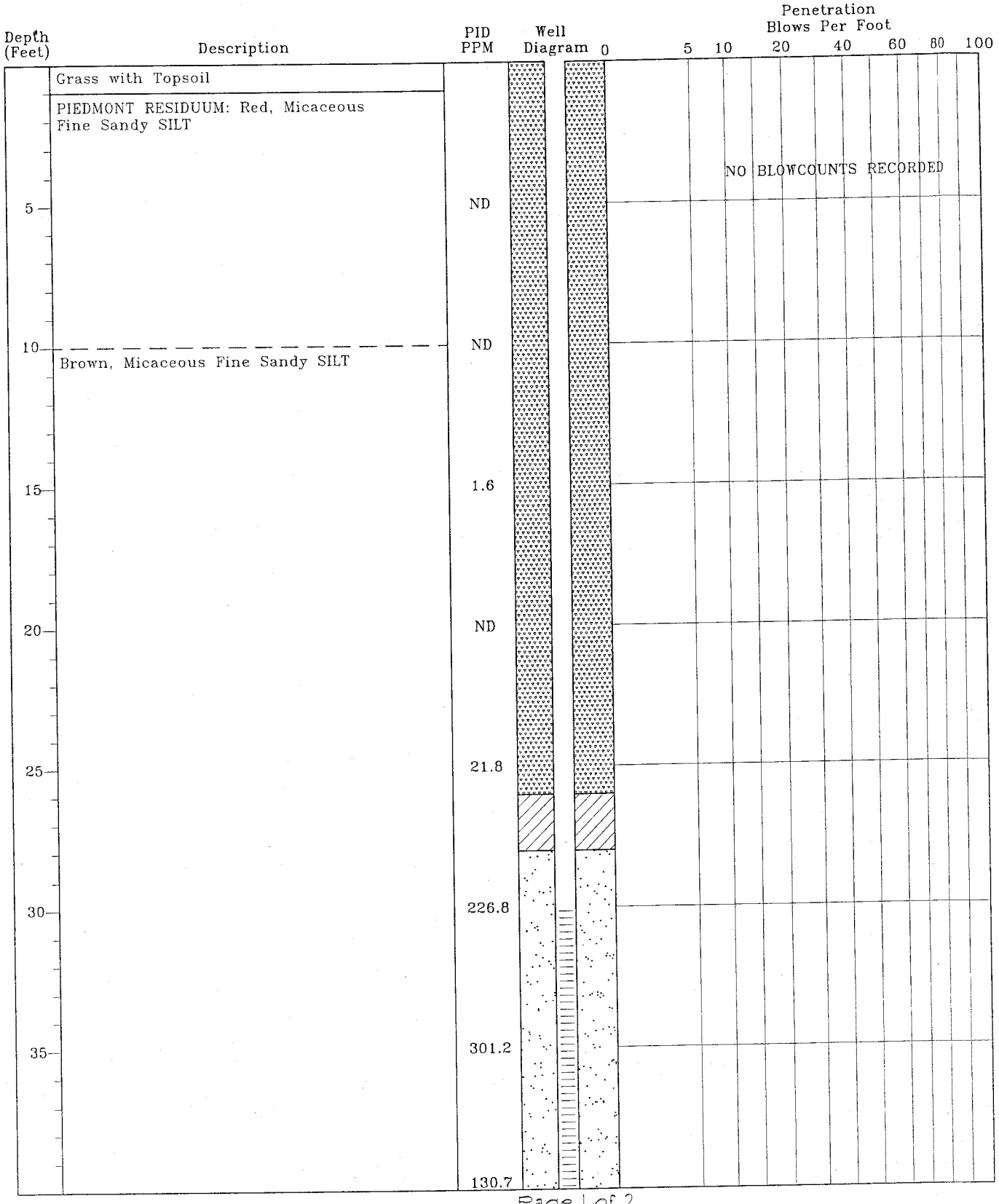
MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 11-3414



Well Number:	RW-1
Date Drilled:	07/14/11
Drilled By:	Environmental Drilling & Probing Services
Driller: T. Bolyard	S.C. I.D. #: B 01846
Logged By:	J. Coleman

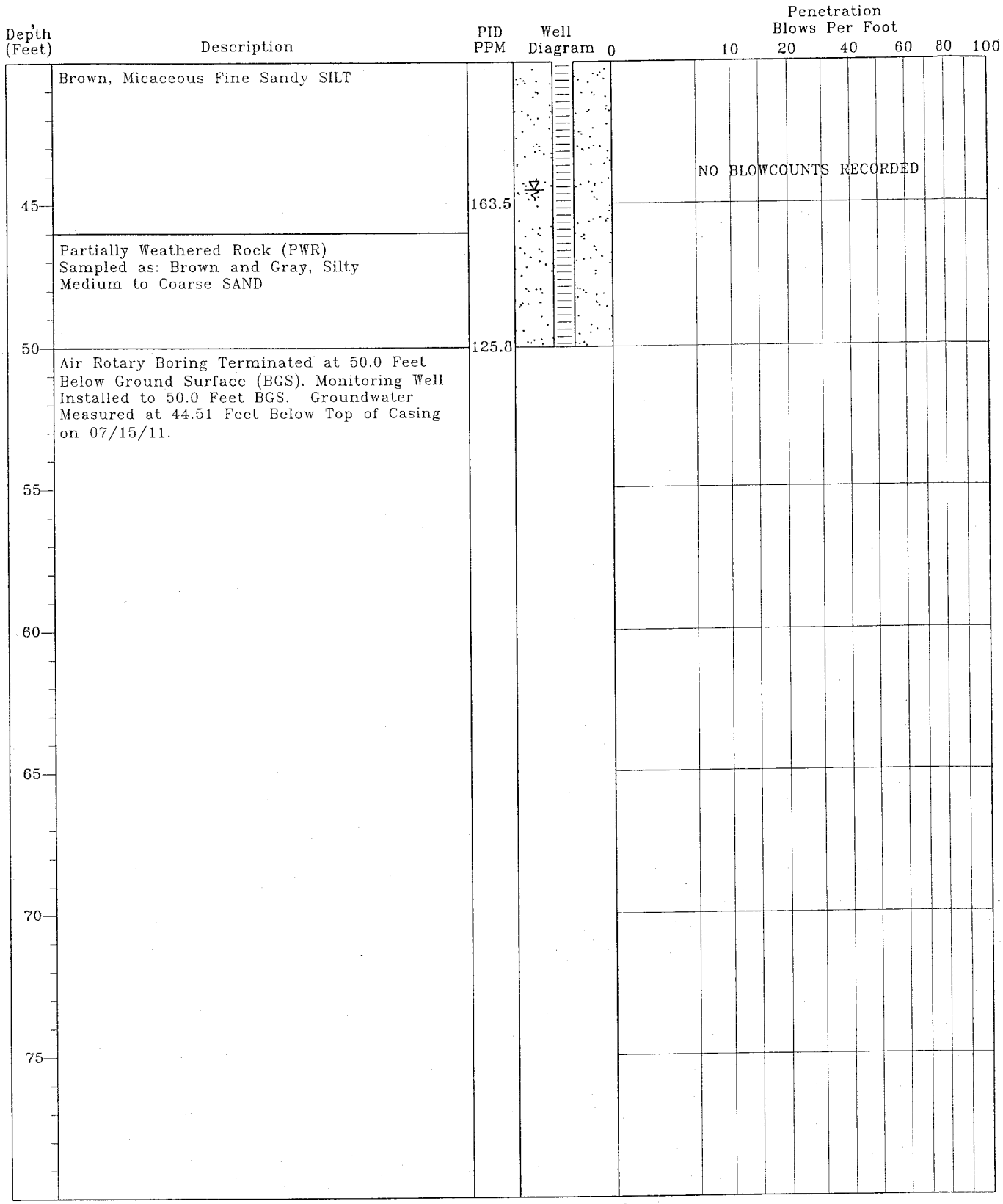
Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 11-3414

Boring Number:	RW-2
Date Drilled:	07/14/11
Drilled By:	Environmental Drilling & Probing Services
Logged By:	J. Coleman

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-1043 fax: 808-1048



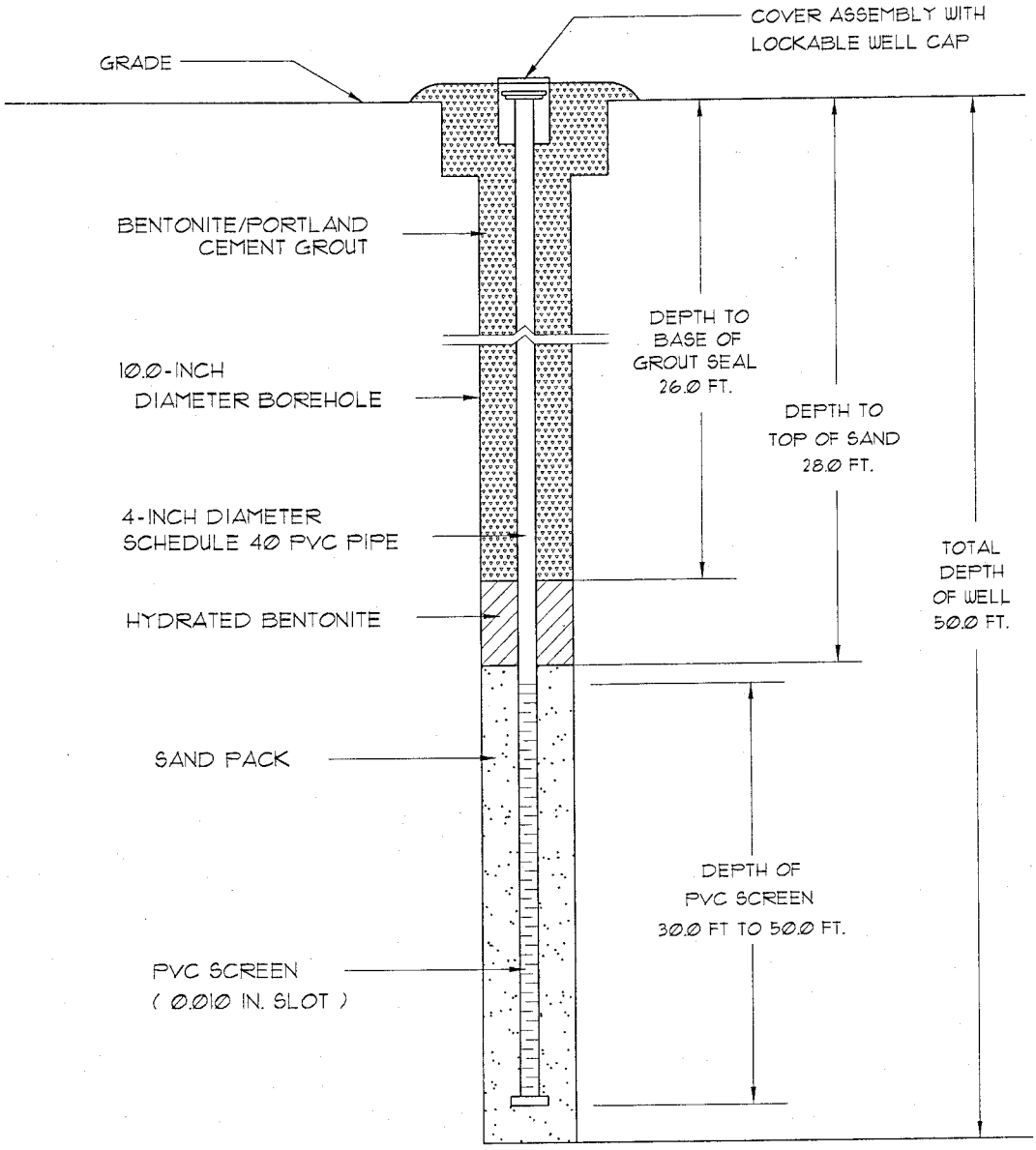
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 11-3414

Boring Number:	RW-2
Date Drilled:	07/14/11
Drilled By:	Environmental Drilling & Probing Services
Logged By:	J. Coleman

Prepared By:
Midlands Environmental Consultants, Inc.
235 B Doolely Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 11-3414



Well Number:	RW-2
Date Drilled:	07/14/11
Drilled By:	Environmental Drilling & Probing Services
Driller: T. Bolyard	S.C. I.D. #: B 01846
Logged By:	J. Coleman

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION
Name: Estate of Donald Mc ill (last) (first)
Address: 4520 Derryclare Bla ie Lane
City: Evans Stat GA Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: McGill Grocery
Street Address: Lake Seces ion Road
City: Iva, SC Zip:
Latitude: Lon itude:

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

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Red sandy Silt	10	10
Brown sandy Silt	40	50
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: RW-1

6. TYPE: ☐ Mud Rotary ☐ etted ☐ Bored ☐ Dug ☑ ir Rotary ☐ Driven ☐ Cable tool ☐ ther

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) Date Started: 7/14/11
50 ft. Date Completed: 7/14/11

10. CASING: ☑ Threaded ☐ Welded
Diam.: 4"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
30 in. to 0 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: 0.01/sch.40 Length: 20'
Set Between: 50 ft. and 30 ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 44.26 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 50 ft. to 28 ft.
Effective size #2,med Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other ____
Depth: From 28 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☑ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☑
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Road, Char, NC 28278
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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: ____ (Well Driller) Date: 7/22/11

If D Level Driller provide supervising driller's name:

DHEC 1903 (07/2003)

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION
Name: Estate of Donald Mc Gill (last) (first)
Address: 4520 Derryclare Bl ne Lane
City: Evans Stat GA Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: McGill Grocery
Street Address: Lake Sece ion Road
City: Iva, SC Zip:
Latitude: Lon itude:

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

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ___ ft. to ___ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Red sandy Silt	10	10
Brown sandy Silt	36	46
PWR Brown/Gray silty Sand	4	50
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: RW-2

6. TYPE: ☐ Mud Rotary ☐ etted ☐ Bored ☐ Dug ☑ ir Rotary ☐ Driven ☐ Cable tool ☐ ther

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) Date Started: 7/14/11
50 ft. Date Completed: 7/14/11

10. CASING: ☑ Threaded ☐ Welded
Diam.: 4"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
30 in. to 0 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: 0.01/sch.40 Length: 20'
Set Between: 50 ft. and 30 ft.
___ ft. and ___ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 44.51 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 50 ft. to 28 ft.
Effective size #2,med Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other ___
Depth: From 28 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ___ ft. ___ direction
Type ___
Well Disinfected ☐ Yes ☑ No Type: ___ Amount: ___

18. PUMP: Date installed: ___ Not installed ☑
Mfr. Name: ___ Model No.: ___
H.P. ___ Volts ___ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) 17538 Greenhill Road, Char, NC 28278
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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: ___ (Well Driller) Date: 7/22/11

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

DHEC 1903 (07/2003)

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

AFVR REPORT

Midlands
Environmental
Consultants, Inc.

July 25, 2011

Mr. Joel Padgett, P.G., Hydrogeologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health and
Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Aggressive Fluid Vapor Recovery Report
McGill Grocery
Iva, South Carolina
SCDHEC Site ID # 19440; CA #41495
MECI Project Number 11-3414
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Padgett,

On behalf of Ms. Diana McMahan, Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at McGill Grocery on July 18, 2011. The event was conducted on monitoring well RW-2 to remove free phase petroleum product and on monitoring wells MW-1 and RW-1 to reduce dissolved CoC concentrations. Free phase petroleum product was detected in monitoring well RW-2 at a thickness of 0.01 feet prior to the AFVR event. The event was conducted continuously for eight hours by MECI personnel utilizing a vacuum extraction unit. Free phase petroleum product was not detected in the well immediately following the event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the wells were 13.52 pounds or approximately 2.34 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 1.69 pounds per hour. Concentrations of off gas produced during the event were recorded from 273 parts per million by volume (PPM) to 3,841 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range of 15.0 to 21.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1.

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2. Monitoring well locations are depicted on attached Figure.

A total of 200 gallons of liquid was removed from MW-1, RW-1 and RW-2 during this event. Free phase petroleum product was not observed in the holding tank at the end of the event. The fluids produced were transported to TK Tank Services, Inc. of Sumter, SC for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by Ms. Diana McMahon, MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Courtney M. Sanders
Staff Biologist

Brendon P. Kelly
Project Scientist

Attachments:

TABLE 1
AFVR MONITORING DATA
McGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3414
SCDHEC SITE ID NUMBER 19440

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements				
					Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM	Removal Rate Lbs/Hr	Interval Removal Lbs
MW-1	07/18/11	11:00	0.50	16.0	3,841	1,660	149.40	6.89	3.44
RW-1	07/18/11	11:30	0.50	15.0	301	1,940	174.60	0.63	0.32
RW-2	07/18/11	12:00	0.50	15.0	286	1,960	176.40	0.61	0.30
	07/18/11	12:30	0.50	15.0	273	2,000	180.00	0.59	0.29
	07/18/11	13:00	0.50	17.0	841	1,600	144.00	1.45	0.73
	07/18/11	13:30	0.50	17.0	835	1,550	139.50	1.40	0.70
	07/18/11	14:00	0.50	17.0	786	1560	140.40	1.32	0.66
	07/18/11	14:30	0.50	17.0	774	1,560	140.40	1.30	0.65
	07/18/11	15:00	0.50	17.0	758	1,570	141.30	1.29	0.64
	07/18/11	15:30	0.50	17.0	740	1,560	140.40	1.25	0.62
	07/18/11	16:00	0.50	21.0	1,289	1,020	91.80	1.42	0.71
	07/18/11	16:30	0.50	21.0	1,309	1,000	90.00	1.41	0.71
	07/18/11	17:00	0.50	21.0	1,328	1,020	91.80	1.46	0.73
	07/18/11	17:30	0.50	21.0	1,337	980	88.20	1.42	0.71
	07/18/11	18:00	0.50	21.0	1,515	970	87.30	1.59	0.79
	07/18/11	18:30	0.50	21.0	1,371	1,020	91.80	1.51	0.76
	07/18/11	19:00	0.50	21.0	1,368	1,020	91.80	1.51	0.75
									TOTAL 13.52

Well Data:			Pre AFVR Event			Post AFVR Event			Corrected Depth to Water Change (ft)
Well No.	Diameter (in)	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	
MW-1	2"	40-50	***	43.93	***	***	45.43	***	1.50
RW-1	4"	30-50	***	44.27	***	***	45.29	***	1.02
RW-2	4"	30-50	44.51	44.52	0.01	***	43.20	***	-1.31

Vacuum Truck Information		Well ID	Stinger Depth
Subcontractor:	MECI	MW-1	44.00
Truck Operator:	R. Ariail	RW-1	44.00
Stack I.D. (feet)	0.33 feet	RW-2	45.00

Corrected depth to water prior to AFVR event in RW-2= 44.51

Recovery / Disposal Information		
Hydro carbons Removed (vapor):	13.52	Pounds
Hydro carbons Removed (liquid):	0	Gallons
Total Hydrocarbons Removed:	2.34	Equivalent Gallons
Molecular Weight Utilized:	75	g / mole
Disposal Facility	TK Tank Services	
Total Liquids Removed:	200	Gallons

TABLE 2
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
McGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3414
SCDHEC SITE ID NUMBER 19440

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-2	**MW-3**	**MW-6**
Nearest Extraction Well:		RW-1	RW-1	RW-2
Approximate Distance:		25 ft	15 ft	31 ft
Time	**Elapsed Time**	**Differential Pressure Readings (inches of water)**		
11:00	0.0	0	0	0
11:30	0.5	0	0	0
12:00	1.0	0	0	0
12:30	1.5	0	0	0
13:00	2.0	0	0	0
13:30	2.5	0	0	0
14:00	3.0	0	0	0
14:30	3.5	0	0	0
15:00	4.0	0	0	0
15:30	4.5	0	0	0
16:00	5.0	0	0	0
16:30	5.5	0	0	0
17:00	6.0	0	0	0
17:30	6.5	0	0	0
18:00	7.0	0	0	0
18:30	7.5	0	0	0
19:00	8.0	0	0	0
Maximum Change:		**0**	**0**	**0**

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW-2	**MW-3**	**MW-6**
Nearest Extraction Well:		RW-1	RW-1	RW-2
Approximate Distance:		25 ft	15 ft	31 ft
Time	**Elapsed Time**	**Depth to Liquid (feet below of casing):**		
Prior to AFVR		44.63	44.27	43.42
15:00	4 hours	44.84	44.54	43.74
19:00	8 hours	45.15	44.91	44.09
Maximum Change:		-0.52	-0.64	-0.67

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
				TK10497

5. Generator's Name and Mailing Address
MIDLANDS ENVIRONMENTAL
1144 TWO NOTCH ROAD
LEXINGTON, SC 29073

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name
TK TANK SERVICE SUMTER, SC

U.S. EPA ID Number
987573557

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
TK TANK SERVICES
425 BOULEVARD ROAD
SUMTER, SC 29153

U.S. EPA ID Number
987573557

Facility's Phone: 803-418-5314

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. NON HAZARDOUS PETROLEUM CONTAMINATED WATER	01	TT	2900	gallons

SCDHEC Site	Permit Number	Gallons Produced
York County School Bus Shop	09164	150
Gregory's Store	08979	150
Weaver & Sons Lounge	18685	200
Venter's Grocery	09081	125
Former Ralph Infinger Grocery	03021	100
Pratts Grocery	06974	50
Midway Service Station	13046	100
Phillips Rental Property	19328	50
EZ Stop Food Shop	14555	50
Former McCoy Oil Site	19002	325
McGill Grocery	19440	200
Crawford's Country Store	12335	150
Newberry County Airport	15590	325
F&T Service Center	09012	100
West State Line Gulf	08606	200
McCutcheon's Grocery	09125	150
Calcutt's Grocery	19120	150
Strickland's Exxon	02906	100
Markette 23	10092	225

13.

14. ... egulations for reporting proper disposal of Hazardous Waste.

Gen... Month Day Year

15.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Steve A. Gamble
Signature: Steve A. Gamble
Month 7 Day 22 Year 11

Transporter 2 Printed/Typed Name
Signature
Month Day Year

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
Signature
Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

WASTE DISPOSAL MANIFEST

Midlands
Environmental
Consultants, Inc.

July 18, 2011

Re: Treatment of Purge Water
McGill Grocery
Iva, South Carolina
SCDHEC Site ID Number 19440
MECI Project Number 11-3414

To Whom it May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

All purge waters were treated on-site using an up-flow treatment drum loaded with 30 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

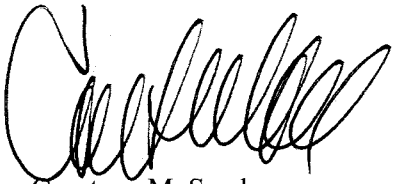
One 55-gallon drum was treated on July 15, 2011 at the referenced site.

A total of one (1) 55-gallon drum was treated at the referenced site.

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,
Midlands Environmental Consultants, Inc.



Courtney M. Sanders
Staff Biologist

WASTE MANAGEMENT

Richland County LF
1047 Highway Church Road
Elgin, SC, 29045
Ph: (803) 788-3054

Original
Ticket# 1113221

Customer Name MIDLANDSENVIRON MIDLANDS ENVI
Ticket Date 07/18/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 2
Destination
PO
Profile VA2718 (SOIL FROM UST ASSESSMENT)
Generator 126-MIDLANDSENVIRONMENTAL MIDLANDS ENVIRONMENTAL

Carrier MIDLANDSENVIRON MIDLANDS ENVIRONMENT
Vehicle# 1
Container
Driver
Check#
Billing # 00000103
Gen EPA ID

	Time	Scale	ScaleMaster		Volume
In	07/18/2011 12:41:17	Scale1	Dwayne	Gross	11840 lb
Out	07/18/2011 12:50:49	Scale2	Dwayne	Tare	9160 lb
				Net	2680 lb
				Tons	1.34

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	SOIL-Cont. Soil -	100	1.34	Tons				32-LEXINGT
2	FUEL-Fuel Surcharg	100		%				32-LEXINGT
3	ENVF-F-Standard Env	100		%				32-LEXINGT

Total Fees
Total Ticket

SIGNATURE

103WM

McGill 3/4, United 0:1 1/4 1/4

SPECIAL WASTE MANIFEST

WASTE ID NUMBER VA2718	*Richland Landfill* 1047 Highway Church Road Elgin, SC 29045 Special Waste Phone: 803-744-3346 Fax: 866-904-7194
EXPIRATION DATE November 17, 2013	
	Prepared by: Karen Truett/Carol Weldon
GENERATOR OF WASTE:	Midlands Env. Consultants, Inc. - Various
CUSTOMER Midlands Env. Consultants	ACCOUNT NUMBER: 820-469
LOCATION OF WASTE: Site Address:	
CITY: Lexington	COUNTY: Lexington
PHONE NUM 803-808-2043	CONTACT: Bryan Shane
FAX NUMBER:	
GENERATOR'S SIGNATURE	DATE: 7-18-11
TRANSPORTER OF WASTE: MEC1	
DATE: 7-18-11	TRUCK NUMBER: 1
DRIVER'S SIGNATURE	
****** TO BE COMPLETED BY RICHLAND LANDFILL******	
DISPOSAL SITE:	RICHLAND LANDFILL ELGIN, SC
DESCRIPTION OF WASTE:	Waste Class: Soil Soil from UST Assessment
TICKET NUMBER: 111321	
RECEIVED BY: DCM	

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

AUG 26 2011

MS DIANA MCMAHAN PERSONAL REPRESENTATIVE
ESTATE OF DONALD E MCGILL
4520 DERRCLARE BLANE LN
EVANS GA 30809

15 tech
UST
DOCKET

Re: Aggressive fluid and vapor recovery directive
McGill Grocery, Lake Secession Road, Iva, SC
UST Permit #19440; CA #42180
Release reported January 28, 2009
Abbeville County

Dear Ms. McMahan:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site using Midlands Environmental Consultants, Inc. as your contractor. The next appropriate scope of work is to conduct aggressive fluid and vapor recovery events (AFVR) to remove residual free-phase product and to reduce concentrations of chemicals of concern (CoC). Please have your contractor conduct two events on monitoring/recovery wells MW-1, RW-1, and RW-2 (manifold wells together). The events should be spaced a minimum of one month apart to allow equilibrium conditions to reestablish, and must be conducted in accordance with the UST Quality Assurance Program Plan (QAPP). A copy of the QAPP is available at http://www.dhec.sc.gov/environment/lwm/html/ust.htm.

Cost Agreement #42180 has been approved in the amount shown on the enclosed cost agreement form for the AFVR events. AFVR activities may proceed immediately upon receipt of this letter, and must be performed by a South Carolina-Certified Underground Storage Tank Site Rehabilitation Contractor. All applicable South Carolina certification requirements apply to preparation of an AFVR report.

An AFVR report and invoice must be submitted to the Division within 90 days from the date of this letter. Your contractor may directly bill the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Interim invoices may not be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the SCDHEC is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by

the Department for the cost to be paid. SCDHEC 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, SCDHEC reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

The Division grants pre-approval for transportation of up to 5,000 gallons of free-phase product and petroleum-contaminated groundwater from the referenced facility to a permitted treatment facility for disposal. The transport and disposal must be conducted in accordance with the QAPP.

On all correspondence concerning this facility, please reference UST Permit #19440. If there are any questions, feel free to contact me by telephone at (803) 896-6398, by fax at (803) 896-6245, or by e-mail at padgetjp@dhec.sc.gov.

Sincerely,

Joel P. Padgett, P.G., Geologist/Hydrologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

JPP/jpp
19440.3

enc: Approved cost agreement form

cc: Midlands Environmental Consultants, Inc., P.O. Box 854, Lexington, SC 29071 (w/enc)
Technical file (w/enc)

Approved Cost Agreement 42180

Facility: 19440 MCGILL GROCERY

PADGETJP

PO Number:

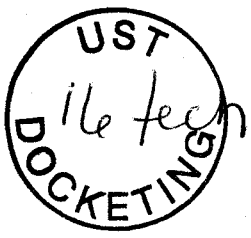
Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB						
		A	EQUIPMENT	2.0000	575.00	1,150.00
17 DISPOSAL						
		A	WASTEWATER	2,000.0000	0.80	1,600.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PCT	PERCENT	0.1500	8,750.00	1,312.50
23 EFR						
		A	8 HOUR EVENT	2.0000	3,000.00	6,000.00
				Total Amount		10,062.50

Midlands Environmental Consultants, Inc.

September 27, 2011

Mr. Joel Padgett, P.G., Hydrogeologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Aggressive Fluid Vapor Recovery Report
McGill Grocery
Iva, South Carolina
SCDHEC Site ID # 19440; CA # 42180
MECI Project Number 11-3567A
Certified Site Rehabilitation Contractor UCC-009



Dear Mr. Padgett,

On behalf of Ms. Diana McMahan Personal Representative for the Estate of Donald McGill, Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at McGill Grocery on September 14, 2011. The event was conducted on monitoring well MW-1, RW-1, and RW-2 reduce dissolved CoC concentrations. Free phase petroleum product was not detected in monitoring well MW-1, RW-1, and RW-2 prior to the event. The event was conducted continuously for eight hours by MECI personnel utilizing a vacuum extraction unit. Free phase petroleum product was not detected in the wells immediately following the event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the well were 20.43 pounds or approximately 3.53 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 2.55 pounds per hour. Concentrations of off gas produced during the event were recorded from 653 parts per million by volume (PPM) to 4,222 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range of 12.0 to 19.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1A.

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2A. Monitoring well locations are depicted on attached Figure 1.

A total of 250 gallons of liquid was removed from MW-1, RW-1, and RW-2 during this event. Free phase petroleum product was not observed in the holding tank at the end of the event. The fluids produced were transported to TK Tank Services of Sumter, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by Ms. Diana McMahan Personal Representative for the Estate of Donald McGill, MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Courtney M. Sanders
Staff Biologist

Brendon P. Kelly
Project Scientist

Attachments:

TABLE 1A
AFVR MONITORING DATA
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3567A
SCDHEC SITE ID NUMBER 19440

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements				
					Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM	Removal Rate Lbs/Hr	Interval Removal Lbs
MW-1	09/14/11	10:30	0.50	12.0	708	1,620	145.80	1.24	0.62
RW-1	09/14/11	11:00	0.50	12.0	822	1,640	147.60	1.46	0.73
RW-2	09/14/11	11:30	0.50	12.0	756	1,620	145.80	1.32	0.66
	09/14/11	12:00	0.50	12.0	691	1,650	148.50	1.23	0.62
	09/14/11	12:30	0.50	12.0	653	1,660	149.40	1.17	0.59
	09/14/11	13:00	0.50	19.0	4,222	610	54.90	2.78	1.39
	09/14/11	13:30	0.50	19.0	4,190	600	54.00	2.72	1.36
	09/14/11	14:00	0.50	19.0	4,016	580	52.20	2.52	1.26
	09/14/11	14:30	0.50	19.0	3,997	580	52.20	2.50	1.25
	09/14/11	15:00	0.50	19.0	3,922	540	48.60	2.29	1.14
	09/14/11	15:30	0.50	18.0	3,795	730	65.70	2.99	1.50
	09/14/11	16:00	0.50	18.0	3,599	750	67.50	2.92	1.46
	09/14/11	16:30	0.50	18.0	3,504	800	72.00	3.03	1.51
	09/14/11	17:00	0.50	18.0	3,386	920	82.80	3.36	1.68
	09/14/11	17:30	0.50	18.0	3,348	900	81.00	3.25	1.63
	09/14/11	18:00	0.50	18.0	3,210	910	81.90	3.15	1.58
	09/14/11	18:30	0.50	18.0	3,051	890	80.10	2.93	1.47
									TOTAL 20.43

Well Data:			Pre AFVR Event			Post AFVR Event			Corrected Depth to Water Change (ft)
Well No.	Diameter (in)	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	
MW-1	2"	40-50	***	44.75	***	***	45.30	***	0.55
RW-1	4"	30-50	***	45.06	***	***	45.65	***	0.59
RW-2	4"	30-50	***	45.03	***	***	44.75	***	-0.28

Vacuum Truck Information		Well ID	Stinger Depth
Subcontrator:	MECI	MW-1	45.50
Truck Operator:	K. Pudney	RW-1	46.00
Stack I.D. (feet)	0.33 feet	RW-2	46.00

Recovery / Disposal Information		
Hydro carbons Removed (vapor):	20.43	Pounds
Hydro carbons Removed (liquid):	0	Gallons
Total Hydrocarbons Removed:	3.53	Equivilant Gallons
Molecular Weight Utilized:	75	g / mole
Disposal Facility	TK Tank Services	
Total Liquids Removed:	250	Gallons

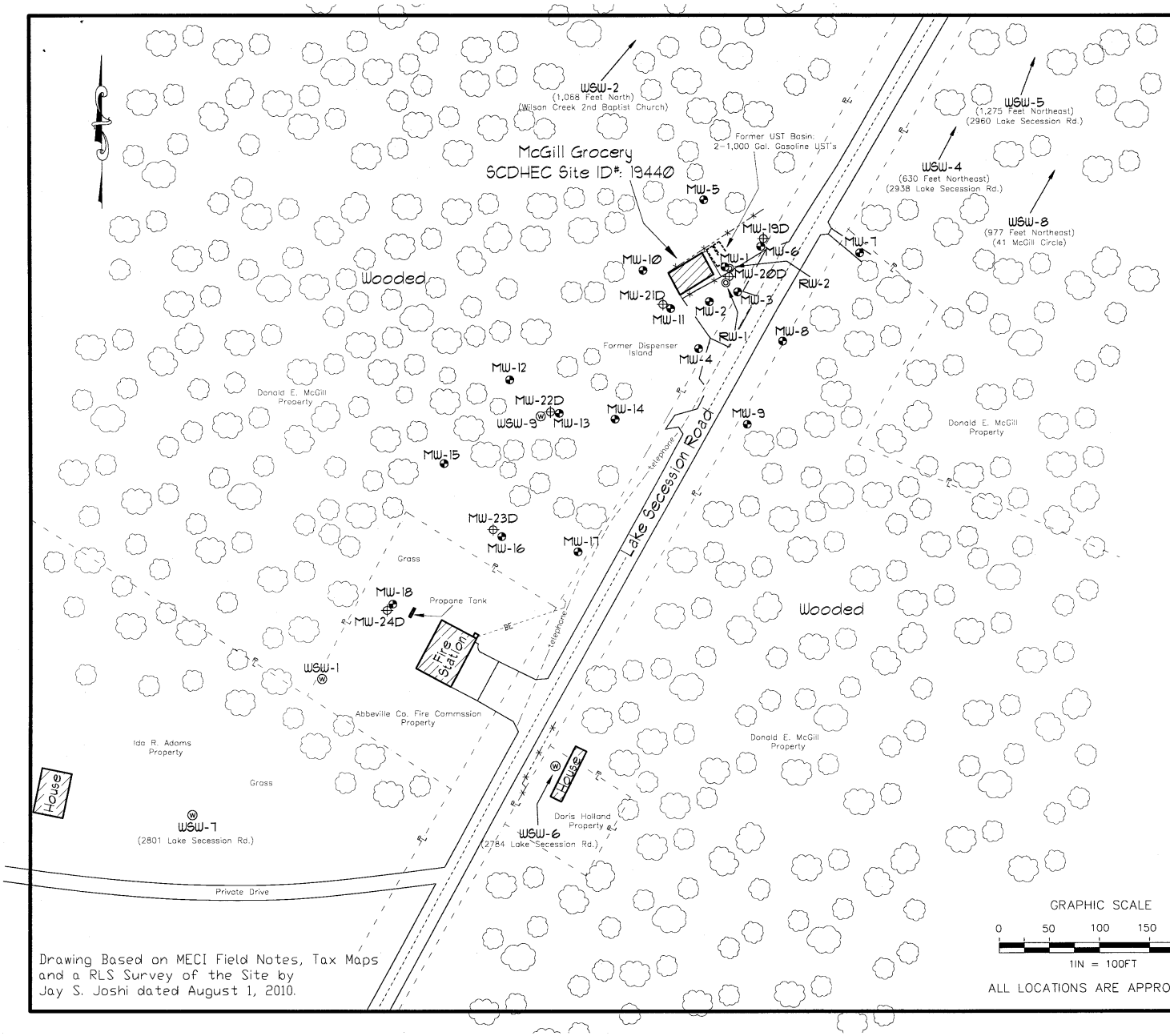
TABLE 2A
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3567A
SCDHEC SITE ID NUMBER 19440

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-2	**MW-3**	**MW-6**
Nearest Extraction Well:		RW-1	RW-2	MW-1
Approximate Distance:		25 ft	25 ft	42 ft
Time	**Elapsed Time**	**Differential Pressure Readings (inches of water)**		
10:30	0.0	0.0	0.0	0.0
11:00	0.5	0.0	0.0	0.0
11:30	1.0	0.0	0.0	0.0
12:00	1.5	0.0	0.0	0.0
12:30	2.0	0.0	0.0	0.0
13:00	2.5	0.0	0.0	0.0
13:30	3.0	0.0	0.0	0.0
14:00	3.5	0.0	0.0	0.0
14:30	4.0	0.0	0.0	0.0
15:00	4.5	0.0	0.0	0.0
15:30	5.0	0.0	0.0	0.0
16:00	5.5	0.0	0.0	0.0
16:30	6.0	0.0	0.0	0.0
17:00	6.5	0.0	0.0	0.0
17:30	7.0	0.0	0.0	0.0
18:00	7.5	0.0	0.0	0.0
18:30	8.0	0.0	0.0	0.0
Maximum Change:		0.0	0.0	0.0

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW-2	**MW-3**	**MW-6**
Nearest Extraction Well:		RW-1	RW-2	MW-1
Approximate Distance:		25 ft	25 ft	42 ft
Time	**Elapsed Time**	**Depth to Liquid (feet below of casing):**		
Prior toAFVR		45.40	45.01	44.30
14:30	4 hours	45.70	45.40	44.64
18:30	8 hours	46.05	45.74	45.00
Maximum Change:		0.65	0.73	0.70



Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Water Supply Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 4-Inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks
- BE — Buried Electric
- P — Property Line
- telephone — Under Ground Telephone
- fence — Fence

Groundwater Elevation Data

Well #	Screened Interval (ft)	Depth to Water (ft)	Well Head Elevation	Groundwater Elevation
RW-1	30-50	44.26	96.90	52.64
RW-2	30-50	44.51	97.16	52.65

Notes: Depth to groundwater measured on July 15, 2011.

Site Datum Based on Assumed Spot Elevation.

GRAPHIC SCALE

0 50 100 150 200

1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

Site Features

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 11-3414
DATE July 27, 2011
FIGURE 2

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
				TK10550

5. Generator's Name and Mailing Address

MIDLANDS ENVIRONMENTAL
1144 TWO NOTCH ROAD
LEXINGTON, SC 29073

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: TK TANK SERVICE SUMTER, SC — U.S. EPA ID Number: 987573557

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: TK TANK SERVICES, 125 BOULEVARD ROAD, SUMTER, SC 29153 — U.S. EPA ID Number: 987573557

Facility's Phone: 803-418-5314

9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
1. NON HAZARDOUS PETROLEUM CONTAMINATED WATER	1	TT	2940	gallons
	1	TT	1000	gallons

SCDHEC Site	Permit Number	Gallons Produced
McGill Grocery	19440	250
Boles Enterprise	04768	100
Fleet Operations Building	11180	100
King Property	17452	100
Gregory's Store	08979	225
Ridgeway Section Shed	03144	125
McCoy Oil Site	19002	300
EZ Stop Food Shop	14555	60
Richland County Landfill	11808	150
Glover's Gulf Service	06994	175
Howard Maness	00411	150
Howard Maness	00411	150
Mary Moorehead Oil	16009	150
Rogers Auto Parts	00428	0
Tillman Johnson	08484	140
Satterfield Used Cars	14212	110
Boles Enterprise	04768	30
Pratt's Grocery	06974	150
Mack's Camp	01253	175
Former Horton's	06768	150
Former Horton's	06768	150
United Oil #144	13137	1,000

13.

14 ... l regulations for reporting proper disposal of Hazardous Waste.

Month Day Year

15 Port of entry/exit:

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Steve A. Gamble — Signature: Steve A. Gamble — Month 10 Day 5 Year 11

Transporter 2 Printed/Typed Name — Signature — Month Day Year

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 — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

Midlands Environmental Consultants, Inc.

November 17, 2011

Mr. Joel Padgett, P.G., Hydrogeologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Aggressive Fluid Vapor Recovery Report
McGill Grocery
Iva, South Carolina
SCDHEC Site ID # 19440; CA # 42180
MECI Project Number 11-3567B
Certified Site Rehabilitation Contractor UCC-009

Dear Mr. Padgett,

On behalf of Ms. Diana McMahan Personal Representative for the Estate of Donald McGill, Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at McGill Grocery on September 14, 2011. The event was conducted on monitoring wells MW-1, RW-1, and RW-2 reduce dissolved CoC concentrations. Free phase petroleum product was not detected in monitoring wells MW-1, RW-1, and RW-2 prior to the event. The event was conducted continuously for eight hours by MECI personnel utilizing a vacuum extraction unit. Free phase petroleum product was not detected in the wells immediately following the event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the well were 43.09 pounds or approximately 7.44 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 5.39 pounds per hour. Concentrations of off gas produced during the event were recorded from 445 parts per million by volume (PPM) to 7,818 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range of 12.0 to 22.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1B.

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2B. Monitoring well locations are depicted on attached Figure 1.

A total of 250 gallons of liquid was removed from MW-1, RW-1, and RW-2 during this event. Free phase petroleum product was not observed in the holding tank at the end of the event. The fluids produced were transported to TK Tank Services of Sumter, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by Ms. Diana McMahan Personal Representative for the Estate of Donald McGill, MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Courtney M. Sanders
Staff Biologist

Brendon P. Kelly
Project Scientist

Attachments:

TABLE 1B
AFVR MONITORING DATA
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3567B
SCDHEC SITE ID NUMBER 19440

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements				
					Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM	Removal Rate Lbs/Hr	Interval Removal Lbs
MW-1	11/03/11	19:30	0.50	20.0	445	2,080	187.20	1.00	0.50
RW-1	11/03/11	20:00	0.50	16.0	581	2,040	183.60	1.28	0.64
RW-2	11/03/11	20:30	0.50	16.0	720	2,010	180.90	1.56	0.78
	11/03/11	21:00	0.50	16.0	1,239	1,990	179.10	2.66	1.33
	11/03/11	21:30	0.50	16.0	3,582	1,980	178.20	7.66	3.83
	11/03/11	22:00	0.50	16.0	7,818	1,950	175.50	16.46	8.23
	11/03/11	22:30	0.50	19.0	5,931	1,620	145.80	10.38	5.19
	11/03/11	23:00	0.50	19.0	4,460	1,640	147.60	7.90	3.95
	11/03/11	23:30	0.50	19.0	3,983	1,670	150.30	7.18	3.59
	11/04/11	0:00	0.50	19.0	3,759	1,700	153.00	6.90	3.45
	11/04/11	0:30	0.50	22.0	3,842	1,110	99.90	4.61	2.30
	11/04/11	1:00	0.50	22.0	3,970	1,140	102.60	4.89	2.44
	11/04/11	1:30	0.50	22.0	3,736	1,150	103.50	4.64	2.32
	11/04/11	2:00	0.50	12.0	1,129	2,320	208.80	2.83	1.41
	11/04/11	2:30	0.50	12.0	931	2,350	211.50	2.36	1.18
	11/04/11	3:00	0.50	12.0	790	2,310	207.90	1.97	0.99
	11/04/11	3:30	0.50	12.0	765	2,290	206.10	1.89	0.95
									TOTAL 43.09

Well Data:			Pre AFVR Event			Post AFVR Event			Corrected Depth to Water Change (ft)
Well No.	Diameter (in)	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	
MW-1	2"	40-50	***	45.84	***	***	46.22	***	0.38
RW-1	4"	30-50	***	45.76	***	***	46.19	***	0.43
RW-2	4"	30-50	***	46.02	***	***	46.37	***	0.35

Vacuum Truck Information		Well ID	Stinger Depth
Subcontrator:	MECI	MW-1	46.50
Truck Operator:	G. Globensky	RW-1	46.50
Stack I.D. (feet)	0.33 feet	RW-2	46.50

Recovery / Disposal Information		
Hydro carbons Removed (vapor):	43.09	Pounds
Hydro carbons Removed (liquid):	0	Gallons
Total Hydrocarbons Removed:	7.44	Equivilant Gallons
Molecular Weight Utilized:	75	g / mole
Disposal Facility	TK Tank Services	
Total Liquids Removed:	250	Gallons

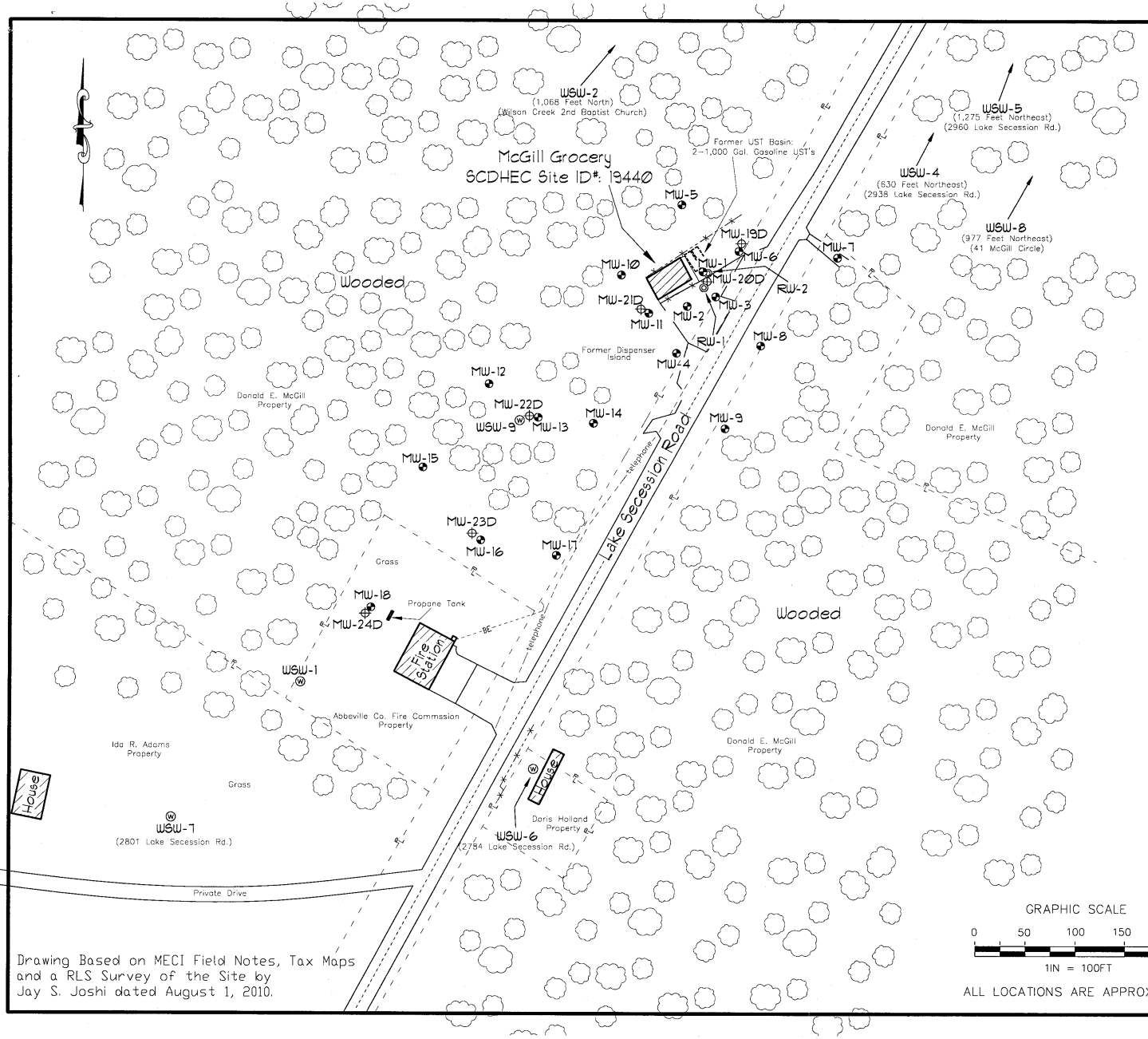
TABLE 2B
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 11-3567B
SCDHEC SITE ID NUMBER 19440

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-2	**MW-3**	**MW-6**
Nearest Extraction Well:		RW-1	RW-2	MW-1
Approximate Distance:		25 ft	25 ft	42 ft
Time	**Elapsed Time**	**Differential Pressure Readings (inches of water)**		
19:30	0.0	0.0	0.0	0.0
20:00	0.5	0.0	0.0	0.0
20:30	1.0	0.0	0.0	0.0
21:00	1.5	0.0	0.0	0.0
21:30	2.0	0.0	0.0	0.0
22:00	2.5	0.0	0.0	0.0
22:30	3.0	0.0	0.0	0.0
23:00	3.5	0.0	0.0	0.0
23:30	4.0	0.0	0.0	0.0
0:00	4.5	0.0	0.0	0.0
0:30	5.0	0.0	0.0	0.0
1:00	5.5	0.0	0.0	0.0
1:30	6.0	0.0	0.0	0.0
2:00	6.5	0.0	0.0	0.0
2:30	7.0	0.0	0.0	0.0
3:00	7.5	0.0	0.0	0.0
3:30	8.0	0.0	0.0	0.0
Maximum Change:		0.0	0.0	0.0

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW-2	**MW-3**	**MW-6**
Nearest Extraction Well:		RW-1	RW-2	MW-1
Approximate Distance:		25 ft	25 ft	42 ft
Time	**Elapsed Time**	**Depth to Liquid (feet below of casing):**		
Prior toAFVR		46.49	46.15	45.36
23:30	4 hours	46.77	46.52	45.70
3:30	8 hours	47.04	46.82	46.13
Maximum Change:		-0.55	-0.67	-0.77



Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

GRAPHIC SCALE

0 50 100 150 200

1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Water Supply Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 4-Inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks
- BE — Buried Electric
- ft — Property Line
- telephone — Under Ground Telephone
- fence — Fence

Groundwater Elevation Data

Well #	Screened Interval (ft)	Depth to Water (ft)	Well Head Elevation	Groundwater Elevation
RW-1	30-50	44.26	96.90	52.64
RW-2	30-50	44.51	97.16	52.65

Notes: Depth to groundwater measured on July 15, 2011.

Site Datum Based on Assumed Spot Elevation.

Site Features

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 11-3414
DATE July 27, 2011
FIGURE 2

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number: TK10582

5. Generator's Name and Mailing Address: MIDLANDS ENVIRONMENTAL, 1144 HWY 601 CR 8090, LEXINGTON, SC 29073

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: TK TANK SERVICE — SUMTER, SC — U.S. EPA ID Number: 987573557

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: TK TANK SERVICES, 425 BOULEVARD ROAD, SUMTER, SC 29153 — U.S. EPA ID Number: 987573557

Facility's Phone: 803-418-5314

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON HAZARDOUS PETROLEUM CONTAMINATED WATER	1	TT	3500	gallons
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

SCDHEC Site	Permit Number	Gallons Produced
Richland County Landfill	11808	225
Former McCoy Oil Site	19002	150
Bucks Grocery	05410	150
Mack's Camp	01253	175
Greenwave Amoco	12097	150
Gregory's Store	08979	250
Evergreen's 123	18200	175
Former Royal Petroleum	19426	175
Burnette's Cleaners	15724	150
McGill Grocery	19440	250
Mary Moorhead Property	16009	100
United Oil #144	13137	1,550

GENERATOR

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 | Signature | Month | Day | Year

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: Steve A. Gamble | Signature: Steve A. Gamble | Month: 11 | Day: 8 | Year: 11

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: Tommy Keels | Signature: Tommy Keels | Month: 11 | Day: 8 | Year: 11

169-BLC-O 5 11977 (Rev. 8/06)

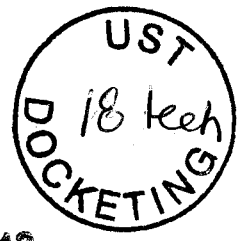
DESIGNATED FACILITY TO GENERATOR

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.



FEB 17 2012

MS DIANA MCMAHAN PERSONAL REPRESENTATIVE
ESTATE OF DONALD E MCGILL
4520 DERRCLARE BLANE LN
EVANS GA 30809

Re: Aggressive fluid and vapor recovery directive
McGill Grocery, Lake Secession Road, Iva, SC
UST Permit #19440; CA #43183
Release reported January 28, 2009
Abbeville County

Dear Ms. McMahan:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site using Midlands Environmental Consultants, Inc. as your contractor. The next appropriate scope of work is to continue aggressive fluid and vapor recovery events (AFVR) to reduce concentrations of chemicals of concern (CoC). Please have your contractor conduct two events on monitoring/recovery wells MW-1, RW-1, and RW-2 (manifold wells together). The events should be spaced a minimum of one month apart to allow equilibrium conditions to reestablish, and must be conducted in accordance with the UST Quality Assurance Program Plan (QAPP). A copy of the QAPP is available at http://www.dhec.sc.gov/environment/lwm/html/ust.htm.

Cost Agreement #43183 has been approved in the amount shown on the enclosed cost agreement form for the AFVR events. AFVR activities may proceed immediately upon receipt of this letter, and must be performed by a South Carolina-Certified Underground Storage Tank Site Rehabilitation Contractor. All applicable South Carolina certification requirements apply to preparation of an AFVR report.

An AFVR report and invoice must be submitted to the Division within 90 days from the date of this letter. Your contractor may directly bill the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Interim invoices may not be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the SCDHEC is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by

the Department for the cost to be paid. SCDHEC 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, SCDHEC reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

The Division grants pre-approval for transportation of up to 5,000 gallons of free-phase product and petroleum-contaminated groundwater from the referenced facility to a permitted treatment facility for disposal. The transport and disposal must be conducted in accordance with the QAPP.

On all correspondence concerning this facility, please reference UST Permit #19440. If there are any questions, feel free to contact me by telephone at (803) 896-6398, by fax at (803) 896-6245, or by e-mail at padgetjp@dhec.sc.gov.

Sincerely,

Joel P. Padgett, P.G., Geologist/Hydrologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

JPP/jpp
19440.4

enc: Approved cost agreement form

cc: Midlands Environmental Consultants, Inc., P.O. Box 854, Lexington, SC 29071 (w/enc)
Technical file (w/enc)

Approved Cost Agreement 43183

Facility: 19440 MCGILL GROCERY

PADGETJP

PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB				
	A EQUIPMENT	2.0000	575.00	1,150.00
17 DISPOSAL				
	A WASTEWATER	2,000.0000	0.80	1,600.00
19 RPT/PROJECT MNGT & COORDINATIO				
	PCT PERCENT	0.1500	8,750.00	1,312.50
23 EFR				
	A 8 HOUR EVENT	2.0000	3,000.00	6,000.00
		Total Amount		10,062.50

Midlands Environmental Consultants, Inc.

March 13, 2012

UST
APR 17 2012
PROGRAM

UST
19440
DOCKETING

Mr. Joel Padgett, P.G., Hydrogeologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Aggressive Fluid Vapor Recovery Report
McGill Grocery
Iva, South Carolina
SCDHEC Site ID # 19440; CA # 43183
MECI Project Number 12-3836A
Certified Site Rehabilitation Contractor UCC-009

Dear Mr. Padgett,

On behalf of Ms. Diana McMahan Personal Representative for the Estate of Donald McGill, Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at McGill Grocery on February 27, 2012. The event was conducted on monitoring well MW-1, RW-1, and RW-2 reduce dissolved CoC concentrations. Free phase petroleum product was not detected in monitoring wells MW-1, RW-1, and RW-2 prior to the event. The event was conducted continuously for eight hours by MECI personnel utilizing a vacuum extraction unit. Free phase petroleum product was not detected in the wells immediately following the event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the well were 2.83 pounds or approximately 0.49 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 0.35 pounds per hour. Concentrations of off gas produced during the event were recorded from 249 parts per million by volume (PPM) to 1,456 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range of 10.0 to 17.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1A.

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2A. Monitoring well locations are depicted on attached Figure 1.

A total of 200 gallons of liquid was removed from MW-1, RW-1, and RW-2 during this event. Free phase petroleum product was not observed in the holding tank at the end of the event. The fluids produced were transported to TK Tank Services of Sumter, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by Ms. Diana McMahan Personal Representative for the Estate of Donald McGill, MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Courtney M. Sanders
Staff Biologist

Brendon P. Kelly
Project Scientist

Attachments:

TABLE 1A
AFVR MONITORING DATA
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 12-3836A
SCDHEC SITE ID NUMBER 19440

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements				
					Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM	Removal Rate Lbs/Hr	Interval Removal Lbs
MW-1	02/27/12	12:00	0.50	10.0	284	1,560	140.40	0.48	0.24
RW-1	02/27/12	12:30	0.50	10.0	249	1,500	135.00	0.40	0.20
RW-2	02/27/12	13:00	0.50	10.0	263	1,470	132.30	0.42	0.21
	02/27/12	13:30	0.50	10.0	312	1,510	135.90	0.51	0.25
	02/27/12	14:00	0.50	10.0	360	1,560	140.40	0.61	0.30
	02/27/12	14:30	0.50	14.0	534	530	47.70	0.31	0.15
	02/27/12	15:00	0.50	14.0	581	550	49.50	0.35	0.17
	02/27/12	15:30	0.50	14.0	673	500	45.00	0.36	0.18
	02/27/12	16:00	0.50	14.0	502	480	43.20	0.26	0.13
	02/27/12	16:30	0.50	14.0	324	450	40.50	0.16	0.08
	02/27/12	17:00	0.50	14.0	680	400	36.00	0.29	0.15
	02/27/12	17:30	0.50	17.0	945	180	16.20	0.18	0.09
	02/27/12	18:00	0.50	17.0	1,116	140	12.60	0.17	0.08
	02/27/12	18:30	0.50	17.0	1,227	160	14.40	0.21	0.11
	02/27/12	19:00	0.50	17.0	1,341	200	18.00	0.29	0.14
	02/27/12	19:30	0.50	17.0	1,282	240	21.60	0.33	0.17
	02/27/12	20:00	0.50	17.0	1,456	210	18.90	0.33	0.17
									TOTAL 2.83

Well Data:			Pre AFVR Event			Post AFVR Event			Corrected Depth to Water Change (ft)
Well No.	Diameter (in)	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	
MW-1	2"	40-50	***	46.44	***	***	46.82	***	0.38
RW-1	4"	30-50	***	46.75	***	***	46.79	***	0.04
RW-2	4"	30-50	***	47.00	***	***	47.13	***	0.13

Vacuum Truck Information		Well ID	Stinger Depth
Subcontrator:	MECI	MW-1	47.00
Truck Operator:	G. Globensky	RW-1	47.50
Stack I.D. (feet)	0.33 feet	RW-2	47.50

Recovery / Disposal Information		
Hydro carbons Removed (vapor):	2.83	Pounds
Hydro carbons Removed (liquid):	0	Gallons
Total Hydrocarbons Removed:	0.49	Equivilant Gallons
Molecular Weight Utilized:	75	g / mole
Disposal Facility	TK Tank Services	
Total Liquids Removed:	200	Gallons

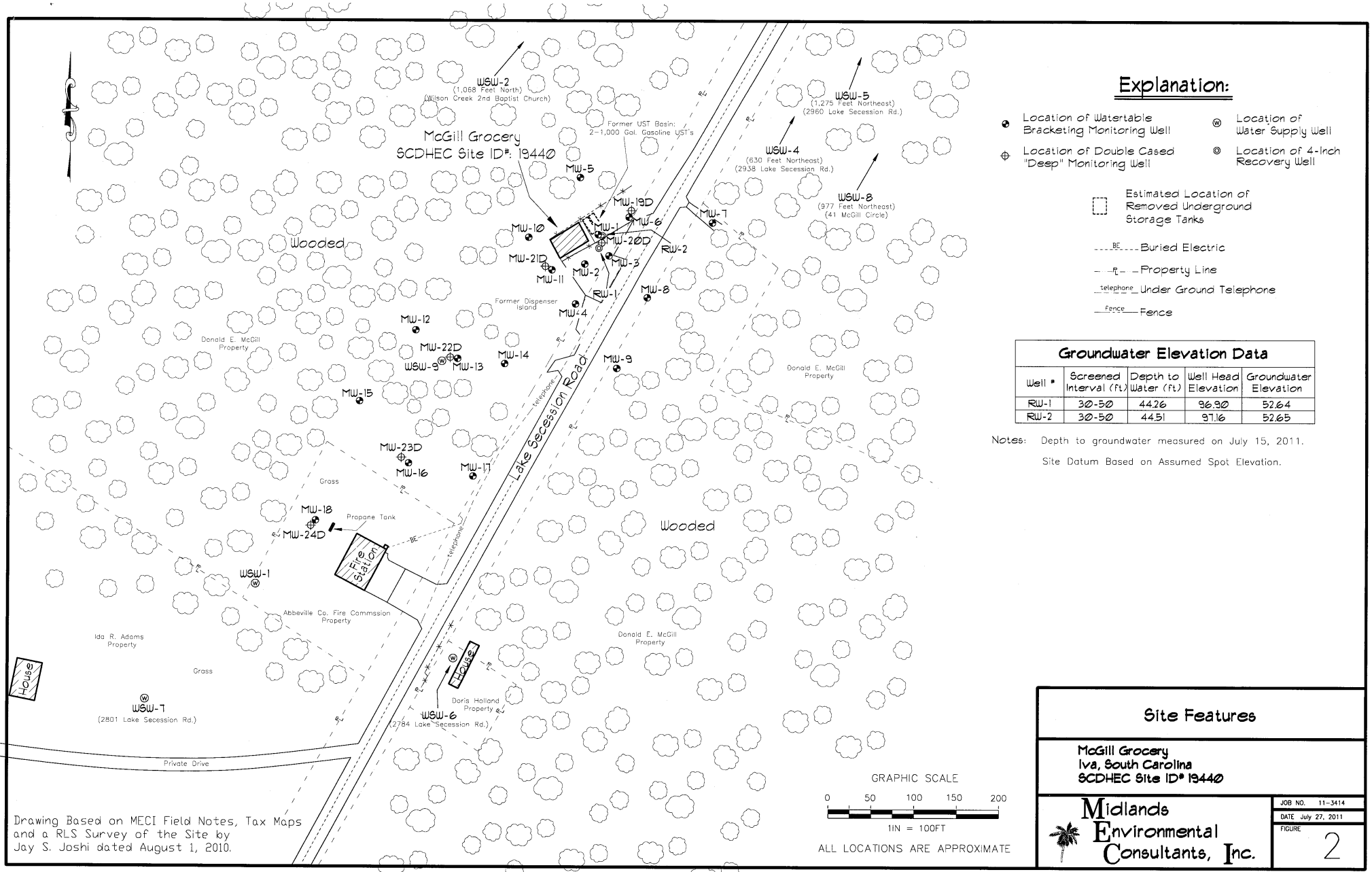
TABLE 2A
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 12-3836A
SCDHEC SITE ID NUMBER 19440

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-2	**MW-3**	**MW-6**
Nearest Extraction Well:		RW-1	RW-2	MW-1
Approximate Distance:		25 ft	25 ft	42 ft
Time	**Elapsed Time**	**Differential Pressure Readings (inches of water)**		
12:00	0.0	0.0	0.0	0.0
12:30	0.5	0.0	0.0	0.0
13:00	1.0	0.0	0.0	0.0
13:30	1.5	0.0	0.0	0.0
14:00	2.0	0.0	0.0	0.0
14:30	2.5	0.0	0.0	0.0
15:00	3.0	0.0	0.0	0.0
15:30	3.5	0.0	0.0	0.0
16:00	4.0	0.0	0.0	0.0
16:30	4.5	0.0	0.0	0.0
17:00	5.0	0.0	0.0	0.0
17:30	5.5	0.0	0.0	0.0
18:00	6.0	0.0	0.0	0.0
18:30	6.5	0.0	0.0	0.0
19:00	7.0	0.0	0.0	0.0
19:30	7.5	0.0	0.0	0.0
20:00	8.0	0.0	0.0	0.0
Maximum Change:		0.0	0.0	0.0

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW-2	**MW-3**	**MW-6**
Nearest Extraction Well:		RW-1	RW-2	MW-1
Approximate Distance:		25 ft	25 ft	42 ft
Time	**Elapsed Time**	**Depth to Liquid (feet below of casing):**		
Prior toAFVR		47.24	47.36	46.31
16:00	4 hours	47.26	47.36	46.30
20:00	8 hours	47.28	47.39	46.32
Maximum Change:		-0.04	-0.03	-0.02



Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

GRAPHIC SCALE

0 50 100 150 200

1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Water Supply Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 4-Inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks
- BE — Buried Electric
- PL — Property Line
- telephone — Under Ground Telephone
- Fence — Fence

Groundwater Elevation Data

Well #	Screened Interval (ft)	Depth to Water (ft)	Well Head Elevation	Groundwater Elevation
RW-1	30-50	44.26	96.90	52.64
RW-2	30-50	44.51	97.16	52.65

Notes: Depth to groundwater measured on July 15, 2011.

Site Datum Based on Assumed Spot Elevation.

Site Features

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 11-3414
DATE July 27, 2011
FIGURE 2

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
NON HAZARDOUS PETROLEUM CONTAMINATED WATER		TT	3690	G

SCDHEC Site	Permit Number	Gallons Produced
West State Line Gulf	08606	175
West State Line Gulf	08606	150
Bay Creek Villas	18662	325
McGill Grocery	19440	200
Ford Specialist	00487	100
Satterfield Used Cars	14212	100
Gregory's Store	08979	200
Former McCoy Oil	19002	325
Phillips Rental Property	19328	140
Burton's BP	12299	125
Southern Gas Service	03913	175
Winners Circle	10382	150
Winners Circle	10382	150
Wailon's Quick Stop	12814	175
Gibb's Grocery	03463	450
Richland County Landfill	11808	100
Former Gulf Station	18447	200
Former Fast Fare	18131	250
Summers Store	03198	0
TJ's Mart (Former Smile Gas #43)	11164	200

escribed above by the proper shipping name, and are classified, packaged, itional governmental regulations.

Month Day Year

ntry/exit:

ving U.S.:

GENERATOR

INT'L

16. Transporter Acknowledgment of Receipt of Materials

TRANSPORTER

Transporter 1 Printed/Typed Name: Steve A. Gamble — Signature: Steve A. Gamble — Month 3 Day 14 Year 12

Transporter 2 Printed/Typed Name — Signature — Month Day Year

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

DESIGNATED FACILITY

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

Return to Arthur Shrader

UST
MAR 1 1 2009
PROGRAM

UNDERGROUND STORAGE TANK (UST) OWNER/OPERATOR LEAD INFORMATION SHEET

1. CONTRACTOR OF CHOICE

As the UST Owner/Operator of the UST Permit #19440, I would like to use the contractor or person(s)* listed below and request that they represent me for:

☑ IGWA
☐ All future assessment scopes. **

Name of Contractor/Person(s) Midlands Environmental Consultants
Address PO Box 854
Lexington, SC 29071

Telephone Number 803-808-2043

Note: After September 20, 1997, rehabilitation activities must be performed by a SC Certified Site Rehabilitation Contractor.

* indicate if the person listed is your own employee

** if you would like the contractor to perform all future assessment activities at this and/or other UST sites that have confirmed releases, please provide a list of all sites on your letterhead and provide the information requested in items 2 and 3 below within the context of the letter.

2. FINANCIAL OR FAMILIAL RELATIONSHIP

Does a financial or familial relationship, as defined below, exist between you and the contractor/person that you listed above? _____ Yes DM No (please initial)

Financial Relationship: A connection or association through a material interest of sources of income which exceed five percent of annual gross income from a business entity.

Familial Relationship: A connection or association by family or relatives, in which a family member or relative has a material interest. Family or relatives include: father, mother, son, daughter, brother, sister, uncle, aunt, first cousin, nephew, niece, husband, wife, father-in-law, mother-in-law, son-in-law, daughter-in-law, stepfather, stepmother, stepson, stepdaughter, stepbrother, stepsister, half brother, half sister, grandparent, grandchild, great grandchild, step grandparent, step great grandparent, step grandchild, step great grandchild, or fiancée.

3. PAYMENT

The first $25,000.00 in eligible site rehabilitation costs will be applied against the applicable SUPERB deductible, upon submittal of the canceled check (front and back) or a notarized statement from the contractor verifying payment.

For eligible costs exceeding the $25,000.00 deductible, you can pay the contractor and, upon the submittal of the canceled check (front and back) or a notarized statement from the contractor verifying payment, be compensated from the SUPERB Account, or have payment issued directly from the SUPERB Account to the contractor. (check one)

_____ For eligible costs exceeding the deductible, I request that payment be made to me after I have paid the contractor.

✓ For eligible costs exceeding the deductible, I request that payment be made directly to the contractor.

(Note: all costs must receive prior financial approval from the Department regardless of payment option.)

Underground Storage Tank Owner/Operator Signature Diana McMahon

Date Signed 3-9-09

UST
DOCKET
2tech

Midlands
Environmental
Consultants, Inc.

April 16, 2012

Mr. Joel Padgett, P.G., Hydrogeologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

RECEIVED
JUN 13 2012
SC DHEC
BUREAU OF LAND & WASTE MGT.

UST
20 tech
DOCKETING

Subject: Aggressive Fluid Vapor Recovery Report
McGill Grocery
Iva, South Carolina
SCDHEC Site ID # 19440; CA # 43183
MECI Project Number 12-3836B
Certified Site Rehabilitation Contractor UGC-009

Dear Mr. Padgett,

On behalf of Ms. Diana McMahan Personal Representative for the Estate of Donald McGill, Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at McGill Grocery on April 3, 2012. The event was conducted on monitoring wells MW-1, RW-1, and RW-2 reduce dissolved CoC concentrations. Free phase petroleum product was not detected in monitoring wells MW-1, RW-1, and RW-2 prior to the event. The event was conducted continuously for eight hours by MECI personnel utilizing a vacuum extraction unit. Free phase petroleum product was not detected in the wells immediately following the event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the well were 14.95 pounds or approximately 2.58 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 1.87 pounds per hour. Concentrations of off gas produced during the event were recorded from 618 parts per million by volume (PPM) to 1,968 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range of 10.0 to 20.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1B.

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2B. Monitoring well locations are depicted on attached Figure 1.

A total of 150 gallons of liquid was removed from MW-1, RW-1, and RW-2 during this event. Free phase petroleum product was not observed in the holding tank at the end of the event. The fluids produced were transported to TK Tank Services of Sumter, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

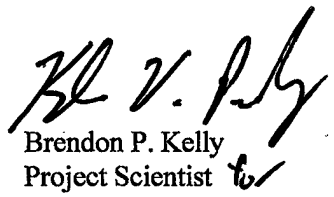
QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by Ms. Diana McMahan Personal Representative for the Estate of Donald McGill, MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Courtney M. Sanders
Staff Biologist



Brendon P. Kelly
Project Scientist

Attachments:

TABLE 1B
AFVR MONITORING DATA
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 12-3836B
SCDHEC SITE ID NUMBER 19440

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements				
					Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM	Removal Rate Lbs/Hr	Interval Removal Lbs
MW-1	04/03/12	8:00	0.50	10.0	1,602	2,020	181.80	3.49	1.75
RW-1	04/03/12	8:30	0.50	10.0	1,296	2,000	180.00	2.80	1.40
RW-2	04/03/12	9:00	0.50	10.0	1,053	1,980	178.20	2.25	1.13
	04/03/12	9:30	0.50	10.0	962	2,010	180.90	2.09	1.04
	04/03/12	10:00	0.50	10.0	618	2,030	182.70	1.35	0.68
	04/03/12	10:30	0.50	10.0	715	1,040	93.60	0.80	0.40
	04/03/12	11:00	0.50	10.0	625	2,020	181.80	1.36	0.68
	04/03/12	11:30	0.50	15.0	1,759	1,480	133.20	2.81	1.41
	04/03/12	12:00	0.50	15.0	1,361	1,500	135.00	2.20	1.10
	04/03/12	12:30	0.50	15.0	980	1,490	134.10	1.58	0.79
	04/03/12	13:00	0.50	15.0	853	1,520	136.80	1.40	0.70
	04/03/12	13:30	0.50	15.0	621	1,540	138.60	1.03	0.52
	04/03/12	14:00	0.50	15.0	669	1,550	139.50	1.12	0.56
	04/03/12	14:30	0.50	20.0	1,968	820	73.80	1.74	0.87
	04/03/12	15:00	0.50	20.0	1,432	830	74.70	1.28	0.64
	04/03/12	15:30	0.50	20.0	1,590	800	72.00	1.37	0.69
	04/03/12	16:00	0.50	20.0	1,326	830	74.70	1.19	0.59
									TOTAL 14.95

Well Data:			Pre AFVR Event			Post AFVR Event			Corrected Depth to Water Change (ft)
Well No.	Diameter (in)	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	
MW-1	2"	40-50	***	46.62	***	***	46.46	***	-0.16
RW-1	4"	30-50	***	46.94	***	***	46.62	***	-0.32
RW-2	4"	30-50	***	47.18	***	***	46.55	***	-0.63

Vacuum Truck Information		Well ID	Stinger Depth
Subcontrator:	MECI	MW-1	47.50
Truck Operator:	K. Pudney	RW-1	47.50
Stack I.D. (feet)	0.33 feet	RW-2	48.00

Recovery / Disposal Information		
Hydro carbons Removed (vapor):	14.95	Pounds
Hydro carbons Removed (liquid):	0	Gallons
Total Hydrocarbons Removed:	2.58	Equivilant Gallons
Molecular Weight Utilized:	75	g / mole
Disposal Facility	TK Tank Services	
Total Liquids Removed:	150	Gallons

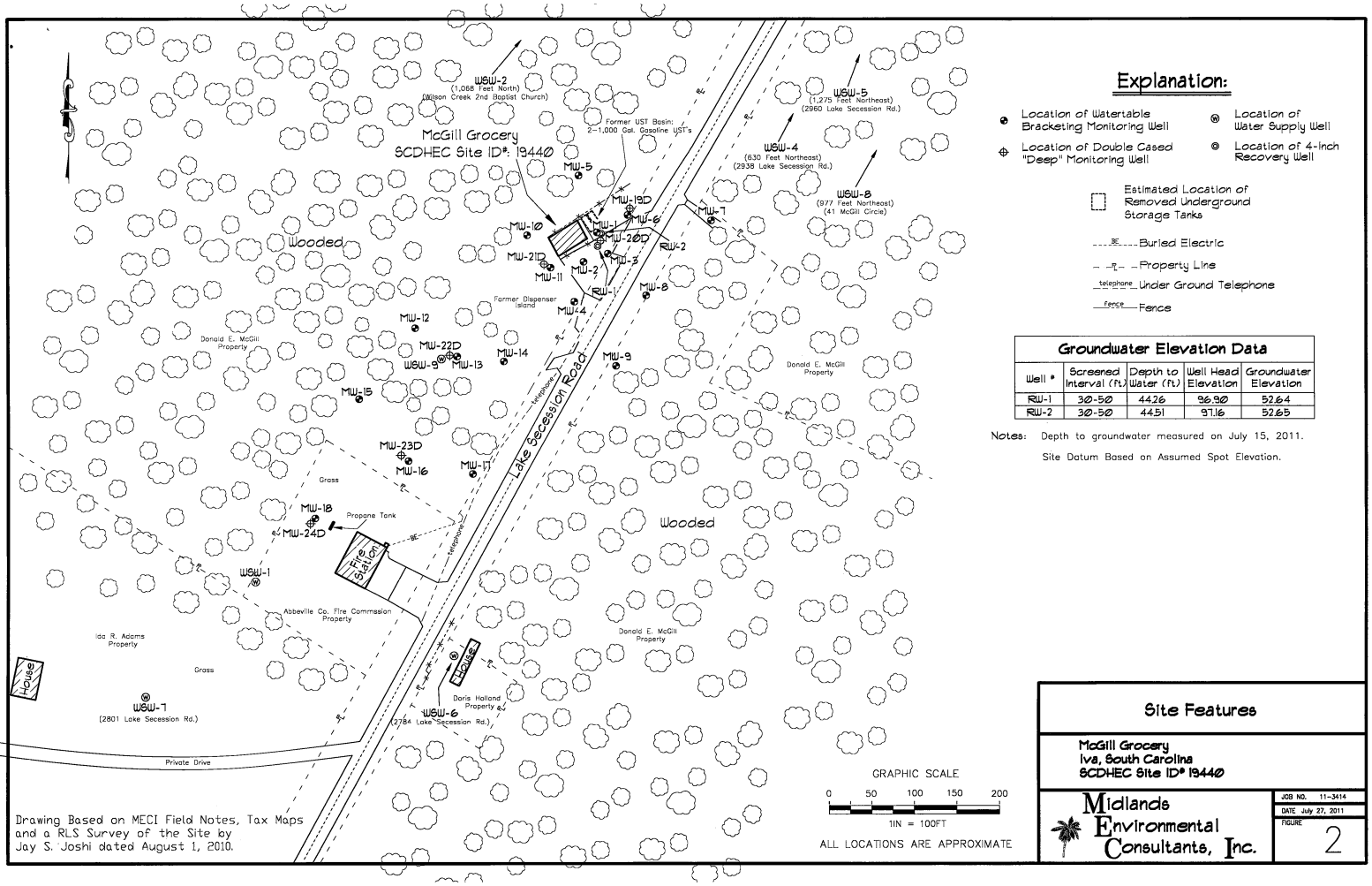
TABLE 2B
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 12-3836B
SCDHEC SITE ID NUMBER 19440

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-2	MW-3	MW-6
Nearest Extraction Well:		RW-1	RW-2	MW-1
Approximate Distance:		25 ft	25 ft	42 ft
Time	Elapsed Time	Differential Pressure Readings (inches of water)		
8:00	0.0	0.0	0.0	0.0
8:30	0.5	0.0	0.0	0.0
9:00	1.0	0.0	0.0	0.0
9:30	1.5	0.0	0.0	0.0
10:00	2.0	0.0	0.0	0.0
10:30	2.5	0.0	0.0	0.0
11:00	3.0	0.0	0.0	0.0
11:30	3.5	0.0	0.0	0.0
12:00	4.0	0.0	0.0	0.0
12:30	4.5	0.0	0.0	0.0
13:00	5.0	0.0	0.0	0.0
13:30	5.5	0.0	0.0	0.0
14:00	6.0	0.0	0.0	0.0
14:30	6.5	1.0	0.0	0.5
15:00	7.0	1.0	0.0	0.5
15:30	7.5	1.0	0.0	0.5
16:00	8.0	1.0	0.0	0.5
Maximum Change:		1.0	0.0	0.5

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW-2	MW-3	MW-6
Nearest Extraction Well:		RW-1	RW-2	MW-1
Approximate Distance:		25 ft	25 ft	42 ft
Time	Elapsed Time	Depth to Liquid (feet below of casing):		
Prior toAFVR		47.28	46.90	46.29
12:00	4 hours	47.35	47.06	46.36
16:00	8 hours	47.59	47.34	46.60
Maximum Change:		-0.31	-0.44	-0.31



Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Water Supply Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 4-inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks
- Buried Electric
- Property Line
- telephone Under Ground Telephone
- fence Fence

Groundwater Elevation Data

Well #	Screened Interval (ft.)	Depth to Water (ft.)	Well Head Elevation	Groundwater Elevation
RW-1	30-50	44.26	96.90	52.64
RW-2	30-50	44.51	97.16	52.65

Notes: Depth to groundwater measured on July 15, 2011.

Site Datum Based on Assumed Spot Elevation.

Site Features

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 11-3414
DATE July 27, 2011
FIGURE 2

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number

5. Generator's Name and Mailing Address

MIDLANDS ENVIRONMENTAL
1134 TWO NOTCH ROAD
LEXINGTON, SC 29072

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name | U.S. EPA ID Number

TK TANK SERVICE | SUMTER, SC | 287573557

7. Transporter 2 Company Name | U.S. EPA ID Number

8. Designated Facility Name and Site Address | U.S. EPA ID Number

TK TANK SERVICES
425 BOULEVARD ROAD
SUMTER, SC 29153

Facility's Phone: 803-481-5514 | 287573557

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. NON HAZARDOUS PETROLEUM CONTAMINATED WATER		TT	280	

SCDHEC Site	Permit Number	Gallons Produced
Chester School Bus Shop	02044	325
Chester School Bus Shop	02004	150
Thrifty Gas Mart	02010	200
TJ's Mart	11164	200
Donnie's Muffler	18955	175
EZ Stop Food Shop	14555	150
Cooley's Garage	00420	150
McGill Grocery	19440	150
Don D. Grant	02697	350
York County School Bus Shop	09164	50
Richland County Public Works	11805	300
Phillips Rental Property	19328	50
Former Gulf Station	18447	150
Winners Circle	10382	200
Winners Circle	10382	200

GENERATOR

itely described above by the proper shipping name, and are classified, packaged, and national governmental regulations.

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

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: Steve A. Gamble | Signature: Steve A. Gamble | Month: 4 | Day: 16 | Year: 12

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: 7516

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 | Signature | Month | Day | Year

D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

MR HOWARD BURTON
C/O ATTY WILLIAM C HOOD
505 MCDUFFIE STREET
ANDERSON SC 29624-2330

OCT 0 3 2013

Re: **Letter of Concern (LOC)**
McGill Grocery
Lake Secession Road, Iva, SC 29655
UST Permit # 19440
LOC Requested via Email on October 1, 2013
Abbeville County

Dear Mr. Burton:

You requested that this office provide you with an update on the environmental conditions at the above referenced facility.

We received a report on January 28, 2009 documenting petroleum chemicals of concern in the subsurface, in the vicinity of the former underground storage tanks. Our records revealed that two (2) underground storage tank (USTs) owned by Donald McGill were removed on December 2, 2008. In response to the initial report of petroleum chemicals of concern, we directed the Estate of Donald McGill, as the party responsible for performing this activity under state and federal law, to assess the extent and severity of the contamination. A groundwater sampling event is required in the near future.

The UST Division would also like to clarify for you the financial and liability issues surrounding the petroleum chemicals of concern at this facility. The release of petroleum products from the UST is qualified to receive funding from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. This means that reasonable costs up to $1,000,000 can be paid by the SUPERB Account for site rehabilitation actions associated with this release.

Section 80(C) of the SUPERB Act provides that a subsequent purchaser of property from which an UST has been removed is not responsible for site rehabilitation activities other than abatement actions necessary to eliminate any imminent threat to human health or the environment. This exemption applies to the extent that the release is eligible for compensation from the SUPERB Account, provided that the person allows reasonable access to the property for rehabilitation activities, and does not or has not had any familial, financial, or other interest with the person who owned or operated the UST. This applies equally to subsequent lenders or to those who would acquire this property through foreclosure in the future.

The Division is not aware of any laws or regulations that prohibit the use or development of properties where a petroleum release has occurred. Any future work required by the Agency should not cause any damage to the building, disrupt deliveries, prevent access to customers, or block main access routes. To further assure you, any required activities associated with the petroleum release would be performed by a SC Certified Site Rehabilitation Contractor who maintains specific levels of insurance coverage for General and Professional Liability and Pollution/Property Damage. Such coverage is required by Section IV of the SUPERB Site Rehabilitation and Fund Access Regulations R. 61-98.

If you have any questions, please contact me at (803) 898-0607. I can also be reached by email at ShullSS@dhec.sc.gov.

Sincerely,

Shane S. Shull, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Ms. Diana McMahan, P.O. Box 41, Iva, SC 29655
Mr. Jeff Coleman, Midlands Environmental Consultants, Inc., P.O. Box 854, Lexington, SC 29071
Technical File

D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

MS DIANA MCMAHAN
ESTATE OF DONALD E MCGILL
PO BOX 41
IVA SC 29655

OCT 0 3 2013

Re: **QAPP Contractor Addendum**
McGill Grocery
Lake Secession Road, Iva, SC 29655
UST Permit # 19440
Release Reported January 28, 2009
Abbeville County

Dear Ms. McMahan:

The Underground Storage Tank (UST) Management Division (Division) of the South Carolina Department of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site using Midlands Environmental Consultants, Inc., as your contractor. The next scope of work is a groundwater sampling event as outlined in Revision 2.0 of the UST Quality Assurance Program Plan (QAPP). Please have your contractor plan to conduct a comprehensive groundwater sampling of all monitoring wells and water supply wells WSW-1, WSW-4, WSW-6, WSW-7, and WSW-9. Samples should be analyzed for BTEX, Naphthalene, Oxygenates, 1,2-DCA, MTBE and EDB, in accordance with QAPP Rev. 2.0, and in compliance with all applicable regulations. A copy of the QAPP is available at http://www.scdhec.gov/environment/lwm/usthome/Qapp.htm.

Your contractor must complete and submit a QAPP Contractor Addendum and cost agreement for the aforementioned scope of work within 30 days of the date of this letter. Upon review and approval of the Addendum and cost agreement, the Division will issue a directive to you for the work.

On all correspondence concerning this site, please reference UST Permit # 19440. If there are any questions, feel free to contact me by telephone at (803) 898-0607, by fax at (803) 898-0673, or by e-mail at ShullSS@dhec.sc.gov.

Sincerely,

Shane S. Shull, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

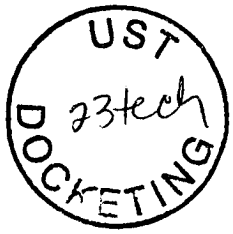
cc: Midlands Environmental Consultants, Inc., P.O. Box 854, Lexington, SC 29071
Technical File

Midlands Environmental Consultants, Inc.

October 15, 2013

Mr. Shane Shull,
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: QAPP Contractor Addendum – Revision 0
McGill Grocery
Iva, South Carolina
SCDHEC Site ID Number 19440
MECI Project Number 13-4649
Certified Site Rehabilitation Contractor UCC-0009



Dear Mr. Shull,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached QAPP Contractor Addendum for the referenced site.

On October 15, 2013 MECI personnel performed a site visit to the subject site to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

Sincerely,
Midlands Environmental Consultants, Inc.

Kyle V. Pudney
Staff Biologist

Jeff L. Coleman
Senior Scientist

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

Section A: Project Management

A1 Title and Approval Page

Quality Assurance Project Plan
Addendum to the SC DHEC UST Programmatic QAPP
For
McGill Grocery, SCDHEC Site ID# 19440

Lake Secession Road, Iva, South Carolina

Prepared by:
Kyle V. Pudney
Staff Biologist
Midlands Environmental Consultants, Inc.
(Certified Site Rehabilitation Contractor UCC-0009)
235-B Dooley Road
Lexington, SC 29073
(803)808-2043

Date: October 15, 2013

Approvals

Shane S. Shull SC DHEC Project Manager	_____ Signature	Date_____
Bryan T. Shane, P.G. Site Rehabilitation Contractor	B.T. Shane Signature	Date 10-16-13
Jeff L. Coleman Contractor QA Manager	_____ Signature	Date 10/16/13
Daniel J. Wright Laboratory Director	Daniel J. Wright Signature	Date 10/15/2013

A2 Table of Contents

A1 Title and Approval Page 1
A2 Table of Contents 2
A3 Distribution List 3
Table 1A Addendum Distribution List 3
A4 Problem Definition/Background 3
A5 Project/Task Description 4
A6 Data Quality Objectives (DQOs) and Data Quality Indicators (DQIs) 4
A7 Certification 4
A8 Documents and Records 4
Table 2A Record Identification, Storage, and Disposal 5
Section B Measurement/Data Acquisition 5
B1 Sampling Process/Experimental Design 5
Table 3A Sampling Activities 5
B2 Sampling Methods 5
Monitoring Well Sampling 6
Table 4A Field Corrective Action 9
B3 Sample Handling and Custody 9
B4 Analytical Methods 10
Table 5A Analytical SOPs and Referenced Methods 10
B5 Quality Control Requirements: 11
B6 Field Instrument and Equipment Testing, Inspection and Maintenance 11
Table 6A Instrument and Equipment Maintenance 11
B7 Instrument Calibration and Frequency 11
Table 7A Instrument Calibration Criteria and Corrective Action 13
B8 Inspection/Acceptance Requirements for Supplies and Consumables 13
B9 Data Acquisition Requirements (Non-Direct Measurements) 13
Table 8A Non-Direct Measurements 14
B10 Data Management 14
Section C Assessment and Oversight 15
C1 Assessment and Response Actions 15
C2 Reports to Management 15
Section D Data Validation and Usability 15

A3 Distribution List

Name	Title	License Number/Exp. Date	Organization/Address	Telephone Number	Fax Number	Email Address
Shane S. Shull	SC DHEC Technical Project Manager		SCDHEC, UST Management Division, 2600 Bull St., Columbia, SC, 29201	803-898-0634	803-898-0673	shullss@dhec.sc.gov
Bryan T. Shane, P.G.	Site Rehabilitation Contractor	Professional Geologist-SC 1102 Exp. 06/30/2015	Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	bts@meci.net
Jeff L. Coleman	Quality Assurance Officer		Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	jlc@meci.net
Kyle V. Pudney	Field Manager		Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	kvp@meci.net
Daniel J. Wright	Laboratory Director	Lab Certification SC 32010 Exp. 12/17/2015	Shealy Environmental Services,Inc. 106 Vantage Point Dr. West Columbia, SC 29172	803-791-9700	803-791-9111	dwright@shealylab.com
Project Verifier	Jeff L. Coleman or Ryan Ariail		Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	jlc@meci.net

Table 1A Addendum Distribution List

A4 Problem Definition/Background

Discuss the background (as much as is known) of the site and appropriate historical information, and why this site is being assessed.

The subject site (McGill Grocery) is located near the intersection of Lake Secession Road and McGill Circle, Iva, Abbeville County, South Carolina (see Figure 1). The subject site consists of an approximately 18.05 acre parcel that is occupied by an abandoned gasoline service station, the remainder of the property is undeveloped and wooded, this property occupies both sides of Lake Secession Road. The subject site formerly maintained two 1,000-gallon gasoline underground storage tanks (UST'S). A release of petroleum product was reported on January 28, 2009. MECI conducted an Initial Groundwater Assessment (IGWA) in May of 2009, a Tier I Assessment in July of 2009, and a Tier II Assessment in August of 2010.

A comprehensive sampling event will be conducted at the subject site McGill Grocery to determine current site conditions and current analytical data.

Please answer the following: Does this project fall under UST or Brownfields area?

Underground Storage Tank Division

A5 Project/Task Description

1. **Summarize what is known about the work to be done. This can be a short sentence indicating what the Scope of this project is (see Master QAPP Section A6).**

A comprehensive sampling event will be conducted at the subject site (McGill Grocery) to determine current site conditions and current analytical data.

2. ***The work will begin within*** fourteen (14) days of receipt of approved QAPP contractors addendum ***after cost approval and sampling should be complete by*** twenty-one (21) days of receipt of approved QAPP contractors addendum.

3. ***Are there are time or resource constraints? Include those factors that may interfere with the tentative schedule.***

Factors that may prevent schedule work will be, but not limited to, inclement weather, equipment malfunction, and machine failure.

A6 Data Quality Objectives (DQOs) and Data Quality Indicators (DQIs)

The subject site (McGill Grocery) is located near the intersection of Lake Secession Road and McGill Circle, Iva, Abbeville County, South Carolina. The site is currently an abandoned building.

A7 Certification

The Following Laboratory(ies) will be used for this Project:

Commercial Lab(s)

Full Name of the Laboratory___Shealy Environmental Services, Inc.____
Name of Lab Director_____Daniel J. Wright_____
SC DHEC Certification Number_____32010_____
Parameters this Lab will analyze for this project:

BTEX, Napth, MTBE, 1,2 DCA, 8 Oxygenates (EPA Method 8260-B) and EDB (EPA Method 8011).

Please note: SC DHEC may require that the contractor submit some or all of the Laboratory's SOPs as part of this QAPP.

A8 Documents and Records

Personnel will receive the most current version of the QAPP Addendum via:

(Check all that apply)

____US Mail ____Courier __X__ Hand delivered

Other (please specify):____E-mailed electronic copies___

Record	Produced By	Hardcopy/ Electronic	Storage Location For how long?	Archival
Instrument Raw Data	Target, Thermospec, or Iteva software	Hardcopy and Electronic	Hardcopy: Offsite storage for 7 yrs Electronic: Two external storage device backups – one offsite, one onsite storage for 10 yrs	Yes
Final Reports	LIMS	Electronic	Electronic: Two external storage device backups – one offsite, one onsite storage for 10 years	Yes
Field Work	Field Staff	Hardcopy	MECI office: 235B Dooley Road / Min. 5 years	Yes
Chain of Custody	Field Staff	Hardcopy	MECI office: 235B Dooley Road / Min. 5 years	Yes
QAPP Addendum	Jeff L. Coleman	Hardcopy & Electronic	MECI office: 235B Dooley Road / Min. 5 years	Yes
Internal QC record	Jeff L. Coleman	Hardcopy	MECI office: 235B Dooley Road / Min. 5 years	Yes
Sampling Report	Jeff L. Coleman	Hardcopy & Electronic	MECI office: 235B Dooley Road / Min. 5 years	Yes

Table 2A Record Identification, Storage, and Disposal

Section B Measurement/Data Acquisition

B1 Sampling Process/Experimental Design

Item	Start Date	End Date	Comments
Site Reconnaissance	10/15/2013	10/15/2013	Already Completed
QAPP preparation	10/16/2013	10/16/2013	In progress
QAPP approval	10/17/2013	11/07/2013	Assuming three week turnaround
Monitoring well Sampling	11/08/2013	11/22/2013	Sampled within 2 weeks of QAPP approval
Report Preparation	11/23/2013	12/14/2013	Three weeks to prepare/submit report

Table 3A Sampling Activities

B2 Sampling Methods

Please note: The contractor must follow sampling protocols as given in the UST QAPP.

<u>Estimate</u> the number of samples of each matrix that are expected to be collected:

Soil	_____
Ground Water from monitoring wells	_____26____
From Drinking/Irrigation water wells	_____5_____
Field Duplicate Collection	_____2____
Field Blank Collection	_____1____
Trip Blank	_____1____
From surface water features	_____
Total number of Water samples	_____35____

Notes:
During the October 15, 2013 site visit, twenty-six (26) wells and five (5) water supply wells were located.

During the initial site visit it was noted that all located monitoring well were in good condition.

All monitoring well samples will be analyzed by Shealy Environmental Services, Inc. for BTEX, Napth, MTBE, 1,2 DCA, 8 Oxygenates (EPA Method 8260-B) and EDB (EPA Method 8011).

For the sample matrices indicated above, please describe how samples will be collected and the equipment needed.

Monitoring Well Sampling

Water Level Measurement:

-MECI personnel utilize Electronic Water Level Indicators for Water Level Measurements. Each sampling crew carries an electronic water level indicator for use on downgradient monitoring wells and an Oil/Water Interface probe for use on source area wells or wells that have historically contained measurable free phase petroleum product.

-Prior to usage, the indicator is decontaminated with isopropanol applied by a Teflon squeeze bottle and rinsed with analyte free water. This rinse water is collected and run through a portable GAC (granulated activated carbon) unit.

-The indicator is slowly lowered into the water table, and the water level is recorded to the nearest 0.01 feet.

-When free phase petroleum product is encountered, the Oil-Water Interface probe is slowly lowered into the monitoring well until product is encountered; this measurement is recorded to the nearest 0.01 feet. The meter is then lowered through the product until water is encountered. The probe is then pulled back up through the well until product is encountered again; this measurement is recorded to the nearest 0.01 feet.

-If the total depth of a monitoring well is required, after a groundwater level is recorded, the indicator probe is lowered until the bottom of the monitoring well is encountered. This depth is recorded to the nearest 0.01 feet. Following a total depth measurement, the entire length of probe tape is decontaminated with isopropanol and rinsed with analyte free water.

-All measurements will be taken from the top of the well casing.

Monitoring Well Purging:

-Where necessary, monitoring wells will be purged prior to sampling if: the well screen does not bracket the watertable, if a screened interval is not known, purging is specifically asked for by the SCDHEC project manager, or a monitoring well has not previously been sampled.

-Purging will be completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. Following purging/sampling of a well, the bailer and rope will be properly disposed. -A new set of Nitrile gloves will be worn at each monitoring well, and at any time samples are handled.

-Prior to purging, the water level of the well will be determined using an electronic water level indicator. The water level, total well depth and well diameter will be used to determine the amount of water standing in the water column. The following table presents gallons of water per foot of water column in selected diameters of wells:

Well Diameter (inches)	Gallons of Water/Foot	Well Diameter (inches)	Gallons of Water/Foot
1	0.047	8	2.611
2	0.163	10	4.08
4	0.653	12	5.875
6	1.469		

-The length of the water column multiplied by the gallons of water per foot will provide the number of gallons in one well volume of water.

-Purging will continue until three well volumes of water are evacuated, or where field measurements of pH, Specific Conductivity (uS), Temperature (°C), and Turbidity (NTU) have stabilized to within 10% of previous values or until all accessible well water is evacuated (purged dry). Field measurements of these parameters will be taken and recorded in field notes, prior to purging and after each well volume of water has been purged.

-When purging a well with a diameter larger than 2", a submersible Redi-Flo2 pump can be used.

-Prior to usage, the pump assembly will be cleaned using a laboratory grade detergent and rinsed with analyte free water.

-The pump is lowered into the water column utilizing an attached nylon rope. DO NOT LOWER THE PUMP USING THE ELECTRICAL CORD OR HOSE.

-Once the pump has been lowered to the desired depth, the nylon rope is securely attached to an anchor at the ground surface (i.e. metal stake, truck bumper, etc). The power cord is attached to the speed controller which is attached to the generator.

-Slowly increase the speed of the controller until a desired flow rate is achieved. The pump should not be allowed to run dry.

-Purge water will be treated on-site utilizing a GAC unit.

Monitoring Well No-Purge Sampling:

-No-purge sampling will be conducted in previously sampled monitoring wells if: the water level is within the screened interval of the well or specifically asked for by the SCDHEC project manager.

-Immediately prior to sampling, laboratory provided labels will be placed on all sample vials and containers. These labels will include the site name, sample ID, analysis to be completed, date and time.

-Sampling will be conducted utilizing prepackaged, clear, disposable polyethylene bailers and nylon rope. Following sampling of a well, the bailer and rope will be properly disposed. A new set of Nitrile gloves will be worn at each monitoring well, and at any time samples are handled.

-The bailer is lowered into the well until it encounters the watertable, the bailer is then allowed to fill with water and is extracted from the well. Samples are placed in laboratory provided and approved sampling containers. Following sample collection, the samples are immediately placed in laboratory provided coolers, pre-filled with wet ice obtained from the MECI office.

-When requested by the SCDHEC project manager, passive diffusion bags (PDB) can be used to obtain no purge samples from discreet intervals within a water column or from wells were it is not possible to treat purge water on-site (i.e. DNAPL contamination).

-Prior to installation of a PDB, all equipment used should be washed with isopropanol and rinsed with analyte free water (weights, PDB clamps, etc.).

-Wearing Nitrile gloves, the PDB is filled with analyte free water, sealed with a PDB clamp according to the manufacturer and attached to a nylon rope. The PDB is then lowered into the well to a specified depth.

-After a minimum of two weeks in the well, the PDB is removed from the well and a sample taken using a disposable, prepackaged, sealed sampling straw to puncture the bag and fill sample vials.

Quality Assurance:

-Once the samples are taken, they are to be immediately placed in laboratory provided coolers, pre-filled with wet ice obtained from the MECI office.

-One field duplicate will be taken for every twenty (20) monitoring wells sampled at a site. This blank is a duplicate sample taken from a monitoring well near the source area, and is sampled in accordance with MECI Standard Operating Procedures.

-One field blank will be prepared for each day a site is sampled. A field blank is prepared using lab provided DI water placed into laboratory provided sample containers.

-One trip blank per cooler used in sampling will be used at each site. The trip blank is prepared by the laboratory.

-Once a sample has been taken, a sample time will be recorded in the field notes, along with any information about monitoring well condition that should be brought to the attention of the project manager.

If decontamination procedures differ from Appendix H, please provide details.

Identify any equipment and support facilities needed. This may include such things as Fed-ex to ship the samples, a Geoprobe, field analysis done by another contractor (who must be certified), and electricity to run sampling equipment.

Samples will be transported to the laboratory by shipment with a lab provided courier or with a lab approved shipping company. If a courier is scheduled to visit the MECI offices the day following a sampling event, sampling coolers will be repacked with wet ice, and left at the office for pick-up. If no courier is scheduled to visit the MECI office the day following a sampling event, all sampling coolers are to be dropped off at the lab or at an approved shipping company for overnight delivery to the lab immediately following the sampling event.

Address the actions to be taken when problems occur in the field, and the person responsible for taking corrective action and how the corrective action will be documented.

Failure	Response	Documentation	Individual Responsible
Water level indicator not working properly	Attempt to clean probe, change battery, use back-up indicator if need be.	Record on field sheets, notify office staff. Take indicator out of rotation until problem identified and corrected.	Field Staff, Field Manager
Field meters not working	Attempt to clean probes, recalibrate in the field.	Record on field sheets, notify office staff. Take meters out of rotation until problem identified and corrected.	Field Staff, Field Manager
Wells not located	Use metal detector, measure from known points, contact project manager for additional information.	Record method used to attempt to locate the well on field sheets, and possibly reasoning for the well to be missing	Field Staff

Table 4A Field Corrective Action

B3 Sample Handling and Custody

1. ***How will the samples get from the Site to the Lab to ensure holding requirements are met?***

Following sample collection, the samples are immediately place in a laboratory provided cooler, pre-filled with wet ice obtained from the MECI office. Samples are transported to the MECI office once a sampling event is complete. A Chain of Custody (CoC) is filled out following the sampling event by the field staff. See attached CoC. If a lab provided courier is scheduled to visit the MECI offices the day following a sampling event, sampling coolers are repacked with wet ice, and left at the office for pick-up the following morning. If no courier is schedule to visit the MECI office the day following a sampling event, all sampling coolers are repacked with ice and are dropped off at a lab approved shipping company for overnight delivery to the lab.

2. ***If sample preservation procedures differ from the UST Programmatic QAPP, please provide details.***

3. ***If chain of custody procedures differ from the UST Programmatic QAPP, please provide details.***

B4 Analytical Methods

1. ***Identify the SOPs which will be used to analyze the samples, the method which the SOP references and the equipment or instrumentation that is needed:***

Parameter	Method Referenced	Comments
BTEX+Naph+MTBE+Oxygentaes	8260B	
PAH's	8270D	
EDB	8011	
Lead,T.	6010C	
Ferrous Iron	SM 3500-FED	
Nitrate	353.2	
Sulfate	300.0	
Methane	RSK-175	
TOC	Walkley-Black	
DRO - TPH	8015C	
pH	*	
Conductivity	*	
Dissolved Oxygen	*	
Temperature	*	
Turbidity	*	

Table 5A Analytical SOPs and Referenced Methods

- **This can be a full name of a SOP, an abbreviation, or a number. In the latter two cases, the abbreviation or number must be associated with the full name of the SOP. See also Table 8A SOP Abbreviation Key.**

2. Provide SOPs for the Kerr Method or the Ferrous Iron Method if these are parameters for this study. This can be attached or written here. If attached please note that it is an attachment and where it is located (if applicable).

B5 Quality Control Requirements:

All QC will follow the requirements laid out in Section B5 of the UST Programmatic QAPP.

B6 Field Instrument and Equipment Testing, Inspection and Maintenance

1. Identify all field equipment needing periodic maintenance, the schedule for this, and the person responsible.

Instrument	Serial Number	Type of Maintenance	Frequency	Person responsible
YSI 63	09C 101302, 10K 101895, 07M 100905	Replace probe tip	Yearly	J. Coleman
YSI 63	09C 101302, 10K 101895, 07M 100905	Replace batteries	As Needed	Field Staff
YSI 63	09C 101302, 10K 101895, 07M 100905	General inspection for wear and tear on equipment	Daily	Field Staff
YSI 63	09C 101302, 10K 101895, 07M 100905	Check buffer solutions for expiration	Weekly	J. Coleman
YSI 550A	04L 2026AK, 08B 101407, 04A 0912AI	Replace membrane	4 to 8 weeks	Field Staff
YSI 550A	04L 2026AK, 08B 101407, 04A 0912AI	Replace batteries	As Needed	Field Staff
YSI 550A	04L 2026AK, 08B 101407, 04A 0912AI	General inspection for wear and tear on equipment	Daily	Field Staff
Micro TPW/TPI Turbidimeter	201301174 201301183	General inspection for wear and tear on equipment	Daily	Field Staff

Table 6A Instrument and Equipment Maintenance

B7 Instrument Calibration and Frequency

1. Identify equipment, tools, and instruments for field or lab work that should be calibrated and the frequency.
2. Describe how the calibrations should be performed and documented, indicating test criteria and standards or certified equipment.
3. Identify how deficiencies should be resolved and documented. Identify the person responsible for corrective action.

Instrument	Serial Number	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action (CA)	Person Responsible for CA
Volatiles Mass Spec	Shealy SOP S-SV-021 Page 7	Minimum of 5 calibration standards for all compounds	When indicated by continuous calibration verification standard	Method Criteria	Detailed in SOP	MSV Analyst
Semi-volatile Mass Spec	Shealy SOP S-SV-021 Page 7	Minimum of 5 calibration standards for all compounds	When indicated by calibration verification standard	Method Criteria	Detailed in SOP	MSSV Analyst
GC ECD	Shealy SOP S-SV-012 Page 5	Minimum of 5 calibration standards for all compounds	When indicated by calibration verification standard	Method Criteria	Detailed in SOP	GC Analyst
Dionex IC	Shealy SOP S-IN-010 Page 6	Minimum of 5 calibration standards for all compounds	When indicated by calibration verification standard	Method Criteria	Detailed in SOP	IC Analyst
ICP	Shealy SOP S-IM-005 Page 6 & 7	Minimum of 3 calibration standards for all compounds	When indicated by calibration verification standard	Method Criteria	Detailed in SOP	ICP Analyst
Cetac Mercury Analyzer	Shealy SOP S-IM-006 Page 5	Minimum of 5 calibration standards for all compounds	When indicated by calibration verification standard	Method Criteria	Detailed in SOP	Mercury Analyst
Lacaht QuickChem 8000	Shealy SOP S-IN-042 Page 5	Minimum of 5 calibration standards	Daily or when indicated by calibration verification standard	Method Criteria	Detailed in SOP	Nitrate Analyst
YSI 63	09C 101302, 10K 101895, 07M 100905	pH Calibration	Daily	+/- 0.2 pH units	clean/replace probe tip, recalibrate	Field Staff
YSI 63	09C 101302, 10K 101895, 07M 100905	Conductivity Calibration	As directed by manufacturer	+/- 10 uS	clean/replace probe tip, recalibrate	Field Staff

Instrument	Serial Number	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action (CA)	Person Responsible for CA
YSI 550A	04L 2026AK, 08B 101407, 04A 0912AI	DO calibration	Daily	+/- 0.25 mg/l	clean/replace probe tip, recalibrate	Field Staff
YSI 550A	04L 2026AK, 08B 101407, 04A 0912AI	Temperature Calibration	Daily	+/- 1 °C	clean/replace probe tip, recalibrate	Field Staff
Electronic Water Level Indicator	18432 77107	Checked vs. Standard	Monthly	+/- 0.01 foot per 10 foot length	Replace probe tape	Field Staff
Oil/Water Interface probe	01-2872 01-0261 01-4101 01-3464	Checked vs. Standard	Monthly	+/- 0.01 foot per 10 foot length	Replace probe tape	Field Staff

Table 7A Instrument Calibration Criteria and Corrective Action

*** This can be a full name of a SOP, an abbreviation, or a number. In the latter two cases, the abbreviation or number must be associated with the full name of the SOP. See also Table 8A SOP Abbreviation Key.**

B8 Inspection/Acceptance Requirements for Supplies and Consumables

1. If procedures for storage, handling or transport of supplies/consumables differ from the UST Programmatic QAPP, please provide details.

B9 Data Acquisition Requirements (Non-Direct Measurements)

1. Identify data sources, for example, computer databases or literature files, or models that should be accessed or used.
2. Describe the intended use of this information and the rationale for their selection, i.e.,
3. Provide its relevance to the project.
4. Indicate the justification criteria for use of these data sources and/or models.

Data Source	Used for	Justification for use in this project	Comments
Small scope assessment sampling and monitoring well installation reports	Historic groundwater and CoC concentration data. Lithology and well construction data from previous MWI's	Establish the type of drilling rig required, time for sampling and any other potential problems that may be encountered.	Previous assessment reports will be used to help determine the location of missing monitoring wells, and screened intervals.

Table 8A Non-Direct Measurements

5. Identify key resources/support facilities needed.

There are no non-direct measurements in this project

B10 Data Management

1. Describe the data management scheme from field to final use and storage.

Following sample collection and chain of custody production, samples are shipped to the lab. Field work from the field staff is reviewed by the MECI project manager, and converted into digital form. All data entry is subsequently checked to validate the data entry. The original copies of the field work are stored in MECI files for a minimum of 5 years. Digital copies of the work are stored on the MECI server, which is backed up weekly, and stored for a minimum of 5 years. The digital copy of the field work is presented to SCDHEC with the final report.

2. How does the lab and field staff ensure that no unauthorized changes are made to the chain of custody, sampling notebooks, laboratory notebooks and computer records?

The laboratory maintains comprehensive Quality Control and Training Programs. All sample receipt data, sample log-in, and analytical data is peer reviewed, including review for inappropriate changes. Data management, review procedures and the Quality Systems Program are documented in the laboratory's Quality Manual and Standard Operating Procedures. The Quality Assurance Department oversees adherence to and review of these programs.

All MECI field work is produced using ink-pens. Any attempt to alter field data, after sampling is complete, can be readily identified. MECI keeps a carbon copy of the chain of custody after it is shipped to the lab. This copy is kept with the field work. If any change to the CoC are suspected, this original carbon copy can be use to identify potential changes.

3. How does the lab ensure that there are no errors in samples records including times when sample information is compiled, data calculated and/or transmitted?

Sample data acquisition software is reviewed periodically. The LIMS database is backed up daily and is able to be restored in the event of a system failure. These procedures are documented in laboratory SOP S-AD-003, LIMS. The IT Manager is responsible for these systems and procedures."

4. How will the data be archived once the report is produced? How can it be retrieved? (This applies to both electronic and hard copies).

Laboratory Hardcopy data stored off site is logged, maintained and archived by the Quality Assurance Department. Laboratory Electronic Data Reports are maintained through IT back up under the responsibility of the IT Systems Manager.

MECI keeps all field work and paper copies of reports in its in-house filing system. All paper copies are stored for a minimum of 5 years. Any file can be retrieved easily by going to the correct filing cabinet/box.

All electronic copies of reports generated are kept on the MECI server. This server is backed-up on a weekly basis. Any file stored on the MECI server can be retrieved instantly, by accessing the server. All electronic files are stored for a minimum of 5 years on the server.

Section C Assessment and Oversight

C1 Assessment and Response Actions

1. *The Contractor is supposed to observe field personnel daily during sampling activities to ensure samples are collected and handled properly and report problems to DHEC within 24 hours. . Please state who is responsible for doing this and what observations will be made. Will this person have the authority to stop work if severe problems are seen?*

Field audits can be conducted on any field personnel at any time. MECI field audits can be conducted by the Field Manger, who will be responsible for ensuring that field personnel adhere to the QAPP. If during a random field audit, severe problems are found, work will be stopped by the field manager and the QA officer contacted to determine corrective action. All problems must be corrected prior to any additional work being performed. Should it be requested, an On-site Field Audit can be scheduled with the SCDHEC project manager. If severe problems are identified by the SCDHEC project manager, the project manager can stop the work until the problems are corrected.

2. *The SCDHEC UST QAPP states that the Lab will receive an Offsite Technical System Audit. For this project, what assessments will be done on the Commercial Lab(s) that are being used—other than their certification audit? When or how often are these done? Who will the results be given to and who has the ability to stop work if problems are severe?*

The laboratory participates in annual Proficiency Testing through an approved vendor, Wibby Environmental. If during a random audit, severe problems are found, work will be stopped by the according Wibby Environmental representative and the QA officer contacted to determine corrective action. Proficiency Testing results are provided to the Office of Environmental Laboratory Certification.

C2 Reports to Management

See the SC DHEC UST Programmatic QAPP (UST Master QAPP).

Section D Data Validation and Usability

See the SC DHEC UST Programmatic QAPP (UST Master QAPP).

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

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

Facility Name: McGill Grocery

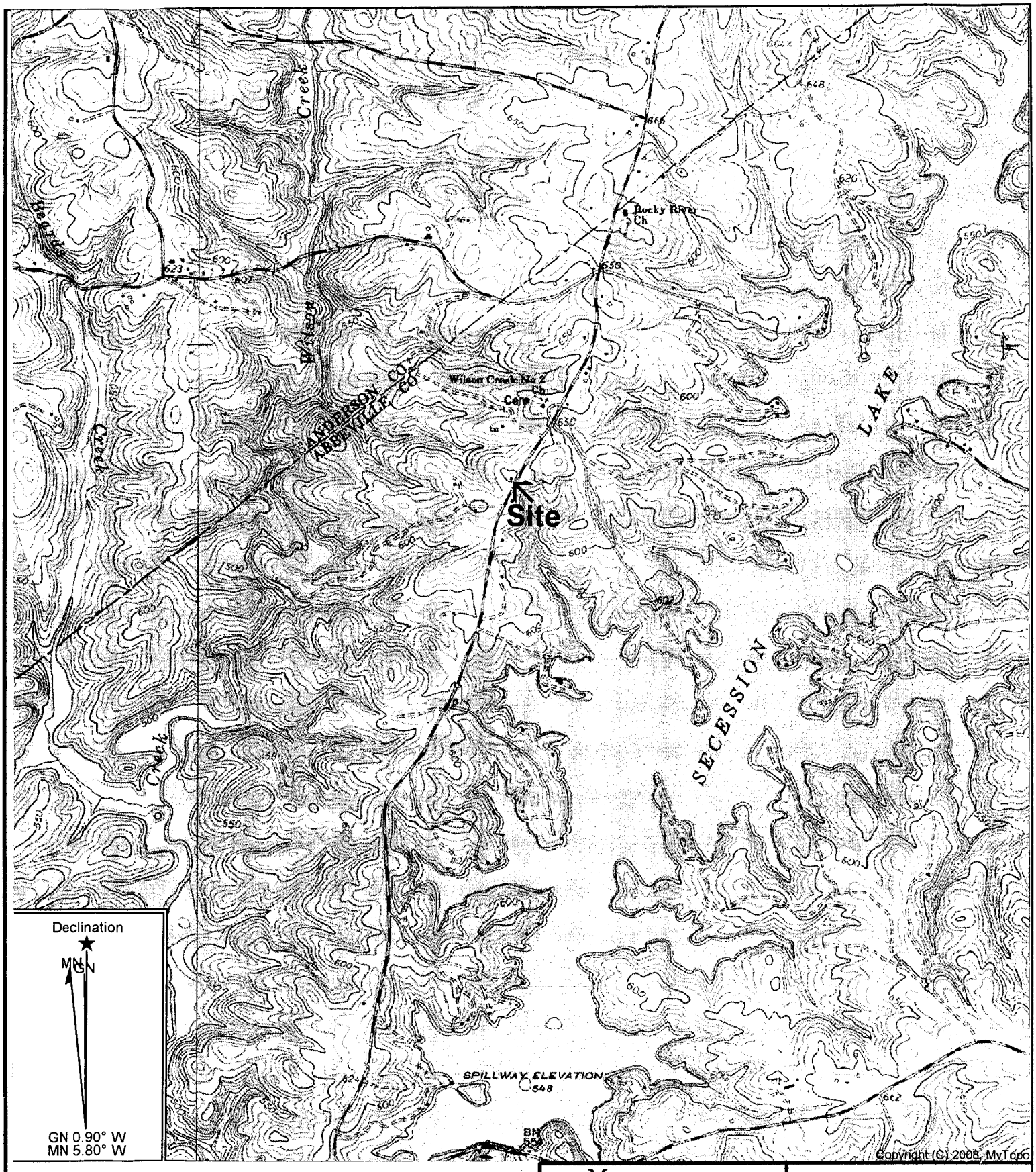
UST Permit #: 19440 **Cost Agreement #:** Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. **Plan***				
B. Tax Map		x	$50.00	$0.00
C. Tier II or Comp. Plan /QAPP Appendix B	1	x	$525.00	$525.00
2. **Receptor Survey ***		x	$500.00	$0.00
3. **Survey (500 x 500 feet)**				
A. Comprehensive Survey		x	$1,000.00	$0.00
B. Subsurface Geophysical Survey				
1. < 10 meters below grade		x	$2,750.00	$0.00
2. > 10 meters below grade		x	$3,250.00	$0.00
C. Geophysical UST or Drum Survey		x	$1,125.00	$0.00
4. **Mob/Demob (Each)**				
A. Equipment		x	$575.00	$0.00
B. Personnel	3	x	$290.00	$870.00
C. Adverse Terrain Vehicle to install wells		x	$575.00	$0.00
5. **Soil Borings (hand auger)* (Feet)**		feet x	$14.00	$0.00
6. **Soil Borings (drilled) & Field Screening ***				
Rate includes collection of water sample or soil sample, and lab or other analyses				
A. Standard		feet x	$17.00	$0.00
C. Fractured Rock		feet x	$27.50	$0.00
7. **Soil Leachability Model (Each)**		each x	$200.00	$0.00
8. **Abandonment* (per foot)**				
A. 2" diameter or less		feet x	$5.00	$0.00
B. Greater than 2" to 6" diameter		feet x	$5.50	$0.00
C. Dug/Bored well (up to 6 foot diameter)		feet x	$18.00	$0.00
9. **Well Installation* (per foot)**				
A. Water Table (hand augered)		feet x	$20.00	$0.00
B. Water Table (drill rig)		feet x	$38.00	$0.00
C. Telescoping/ Pit Cased		feet x	$58.00	$0.00
D. Rock Drilling		feet x	$58.00	$0.00
E. 2" Rock Coring		feet x	$45.00	$0.00
G. Rock Multi-sampling ports/screens		feet x	$47.20	$0.00
H. Recovery Well (4 inch diameter)		each x	$45.00	$0.00
I. Pushed Pre-packed screen (1.25 diameter)		each x	$18.50	$0.00
J. Rotosonic (2 inch diameter)		each x	$45.00	$0.00
10. **Groundwater Sample Collection / Gauge Depth to Water or Product (Each)**				
A. Groundwater Purge	26	wells x	$55.00	$1,430.00
B. Air or Vapors		samples x	$90.00	$0.00
C. Water Supply	5	samples x	$30.00	$150.00
D. Groundwater No Purge or Duplicate	2	samples x	$35.00	$70.00
E. Gauge Well only		per well x	$20.00	$0.00
F. Sample Below Product		wells x	$50.00	$0.00
G. Pasive Diffusion Bag		each x	$40.00	$0.00
H. Field Blank	1	each x	$5.00	$5.00

11. Laboratory Analyses-Groundwater (Each Sample)					
A1. BTEX+Naphth.+ Oxyg's+ 1,2 DCA + Ethanol	35	samples x	$100.00		$3,500.00
AA. Lead, Filtered		samples x	$46.00		$0.00
B1. Rush EPA Method 8260B (All of item A.)		samples x	$143.00		$0.00
C1. Trimethal, Butyl, and Isopropyl Benzenes		samples x	$40.00		$0.00
D. PAH's		samples x	$120.00		$0.00
E. Lead, Unfiltered		samples x	$20.00		$0.00
F. EDB by EPA 8011	34	samples x	$55.00		$1,870.00
FF. EDB by EPA Method 8011 Rush		samples x	$75.00		$0.00
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
P1. Ethanol		samples x	$21.50		$0.00
11. Analyses-Soil (Each Sample)					
Q. BTEX + Naphth.		samples x	$100.00		$0.00
R. PAH's		samples x	$120.00		$0.00
S. 8 RCRA Metals		samples x	$150.00		$0.00
T. Oil & Grease (9071)		samples x	$60.00		$0.00
U. TPH-DRO (3550B/8015B)		samples x	$65.00		$0.00
V. TPH- GRO (5030B/8015B)		samples x	$65.00		$0.00
W. Grain size/hydrometer		samples x	$99.00		$0.00
X. Total Organic Carbon		samples x	$35.00		$0.00
11. Analyses-Air (Each Sample)					
Y. BTEX + Naphthalene		samples x	$247.50		$0.00
11. Analyses-Free Phase Product (Each Sample)					
Z. Hydrocarbon Fuel Identification		samples x	$620.00		$0.00
12. Aquifer Characterization*					
A. Pumping Test		hours x	$120.00		$0.00
B. Slug Test*		tests x	$150.00		$0.00
C. Fractured Rock		tests x	$500.00		$0.00
13. Free Product Recovery Rate Test* (Each)		tests x	$120.00		$0.00
14. Fate/Transport Modeling					
A. Mathematical Model		each x	$300.00		$0.00
B. Computer Model		each x	$500.00		$0.00
15. Risk Evaluation					
A. Tier I Risk Evaluation		x	$300.00		$0.00
B. Tier II Risk Evaluation		x	$500.00		$0.00
16. Subsequent Survey*		x	$300.00		$0.00
17. Disposal* (gallons or tons)					
A. Wastewater	250	gallons x	$0.80		$200.00
B1. Free Product		gallons x	$0.85		$0.00
C. Soil Treatment/Disposal		tons x	$72.50		$0.00
D. Drilling fluids		gallons x	$0.80		$0.00
18. Miscellaneous (attach receipts)					
		x			$0.00
		x			$0.00
		x			$0.00
20. Tier I Assessment (Use DHEC 3665 form)		x			$0.00
21. IGWA (Use DHEC 3666 form)		x			$0.00
22. Corrective Action (Use DHEC 3667 form)		x			$0.00

23. **Aggressive Fluid & Vapor Recovery (AFVR)**					
A. 8-hour Event*		each x	$3,000.00		$0.00
B. AFVR per-hour Continuance		per hour x	$204.00		$0.00
C. Off-gas treatment per-hour Continuance		per hour x	$35.00		$0.00
24. **Granulated Activated Carbon (GAC) filter system installation & service:**					
A. New GAC System Installation*		each x	$2,500.00		$0.00
B1. Refurbished GAC Sys. Install*		each x	$1,180.00		$0.00
C. Filter replacement/removal*		each x	$450.00		$0.00
D1. GAC System removal, cleaning, & refurbishment*		each x	$720.00		$0.00
E. GAC System housing		each x	$450.00		$0.00
F. In-line particulate filter		each x	$150.00		$0.00
G. Additional piping & fittings		feet x	$4.00		$0.00
25. **Well Repair**					
A. Additional Copies of the Report Delivered		each x	$32.50		$0.00
B. Repair 2x2 MW pad		each x	$100.00		$0.00
C. Repair 4x4 MW pad		each x	$150.00		$0.00
D. Repair well vault		each x	$225.00		$0.00
F. Replace well cover bolts		each x	$10.00		$0.00
G. Replace locking well cap & lock		each x	$15.00		$0.00
H. Replace/Repair stick-up		each x	$137.50		$0.00
I. Convert Flush-mount to Stick-up		each x	$175.00		$0.00
J. Convert Stick-up to Flush-mount		each x	$125.00		$0.00
K. Replace missing/illegible well ID plate		each x	$22.50		$0.00
Report Prep & Project Management	15%	x	$8,620.00		$1,293.00
TOTAL					$9,913.00

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



GRAPHIC SCALE

0 1000 2000 4000

1IN = 2000FT

Reference: Antreville, South Carolina
Iva, South Carolina
Contour Interval–10 Feet
USGS 7.5 Min. Quad

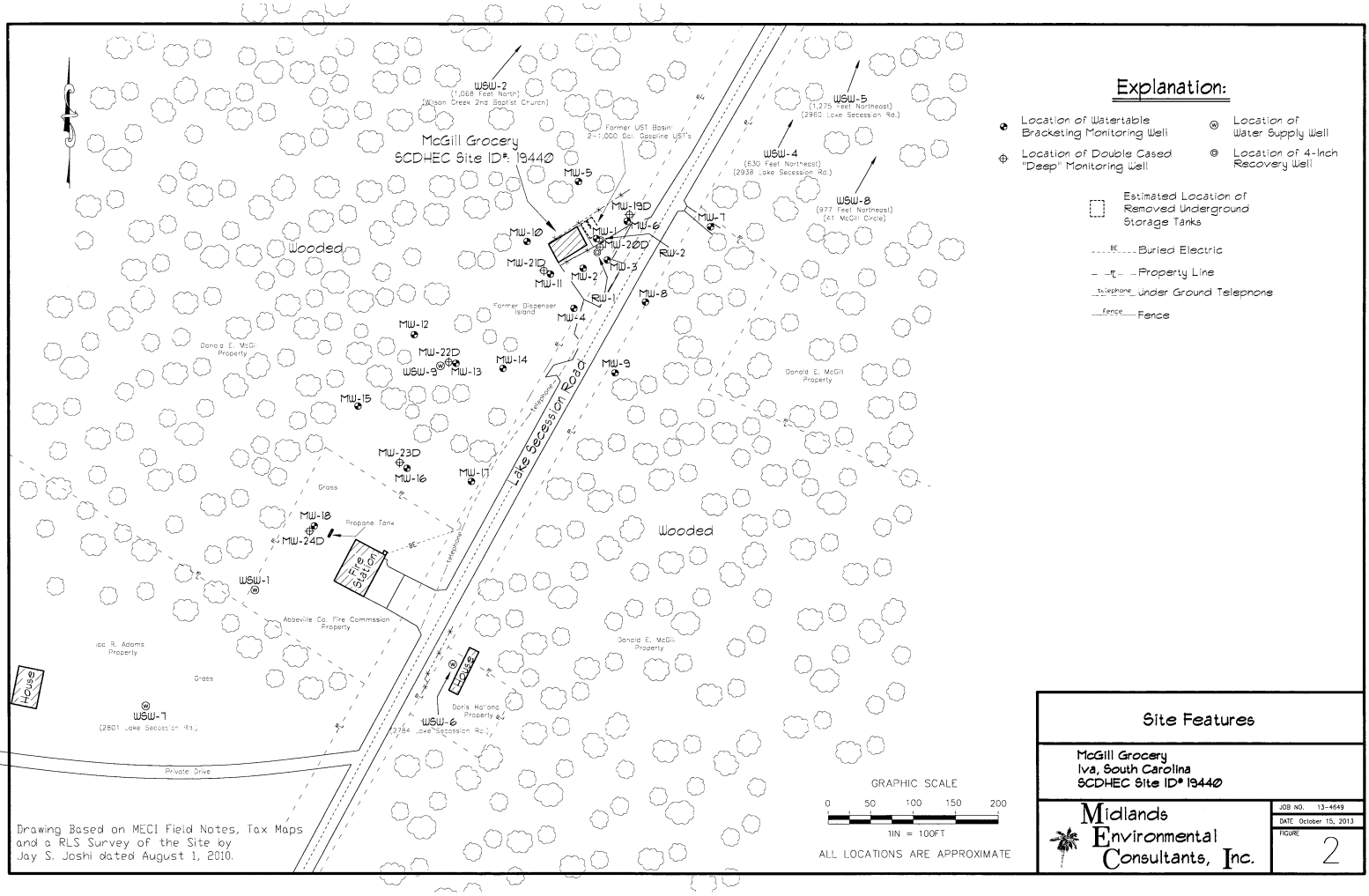
Midlands Environmental Consultants, Inc.

Site Location

McGill's Grocery
Lake Secession Road, Iva, SC
SCDHEC Site ID# 19440

Figure 1

MECI 11-3414



Site Features

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 13-4649
DATE October 15, 2013
FIGURE 2

CoC is shipped with the samples to the lab, and a copy is kept by MECI in the work folder.

4.3.5.2.A lab provided transport blank will be stored in each cooler for transport to the laboratory.

4.3.5.3.Samples will be transported to the laboratory by shipment with a lab provided courier or with a lab approved shipping company. If a courier is scheduled to visit the MECI offices the day following a sampling event, sampling coolers will be repacked with wet ice, and left at the office for pick-up. If no courier is scheduled to visit the MECI office the day following a sampling event, all sampling coolers are to be dropped off at the lab or at an approved shipping company for overnight delivery to the lab immediately following the sampling event.

4.3.6. Field Measurements and Instrument Calibration

4.3.6.1.Prior-to all sampling events equipment for field measurements should be calibrated. MECI utilizes YSI550A meters for DO (mg/L) and temperature readings (°C) and YSI63 meters for pH and conductivity (uS) readings. These meters are calibrated according to the manufacturers instructions (please see attached calibration instructions)

4.3.6.2.Calibration readings will be recorded on field notes, and should be within +/- 1°C for temperature, +/- 0.2 pH units of 7.00 buffer for pH and within 10% of 100 uS buffer for conductivity.

4.3.6.3.MECI utilizes a 60 cm calibrated turbidity tube for turbidity measurements. The tube is marked with a 60 cm tape that has been calibrated into Nephelometric Turbidity Units (NTU). Turbidity is measured by filling the Turbidity Tube with purge water. The water is drained from the bottom of the tube while the user looks towards the bottom of the tube. Once the Secchi disk pattern at the bottom of the tube is visible, the drain tube is closed, and a reading is taken according to the amount of purge water remaining in the tube.

4.3.6.4. Field Measurements are taken by fully submerging the probes from the YSI550A and YSI63 into water taken from the well. Readings are allowed to equilibrate, then the measurement is recorded.

4.3.6.5. Meters are to be stored in waterproof cases inside of the office when not in use, to prevent possible exposure damage.

4.4. Aquifer Characterization

Aquifer specific data will be collected using methods appropriate to the local geology of the facility. MECI will primarily utilize slug tests to obtain specific aquifer data. This data, combined with sieve analysis and hydrometer data will be utilized in aquifer calculations.

4.4.1. Slug Test

A normal characterization for a Tier II assessment will require slug tests on two watertable bracketing monitoring wells and one deep monitoring well. Other scopes of work will require a varying number of slug tests.

4.4.1.1. Slug tests will be completed utilizing prepackaged, clear, disposable polyethylene bailers, nylon rope, stop-watch and previously decontaminated electronic water level indicator.

4.4.1.2. Prior to starting the Slug test, a static groundwater measurement will be taken.

4.4.1.3. Water is removed from the well until the water level in the well has been reduced at least one foot.

4.4.1.4. The stopwatch is started as soon as the last bail of water is removed from the well.

4.4.1.5. The water level indicator is lowered into the well and groundwater elevation readings are taken at 15-second intervals for the first two minutes. This interval can be expanded as the test continues.

4.4.1.6. Water level measurements are taken until the water level in the well has returned to within 90 percent of the static level, or one hour has elapsed.

SHEALY

Chain of Custody Record

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Number

Client	Report to Contact	Sampler (Printed Name)	Quote No.
Address	Telephone No. / Fax No. / Email	Waybill No.	Page ___ of ___
City / State / Zip Code	Preservative: 1. Unpres. 4. HNO3 7. NaOH; 2. NaOH/ZnA 5. HCL; 3. H2SO4 6. Na Thio.		
Project Name			
Project Number	P.O Number		

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix: GW	DW	WW	S	Other	Analysis	Number of Containers	Bottle (See Instructions on back)	Preservative	Lot No.	Remarks / Cooler ID

Turn Around Time Required (Prior lab approval required for expedited TA)
☐ Standard ☐ Rush (Please Specify)

Sample Disposal
☐ Return to Client ☐ Disposal by Lab

QC Requirements (Specify)

Possible Hazard Identification
☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison ☐Unknown

	Date	Time		Date	Time
1. Relinquished by / Sampler			1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory Received by		

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Check) ☐ Yes ☐ No ☐ Ice Pack
Receipt Temp. _____ °C
Temp. Blank ☐ Y / ☐ N

D H E C

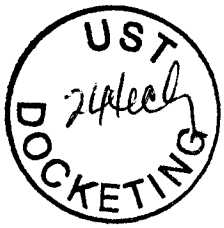
PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

MS DIANA MCMAHAN
ESTATE OF DONALD E MCGILL
PO BOX 41
IVA SC 29655

OCT 30 2013



Re: **Groundwater Sampling Directive**
McGill Grocery
Lake Secession Road, Iva, SC 29655
UST Permit # 19440, CA # 46904
Release Reported January 28, 2009
QAPP Contractor Addendum Received October 16, 2013
Abbeville County

Dear Ms. McMahan:

The Underground Storage Tank (UST) Management Division (Division) of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced addendum submitted on your behalf by Midlands Environmental Consultants, Inc. In order to evaluate the current site conditions, sampling of monitoring wells and nearby water supply wells is necessary. All work should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP), Revision 2.0, and must be conducted in compliance with all applicable regulations. A copy of the Agency's QAPP Rev. 2.0, for the UST Management Division is available at http://www.scdhec.gov/environment/lwm/usthome/Qapp.htm.

Activities at the site should begin immediately upon receipt of this letter. Cost agreement # 46904 has been approved for the amount shown on the enclosed cost agreement form for sampling of all monitoring wells and water supply wells WSW-1, WSW-4, WSW-6, WSW-7, and WSW-9. Samples should be analyzed for BTEX, Naphthalene, MTBE, Oxygenates, 1,2-DCA, Ethanol, and EDB. Analyses should be in accordance with Appendix E of the QAPP to include duplicate samples, field and trip blanks.

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

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

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

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

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

On all correspondence regarding this site, please reference UST Permit # 19440 and CA # 46904. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0607, by fax at (803) 898-0673, or by e-mail at ShullSS@dhec.sc.gov.

Sincerely,

Shane S. Shull, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement
Signed Site Specific QAPP Contractor Addendum

cc: Midlands Environmental Consultants, Inc., P.O. Box 854, Lexington, SC 29071 (w/ enc)
Technical File (w/ enc)

Section A: Project Management

A1 Title and Approval Page

Quality Assurance Project Plan
Addendum to the SC DHEC UST Programmatic QAPP
For
McGill Grocery, SCDHEC Site ID# 19440

Lake Secession Road, Iva, South Carolina

Prepared by:
Kyle V. Pudney
Staff Biologist
Midlands Environmental Consultants, Inc.
(Certified Site Rehabilitation Contractor UCC-0009)
235-B Dooley Road
Lexington, SC 29073
(803)808-2043

Date: October 15, 2013

Approvals

Shane S. Shull SC DHEC Project Manager	Signature	Date 10-25-13
Bryan T. Shane, P.G. Site Rehabilitation Contractor	Signature	Date 10-16-13
Jeff L. Coleman Contractor QA Manager	Signature	Date 10/16/13
Daniel J. Wright Laboratory Director	Signature	Date 10/15/2013

Approved Cost Agreement 46904

Facility: 19440 MCGILL GROCERY

SHULLSS

PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
01 PLAN					
		C TIER II/COMP. PLAN/QAPP APP B	1.0000	525.00	525.00
04 MOB/DEMOB					
		B PERSONNEL	3.0000	290.00	870.00
10 SAMPLE COLLECTION					
		A GROUND WATER	26.0000	55.00	1,430.00
		C WATER SUPPLY	5.0000	30.00	150.00
		D GROUNDWATER NO-PURGE	2.0000	35.00	70.00
		H FIELD BLANK	1.0000	5.00	5.00
11 ANALYSES	GW GROUNDWATER				
		A1 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	35.0000	100.00	3,500.00
		F EDB	34.0000	55.00	1,870.00
17 DISPOSAL					
		A WASTEWATER	250.0000	0.80	200.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PCT PERCENT	0.1500	8,620.00	1,293.00
			Total Amount		9,913.00

UST
DEC. 2 0 2013
DIVISION

REPORT OF GROUNDWATER SAMPLING AND CHEMICAL ANALYSES

UST
25
DOCKETING

McGill Grocery
Lake Secession Road
Iva, South Carolina
SCDHEC SITE ID 19440
CA # 46904

Prepared By:

Midlands
Environmental
Consultants, Inc.
235-D Dooley Road, Lexington, SC 29073
(803) 808-2043 fax: 808-2048

December 12, 2013

MECI Project No. 13-4649

Midlands Environmental Consultants, Inc.

December 13, 2013

Mr. Shane S. Shull, Hydrogeologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Report of Groundwater Sampling and Chemical Analyses
McGill Grocery
Lake Secession Road
Iva, South Carolina
SCDHEC Site ID# 19440, CA #46904
MECI Project Number 13-4649
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Shull,

On behalf of Mr. Diana McMahan, Representative for the Estate of Donald McGill, Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling and Chemical Analyses for the referenced site. This report describes assessment activities conducted at the site and results of those activities in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines, including adherence to the UST Division Programmatic Quality Assurance Program Plan (QAPP).

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Jeff L. Coleman
Senior Scientist

Bryan T. Shane, P.G.
Principal Geologist

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

TABLE OF CONTENTS

1.0 INTRODUCTION **1**

1.1 QAPP STATEMENT 1
1.2 PROJECT INFORMATION 2

2.0 SURROUNDING PROPERTY USAGE **2**

3.0 FIELD EXPLORATION **2**

3.1 MONITORING WELL SAMPLING AND CHEMICAL ANALYSES 3
3.2 WATER SUPPLY WELL SAMPLING AND CHEMICAL ANALYSES 5

4.0 AREA GEOLOGY AND HYDROGEOLOGY **5**

4.1 LOCAL SUBSURFACE CONDITIONS 6

5.0 TEST RESULTS AND EVALUATION **6**

5.1 GROUNDWATER ANALYTICAL RESULTS 6
5.2 WATER SUPPLY WELL ANALYTICAL RESULTS 7

6.0 ASSESSMENT SUMMARY & RECOMMENDATIONS **7**

7.0 QUALIFICATIONS OF REPORT **8**

TABLE OF CONTENTS (cont.)

TABLES:

**Table 1 – SOIL ANALYTICAL RESULTS
Table 2 – POTENTIOMETRIC DATA
Table 3 – GROUNDWATER COC CONCENTRATION DATA
Table 3A – GROUNDWATER COC CONCENTRATION DATA (OXYGENATES)
**Table 4 – AQUIFER CHARACTERISTICS
**Table 5 – SITE CONCEPTUAL MODEL

FIGURES:

Figure 1 – TOPOGRAPHIC MAP
Figure 2 – SITE BASE MAP
**Figure 3 – SOIL COC SITE MAP
Figure 4 – GROUNDWATER COC SITE MAP (TOTAL BTEX ISOPLETH)
Figure 4B – GROUNDWATER COC SITE MAP (MTBE ISOPLETH)
Figure 4C – GROUNDWATER COC SITE MAP (OXYGENATES DATA)
Figure 5 – POTENTIOMETRIC DATA SITE MAP (GROUNDWATER CONTOUR)
**Figure 6 – GEOLOGIC CROSS SECTIONS

**APPENDIX A – SITE SURVEY
APPENDIX B – SAMPLING LOGS, LABORATORY DATA SHEETS AND CHAIN OF CUSTODY FORMS
**APPENDIX C – TAX MAP DATA
**APPENDIX D – SOIL BORING/FIELD SCREENING LOGS & 1903 FORMS
**APPENDIX E – WELL LOGS & 1903 FORMS
**APPENDIX F – AQUIFER EVALUATION SUMMARY FORMS, DATA, GRAPHS, EQUATIONS
APPENDIX G – DISPOSAL MANIFESTS
**APPENDIX H – LOCAL ZONING REGULATIONS
**APPENDIX I – FATE & TRANSPORT MODELING
**APPENDIX J – ACCESS AGREEMENTS
APPENDIX K – DATA VERIFICATION CHECKLIST

NOTE: ITEMS LISTED WITH AN ** BESIDE IT WERE NOT NEEDED AS A PART OF THIS SCOPE OF WORK

1.0 INTRODUCTION

A. **Owner/Operator Information**

Facility Name:	McGill Grocery	UST Permit #:	19440
Facility Address:	Lake Secession Road, Iva, SC 29655		
Name:	Estate of Donald McGill		
Address:	P.O. Box 41, Iva, SC 29655		
Telephone #:	(706) 755-6700 (Ms. Diana McMahan)		

B. **Property Owner Information**

Name	Mr. Howard Burton
Tax Map #:	Abbeville Co. Tax Map#: 045-00-00-084
Address	1102 Jet Landing Road, Abbeville, SC 29620
Telephone #	(864) 446-7057 or (864) 933-5421

C. **Contractor Information**

Name:	Midlands Environmental Consultants, Inc.
Certification #:	9
Address:	P. O. Box 854, Lexington, SC 29071
Telephone #:	(803) 808-2043

D. **SCDHEC Certified Well Driller**

Name:	N/A
Driller:	N/A
Certification #:	N/A
Address:	N/A
Telephone #:	N/A

E. **SCDHEC Certified Laboratory**

Name:	Shealy Environmental Services, Inc.
Certification #:	32010
Address:	106 Vantage Point Drive, West Columbia, SC 29172
Telephone #:	(803) 791-9700

1.1 QAPP STATEMENT

This report conforms to the SCDHEC UST Management Division Programmatic QAPP. The Report, Tables (Table 1-Soil Analytical Data, Table 2-Field Parameters, Table 3-Groundwater Analytical Results, Table 4-Aquifer Characteristics, and Table 5-Site Conceptual Model), Figures (Figure 1-Topographic Map, Figure 2-Site Features, Figure 3-Soil CoC Site Map, Figure 4-Groundwater CoC Site Map, Figure 5-Groundwater Contour Map, and Figure 6-Geologic Cross Section), and Appendices are presented in accordance with formatting requirements set forth in section A9 of the UST Management Division Programmatic QAPP, Revision 1, June 2011. Some or all of the tables and figures in this report were not applicable to the scope of services presented, however have been included in order to conform to the SCDHEC UST Management Division Programmatic QAPP.

1.2 PROJECT INFORMATION

The subject site (McGill Grocery) is located near the intersection of Lake Secession Road and McGill Circle, Iva, Abbeville County, South Carolina (see Figure 1). The subject site consists of an approximately 18.05 acre parcel that is occupied by an abandoned gasoline service station, the remainder of the property is currently under development into a mobile home park. The subject site formerly maintained two 1,000-gallon gasoline underground storage tanks (UST'S). A release of petroleum product was reported on January 28, 2009.

MECI conducted an Initial Groundwater Assessment (IGWA) in May of 2009. This assessment included the installation of one monitoring well, collection of soil samples, and collection of groundwater samples. MECI conducted a Tier I Assessment in July of 2009. This assessment included the installation of three monitoring wells, collection of soil samples, collection of groundwater samples, and aquifer slug tests. During the Tier I Assessment groundwater samples were collected from six water supply wells (WSW-1, WSW-4, WSW-5, WSW-6, WSW-7, and WSW-8). Analytical results indicate petroleum impact to water supply wells WSW-1 and WSW-7. MTBE was detected in WSW-1 at 16.1 micrograms per liter on July 28, 2009, and 3.9J micrograms per liter on August 07, 2009. MTBE was detected in WSW-7 at 2.2J micrograms per liter on July 28, 2009 and August 07, 2009. MECI conducted a Tier II Assessment in July of 2010. This assessment included the installation of twenty monitoring wells, collection of ground water samples, and aquifer slug tests. During the Tier II Assessment groundwater samples were collected from eight water supply wells (WSW-1, WSW-2, and WSW-4 through WSW-9). Analytical results indicate petroleum impact to water supply wells WSW-1 WSW-7, and WSW-9. MTBE was detected in WSW-1 at 2.2 micrograms per liter on July 28, 2010. MTBE was detected in WSW-7 at 4.3 micrograms per liter on July 28, 2010. Toluene was detected in WSW-9 at 0.72J micrograms per liter on July 28, 2010.

Prior to commencement of the field activities described in this document, a QAPP Contractors Addendum was completed by MECI personnel, submitted to SCDHEC and approved by the SCDHEC project manager.

The above project information is based on MECI field notes and SCDHEC files.

2.0 SURROUNDING PROPERTY USAGE

The site is located outside the town limits of Iva, Abbeville County, South Carolina. The site is located on Lake Secession Road near the intersection of McGill Circle and Lake Secession Road. The properties immediately surrounding the site are residential and wooded parcels. Lake Secession Road borders the site to the east, beyond which are residential properties. To the south of the subject site is the McGill Volunteer Fire Department, beyond which is a residential property. To the north of the subject site is Wilson Creek Second Baptist Church, beyond which are residential properties. West of the subject site is wooded, beyond which is Wilson Creek.

3.0 FIELD EXPLORATION

Field exploration conducted at the site included:

- sampling of groundwater monitoring wells;
- sampling of several nearby water supply wells; and,

- chemical analyses of water samples.

3.1 MONITORING WELL SAMPLING AND CHEMICAL ANALYSES

On December 2, 2013, MECI personnel collected groundwater samples from twenty-five (25) monitoring wells at the subject site. One monitoring well (MW-8) was gauged and determined to be vacant of sufficient water for sampling purposes. At the request of SCDHEC personnel, all monitoring wells were purged prior to sample collection; however monitoring wells MW-4, MW-9, MW-10, MW-12, and MW-13 were unable to be purged prior to sample collection due to insufficient water. Twenty (20) monitoring wells were purged prior to sampling. Purging was completed by bailing three to five well volumes of water from the well, until pH, conductivity, dissolved oxygen, and turbidity stabilized to within 10%, or until all available water was evacuated from the well, whichever occurred first. Sampling and purging of all monitoring wells was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. Per SCDHEC instructions, all monitoring wells were to be purged prior to sample collection. A new set of nitrile gloves were worn at each monitoring well, and at all times samples were handled. Field measurements of turbidity, pH, conductivity, dissolved oxygen, and water temperature were obtained before the well sampling process. MECI utilized YSI550A meters for DO (mg/L) and temperature readings (°C), YSI63 meters for pH and conductivity (uS) readings, and HF Scientific MicroTPI/TPW Turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained during sampling processes. All wells were sampled in accordance with SCDHEC's Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP, Dated April 2013) and MECI's Standard Operating Procedures (MECI SOP, Dated February 2012). Groundwater samples obtained were sent to Shealy Environmental Services, Inc. of West Columbia, SC (SCDHEC Laboratory Certification #32010) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Monitoring Well	Purge	No Purge	Gauge Only	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	1,2 DCA (EPA Method 8260-B)	Ethanol (EPA Method 8260-B)	EDB (EPA Method 8011)	Total Lead (EPA Method 6010)	Filtered Lead (EPA Method 6010)	8 RCRA Metals (EPA Method 6010)	TPH (EPA Method 9071)	PAH's (EPA Method 8270)
				Analyte Sampled									
MW-1	X			X	X	X	X	X					
MW-2	X			X	X	X	X	X					
MW-3	X			X	X	X	X	X					
MW-4		X		X	X	X	X	X					
MW-5	X			X	X	X	X	X					

Notes: BTEX = benzene, toluene, ethylbenzene, & total xylenes MTBE=methyl tertiary butyl ether 1,2 DCA = 1,2 dicloroethane PAH = polycyclic aromatic hydrocarbons

**** = Indicates Field Duplicate**

Monitoring Well	Purge	No Purge	Gauge Only	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	1,2 DCA (EPA Method 8260-B)	Ethanol (EPA Method 8260-B)	EDB (EPA Method 8011)	Total Lead (EPA Method 6010)	Filtered Lead (EPA Method 6010)	8 RCRA Metals (EPA Method 6010)	TPH (EPA Method 9071)	PAH's (EPA Method 8270)
				Analyte Sampled									
MW-6	X			X	X	X	X	X					
MW-7	X			X	X	X	X	X					
MW-8			X										
MW-9		X		X	X	X	X						
MW-10		X		X	X	X	X						
MW-11	X			X	X	X	X	X					
MW-12		X		X	X	X	X	X					
MW-13		X		X	X	X	X	X					
MW-14	X			X	X	X	X	X					
MW-15	X			X	X	X	X	X					
MW-16	X			X	X	X	X	X					
MW-17	X			X	X	X	X	X					
MW-18	X			X	X	X	X	X					
MW-19D	X			X	X	X	X	X					
MW-20D	X			X	X	X	X	X					
MW-21D	X			X	X	X	X	X					
MW-22D	X			X	X	X	X	X					
MW-23D	X			X	X	X	X	X					
MW-24D	X			X	X	X	X	X					
RW-1	X			X	X	X	X	X					
RW-2	X			X	X	X	X	X					
MW-1 Dup**				X	X	X	X	X					
MW-11 Dup.**				X	X	X	X	X					
Field Blank				X	X	X	X	X					
Trip Blank				X	X	X	X	X					

Notes: BTEX = benzene, toluene, ethylbenzene, & total xylenes MTBE=methyl tertiary butyl ether 1,2 DCA = 1,2 dicloroethane PAH = polycyclic aromatic hydrocarbons

**** = Indicates Field Duplicate**

The results of the laboratory analyses are summarized in Table 3 & 3A and presented in Appendix B.

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 96.75 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is presented in Appendix G.

3.2 WATER SUPPLY WELL SAMPLING AND CHEMICAL ANALYSES

On December 2, 2013, MECI personnel sampled five water supply wells (WSW-4, WSW-6, WSW-7, WSW-9, and WSW-10). The following matrix contains well status, owner(s), and tax map identification numbers:

Water Supply Well Number	Well Owner	Abbeville County Tax Map Number:	Notes:	Well Status
WSW-1	Abbeville County Fire Commission	042-00-00-275	2797 Lake Secession Road	No Power
WSW-2	Wilson Creek Church	045-00-00-079	2955 Lake Secession Road	Active
WSW-4	Wallace D. Moore	045-00-00-080	2938 Lake Secession Road	Active
WSW-5	Marvin L. Crawley	045-00-00-278	2960 Lake Secession Road	Active
WSW-6	Doris Holland	045-00-00-083	2784 Lake Secession Road	Active
WSW-7	Ira R. Adams	045-00-00-085	2801 Lake Secession Road	Active
WSW-8	Marshall Marietta Bradford	045-00-00-276	41 McGill Circle	Active
WSW-9	Howard Burton	045-00-00-084	Lake Secession Road	Inactive/Bored Well
WSW-10	Howard Burton	045-00-00-084	Lake Secession Road	Inactive/Bored Well

The samples obtained were sent to Shealy Environmental Services, Inc. of West Columbia, SC (SCDHEC Laboratory Certification #32010) for analysis. The samples collected were analyzed for BTEX, Naphthalene, MTBE, 1,2 DCA, 8 Oxygentes (EPA Method 8260B) and EDB (EPA Method 8011). The results of the laboratory analyses are summarized in Table 3, Table 3A, and IN Appendix B.

4.0 AREA GEOLOGY AND HYDROGEOLOGY

The mean elevation of the property, as depicted on the local USGS quadrangle (Antreville and Iva, SC), appears to be approximately 650 feet above sea level. The site is located in the Piedmont Physiographic Province of South Carolina, an area underlain by ancient igneous and metamorphic rocks. The soils in this province are generally residual soils that are underlain by rock at highly varying depths.

The soils encountered in this area are the product of in-place weathering of rocks similar to the rocks underlying the site. In areas not altered by erosion or disturbed by the activities of man, the typical residual soil profile consists of near surface clayey soils and underlying sandy silt and sand. The boundary between soil and rock is gradational. A transitional zone termed "weathered rock" is normally found overlying the parent bedrock. This zone is typically the most transmissive zone for groundwater movement. Consequently, the topography of the bedrock surface is uneven, even over short horizontal distances. It is not unusual to find lenses and boulders of hard rock and zones of weathered rock within the soil mantle well above the general bedrock level.

Local precipitation is the source of practically all of the groundwater in Abbeville County. A portion of the precipitation infiltrates into the ground and moves under the influence of gravity to the surficial

aquifer. After the water has reached the surficial aquifer, the direction of movement is generally parallel to the hydraulic gradient. In the Piedmont Province, the slope of the surficial aquifer's surface under static conditions (no pumping interference) approximates the topography of an area. Thus, the movement of groundwater within the soil mantel is typically in the direction of the topographic slope. Local groundwater flow patterns may be affected by disturbed areas such as tank pits, utility trenches, building foundations, borings, wells, etc. Groundwater flow in fractured rock is often difficult to interpret due to the variability of fracture connectivity and orientation.

Locally, in the surficial aquifer, groundwater discharges into streams, lakes or springs where the groundwater table intersects lows occupied by these water bodies. The apparent direction (based on hydraulic gradient) of groundwater flow from the release is to the southwest toward, flowing toward an intermittent stream associated with Wilson Creek.

4.1 LOCAL SUBSURFACE CONDITIONS

Piedmont soils were encountered during drilling activities conducted at the site during the Tier II Assessment completed at the site in August of 2010. The soils encountered in our borings generally consisted of sandy silt, silty sand, silty clay, clayey silt, and Partially weathered rock was encountered during the construction of monitoring wells MW-6, MW-8, MW-9, MW-19D, MW-20D, MW-21D, MW-22D, MW-23D, and MW-24D.

On December 2, 2013, stabilized groundwater levels were measured in the surrounding monitoring wells. Depth to groundwater ranged from 40.40 to 59.79 feet below top of casing in the wells measured. The groundwater measurements are summarized in tabular form in Table 2 and on Figure 5. A groundwater contour map illustrating the groundwater flow direction at the site is also depicted on Figure 5. Groundwater levels may fluctuate several feet with seasonal and rainfall variations and with change in the water level of adjacent drainage features. Normally, the highest groundwater levels occur in late winter and spring. The lowest levels occur in late summer and fall.

5.0 TEST RESULTS AND EVALUATION

The following sections discuss groundwater test results for the subject site.

5.1 GROUNDWATER ANALYTICAL RESULTS

As discussed in section 3.1, groundwater samples obtained from the monitoring well network were analyzed for dissolved phase petroleum constituents. Free phase petroleum product was not detected during the subject groundwater sampling in any of the monitoring wells sampled. The analytical results indicate petroleum impact to the surficial aquifer with the highest dissolved concentrations of being detected in the area (MW-1) of the former UST basin located off the northern side of the onsite structure.

Analytical results indicate petroleum impact above Risk Based Screening Levels (RBSL's) to the "shallow" watertable bracketing zone of the surficial aquifer. The analytical results indicate dissolved Total BTEX concentrations ranged from levels below detection limits (BDL) to 136,000 micrograms per liter in MW-1. Dissolved Benzene concentrations range from levels below detection limits (BDL) to 5,500 micrograms per liter in RW-2. Dissolved Toluene concentrations range from levels below detection limits (BDL) to 100,000 micrograms per liter in MW-1. Dissolved Ethylbenzene concentrations range from levels below detection limits (BDL) to 4,200J micrograms per liter in RW-2. Dissolved Total Xylenes concentrations range from levels below detection limits

(BDL) to 29,000 micrograms per liter in MW-1. Dissolved Naphthalene concentrations range from levels below detection limits (BDL) to 130 micrograms per liter in RW-1. Dissolved MTBE concentrations range from levels below detection limits (BDL) to 22,000 micrograms per liter in RW-2. Dissolved EDB concentrations range from levels below detection limits (BDL) to 1.5 micrograms per liter in MW-1. Dissolved 1,2 DCA were detected at levels below detection limits in all groundwater samples analyzed.

Analytical results indicate petroleum impact above RBSL's to the "deep" zone of the saprolitic aquifer (Wells installed to top of competent bedrock). The analytical results indicate dissolved Total BTEX concentrations at 470 micrograms per liter and MTBE concentrations at 2,700 micrograms per liter in monitoring well MW-20D. In addition MTBE concentrations were detected above RBSL's in "deep" monitoring wells MW-21D and MW-22D. MTBE concentrations were detected at 50 micrograms per liter in MW-21D and at 330 micrograms per liter in MW-22D. All other petroleum constituents analyzed were reported at levels below detection limits.

5.2 WATER SUPPLY WELL ANALYTICAL RESULTS

Five water supply well samples were collected from water supply wells located near the subject site. Analytical results indicate MTBE concentrations at 29 micrograms per liter in water supply well WSW-7. Analytical results from WSW-4, WSW-6, WSW-9, and WSW-10, do not indicate petroleum impact. The results of the laboratory analyses are summarized in Table 3, Table 3A, and IN Appendix B.

6.0 ASSESSMENT SUMMARY & RECOMMENDATIONS

Groundwater elevation data for the December 2, 2013, gauging event was plotted, and points of equal elevation were interpolated between the monitoring wells. A groundwater contour map of the surficial aquifer was thus prepared and is presented on Figure 5. The apparent groundwater flow is to the southwest, towards an intermittent stream associated with the Wilson Creek.

Analytical results indicate petroleum impact above Risk Based Screening Levels (RBSL's) to the "shallow" watertable bracketing zone of the surficial aquifer. The analytical results indicate dissolved Total BTEX concentrations ranged from levels below detection limits (BDL) to 136,000 micrograms per liter in MW-1. Dissolved Benzene concentrations range from levels below detection limits (BDL) to 5,500 micrograms per liter in RW-2. Dissolved Toluene concentrations range from levels below detection limits (BDL) to 100,000 micrograms per liter in MW-1. Dissolved Ethylbenzene concentrations range from levels below detection limits (BDL) to 4,200J micrograms per liter in RW-2. Dissolved Total Xylenes concentrations range from levels below detection limits (BDL) to 29,000 micrograms per liter in MW-1. Dissolved Naphthalene concentrations range from levels below detection limits (BDL) to 130 micrograms per liter in RW-1. Dissolved MTBE concentrations range from levels below detection limits (BDL) to 22,000 micrograms per liter in RW-2. Dissolved EDB concentrations range from levels below detection limits (BDL) to 1.5 micrograms per liter in MW-1. Dissolved 1,2 DCA were detected at levels below detection limits in all groundwater samples analyzed.

Analytical results indicate petroleum impact above RBSL's to the "deep" zone of the saprolitic aquifer (Wells installed to top of competent bedrock). The analytical results indicate dissolved Total BTEX concentrations at 470 micrograms per liter and MTBE concentrations at 2,700 micrograms per liter in monitoring well MW-20D. In addition MTBE concentrations were detected above RBSL's in

"deep" monitoring wells MW-21D and MW-22D. MTBE concentrations were detected at 50 micrograms per liter in MW-21D and at 330 micrograms per liter in MW-22D. All other petroleum constituents analyzed were reported at levels below detection limits.

Analytical results indicate MTBE concentrations at 29 micrograms per liter in water supply well WSW-7. Analytical results from WSW-4, WSW-6, WSW-9, and WSW-10, do not indicate petroleum impact.

Analytical data is presented on Table 3 & 3A and in the attached Appendix B. Figure 4 depicts graphically the concentrations of Total BTEX (indicator for plume migration) dissolved in the groundwater at the site. Figure 4A depicts graphically the concentrations of MTBE dissolved in the groundwater at the site. Figure 4C presents the analytical results for the eight Oxygenates.

Based on the current analytical results, the contaminant plume appears defined down gradient of the source area in relation to risk based screening levels (RBSL's). In addition, the contaminant plume appears to be defined vertically and no migration has appeared to have taken place. Since the February 23, 2011 groundwater sampling event, analytical results generally remained constant, with the exception of increased MTBE concentration detected in WSW-7. Though the MTBE concentrations are below RBSL's, MECI feels that additional sampling should be conducted to closely monitor the potential impact to WSW-7. MECI recommends an extended Aggressive Fluid Vapor Recovery (AFVR) Event be conducted on MW-1, MW-4, MW-11, RW-1, and RW-2 to reduce dissolved CoC concentrations. Following the recommended AFVR events, a comprehensive groundwater sampling event should be conducted to determine the effectiveness of the proposed AFVR and to obtain current analytical data.

7.0 QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. The general subsurface conditions utilized in our evaluation have been based on interpretation of subsurface data between borings. Contents of this report are intended for the sole use of the Estate of Donald McGill, MECI, and SCDHEC under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

-oOo-

TABLES

TABLE 2
PAGE 1 OF 2
POTENTIOMETRIC DATA
DECEMBER 02, 2013 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 13-4649
SCDHEC SITE ID NUMBER 19440

Well Number	Sample Date	Screened Interval (ft BGS)	Depth to Water (ft)	Well-head Elevation	Groundwater Elevation
MW-1	05/05/09	40-50	45.19	96.57	51.38
	08/07/09	-	44.72	96.57	51.85
	07/28/10	-	40.79	96.57	55.78
	02/23/11	-	43.58	96.57	52.99
	12/02/13	-	45.83	96.57	50.74
MW-2	07/31/09	41-51	45.48	96.95	51.47
	07/28/10	-	41.60	96.95	55.35
	02/23/11	-	44.21	96.95	52.74
	12/02/13	-	46.65	96.95	50.30
MW-3	07/31/09	41-51	45.20	96.97	51.77
	07/28/10	-	41.31	96.97	55.66
	02/23/11	-	43.83	96.97	53.14
	12/02/13	-	46.25	96.97	50.72
MW-4	07/31/09	42-52	49.30	99.71	50.41
	07/28/10	-	45.36	99.71	54.35
	02/23/11	-	47.83	99.71	51.88
	12/02/13	-	50.54	99.71	49.17
MW-5	07/28/10	35-45	36.61	92.47	55.86
	02/23/11	-	39.68	92.47	52.79
	12/02/13	-	41.87	92.47	50.60
MW-6	07/28/10	43-53	40.28	96.10	55.82
	02/23/11	-	43.03	96.10	53.07
	12/02/13	-	45.39	96.10	50.71
MW-7	07/28/10	40-50	41.43	97.67	56.24
	02/23/11	-	44.04	97.67	53.63
	12/02/13	-	47.13	97.67	50.54
MW-8	07/28/10	39-49	45.68	100.64	54.96
	02/23/11	-	47.64	100.64	53.00
	12/02/13	-	DRY	100.64	DRY
MW-9	07/28/10	41-51	43.85	98.25	54.40
	02/23/11	-	46.13	98.25	52.12
	12/02/13	-	50.13	98.25	48.12
MW-10	07/28/10	40-50	42.96	95.10	52.14
	02/23/11	-	46.22	95.10	48.88
	12/02/13	-	48.76	95.10	46.34
MW-11	07/28/10	40-50	43.05	97.68	54.63
	02/23/11	-	45.94	97.68	51.74
	12/02/13	-	48.17	97.68	49.51

Notes:

1. Final Groundwater depths measured 12/02/2013.
2. Site datum based on assumed spot elevation.
3. Groundwater depths were measured from the top of PVC riser pipe.
4. DRY = Monitoring well gauged dry.

TABLE 2
PAGE 2 OF 2
POTENTIOMETRIC DATA
DECEMBER 02, 2013 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 13-4649
SCDHEC SITE ID NUMBER 19440

Well Number	Sample Date	Screened Interval (ft BGS)	Depth to Water (ft)	Well-head Elevation	Groundwater Elevation
MW-12	07/28/10	50-60	54.18	103.93	49.75
	02/23/11	-	57.05	103.93	46.88
	12/02/13	-	58.85	103.93	45.08
MW-13	07/28/10	50-60	54.21	104.88	50.67
	02/23/11	-	57.16	104.88	47.72
	12/02/13	-	59.00	104.88	45.88
MW-14	07/28/10	49-59	51.60	102.93	51.33
	02/23/11	-	54.39	102.93	48.54
	12/02/13	-	56.55	102.93	46.38
MW-15	07/28/10	45-55	47.85	98.20	50.35
	02/23/11	-	50.50	98.20	47.70
	12/02/13	-	52.45	98.20	45.75
MW-16	07/28/10	45-55	46.16	97.51	51.35
	02/23/11	-	48.76	97.51	48.75
	12/02/13	-	50.77	97.51	46.74
MW-17	07/28/10	45-55	46.65	98.62	51.97
	02/23/11	-	49.29	98.62	49.33
	12/02/13	-	51.45	98.62	47.17
MW-18	07/28/10	35-45	35.99	87.20	51.21
	02/23/11	-	38.47	87.20	48.73
	12/02/13	-	40.40	87.20	46.80
MW-19D	07/28/10	65-70	45.86	96.43	50.57
	02/23/11	-	43.65	96.43	52.78
	12/02/13	-	45.90	96.43	50.53
MW-20D	07/28/10	65-67	58.49	97.23	38.74
	02/23/11	-	44.32	97.23	52.91
	12/02/13	-	45.83	97.23	51.40
MW-21D	07/28/10	78-83	63.49	97.64	34.15
	02/23/11	-	46.00	97.64	51.64
	12/02/13	-	48.11	97.64	49.53
MW-22D	07/28/10	95-100	55.09	104.95	49.86
	02/23/11	-	58.09	104.95	46.86
	12/02/13	-	59.79	104.95	45.16
MW-23D	07/28/10	95-100	47.28	97.83	50.55
	02/23/11	-	50.00	97.83	47.83
	12/02/13	-	51.83	97.83	46.00
MW-24D	07/28/10	70-75	36.54	87.38	50.84
	02/23/11	-	39.06	87.38	48.32
	12/02/13	-	41.85	87.38	45.53
RW-1	12/02/13	30-50	46.23	96.57	50.34
RW-2	12/02/13	30-50	46.46	96.90	50.44

Notes:

1. Final Groundwater depths measured 12/02/2013.
2. Site datum based on assumed spot elevation.
3. Groundwater depths were measured from the top of PVC riser pipe.
4. DRY = Monitoring well gauged dry.

TABLE 3
PAGE 1 OF 3
GROUNDWATER COC CONCENTRATION DATA
DECEMBER 02, 2013 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 13-4649
SCDHEC ID NUMBER 19440

Well Number	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Total BTEX (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)	1,2 DCA (µg/l)	EDB (µg/l)	Total Lead (µg/l)	Methane (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-1	05/05/09	7,780	98,500	3,910	24,100	134,290	59,700	<500	<500	1.7	<5.0	NT	NT	NT
	07/31/09	8,630	96,400	3,980	24,900	133,910	33,700	<1,000	NT	2.0	NT	NT	NT	NT
	07/28/10	6,300	117,000	3,740	29,000	156,040	2,040	241	<50.0	1.9	6.2	NT	NT	NT
	02/23/11	6,810	105,000	3,640J	24,900	140,350J	4,230J	<5,000	<5,000	1.9	<5.0	NT	NT	NT
	12/02/13	3,300	100,000	3,700	29,000	136,000	800J	<2,500	<2,500	1.5	NT	NT	NT	NT
MW-2	07/31/09	854	1,430	335J	3,470	6,089J	7,090	145	<5.0	0.039	6.6	<10.0	<0.10	4.5
	07/28/10	3,170	44,900	1,850	13,700	63,620	32,700	253	<25.0	0.29	<5.0	NT	NT	NT
	02/23/11	312	3,840	140J	1,170	5,462J	4,520	<200	<200	<0.020	<5.0	NT	NT	NT
	12/02/13	2.3J	<50	<50	<50	2.3J	3,000	<50	<50	<0.020	NT	NT	NT	NT
MW-3	07/31/09	2,680	20,100	362J	8,110	31,252J	24,400	145	<5.0	0.10	5.8	<10.0	<0.10	2.6
	07/28/10	1,540	20,000	1,350	11,700	34,590	14,600	424	<5.0	0.072	<5.0	NT	NT	NT
	02/23/11	<125	<125	61.8J	<250	61.8J	2,220	55.0J	<125	<0.020	<5.0	NT	NT	NT
	12/02/13	<25	<25	<25	<25	BDL	890	<25	<25	<0.019	NT	NT	NT	NT
MW-4	07/31/09	956	4,440	174	1,860	7,430	6,130	24.9	<5.0	<0.019	<5.0	<10.0	<0.10	7.4
	07/28/10	801	1,510	164J	1,510	3,985J	7,700	<250	<250	<0.019	<5.0	NT	NT	NT
	02/23/11	367	164J	119J	631	1,281J	8,370	<250	<250	<0.020	<5.0	NT	NT	NT
	12/02/13	<500	<500	<500	<500	BDL	15,000	<500	<500	<0.019	NT	NT	NT	NT
MW-5	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	39.4	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	8.7	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020	NT	NT	NT	NT
MW-6	07/28/10	<5.0	3.5J	<5.0	3.2J	6.7J	23.8	3.9J	<5.0	<0.020	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	54.1	<5.0	<5.0	<0.020	7.9	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	20	<5.0	<5.0	<0.020	NT	NT	NT	NT
MW-7	07/28/10	<5.0	2.2J	<5.0	<10.0	2.2J	<5.0	3.1J	<5.0	<0.019	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	6.4	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020	NT	NT	NT	NT
MW-8	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	5.4	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	12/02/13	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-9	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	7.9	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	NT	NT	NT	NT	NT
MW-10	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	8.0	<5.0	<5.0	<0.025	23.2	NT	NT	NT
	02/23/11	2.1J	1.6J	<5.0	3.4J	7.1J	62.7	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	73	<5.0	<5.0	NT	NT	NT	NT	NT

Notes:

1. BDL = Below Practical Quantitative Limits
2. µg/l = micrograms per liter
3. mg/l = milligrams per liter
4. MTBE = Methyl-Tertiary-Butyl Ether
5. See Appendix for Laboratory Detection Limits
6. NT = Not Tested.
7. EDB = Ethylene Dibromide
8. 1,2 DCA = 1,2-Dichloroethane
9. "J" Values used in Total BTEX Calculations
10. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).
11. DRY = Monitoring well gauged dry

TABLE 3
PAGE 2 OF 3
GROUNDWATER COC CONCENTRATION DATA
DECEMBER 02, 2013 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 13-4649
SCDHEC ID NUMBER 19440

Well Number	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Total BTEX (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)	1,2 DCA (µg/l)	EDB (µg/l)	Total Lead (µg/l)	Methane (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-11	07/28/10	**997**	**8,120**	**340**	**2,480**	**11,937**	**18,600**	**43.6**	<25.0	**0.31**	<5.0	NT	NT	NT
	02/23/11	**954**	**5,400**	**312J**	**2,660**	**9,326J**	**22,800**	<500	<500	<0.019	<5.0	NT	NT	NT
	12/02/13	**650**	<100	**380**	**520**	**1,550**	**11,000**	**46J**	<100	<0.022	NT	NT	NT	NT
MW-12	07/28/10	<5.0	**2.1J**	<5.0	<10.0	**2.1J**	**3.6J**	**3.1J**	<5.0	<0.020	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	<5.0	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019	NT	NT	NT	NT
MW-13	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	<5.0	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019	NT	NT	NT	NT
MW-14	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	**4.1J**	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	<5.0	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.021	NT	NT	NT	NT
MW-15	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	**4.1J**	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020	NT	NT	NT	NT
MW-16	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	**17.6**	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020	NT	NT	NT	NT
MW-17	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	**47.2**	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020	NT	NT	NT	NT
MW-18	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	**14.3**	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.021	NT	NT	NT	NT
MW-19D	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	<5.0	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019	NT	NT	NT	NT
MW-20D	07/28/10	**230**	**573**	**57.2**	**379**	**1,239.2**	**3,720**	**11.2**	<5.0	**0.055**	<5.0	NT	NT	NT
	02/23/11	**214**	**359**	<125	**297**	**870**	**2,780**	<125	<125	<0.019	<5.0	NT	NT	NT
	12/02/13	**130**	**170**	<50	**170**	**470**	**2,700**	<50	<50	<0.019	NT	NT	NT	NT
MW-21D	07/28/10	**3.6J**	**4.2J**	**1.3J**	**8.3J**	**17.4J**	**128**	<5.0	<5.0	<0.019	**109**	NT	NT	NT
	02/23/11	**2.1J**	**1.7J**	<5.0	**3.7J**	**7.5J**	**62.9**	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	12/02/13	**0.79J**	<5.0	<5.0	<5.0	**0.79J**	**50**	<5.0	<5.0	<0.019	NT	NT	NT	NT
MW-22D	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	**33.1**	**3.1J**	<5.0	<0.020	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	**282**	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	12/02/13	**3.2J**	<25	<25	<25	**3.2J**	**330**	<25	<25	<0.020	NT	NT	NT	NT

Notes:

1. BDL = Below Practical Quantitative Limits
2. µg/l = micrograms per liter
3. mg/l = milligrams per liter
4. MTBE = Methyl-Tertiary-Butyl Ether
5. See Appendix for Laboratory Detection Limits
6. NT = Not Tested.
7. EDB = Ethylene Dibromide
8. 1,2 DCA = 1,2-Dichloroethane
9. "J" Values used in Total BTEX Calculations
10. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).
11. DRY = Monitoring well gauged dry

TABLE 3
PAGE 3 OF 3
GROUNDWATER COC CONCENTRATION DATA
DECEMBER 02, 2013 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 13-4649
SCDHEC ID NUMBER 19440

Well Number	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Total BTEX (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)	1,2 DCA (µg/l)	EDB (µg/l)	Total Lead (µg/l)	Methane (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-23D	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.021	**10.5**	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020	NT	NT	NT	NT
MW-24D	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	**20.4**	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019	NT	NT	NT	NT
RW-1	12/02/13	**56J**	**270**	**480**	**260**	**1,066J**	**460**	**130**	<100	<0.019	NT	NT	NT	NT
RW-2	12/02/13	**5,500**	**87,000**	**4,200J**	**22,000**	**118,700J**	**21,000**	<5,000	<5,000	**0.30**	NT	NT	NT	NT
WSW-1	07/28/09	<5.0	<5.0	<5.0	<10.0	BDL	**16.1**	<5.0	NT	NT	NT	NT	NT	NT
	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	**3.9J**	<5.0	NT	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	**2.2**	<1.0	NT	<0.019	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019	NT	NT	NT	NT
	12/02/13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
WSW-2	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019	NT	NT	NT	NT
	12/02/13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
WSW-4	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT
	12/02/13	<1.0	<1.0	<1.0	<1.0	BDL	<1.0	<1.0	<1.0	<0.019	NT	NT	NT	NT
WSW-5	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019	NT	NT	NT	NT
	12/02/13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
WSW-6	07/28/09	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	NT	NT	NT	NT	NT
	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019	NT	NT	NT	NT
	12/02/13	<1.0	<1.0	<1.0	<1.0	BDL	<1.0	<1.0	<1.0	<0.019	NT	NT	NT	NT
WSW-7	07/28/09	<5.0	<5.0	<5.0	<10.0	BDL	**2.2J**	<5.0	NT	NT	NT	NT	NT	NT
	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	**2.2J**	<5.0	NT	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	**4.3**	<1.0	NT	<0.019	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	**3.1J**	<5.0	NT	<0.020	NT	NT	NT	NT
	12/02/13	<1.0	<1.0	<1.0	<1.0	BDL	**29**	<1.0	<1.0	<0.019	NT	NT	NT	NT
WSW-8	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019	NT	NT	NT	NT
	12/02/13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
WSW-9	07/28/10	<1.0	**0.72J**	<1.0	<3.0	**0.72J**	<1.0	<1.0	NT	<0.019	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT
	12/02/13	<1.0	<1.0	<1.0	<1.0	BDL	<1.0	<1.0	<1.0	<0.019	NT	NT	NT	NT
WSW-10	12/02/13	<1.0	<1.0	<1.0	<1.0	BDL	<1.0	<1.0	<1.0	<0.019	NT	NT	NT	NT
MW-1 Duplicate	12/02/13	**3,300J**	**100,000**	**3,700J**	**28,000**	**135,000J**	**740J**	<5,000	<5,000	**1.2**	NT	NT	NT	NT
MW-11 Duplicate	12/02/13	**780**	<500	**460J**	**710**	**1,950J**	**11,000**	<500	<500	<0.022	NT	NT	NT	NT
Field Blank	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019	NT	NT	NT	NT
Trip Blank	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	NT	NT	NT	NT	NT

Notes:

1. BDL = Below Practical Quantitative Limits
2. µg/l = micrograms per liter
3. mg/l = milligrams per liter
4. MTBE = Methyl-Tertiary-Butyl Ether
5. See Appendix for Laboratory Detection Limits
6. NT = Not Tested.
7. EDB = Ethylene Dibromide
8. 1,2 DCA = 1,2-Dichloroethane
9. "J" Values used in Total BTEX Calculations
10. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).
11. DRY = Monitoring well gauged dry

TABLE 3A
PAGE 1 OF 3
GROUNDWATER COC CONCENTRATION DATA (OXYGENATES)
DECEMBER 02, 2013 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 13-4649
SCDHEC SITE ID NUMBER 19440

Well Number	Sample Date	tert-Amyl alcohol (µg/l)	tert-Amyl methyl ether (µg/l)	tert-Butyl Formate (µg/l)	Diisopropyl ether (µg/l)	3,3-Dimethyl-1-butanol (µg/l)	Ethanol (µg/l)	Ethyl tert-butyl ether (µg/l)	tert Butyl Alcohol (µg/l)
MW-1	05/05/09	NT	NT	NT	NT	NT	NT	NT	NT
	07/31/09	NT	NT	NT	NT	NT	NT	NT	NT
	07/28/10	**1,980**	**1,310**	<500	**14,900**	<1,000	<2,000	<100	<1,000
	02/23/11	<100,000	<10,000	<50,000	**17,000**	<100,000	<200,000	<10,000	<100,000
	12/02/13	<50,000	**850J**	<50,000	**6,100**	<50,000	<500,000	<50,000	<50,000
MW-2	07/31/09	**23,500**	**145**	<50.0	**3,830**	<100	<200	<10.0	<100
	07/28/10	**6,480**	**928**	<250	**19,300**	<500	<1,000	<50.0	<500
	02/23/11	<4,000	<400	<2,000	**2,270**	<4,000	<8,000	<400	<4,000
	12/02/13	**500J**	**130**	<1,000	**2,700**	<1,000	<10,000	<1,000	**230J**
MW-3	07/31/09	**16,800J**	**295**	<50.0	**11,600**	<100	<200	<10.0	<100
	07/28/10	**5,410**	**221**	<50.0	**6,810**	<100	<200	<10.0	<100
	02/23/11	<2,500	<250	<1,250	**1,040**	<2,500	<5,000	<250	<2,500
	12/02/13	**74J**	**14J**	<500	**430**	<500	<5,000	<500	**1,700**
MW-4	07/31/09	**7,330**	**70.3**	<50.0	**3,140**	<100	<200	<10.0	<100
	07/28/10	**13,900**	<500	<2,500	**4,880**	<5,000	<10,000	<500	<5,000
	02/23/11	**5,710**	<500	<2,500	**4,220**	<5,000	<10,000	<500	<5,000
	12/02/13	**2,000J**	**180J**	<10,000	**6,600**	<10,000	<100,000	<10,000	<10,000
MW-5	07/28/10	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	02/23/11	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	12/02/13	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-6	07/28/10	<100	<10.0	<50.0	**57.7**	<100	<200	<10.0	<100
	02/23/11	<100	<10.0	<50.0	**98.2**	<100	**255**	<10.0	<100
	12/02/13	<100	<10	<100	**32**	<100	<1,000	<100	<100
MW-7	07/28/10	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	02/23/11	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	12/02/13	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-8	07/28/10	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	02/23/11	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	12/02/13	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-9	07/28/10	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	02/23/11	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	12/02/13	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-10	07/28/10	<100	<10.0	<50.0	**12.8**	<100	<200	<10.0	<100
	02/23/11	<100	<10.0	<50.0	**46.5**	<100	<200	<10.0	<100
	12/02/13	<100	**0.54J**	<100	**8.7J**	<100	<1,000	<100	<100
MW-11	07/28/10	**3,990**	**237**	<250	**7,840**	<500	<1,000	<50.0	<500
	02/23/11	<10,000	**379J**	<5,000	**8,560**	<10,000	<20,000	<1,000	<10,000
	12/02/13	**960J**	**320**	**39J**	**6,200**	<2,000	<20,000	<2,000	**1,000J**

Notes:
1. µg/l = micrograms per liter
2. NT = Not Tested
3. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).
4. DRY = Monitoring well gauged dry

TABLE 3A
PAGE 2 OF 3
GROUNDWATER COC CONCENTRATION DATA (OXYGENATES)
DECEMBER 02, 2013 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 13-4649
SCDHEC SITE ID NUMBER 19440

Well Number	Sample Date	tert-Amyl alcohol (µg/l)	tert-Amyl methyl ether (µg/l)	tert-Butyl Formate (µg/l)	Diisopropyl ether (µg/l)	3,3-Dimethyl-1-butanol (µg/l)	Ethanol (µg/l)	Ethyl tert-butyl ether (µg/l)	tert Butyl Alcohol (µg/l)
MW-12	07/28/10	**201**	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	02/23/11	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	12/02/13	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-13	07/28/10	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	02/23/11	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	12/02/13	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-14	07/28/10	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	02/23/11	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	12/02/13	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-15	07/28/10	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	02/23/11	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	12/02/13	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-16	07/28/10	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	02/23/11	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	12/02/13	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-17	07/28/10	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	02/23/11	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	12/02/13	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-18	07/28/10	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	02/23/11	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	12/02/13	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-19D	07/28/10	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	02/23/11	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	12/02/13	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-20D	07/28/10	**1,490**	**77.7**	<50.0	**1,720**	<100	<200	<10.0	<100
	02/23/11	<2,500	<250	<1,250	**1,300**	<2,500	<5,000	<250	<2,500
	12/02/13	**490J**	**52J**	<1,000	**1,400**	<1,000	<10,000	<1,000	**130J**
MW-21D	07/28/10	<100	<10.0	<50.0	**98.5**	<100	<200	<10.0	<100
	02/23/11	<100	<10.0	<50.0	**45.5**	<100	<200	<10.0	<100
	12/02/13	<100	**0.67J**	<100	**38**	<100	<1,000	<100	<100
MW-22D	07/28/10	<100	<10.0	<50.0	**19.1**	<100	<200	<10.0	<100
	02/23/11	<100	<10.0	<50.0	**147**	<100	<200	<10.0	<100
	12/02/13	<500	**2.7J**	<500	**150**	<500	<5,000	<500	<500
MW-23D	07/28/10	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	02/23/11	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	12/02/13	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-24D	07/28/10	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	02/23/11	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	12/02/13	<100	**1.3J**	<100	<10	<100	<1,000	<100	<100

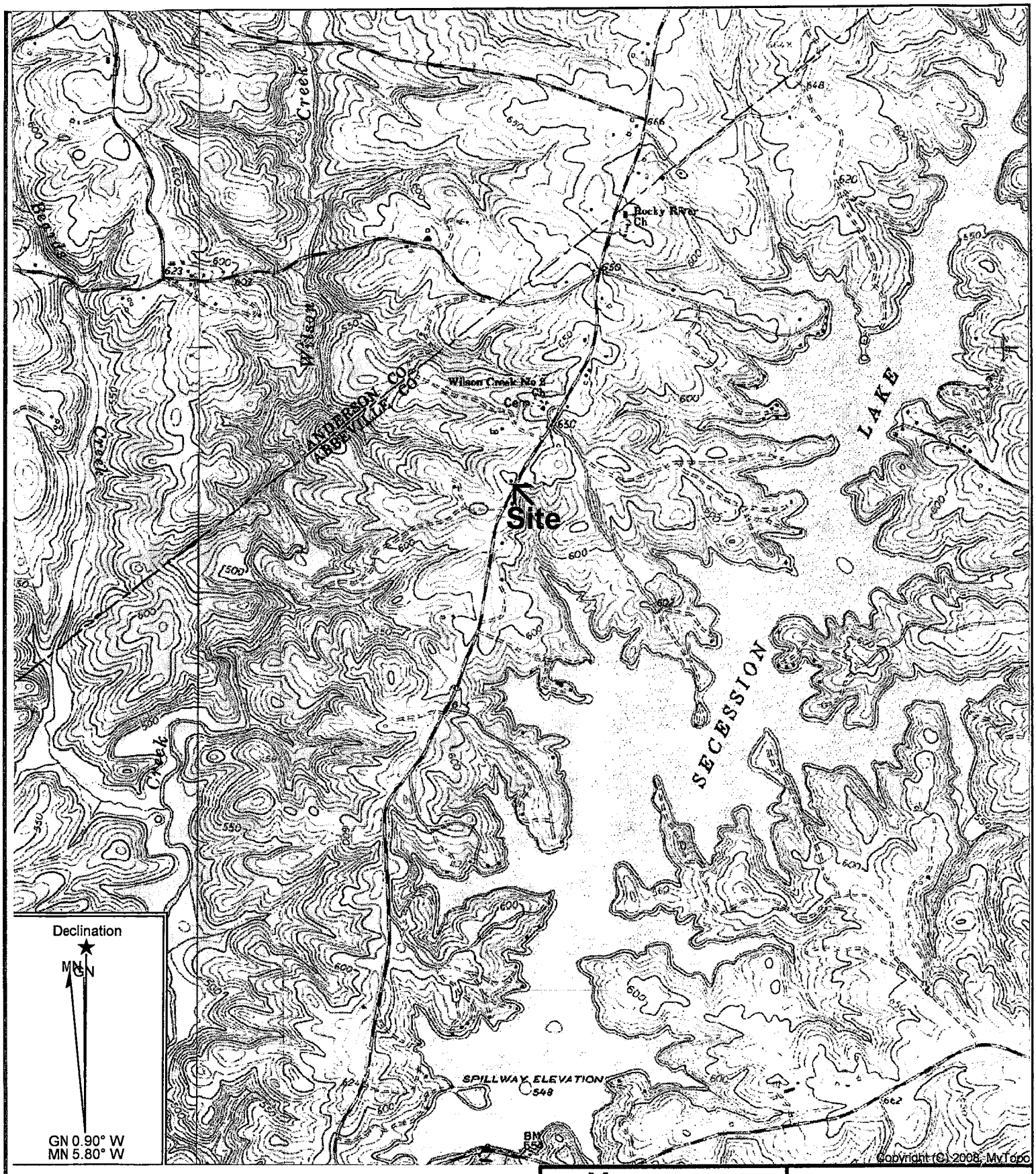
Notes:
1. µg/l = micrograms per liter
2. NT = Not Tested
3. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).
4. DRY = Monitoring well gauged dry

TABLE 3A
PAGE 3 OF 3
GROUNDWATER COC CONCENTRATION DATA (OXYGENATES)
DECEMBER 02, 2013 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 13-4649
SCDHEC SITE ID NUMBER 19440

Well Number	Sample Date	tert-Amyl alcohol (µg/l)	tert-Amyl methyl ether (µg/l)	tert-Butyl Formate (µg/l)	Diisopropyl ether (µg/l)	3,3-Dimethyl-1-butanol (µg/l)	Ethanol (µg/l)	Ethyl tert-butyl ether (µg/l)	tert Butyl Alcohol (µg/l)
RW-1	12/02/13	**130J**	**79J**	<2,000	**1,400**	<2,000	<20,000	<2,000	**250J**
RW-2	12/02/13	<100,000	**1,100J**	<100,000	**19,000**	<100,000	<1,000,000	<100,000	<100,000
WSW-1	12/02/13	NT	NT	NT	NT	NT	NT	NT	NT
WSW-2	12/02/13	NT	NT	NT	NT	NT	NT	NT	NT
WSW-4	12/02/13	<100	<10	<100	<10	<100	<1,000	<100	<100
WSW-5	12/02/13	NT	NT	NT	NT	NT	NT	NT	NT
WSW-6	12/02/13	<100	<10	<100	<10	<100	<1,000	<100	<100
WSW-7	12/02/13	<100	<10	<100	**16**	<100	<1,000	<100	<100
WSW-8	12/02/13	NT	NT	NT	NT	NT	NT	NT	NT
WSW-9	12/02/13	<100	<10	<100	<10	<100	<1,000	<100	<100
WSW-10	12/02/13	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-1 Dup.	12/02/13	<100,000	**740J**	<100,000	**6,100J**	<100,000	<1,000,000	<100,000	<100,000
MW-11 Dup.	12/02/13	**100J**	**360J**	<10,000	**6,500**	<10,000	<100,000	<10,000	**1,100J**
Field Blank	12/02/13	<100	<10	<100	<10	<100	<1,000	<100	<100
Trip Blank	12/02/13	<100	<10	<100	<10	<100	<1,000	<100	<100

Notes:
1. µg/l = micrograms per liter
2. NT = Not Tested
3. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).
4. DRY = Monitoring well gauged dry

FIGURES



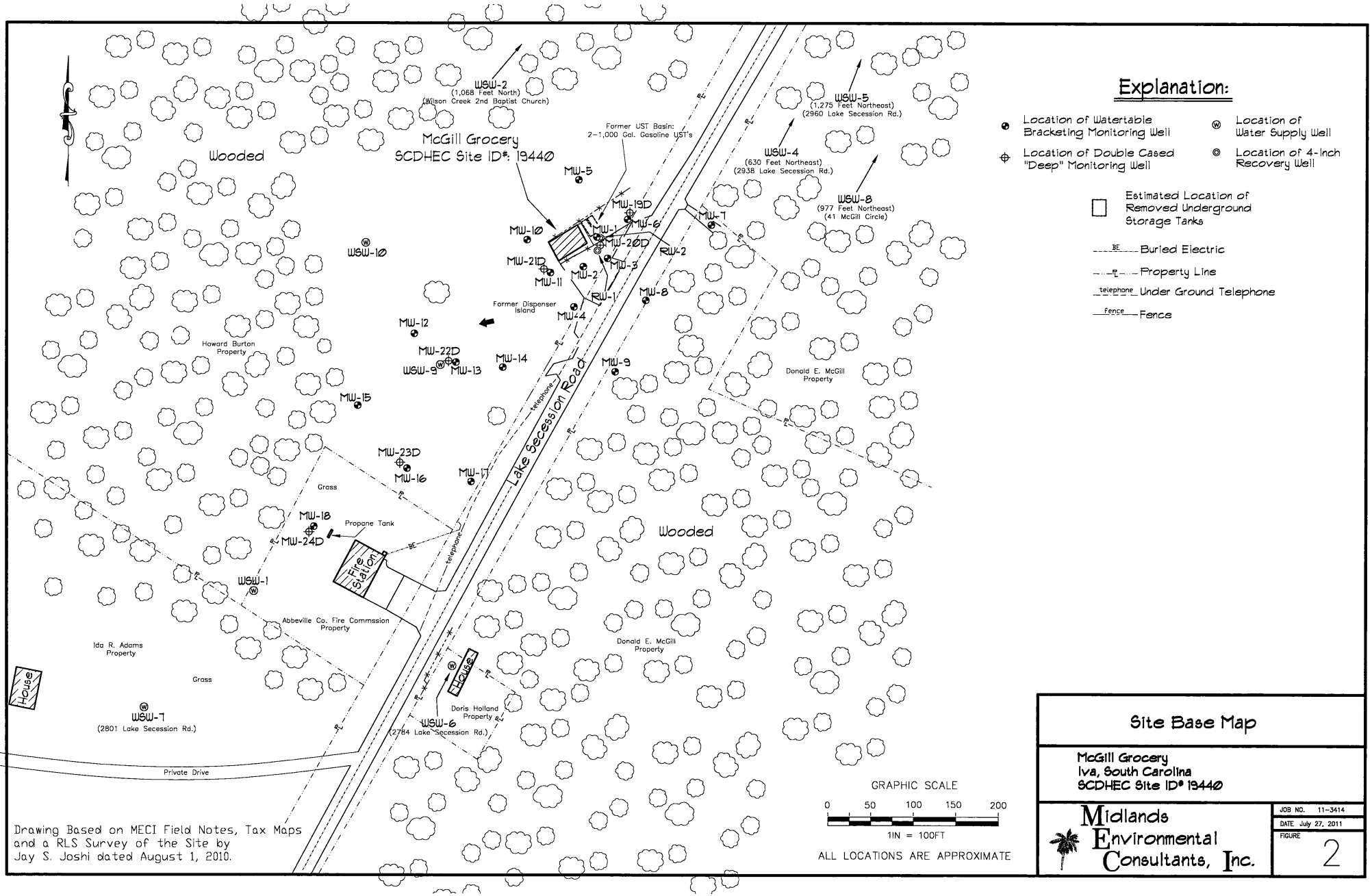
GRAPHIC SCALE

0 1000 2000 4000

1IN = 2000FT

Reference: Antreville, South Carolina
Iva, South Carolina
Contour Interval–10 Feet
USGS 7.5 Min. Quad

Midlands Environmental Consultants, Inc.	Site Location
McGill's Grocery Lake Secession Road, Iva, SC SCDHEC Site ID# 19440	
Figure 1	MECI 11-3414



Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Water Supply Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 4-inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks
- BE — Buried Electric
- P — Property Line
- telephone — Under Ground Telephone
- fence — Fence

GRAPHIC SCALE

0 50 100 150 200

1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

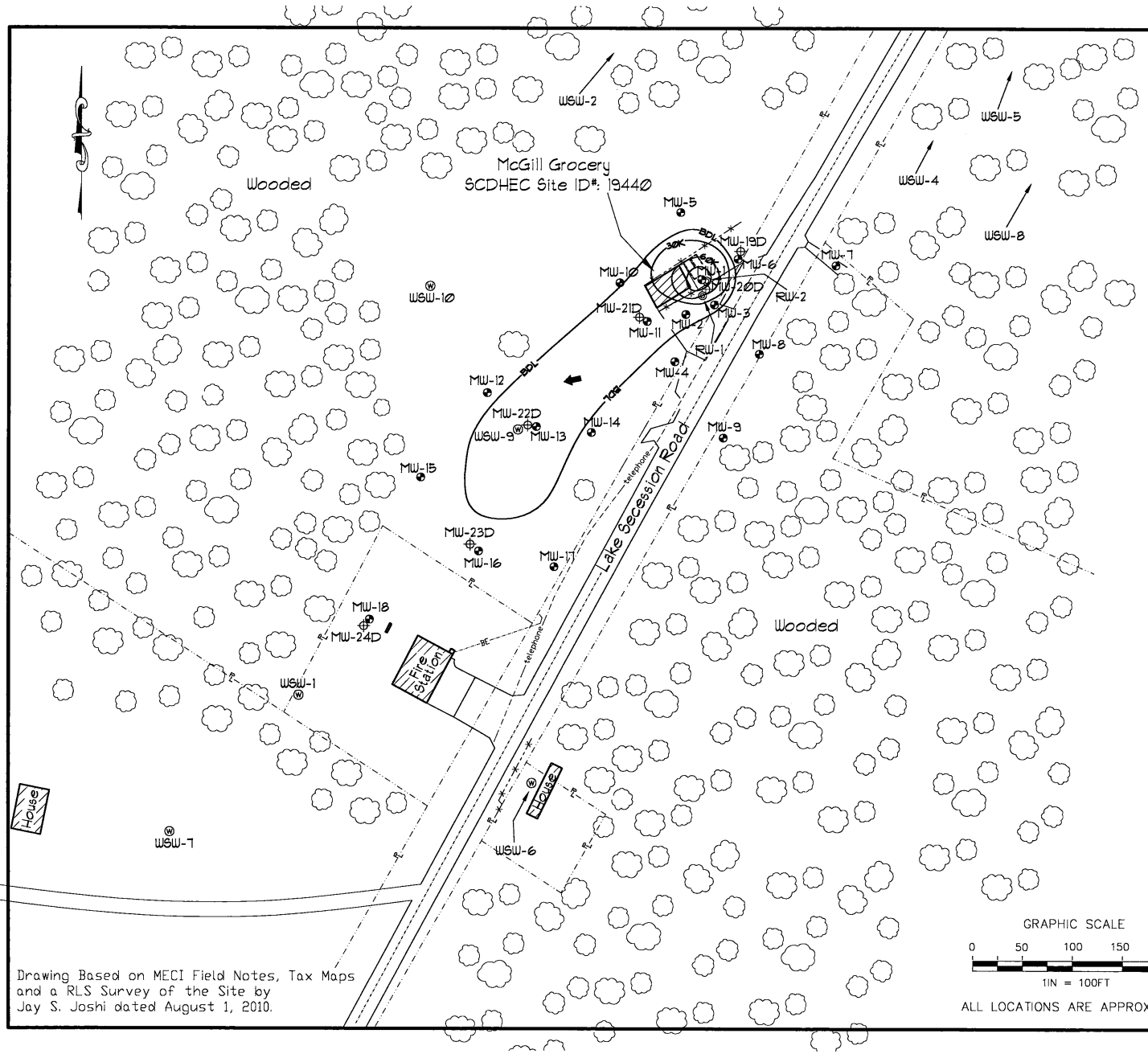
Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

Site Base Map

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 11-3414
DATE July 27, 2011
FIGURE 2



Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

GRAPHIC SCALE

0 50 100 150 200

1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Water Supply Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 4-inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks
- Total BTEX Concentration Isopleth (ug/l)

Groundwater COC Concentration Data

Sample #	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)	1,2 DCA (ug/l)	EDB (ug/l)
MW-1	3,300	100,000	3,700	29,000	136,000	800J	<2,500	<2,500	1.5
MW-2	2.3J	<50	<50	<50	2.3J	3,000	<50	<50	<0.020
MW-3	<25	<25	<25	<25	BDL	890	<25	<25	<0.019
MW-4	<500	<500	<500	<500	BDL	15,000	<500	<500	<0.019
MW-5	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-6	<5.0	<5.0	<5.0	<5.0	BDL	20	<5.0	<5.0	<0.020
MW-7	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-9	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	NT
MW-10	<5.0	<5.0	<5.0	<5.0	BDL	73	<5.0	<5.0	NT
MW-11	650	<100	380	520	1,550	11,000	46J	<100	<0.022
MW-12	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-14	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.021
MW-15	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-16	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-17	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-18	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.021
MW-19D	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-20D	130	170	<50	170	470	2,700	<50	<50	<0.019
MW-21D	0.79J	<5.0	<5.0	<5.0	0.79J	50	<5.0	<5.0	<0.019
MW-22D	3.2J	<25	<25	<25	3.2J	330	<25	<25	<0.020
MW-23D	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-24D	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
RW-1	58J	270	480	280	1,068J	460	130	<100	<0.019
RW-2	5,500	87,000	4,200J	22,000	118,700J	21,000	<5,000	<5,000	0.30
WSW-1	NT	NT	NT	NT	NT	NT	NT	NT	NT
WSW-2	NT	NT	NT	NT	NT	NT	NT	NT	NT
WSW-4	<1.0	<1.0	<1.0	<1.0	BDL	<1.0	<1.0	<1.0	<0.019
WSW-5	NT	NT	NT	NT	NT	NT	NT	NT	NT
WSW-6	<1.0	<1.0	<1.0	<1.0	BDL	<1.0	<1.0	<1.0	<0.019
WSW-7	<1.0	<1.0	<1.0	<1.0	BDL	29	<1.0	<1.0	<0.019
WSW-8	NT	NT	NT	NT	NT	NT	NT	NT	NT
WSW-9	<1.0	<1.0	<1.0	<1.0	BDL	<1.0	<1.0	<1.0	<0.019
WSW-10	<1.0	<1.0	<1.0	<1.0	BDL	<1.0	<1.0	<1.0	<0.019
MW-1 Dup.	3,300J	100,000	3,700J	28,000	135,000J	740J	<5,000	<5,000	1.2
MW-11 Dup.	780	<500	460J	710	1,950J	11,000	<500	<500	<0.022
Field Blank	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
Trip Blank	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	NT

Notes: Groundwater samples collected on December 2, 2013.

Isopleth Interval = 30,000 ug/l

BDL = Below Detection Limits

"J" Values included in Total BTEX Calculations

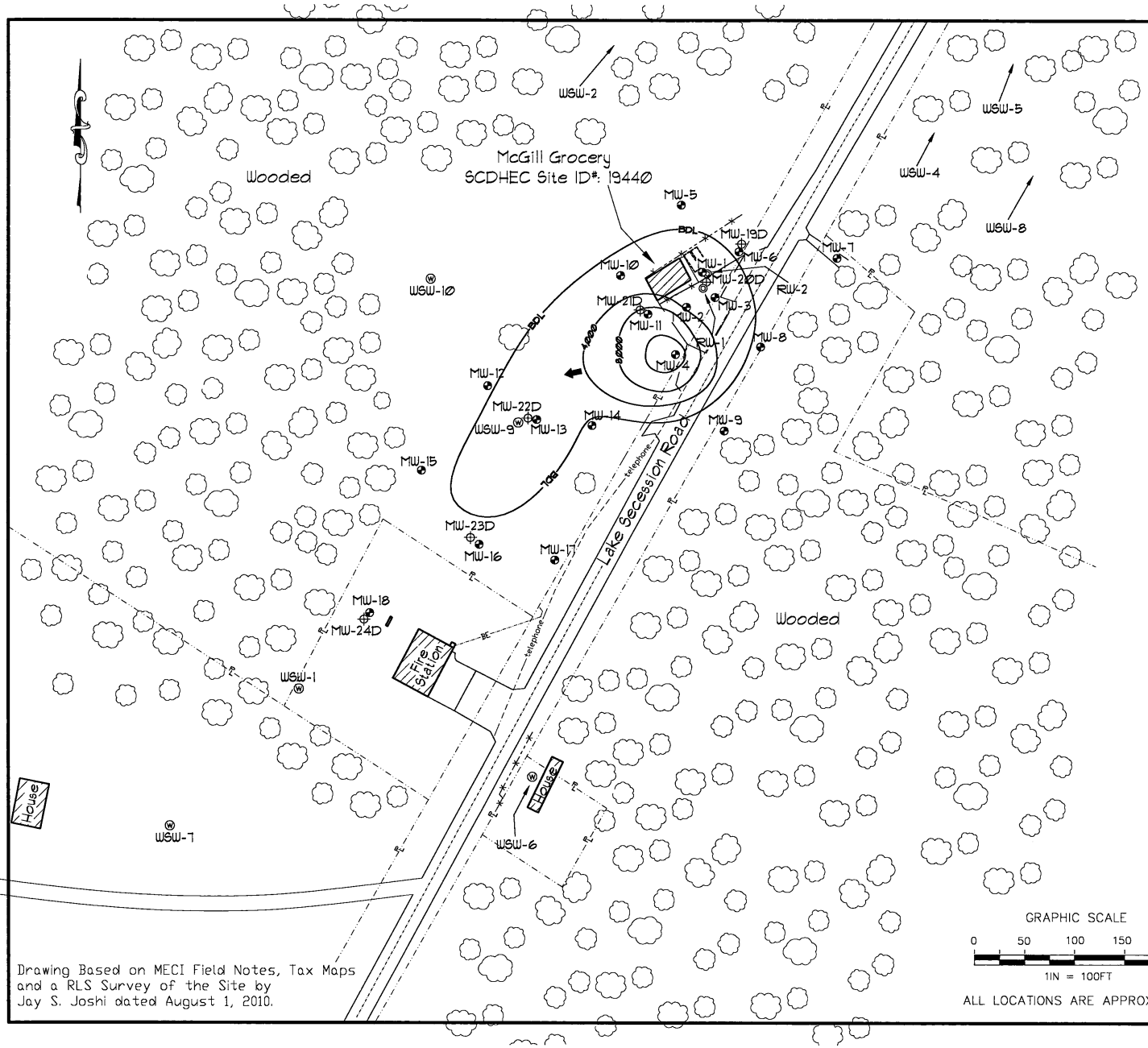
Isopleths Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

Groundwater CoC Site Map
(Total BTEX Isopleth)

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 13-4649
DATE December 12, 2013
FIGURE 4



Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Water Supply Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 4-Inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks
- MTBE Concentration Isopleth (ug/l)

Groundwater COC Concentration Data

Sample #	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)	1,2 DCA (ug/l)	EDB (ug/l)
MW-1	3,300	100,000	3,700	29,000	136,000	800J	<2,500	<2,500	1.5
MW-2	2.3J	<50	<50	<50	2.3J	3,000	<50	<50	<0.020
MW-3	<25	<25	<25	<25	BDL	890	<25	<25	<0.019
MW-4	<500	<500	<500	<500	BDL	15,000	<500	<500	<0.019
MW-5	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-6	<5.0	<5.0	<5.0	<5.0	BDL	20	<5.0	<5.0	<0.020
MW-7	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-9	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	NT
MW-10	<5.0	<5.0	<5.0	<5.0	BDL	73	<5.0	<5.0	NT
MW-11	650	<100	380	520	1,550	11,000	46J	<100	<0.022
MW-12	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-14	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.021
MW-15	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-16	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-17	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-18	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.021
MW-19D	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-20D	130	170	<50	170	470	2,700	<50	<50	<0.019
MW-21D	0.79J	<5.0	<5.0	<5.0	0.79J	50	<5.0	<5.0	<0.019
MW-22D	3.2J	<25	<25	<25	3.2J	330	<25	<25	<0.020
MW-23D	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-24D	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
RW-1	56J	270	480	260	1,066J	460	130	<100	<0.019
RW-2	5,500	87,000	4,200J	22,000	118,700J	21,000	<5,000	<5,000	0.30
WSW-1	NT	NT	NT	NT	NT	NT	NT	NT	NT
WSW-2	NT	NT	NT	NT	NT	NT	NT	NT	NT
WSW-4	<1.0	<1.0	<1.0	<1.0	BDL	<1.0	<1.0	<1.0	<0.019
WSW-5	NT	NT	NT	NT	NT	NT	NT	NT	NT
WSW-6	<1.0	<1.0	<1.0	<1.0	BDL	<1.0	<1.0	<1.0	<0.019
WSW-7	<1.0	<1.0	<1.0	<1.0	BDL	29	<1.0	<1.0	<0.019
WSW-8	NT	NT	NT	NT	NT	NT	NT	NT	NT
WSW-9	<1.0	<1.0	<1.0	<1.0	BDL	<1.0	<1.0	<1.0	<0.019
WSW-10	<1.0	<1.0	<1.0	<1.0	BDL	<1.0	<1.0	<1.0	<0.019
MW-1 Dup.	3,300J	100,000	3,700J	28,000	135,000J	740J	<5,000	<5,000	1.2
MW-11 Dup.	780	<500	460J	710	1,950J	11,000	<500	<500	<0.022
Field Blank	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
Trip Blank	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	NT

Notes:
- Groundwater samples collected on December 2, 2013.
- Isopleth interval = 4,000 ug/l
- BDL = Below Detection Limits
- "J" Values included in Total BTEX Calculations
- Isopleths Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

GRAPHIC SCALE
0 50 100 150 200
1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

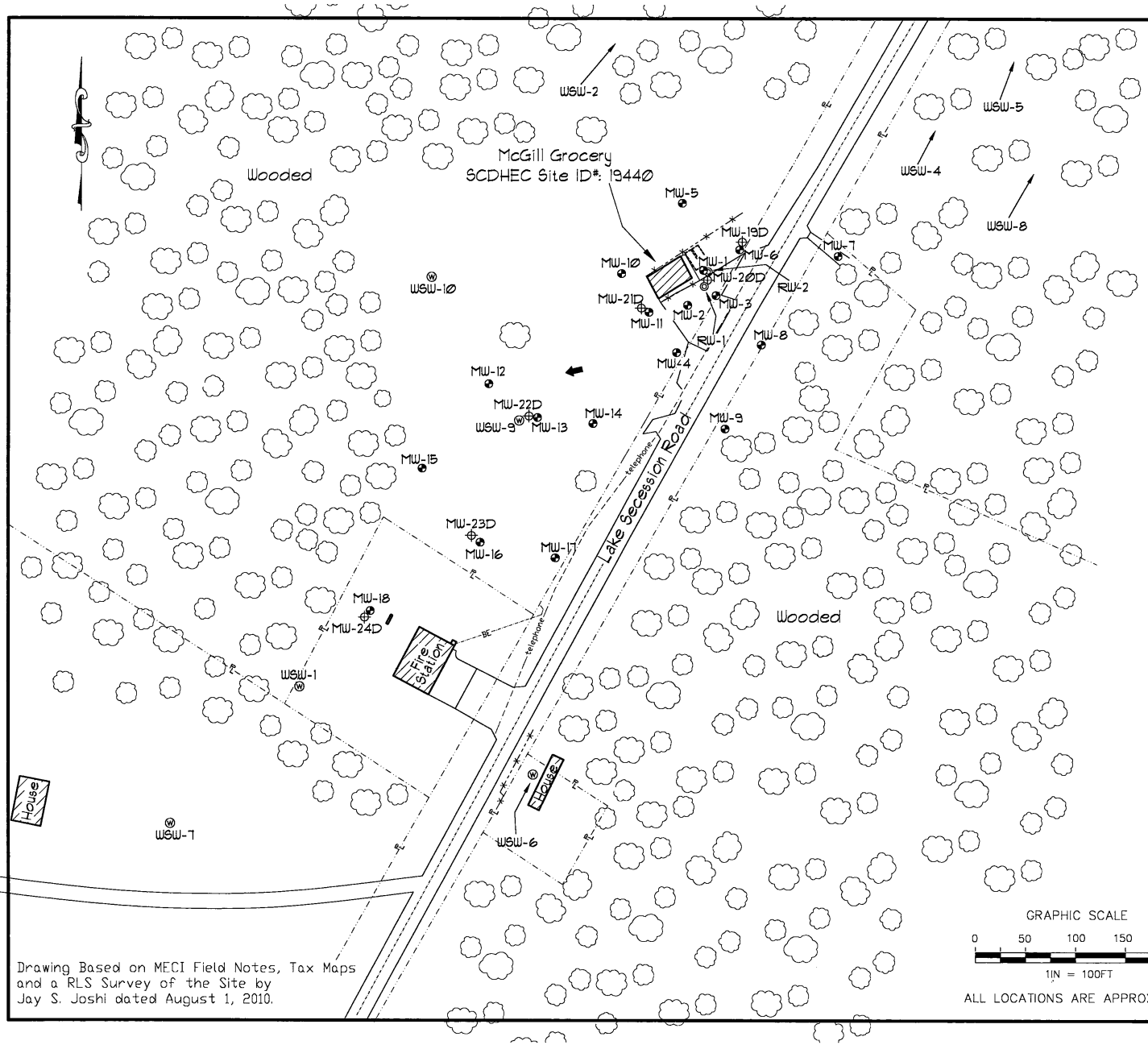
Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

Groundwater CoC Site Map
(MTBE Isopleth)

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 13-4649
DATE December 12, 2013
FIGURE 4A



Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Water Supply Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 4-Inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks

Groundwater CoC Concentration Data - Oxygenates

Sample #	TAA (ug/l)	TAME (ug/l)	TBF (ug/l)	DIPE (ug/l)	3,3-Dimethyl-1-butanol (ug/l)	Ethanol (ug/l)	ETBE (ug/l)	TBA (ug/l)
MW-1	<50,000	850J	<50,000	6,100	<50,000	<500,000	<50,000	<50,000
MW-2	500J	130	<1,000	2,700	<1,000	<10,000	<1,000	230J
MW-3	74J	14J	<500	430	<500	<5,000	<500	1,700
MW-4	2,000J	180J	<10,000	6,600	<10,000	<100,000	<10,000	<10,000
MW-5	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-6	<100	<10	<100	32	<100	<1,000	<100	<100
MW-7	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-9	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-10	<100	0.54J	<100	8.7J	<100	<1,000	<100	<100
MW-11	960J	320	39J	6,200	<2,000	<20,000	<2,000	1,000J
MW-12	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-13	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-14	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-15	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-16	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-17	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-18	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-19D	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-20D	490J	52J	<1,000	1,400	<1,000	<10,000	<1,000	130J
MW-21D	<100	0.67J	<100	38	<100	<1,000	<100	<100
MW-22D	<500	2.7J	<500	150	<500	<5,000	<500	<500
MW-23D	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-24D	<100	1.3J	<100	<10	<100	<1,000	<100	<100
RW-1	130J	79J	<2,000	1,400	<2,000	<20,000	<2,000	250J
RW-2	<100,000	1,100J	<100,000	19,000	<100,000	<1,000,000	<100,000	<100,000
WSW-1	NT	NT	NT	NT	NT	NT	NT	NT
WSW-2	NT	NT	NT	NT	NT	NT	NT	NT
WSW-4	<100	<10	<100	<10	<100	<1,000	<100	<100
WSW-5	NT	NT	NT	NT	NT	NT	NT	NT
WSW-6	<100	<10	<100	<10	<100	<1,000	<100	<100
WSW-7	<100	<10	<100	16	<100	<1,000	<100	<100
WSW-8	NT	NT	NT	NT	NT	NT	NT	NT
WSW-9	<100	<10	<100	<10	<100	<1,000	<100	<100
WSW-10	<100	<10	<100	<10	<100	<1,000	<100	<100
MW-1 Dup.	<100,000	740J	<100,000	6,100J	<100,000	<1,000,000	<100,000	<100,000
MW-11 Dup.	100J	380J	<10,000	6,500	<10,000	<100,000	<10,000	<1,100J
Field Blank	<100	<10	<100	<10	<100	<1,000	<100	<100
Trip Blank	<100	<10	<100	<10	<100	<1,000	<100	<100

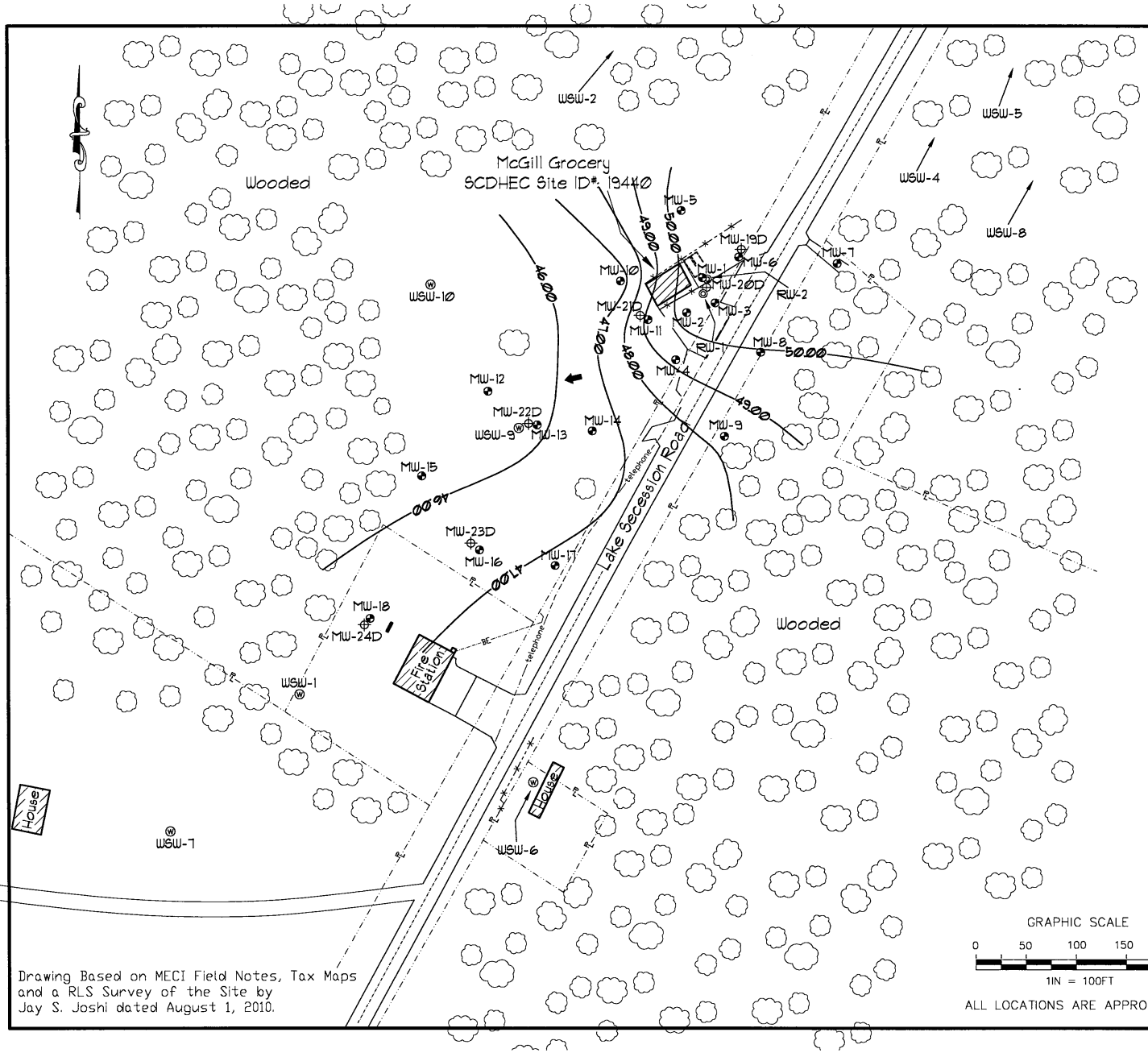
Notes: Groundwater samples collected on December 2, 2013.
DIPE = Diisopropyl Ether
ETBE = Ethyl tert-butyl Ether
TAA = tert-Amyl Alcohol
TAME = tert-Amy Methyl Ether
TBA = tert-Butyl Alcohol
TBF = tert-Butyl Formate

Groundwater CoC Site Map
(Oxygenates)

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 13-4649
DATE December 12, 2013
FIGURE 4B



Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Water Supply Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 4-Inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks
- Groundwater Elevation Contour (feet)

Potentiometric Data

Well #	Screened Interval	Depth to Water (ft)	Well Head Elevation	Groundwater Elevation
MW-1	40-50	45.83	96.57	50.74
MW-2	41-51	46.65	96.95	50.30
MW-3	41-51	46.25	96.97	50.72
MW-4	42-52	50.54	99.71	49.17
MW-5	35-45	41.87	92.47	50.60
MW-6	43-53	45.39	96.10	50.71
MW-7	40-50	47.13	97.67	50.54
MW-8	39-49	DRY	100.64	DRY
MW-9	41-51	50.13	98.25	48.12
MW-10	40-50	48.76	95.10	46.34
MW-11	40-50	48.17	97.68	49.51
MW-12	50-60	58.85	103.93	45.08
MW-13	50-60	59.00	104.88	45.88
MW-14	49-59	56.55	102.93	46.38
MW-15	45-55	52.45	98.20	45.75
MW-16	45-55	50.77	97.51	46.74
MW-17	45-55	51.45	98.62	47.17
MW-18	35-45	40.40	87.20	46.80
MW-19D	65-70	45.90	96.43	50.53
MW-20D	65-67	45.83	97.23	51.40
MW-21D	78-83	48.11	97.64	49.53
MW-22D	95-100	59.79	104.95	45.16
MW-23D	95-100	51.83	97.83	46.00
MW-24D	70-75	41.85	87.38	45.53
RW-1	30-50	46.23	96.57	50.34
RW-2	30-50	46.46	96.90	50.44

Notes: Depth to groundwater measured on December 2, 2013

Contour Interval = 1.00 Foot

Site Datum Based on Assumed Spot Elevation.

"Deep" monitoring wells and 4-Inch Recovery Wells not used in contouring.

Groundwater Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

Potentiometric Data Site Map
(Groundwater Contour)

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 13-4649
DATE December 12, 2013
FIGURE 5

APPENDIX A:

SITE SURVEY
(Not Applicable)

APPENDIX B:

SAMPLING LOGS, LABORATORY DATA SHEETS, & CHAIN-OF-CUSTODY FORMS

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-1

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:			feet
Depth to Free Product (DFP)			feet
Depth to Ground Water (DGW)	45.83		feet
Total Well Depth (TWD)	50		feet
Length of the water column (LWC=TWD-DGW)		4.17	feet
1 casing volume (CV=LWC X C)= ____ X	0.163	0.68	gallons
5 casing volume (5 X CV)=	5	3.40	gallons

Total Volume of Water Purged Before Sampling 1 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	12:46	12:49						
pH (s.u.)	7.48	7.37						
Specific Conductivity (µmhos/cm)	172.5	182.1						
Water Temperature (°C)	17.1	17.0						
Dissolved Oxygen	6.95	6.78						
Turbidity (NTU)	326.2	843.1						
PID readings, if required								

Remarks: Sample Time: 12:49 **Dry @ 1.0 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-2

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:			feet
Depth to Free Product (DFP)			feet
Depth to Ground Water (DGW)	46.65		feet
Total Well Depth (TWD)	51		feet
Length of the water column (LWC=TWD-DGW)		4.35	feet
1 casing volume (CV=LWC X C)= ____ X	0.163	0.71	gallons
5 casing volume (5 X CV)=	5	3.55	gallons

Total Volume of Water Purged Before Sampling 1 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	13:51	13:55						
pH (s.u.)	7.25	7.18						
Specific Conductivity (µmhos/cm)	379.3	385.6						
Water Temperature (°C)	17.1	17.2						
Dissolved Oxygen	5.74	5.49						
Turbidity (NTU)	147.20	748.0						
PID readings, if required								

Remarks: Sample Time: 13:55 **Dry @ 1.0 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-3

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:			feet
Depth to Free Product (DFP)			feet
Depth to Ground Water (DGW)	46.25		feet
Total Well Depth (TWD)	51		feet
Length of the water column (LWC=TWD-DGW)		4.75	feet
1 casing volume (CV=LWC X C)= ____ X	0.163	0.77	gallons
5 casing volume (5 X CV)=	5	3.87	gallons

Total Volume of Water Purged Before Sampling 2 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	13:40	13:43	13:45					
pH (s.u.)	7.32	7.25	7.20					
Specific Conductivity (µmhos/cm)	297.8	286.9	288.5					
Water Temperature (°C)	17.5	17.6	17.7					
Dissolved Oxygen	6.68	7.14	7.09					
Turbidity (NTU)	260.3	387.1	433.9					
PID readings, if required								

Remarks: Sample Time: 13:45 **Dry @ 2.0 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-4

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	50.54			feet
Total Well Depth (TWD)	52			feet
Length of the water column (LWC=TWD-DGW)			1.46	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	0.24	gallons
5 casing volume (5 X CV)=		5	1.19	gallons

Total Volume of Water Purged Before Sampling INS gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	13:18							
pH (s.u.)	INS							
Specific Conductivity (µmhos/cm)	INS							
Water Temperature (°C)	INS							
Dissolved Oxygen	INS							
Turbidity (NTU)	INS							
PID readings, if required								

Remarks: Sample Time: 13:18 **Insufficent water for readings and purging.**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-5

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	41.87			feet
Total Well Depth (TWD)	45			feet
Length of the water column (LWC=TWD-DGW)			3.13	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	0.51	gallons
5 casing volume (5 X CV)=		5	2.55	gallons

Total Volume of Water Purged Before Sampling 0.5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	12:04	12:06						
pH (s.u.)	9.80	9.06						
Specific Conductivity (µmhos/cm)	69.1	51.5						
Water Temperature (°C)	16.3	16.2						
Dissolved Oxygen	10.73	9.93						
Turbidity (NTU)	972.1	1,015						
PID readings, if required								

Remarks: Sample Time: 12:06 **Dry @ 0.5 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-6

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	45.39			feet
Total Well Depth (TWD)	53			feet
Length of the water column (LWC=TWD-DGW)			7.61	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	1.24	gallons
5 casing volume (5 X CV)=		5	6.20	gallons

Total Volume of Water Purged Before Sampling 3 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	11:42	11:45	11:48					
pH (s.u.)	7.60	7.59	7.60					
Specific Conductivity (µmhos/cm)	155.5	159.6	156.9					
Water Temperature (°C)	16.8	17.1	17.1					
Dissolved Oxygen	4.92	5.19	6.10					
Turbidity (NTU)	162.50	847.1	913.0					
PID readings, if required								

Remarks: Sample Time: 11:48 **Dry @ 3.0 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-7

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	47.13			feet
Total Well Depth (TWD)	50			feet
Length of the water column (LWC=TWD-DGW)			2.87	feet
1 casing volume (CV=LWC X C)=	____ X	0.163	0.47	gallons
5 casing volume (5 X CV)=		5	2.34	gallons

Total Volume of Water Purged Before Sampling 0.5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	11:09	11:11						
pH (s.u.)	9.88	9.95						
Specific Conductivity (µmhos/cm)	143.5	111.2						
Water Temperature (°C)	16.0	16.0						
Dissolved Oxygen	2.56	3.22						
Turbidity (NTU)	378.1	494.2						
PID readings, if required								

Remarks: Sample Time: 11:11 **Dry @ 0.5 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-9

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	50.13			feet
Total Well Depth (TWD)	51			feet
Length of the water column (LWC=TWD-DGW)			0.87	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	0.14	gallons
5 casing volume (5 X CV)=		5	0.71	gallons

Total Volume of Water Purged Before Sampling INS gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	10:50							
pH (s.u.)	INS							
Specific Conductivity (µmhos/cm)	INS							
Water Temperature (°C)	INS							
Dissolved Oxygen	INS							
Turbidity (NTU)	INS							
PID readings, if required								

Remarks: Sample Time: 11:08 **Insufficient water for readings and purging.**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-10

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	48.76			feet
Total Well Depth (TWD)	50			feet
Length of the water column (LWC=TWD-DGW)			1.24	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	0.20	gallons
5 casing volume (5 X CV)=		5	1.01	gallons

Total Volume of Water Purged Before Sampling INS gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	14:02							
pH (s.u.)	INS							
Specific Conductivity (µmhos/cm)	INS							
Water Temperature (°C)	INS							
Dissolved Oxygen	INS							
Turbidity (NTU)	INS							
PID readings, if required								

Remarks: Sample Time: 14:02 **Insufficient water for readings and purging.**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-11

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	48.17			feet
Total Well Depth (TWD)	50			feet
Length of the water column (LWC=TWD-DGW)			1.83	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	0.30	gallons
5 casing volume (5 X CV)=		5	1.49	gallons

Total Volume of Water Purged Before Sampling 0.25 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	13:35	13:40						
pH (s.u.)	6.30	6.39						
Specific Conductivity (µmhos/cm)	313.7	333.4						
Water Temperature (°C)	17.0	16.8						
Dissolved Oxygen	3.28	2.61						
Turbidity (NTU)	25.47	578.1						
PID readings, if required								

Remarks: Sample Time: 13:50 **Dry @ 0.25 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-12

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	58.85			feet
Total Well Depth (TWD)	60			feet
Length of the water column (LWC=TWD-DGW)			1.15	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	0.19	gallons
5 casing volume (5 X CV)=		5	0.94	gallons

Total Volume of Water Purged Before Sampling INS gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	11:50							
pH (s.u.)	INS							
Specific Conductivity (µmhos/cm)	INS							
Water Temperature (°C)	INS							
Dissolved Oxygen	INS							
Turbidity (NTU)	INS							
PID readings, if required								

Remarks: Sample Time: 11:50 **Insufficient water for readings and purging.**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-13

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	59.00			feet
Total Well Depth (TWD)	60			feet
Length of the water column (LWC=TWD-DGW)			1	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	0.16	gallons
5 casing volume (5 X CV)=		5	0.82	gallons

Total Volume of Water Purged Before Sampling INS gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	12:02							
pH (s.u.)	INS							
Specific Conductivity (µmhos/cm)	INS							
Water Temperature (°C)	INS							
Dissolved Oxygen	INS							
Turbidity (NTU)	INS							
PID readings, if required								

Remarks: Sample Time: 12:02 **Insufficient water for readings and purging.**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-14

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	56.55			feet
Total Well Depth (TWD)	59			feet
Length of the water column (LWC=TWD-DGW)			2.45	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	0.40	gallons
5 casing volume (5 X CV)=		5	2.00	gallons

Total Volume of Water Purged Before Sampling 0.25 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	12:45	12:50						
pH (s.u.)	5.94	6.07						
Specific Conductivity (µmhos/cm)	148.6	155.2						
Water Temperature (°C)	16.2	16.3						
Dissolved Oxygen	11.46	8.42						
Turbidity (NTU)	105.20	727.1						
PID readings, if required								

Remarks: Sample Time: 12:50 **Dry @ 0.25 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-15

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	52.45			feet
Total Well Depth (TWD)	55			feet
Length of the water column (LWC=TWD-DGW)			2.55	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	0.42	gallons
5 casing volume (5 X CV)=		5	2.08	gallons

Total Volume of Water Purged Before Sampling 0.25 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	10:25	10:28						
pH (s.u.)	6.85	7.02						
Specific Conductivity (µmhos/cm)	73.2	70.4						
Water Temperature (°C)	17.5	17.4						
Dissolved Oxygen	9.57	9.35						
Turbidity (NTU)	107.42	808.5						
PID readings, if required								

Remarks: Sample Time: 10:28 **Dry @ 0.25 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-16

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	50.77			feet
Total Well Depth (TWD)	55			feet
Length of the water column (LWC=TWD-DGW)			4.23	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	0.69	gallons
5 casing volume (5 X CV)=		5	3.45	gallons

Total Volume of Water Purged Before Sampling 1 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	11:00	11:08						
pH (s.u.)	5.51	6.02						
Specific Conductivity (µmhos/cm)	38.0	47.3						
Water Temperature (°C)	17.3	17.2						
Dissolved Oxygen	9.92	11.24						
Turbidity (NTU)	47.13	647.2						
PID readings, if required								

Remarks: Sample Time: 11:08 **Dry @ 1.0 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-17

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	51.45			feet
Total Well Depth (TWD)	55			feet
Length of the water column (LWC=TWD-DGW)			3.55	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	0.58	gallons
5 casing volume (5 X CV)=		5	2.89	gallons

Total Volume of Water Purged Before Sampling 0.5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	10:50	10:55						
pH (s.u.)	6.74	6.27						
Specific Conductivity (µmhos/cm)	50.1	49.4						
Water Temperature (°C)	17.0	17.3						
Dissolved Oxygen	10.70	11.73						
Turbidity (NTU)	84.27	789.4						
PID readings, if required								

Remarks: Sample Time: 10:55 **Dry @ 0.5 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-18

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	40.40			feet
Total Well Depth (TWD)	45			feet
Length of the water column (LWC=TWD-DGW)			4.6	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	0.75	gallons
5 casing volume (5 X CV)=		5	3.75	gallons

Total Volume of Water Purged Before Sampling 1 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	10:39	10:43						
pH (s.u.)	5.99	6.45						
Specific Conductivity (µmhos/cm)	47.6	52.8						
Water Temperature (°C)	17.3	17.2						
Dissolved Oxygen	10.49	12.12						
Turbidity (NTU)	15.75	649.7						
PID readings, if required								

Remarks: Sample Time: 10:43 **Dry @ 1.0 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-19D

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	45.90			feet
Total Well Depth (TWD)	70			feet
Length of the water column (LWC=TWD-DGW)			24.1	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	3.93	gallons
5 casing volume (5 X CV)=		5	19.64	gallons

Total Volume of Water Purged Before Sampling 5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	11:30	11:45						
pH (s.u.)	7.74	8.60						
Specific Conductivity (µmhos/cm)	553	630						
Water Temperature (°C)	16.9	16.7						
Dissolved Oxygen	9.66	7.73						
Turbidity (NTU)	37.18	391.3						
PID readings, if required								

Remarks: Sample Time: 11:45 **Dry @ 5.0 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-20D

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	45.83			feet
Total Well Depth (TWD)	67			feet
Length of the water column (LWC=TWD-DGW)			21.17	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	3.45	gallons
5 casing volume (5 X CV)=		5	17.25	gallons

Total Volume of Water Purged Before Sampling 5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	12:20	12:28						
pH (s.u.)	12.18	11.48						
Specific Conductivity (µmhos/cm)	3,563	560						
Water Temperature (°C)	19.6	17.1						
Dissolved Oxygen	4.26	3.14						
Turbidity (NTU)	92.44	358.1						
PID readings, if required								

Remarks: Sample Time: 12:28 **Dry @ 5.0 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-21D

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	48.11			feet
Total Well Depth (TWD)	83			feet
Length of the water column (LWC=TWD-DGW)			34.89	feet
1 casing volume (CV=LWC X C)=	____ X	0.163	5.69	gallons
5 casing volume (5 X CV)=		5	28.44	gallons

Total Volume of Water Purged Before Sampling 5.5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	13:30	13:43						
pH (s.u.)	7.34	7.26						
Specific Conductivity (µmhos/cm)	162.6	143.1						
Water Temperature (°C)	17.2	16.5						
Dissolved Oxygen	3.71	3.07						
Turbidity (NTU)	13.54	781.4						
PID readings, if required								

Remarks: Sample Time: 13:43 **Dry @ 5.5 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-22D

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	59.79			feet
Total Well Depth (TWD)	100			feet
Length of the water column (LWC=TWD-DGW)			40.21	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	6.55	gallons
5 casing volume (5 X CV)=		5	32.77	gallons

Total Volume of Water Purged Before Sampling 32 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	12:15	12:25	12:37	12:45	12:52	13:00		
pH (s.u.)	6.15	6.47	6.42	6.57	6.65	7.01		
Specific Conductivity (µmhos/cm)	145.6	155.2	157.8	142.7	143.2	145.7		
Water Temperature (°C)	16.7	16.4	16.5	16.4	16.5	16.5		
Dissolved Oxygen	10.32	8.67	7.69	7.47	8.19	7.89		
Turbidity (NTU)	9.57	25.5	145.7	152.4	165.7	172.4		
PID readings, if required								

Remarks: Sample Time: 13:00

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-23D

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	51.83			feet
Total Well Depth (TWD)	100			feet
Length of the water column (LWC=TWD-DGW)			48.17	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	7.85	gallons
5 casing volume (5 X CV)=		5	39.26	gallons

Total Volume of Water Purged Before Sampling 9 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	11:15	11:28						
pH (s.u.)	6.83	7.43						
Specific Conductivity (µmhos/cm)	72.2	69.4						
Water Temperature (°C)	17.8	17.5						
Dissolved Oxygen	3.69	10.30						
Turbidity (NTU)	8.74	509.7						
PID readings, if required								

Remarks: Sample Time: 11:28 **Dry @ 9.0 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-24D

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	41.85			feet
Total Well Depth (TWD)	75			feet
Length of the water column (LWC=TWD-DGW)			33.15	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	5.40	gallons
5 casing volume (5 X CV)=		5	27.02	gallons

Total Volume of Water Purged Before Sampling 27 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	10:00	10:05	10:10	10:15	10:22	10:30		
pH (s.u.)	8.55	7.04	6.82	6.84	6.46	6.72		
Specific Conductivity (µmhos/cm)	69.2	73.6	69.3	70.4	72.7	71.6		
Water Temperature (°C)	16.4	16.9	16.6	17.0	17.0	16.9		
Dissolved Oxygen	6.31	9.77	11.27	11.43	11.07	11.47		
Turbidity (NTU)	10.24	75.9	80.4	67.19	72.45	94.27		
PID readings, if required								

Remarks: Sample Time: 10:30

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** RW-1

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	46.23			feet
Total Well Depth (TWD)	50			feet
Length of the water column (LWC=TWD-DGW)			3.77	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	0.61	gallons
5 casing volume (5 X CV)=		5	3.07	gallons

Total Volume of Water Purged Before Sampling 1 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	13:27	13:30						
pH (s.u.)	7.08	7.17						
Specific Conductivity (µmhos/cm)	327.9	497.0						
Water Temperature (°C)	17.5	17.3						
Dissolved Oxygen	5.95	6.88						
Turbidity (NTU)	386.5	543.9						
PID readings, if required								

Remarks: Sample Time: 13:30 **Dry @ 1.0 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 12/2/2013

Field Personnel: Ryan Ariail, Brian Johnson and Kyle Pudney

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 22.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** RW-2

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:			feet
Depth to Free Product (DFP)			feet
Depth to Ground Water (DGW)	46.46		feet
Total Well Depth (TWD)	50		feet
Length of the water column (LWC=TWD-DGW)		3.54	feet
1 casing volume (CV=LWC X C)= ____ X	0.163	0.58	gallons
5 casing volume (5 X CV)=	5	2.89	gallons

Total Volume of Water Purged Before Sampling 1 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	12:40	12:43						
pH (s.u.)	9.14	8.90						
Specific Conductivity (µmhos/cm)	613	376.1						
Water Temperature (°C)	17.2	17.4						
Dissolved Oxygen	3.20	3.24						
Turbidity (NTU)	347.70	994.6						
PID readings, if required								

Remarks: Sample Time: 12:43 **Dry @ 1.0 Gallons**

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Midlands Environmental Consultants, Inc.
235 Dooley Rd
Lexington, SC 29073
Attention: Bryan Shane

Project Name: **McGill Grocery**

Project Number: **13-4649**

Lot Number: **OL03014**

Date Completed: **12/09/2013**

Kelly M. Maberry
Project Manager

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative

Midlands Environmental Consultants, Inc.

Lot Number: OL03014

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Receiving
Samples -001, -028, -031 and -034 for volatiles analysis contained vials with air bubbles greater than ¼" or 6mm in diameter. The laboratory uses these vials for screening and the vials without bubbles for analysis whenever possible. Condition of samples is documented on the Sample Receipt Checklist (SRC).

GC/MS Volatiles
The MS/MSD associated with sample-010 had tert-butyl formate recovered outside of the acceptance limits. The LCS/LCSD were recovered within the required acceptance limits; therefore, this demonstrates a matrix effect and data quality is not impacted.

EDB/DBCP
Samples -10, -013, -017, -031 and -032 had sediment in the vials that altered the sample volume.

Sample Summary

Midlands Environmental Consultants, Inc.

Lot Number: OL03014

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-1	Aqueous	12/02/2013 1249	12/02/2013
002	MW-2	Aqueous	12/02/2013 1355	12/02/2013
003	MW-3	Aqueous	12/02/2013 1345	12/02/2013
004	MW-4	Aqueous	12/02/2013 1318	12/02/2013
005	MW-5	Aqueous	12/02/2013 1206	12/02/2013
006	MW-6	Aqueous	12/02/2013 1148	12/02/2013
007	MW-7	Aqueous	12/02/2013 1111	12/02/2013
008	MW-9	Aqueous	12/02/2013 1050	12/02/2013
009	MW-10	Aqueous	12/02/2013 1402	12/02/2013
010	MW-11	Aqueous	12/02/2013 1350	12/02/2013
011	MW-12	Aqueous	12/02/2013 1150	12/02/2013
012	MW-13	Aqueous	12/02/2013 1202	12/02/2013
013	MW-14	Aqueous	12/02/2013 1250	12/02/2013
014	MW-15	Aqueous	12/02/2013 1028	12/02/2013
015	MW-16	Aqueous	12/02/2013 1108	12/02/2013
016	MW-17	Aqueous	12/02/2013 1055	12/02/2013
017	MW-18	Aqueous	12/02/2013 1043	12/02/2013
018	MW-19D	Aqueous	12/02/2013 1145	12/02/2013
019	MW-20D	Aqueous	12/02/2013 1228	12/02/2013
020	MW-21D	Aqueous	12/02/2013 1343	12/02/2013
021	MW-22D	Aqueous	12/02/2013 1300	12/02/2013
022	MW-23D	Aqueous	12/02/2013 1128	12/02/2013
023	MW-24D	Aqueous	12/02/2013 1030	12/02/2013
024	RW-1	Aqueous	12/02/2013 1330	12/02/2013
025	RW-2	Aqueous	12/02/2013 1243	12/02/2013
026	WSW-4	Aqueous	12/02/2013 1408	12/02/2013
027	WSW-6	Aqueous	12/02/2013 1015	12/02/2013
028	WSW-7	Aqueous	12/02/2013 1000	12/02/2013
029	WSW-9	Aqueous	12/02/2013 1220	12/02/2013
030	WSW-10	Aqueous	12/02/2013 1420	12/02/2013
031	MW-1 Duplicate	Aqueous	12/02/2013 1249	12/02/2013
032	MW-11 Duplicate	Aqueous	12/02/2013 1350	12/02/2013
033	Field Blank	Aqueous	12/02/2013 1400	12/02/2013
034	Trip Blank	Aqueous	12/02/2013 1208	12/02/2013

(34 samples)

Executive Summary
Midlands Environmental Consultants, Inc.
Lot Number: OL03014

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-1	Aqueous	tert-Amyl methyl ether (TAME)	8260B	850	J	ug/L	7
001	MW-1	Aqueous	Benzene	8260B	3300		ug/L	7
001	MW-1	Aqueous	Diisopropyl ether (IPE)	8260B	6100		ug/L	7
001	MW-1	Aqueous	Ethylbenzene	8260B	3700		ug/L	7
001	MW-1	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	800	J	ug/L	7
001	MW-1	Aqueous	Toluene	8260B	100000		ug/L	7
001	MW-1	Aqueous	Xylenes (total)	8260B	29000		ug/L	7
001	MW-1	Aqueous	1,2-Dibromoethane (EDB)	8011	1.5		ug/L	7
002	MW-2	Aqueous	tert-Amyl alcohol (TAA)	8260B	500	J	ug/L	8
002	MW-2	Aqueous	tert-Amyl methyl ether (TAME)	8260B	130		ug/L	8
002	MW-2	Aqueous	Benzene	8260B	2.3	J	ug/L	8
002	MW-2	Aqueous	Diisopropyl ether (IPE)	8260B	2700		ug/L	8
002	MW-2	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	3000		ug/L	8
002	MW-2	Aqueous	tert-butyl alcohol (TBA)	8260B	230	J	ug/L	8
003	MW-3	Aqueous	tert-Amyl alcohol (TAA)	8260B	74	J	ug/L	9
003	MW-3	Aqueous	tert-Amyl methyl ether (TAME)	8260B	14	J	ug/L	9
003	MW-3	Aqueous	Diisopropyl ether (IPE)	8260B	430		ug/L	9
003	MW-3	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	890		ug/L	9
003	MW-3	Aqueous	tert-butyl alcohol (TBA)	8260B	1700		ug/L	9
004	MW-4	Aqueous	tert-Amyl alcohol (TAA)	8260B	2000	J	ug/L	10
004	MW-4	Aqueous	tert-Amyl methyl ether (TAME)	8260B	180	J	ug/L	10
004	MW-4	Aqueous	Diisopropyl ether (IPE)	8260B	6600		ug/L	10
004	MW-4	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	15000		ug/L	10
006	MW-6	Aqueous	Diisopropyl ether (IPE)	8260B	32		ug/L	12
006	MW-6	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	20		ug/L	12
009	MW-10	Aqueous	tert-Amyl methyl ether (TAME)	8260B	0.54	J	ug/L	15
009	MW-10	Aqueous	Diisopropyl ether (IPE)	8260B	8.7	J	ug/L	15
009	MW-10	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	73		ug/L	15
010	MW-11	Aqueous	tert-Amyl alcohol (TAA)	8260B	960	J	ug/L	16
010	MW-11	Aqueous	tert-Amyl methyl ether (TAME)	8260B	320		ug/L	16
010	MW-11	Aqueous	Benzene	8260B	650		ug/L	16
010	MW-11	Aqueous	tert-Butyl formate (TBF)	8260B	39	J	ug/L	16
010	MW-11	Aqueous	Diisopropyl ether (IPE)	8260B	6200		ug/L	16
010	MW-11	Aqueous	Ethylbenzene	8260B	380		ug/L	16
010	MW-11	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	11000		ug/L	16
010	MW-11	Aqueous	Naphthalene	8260B	46	J	ug/L	16
010	MW-11	Aqueous	tert-butyl alcohol (TBA)	8260B	1000	J	ug/L	16
010	MW-11	Aqueous	Xylenes (total)	8260B	520		ug/L	16
019	MW-20D	Aqueous	tert-Amyl alcohol (TAA)	8260B	490	J	ug/L	25
019	MW-20D	Aqueous	tert-Amyl methyl ether (TAME)	8260B	52	J	ug/L	25
019	MW-20D	Aqueous	Benzene	8260B	130		ug/L	25
019	MW-20D	Aqueous	Diisopropyl ether (IPE)	8260B	1400		ug/L	25
019	MW-20D	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	2700		ug/L	25
019	MW-20D	Aqueous	tert-butyl alcohol (TBA)	8260B	130	J	ug/L	25
019	MW-20D	Aqueous	Toluene	8260B	170		ug/L	25

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
019	MW-20D	Aqueous	Xylenes (total)	8260B	170		ug/L	25
020	MW-21D	Aqueous	tert-Amyl methyl ether (TAME)	8260B	0.67	J	ug/L	26
020	MW-21D	Aqueous	Benzene	8260B	0.79	J	ug/L	26
020	MW-21D	Aqueous	Diisopropyl ether (IPE)	8260B	38		ug/L	26
020	MW-21D	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	50		ug/L	26
021	MW-22D	Aqueous	tert-Amyl methyl ether (TAME)	8260B	2.7	J	ug/L	27
021	MW-22D	Aqueous	Benzene	8260B	3.2	J	ug/L	27
021	MW-22D	Aqueous	Diisopropyl ether (IPE)	8260B	150		ug/L	27
021	MW-22D	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	330		ug/L	27
023	MW-24D	Aqueous	tert-Amyl methyl ether (TAME)	8260B	1.3	J	ug/L	29
024	RW-1	Aqueous	tert-Amyl alcohol (TAA)	8260B	130	J	ug/L	30
024	RW-1	Aqueous	tert-Amyl methyl ether (TAME)	8260B	79	J	ug/L	30
024	RW-1	Aqueous	Benzene	8260B	56	J	ug/L	30
024	RW-1	Aqueous	Diisopropyl ether (IPE)	8260B	1400		ug/L	30
024	RW-1	Aqueous	Ethylbenzene	8260B	480		ug/L	30
024	RW-1	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	460		ug/L	30
024	RW-1	Aqueous	Naphthalene	8260B	130		ug/L	30
024	RW-1	Aqueous	tert-butyl alcohol (TBA)	8260B	250	J	ug/L	30
024	RW-1	Aqueous	Toluene	8260B	270		ug/L	30
024	RW-1	Aqueous	Xylenes (total)	8260B	260		ug/L	30
025	RW-2	Aqueous	tert-Amyl methyl ether (TAME)	8260B	1100	J	ug/L	31
025	RW-2	Aqueous	Benzene	8260B	5500		ug/L	31
025	RW-2	Aqueous	Diisopropyl ether (IPE)	8260B	19000		ug/L	31
025	RW-2	Aqueous	Ethylbenzene	8260B	4200	J	ug/L	31
025	RW-2	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	21000		ug/L	31
025	RW-2	Aqueous	Toluene	8260B	87000		ug/L	31
025	RW-2	Aqueous	Xylenes (total)	8260B	22000		ug/L	31
025	RW-2	Aqueous	1,2-Dibromoethane (EDB)	8011	0.30		ug/L	31
028	WSW-7	Aqueous	Diisopropyl ether (IPE)	8260B	16		ug/L	34
028	WSW-7	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	29		ug/L	34
031	MW-1 Duplicate	Aqueous	tert-Amyl methyl ether (TAME)	8260B	740	J	ug/L	37
031	MW-1 Duplicate	Aqueous	Benzene	8260B	3300	J	ug/L	37
031	MW-1 Duplicate	Aqueous	Diisopropyl ether (IPE)	8260B	6100	J	ug/L	37
031	MW-1 Duplicate	Aqueous	Ethylbenzene	8260B	3700	J	ug/L	37
031	MW-1 Duplicate	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	740	J	ug/L	37
031	MW-1 Duplicate	Aqueous	Toluene	8260B	100000		ug/L	37
031	MW-1 Duplicate	Aqueous	Xylenes (total)	8260B	28000		ug/L	37
031	MW-1 Duplicate	Aqueous	1,2-Dibromoethane (EDB)	8011	1.2		ug/L	37
032	MW-11 Duplicate	Aqueous	tert-Amyl alcohol (TAA)	8260B	1000	J	ug/L	38
032	MW-11 Duplicate	Aqueous	tert-Amyl methyl ether (TAME)	8260B	360	J	ug/L	38
032	MW-11 Duplicate	Aqueous	Benzene	8260B	780		ug/L	38
032	MW-11 Duplicate	Aqueous	Diisopropyl ether (IPE)	8260B	6500		ug/L	38
032	MW-11 Duplicate	Aqueous	Ethylbenzene	8260B	460	J	ug/L	38
032	MW-11 Duplicate	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	11000		ug/L	38
032	MW-11 Duplicate	Aqueous	tert-butyl alcohol (TBA)	8260B	1100	J	ug/L	38
032	MW-11 Duplicate	Aqueous	Xylenes (total)	8260B	710		ug/L	38

Executive Summary (Continued)

Lot Number: OL03014

Sample Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page

(91 detections)

Client: **Midlands Environmental Consultants, Inc.**
Description: **MW-1**
Date Sampled: **12/02/2013 1249**
Date Received: **12/02/2013**

Laboratory ID: **OL03014-001**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	500	12/04/2013 0337	PMM2		35666
2	5030B	8260B	1000	12/05/2013 0356	PMM2		35753

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		50000	3400	ug/L	1
tert-Amyl methyl ether (TAME)	**994-05-8**	**8260B**	**850**	**J**	**5000**	**100**	**ug/L**	**1**
Benzene	**71-43-2**	**8260B**	**3300**		**2500**	**100**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		50000	500	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		2500	150	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**6100**		**5000**	**200**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		50000	500	ug/L	1
Ethanol	64-17-5	8260B	ND		500000	17000	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**3700**		**2500**	**850**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		50000	100	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**800**	**J**	**2500**	**200**	**ug/L**	**1**
Naphthalene	91-20-3	8260B	ND		2500	850	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		50000	3400	ug/L	1
Toluene	**108-88-3**	**8260B**	**100000**		**5000**	**1700**	**ug/L**	**2**
Xylenes (total)	**1330-20-7**	**8260B**	**29000**		**2500**	**850**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		84	70-130		85	70-130
Bromofluorobenzene		93	70-130		97	70-130
Toluene-d8		97	70-130		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0117	RBH	12/05/2013 0949	35763
2	8011	8011	2	12/06/2013 1807	RBH	12/05/2013 0949	35763

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**1.5**		**0.039**	**0.039**	**ug/L**	**2**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		88	57-137		125	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.**
Description: **MW-2**
Date Sampled: **12/02/2013 1355**
Date Received: **12/02/2013**

Laboratory ID: **OL03014-002**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	12/04/2013 0420	PMM2		35666
2	5030B	8260B	50	12/05/2013 0417	PMM2		35753

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**500**	**J**	**1000**	**67**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	**994-05-8**	**8260B**	**130**		**100**	**2.0**	**ug/L**	**1**
Benzene	**71-43-2**	**8260B**	**2.3**	**J**	**50**	**2.0**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		1000	10	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		50	3.0	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**2700**		**500**	**20**	**ug/L**	**2**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		1000	10	ug/L	1
Ethanol	64-17-5	8260B	ND		10000	330	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		50	17	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1000	2.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**3000**		**250**	**20**	**ug/L**	**2**
Naphthalene	91-20-3	8260B	ND		50	17	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**230**	**J**	**1000**	**67**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		50	17	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		50	17	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		85	70-130		86	70-130
Bromofluorobenzene		92	70-130		93	70-130
Toluene-d8		97	70-130		101	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0128	RBH	12/05/2013 0949	35763

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		104	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.** Laboratory ID: **OL03014-003**
Description: **MW-3** Matrix: **Aqueous**
Date Sampled: **12/02/2013 1345**
Date Received: **12/02/2013**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	12/04/2013 0441	PMM2		35666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**74**	**J**	**500**	**34**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	**994-05-8**	**8260B**	**14**	**J**	**50**	**1.0**	**ug/L**	**1**
Benzene	71-43-2	8260B	ND		25	1.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		500	5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.5	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**430**		**50**	**2.0**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		500	5.0	ug/L	1
Ethanol	64-17-5	8260B	ND		5000	170	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		25	8.5	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		500	1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**890**		**25**	**2.0**	**ug/L**	**1**
Naphthalene	91-20-3	8260B	ND		25	8.5	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**1700**		**500**	**34**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		25	8.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		25	8.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		85	70-130
Bromofluorobenzene		91	70-130
Toluene-d8		97	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0138	RBH	12/05/2013 0949	35763

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		112	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.** Laboratory ID: **OL03014-004**
Description: **MW-4** Matrix: **Aqueous**
Date Sampled: **12/02/2013 1318**
Date Received: **12/02/2013**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	100	12/04/2013 0502	PMM2		35666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**2000**	**J**	**10000**	**670**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	**994-05-8**	**8260B**	**180**	**J**	**1000**	**20**	**ug/L**	**1**
Benzene	71-43-2	8260B	ND		500	20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		10000	100	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		500	30	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**6600**		**1000**	**40**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		10000	100	ug/L	1
Ethanol	64-17-5	8260B	ND		100000	3300	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		500	170	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		10000	20	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**15000**		**500**	**40**	**ug/L**	**1**
Naphthalene	91-20-3	8260B	ND		500	170	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		10000	670	ug/L	1
Toluene	108-88-3	8260B	ND		500	170	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		500	170	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		86	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		97	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0148	RBH	12/05/2013 0949	35763

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		100	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.** Laboratory ID: **OL03014-005**

Description: **MW-5** Matrix: **Aqueous**

Date Sampled: **12/02/2013 1206**

Date Received: **12/02/2013**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/03/2013 2351	PMM2		35666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		86	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		97	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0159	RBH	12/05/2013 0949	35763

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		107	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time

ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.**
Description: **MW-6**
Date Sampled: **12/02/2013 1148**
Date Received: **12/02/2013**

Laboratory ID: **OL03014-006**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/04/2013 0027	PMM2		35666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**32**		**10**	**0.40**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**20**		**5.0**	**0.40**	**ug/L**	**1**
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		84	70-130
Bromofluorobenzene		89	70-130
Toluene-d8		96	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0209	RBH	12/05/2013 0949	35763

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		104	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.** Laboratory ID: **OL03014-007**
Description: **MW-7** Matrix: **Aqueous**
Date Sampled: **12/02/2013 1111**
Date Received: **12/02/2013**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/04/2013 0048	PMM2		35666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0219	RBH	12/05/2013 0949	35763

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		115	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.** Laboratory ID: **OL03014-008**

Description: **MW-9** Matrix: **Aqueous**

Date Sampled: **12/02/2013 1050**

Date Received: **12/02/2013**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/04/2013 1125	AAC		35679

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		84	70-130
Bromofluorobenzene		90	70-130
Toluene-d8		96	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.**
Description: **MW-10**
Date Sampled: **12/02/2013 1402**
Date Received: **12/02/2013**

Laboratory ID: **OL03014-009**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/04/2013 1104	AAC		35679

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	**994-05-8**	**8260B**	**0.54**	**J**	**10**	**0.20**	**ug/L**	**1**
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**8.7**	**J**	**10**	**0.40**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**73**		**5.0**	**0.40**	**ug/L**	**1**
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		86	70-130
Bromofluorobenzene		91	70-130
Toluene-d8		96	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.**
Description: **MW-11**
Date Sampled: **12/02/2013 1350**
Date Received: **12/02/2013**

Laboratory ID: **OL03014-010**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	12/04/2013 0358	PMM2		35666
2	5030B	8260B	100	12/05/2013 0438	PMM2		35753

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**960**	**J**	**2000**	**130**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	**994-05-8**	**8260B**	**320**		**200**	**4.0**	**ug/L**	**1**
Benzene	**71-43-2**	**8260B**	**650**		**100**	**4.0**	**ug/L**	**1**
tert-Butyl formate (TBF)	**762-75-4**	**8260B**	**39**	**J**	**2000**	**20**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		100	6.0	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**6200**		**1000**	**40**	**ug/L**	**2**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		2000	20	ug/L	1
Ethanol	64-17-5	8260B	ND		20000	660	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**380**		**100**	**34**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		2000	4.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**11000**		**500**	**40**	**ug/L**	**2**
Naphthalene	**91-20-3**	**8260B**	**46**	**J**	**100**	**34**	**ug/L**	**1**
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**1000**	**J**	**10000**	**670**	**ug/L**	**2**
Toluene	108-88-3	8260B	ND		100	34	ug/L	1
Xylenes (total)	**1330-20-7**	**8260B**	**520**		**100**	**34**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		85	70-130		88	70-130
Bromofluorobenzene		93	70-130		95	70-130
Toluene-d8		98	70-130		103	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0230	RBH	12/05/2013 0949	35763

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.022	0.022	ug/L	1

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

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.** Laboratory ID: **OL03014-011**
Description: **MW-12** Matrix: **Aqueous**
Date Sampled: **12/02/2013 1150**
Date Received: **12/02/2013**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/04/2013 0109	PMM2		35666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		98	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0240	RBH	12/05/2013 0949	35763

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		118	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.** Laboratory ID: **OL03014-012**
Description: **MW-13** Matrix: **Aqueous**
Date Sampled: **12/02/2013 1202**
Date Received: **12/02/2013**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/04/2013 0130	PMM2		35666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		85	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		97	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0250	RBH	12/05/2013 0949	35763

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		120	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.** Laboratory ID: **OL03014-013**

Description: **MW-14** Matrix: **Aqueous**

Date Sampled: **12/02/2013 1250**

Date Received: **12/02/2013**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/04/2013 0151	PMM2		35666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		98	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0301	RBH	12/05/2013 0949	35763

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.021	0.021	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		110	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time

ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.**
Description: **MW-15**
Date Sampled: **12/02/2013 1028**
Date Received: **12/02/2013**

Laboratory ID: **OL03014-014**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/04/2013 0212	PMM2		35666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		96	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0311	RBH	12/05/2013 0949	35763

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		109	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.** Laboratory ID: **OL03014-015**
Description: **MW-16** Matrix: **Aqueous**
Date Sampled: **12/02/2013 1108**
Date Received: **12/02/2013**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/04/2013 0234	PMM2		35666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0321	RBH	12/05/2013 0949	35763

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		127	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.** Laboratory ID: **OL03014-016**
Description: **MW-17** Matrix: **Aqueous**
Date Sampled: **12/02/2013 1055**
Date Received: **12/02/2013**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/04/2013 0255	PMM2		35666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		85	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		97	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0332	RBH	12/05/2013 0949	35763

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		107	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.**
Description: **MW-18**
Date Sampled: **12/02/2013 1043**
Date Received: **12/02/2013**

Laboratory ID: **OL03014-017**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/04/2013 1146	AAC		35679

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		74	70-130
Bromofluorobenzene		82	70-130
Toluene-d8		86	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0413	RBH	12/05/2013 0949	35765

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.021	0.021	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		100	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.**
Description: **MW-19D**
Date Sampled: **12/02/2013 1145**
Date Received: **12/02/2013**

Laboratory ID: **OL03014-018**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/04/2013 1207	AAC		35679

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0423	RBH	12/05/2013 0949	35765

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		86	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.**
Description: **MW-20D**
Date Sampled: **12/02/2013 1228**
Date Received: **12/02/2013**

Laboratory ID: **OL03014-019**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	12/04/2013 1559	AAC		35679
2	5030B	8260B	20	12/05/2013 1814	ALL		35779

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**490**	**J**	**1000**	**67**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	**994-05-8**	**8260B**	**52**	**J**	**100**	**2.0**	**ug/L**	**1**
Benzene	**71-43-2**	**8260B**	**130**		**50**	**2.0**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		1000	10	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		50	3.0	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**1400**		**100**	**4.0**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		1000	10	ug/L	1
Ethanol	64-17-5	8260B	ND		10000	330	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		50	17	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1000	2.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**2700**		**100**	**8.0**	**ug/L**	**2**
Naphthalene	91-20-3	8260B	ND		50	17	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**130**	**J**	**1000**	**67**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**170**		**50**	**17**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**170**		**50**	**17**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130		85	70-130
Bromofluorobenzene		94	70-130		97	70-130
Toluene-d8		101	70-130		104	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0433	RBH	12/05/2013 0949	35765

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		100	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.** Laboratory ID: **OL03014-020**
Description: **MW-21D** Matrix: **Aqueous**
Date Sampled: **12/02/2013 1343**
Date Received: **12/02/2013**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/04/2013 1228	AAC		35679

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	**994-05-8**	**8260B**	**0.67**	**J**	**10**	**0.20**	**ug/L**	**1**
Benzene	**71-43-2**	**8260B**	**0.79**	**J**	**5.0**	**0.20**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**38**		**10**	**0.40**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**50**		**5.0**	**0.40**	**ug/L**	**1**
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0443	RBH	12/05/2013 0949	35765

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		104	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.** Laboratory ID: **OL03014-021**
Description: **MW-22D** Matrix: **Aqueous**
Date Sampled: **12/02/2013 1300**
Date Received: **12/02/2013**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	12/04/2013 1517	AAC		35679

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		500	34	ug/L	1
tert-Amyl methyl ether (TAME)	**994-05-8**	**8260B**	**2.7**	**J**	**50**	**1.0**	**ug/L**	**1**
Benzene	**71-43-2**	**8260B**	**3.2**	**J**	**25**	**1.0**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		500	5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.5	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**150**		**50**	**2.0**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		500	5.0	ug/L	1
Ethanol	64-17-5	8260B	ND		5000	170	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		25	8.5	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		500	1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**330**		**25**	**2.0**	**ug/L**	**1**
Naphthalene	91-20-3	8260B	ND		25	8.5	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		500	34	ug/L	1
Toluene	108-88-3	8260B	ND		25	8.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		25	8.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		101	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0454	RBH	12/05/2013 0949	35765

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		109	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.** Laboratory ID: **OL03014-022**
Description: **MW-23D** Matrix: **Aqueous**
Date Sampled: **12/02/2013 1128**
Date Received: **12/02/2013**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/04/2013 1249	AAC		35679

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		97	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0504	RBH	12/05/2013 0949	35765

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		111	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.** Laboratory ID: **OL03014-023**
Description: **MW-24D** Matrix: **Aqueous**
Date Sampled: **12/02/2013 1030**
Date Received: **12/02/2013**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/04/2013 1310	AAC		35679

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	**994-05-8**	**8260B**	**1.3**	**J**	**10**	**0.20**	**ug/L**	**1**
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0514	RBH	12/05/2013 0949	35765

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		90	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.** Laboratory ID: **OL03014-024**
Description: **RW-1** Matrix: **Aqueous**
Date Sampled: **12/02/2013 1330**
Date Received: **12/02/2013**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	12/04/2013 1640	AAC		35679

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**130**	**J**	**2000**	**130**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	**994-05-8**	**8260B**	**79**	**J**	**200**	**4.0**	**ug/L**	**1**
Benzene	**71-43-2**	**8260B**	**56**	**J**	**100**	**4.0**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		2000	20	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		100	6.0	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**1400**		**200**	**8.0**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		2000	20	ug/L	1
Ethanol	64-17-5	8260B	ND		20000	660	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**480**		**100**	**34**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		2000	4.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**460**		**100**	**8.0**	**ug/L**	**1**
Naphthalene	**91-20-3**	**8260B**	**130**		**100**	**34**	**ug/L**	**1**
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**250**	**J**	**2000**	**130**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**270**		**100**	**34**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**260**		**100**	**34**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		83	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		98	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0525	RBH	12/05/2013 0949	35765

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		109	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.** Laboratory ID: **OL03014-025**

Description: **RW-2** Matrix: **Aqueous**

Date Sampled: **12/02/2013 1243**

Date Received: **12/02/2013**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1000	12/04/2013 1702	AAC		35679

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100000	6700	ug/L	1
tert-Amyl methyl ether (TAME)	**994-05-8**	**8260B**	**1100**	**J**	**10000**	**200**	**ug/L**	**1**
Benzene	**71-43-2**	**8260B**	**5500**		**5000**	**200**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100000	1000	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5000	300	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**19000**		**10000**	**400**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100000	1000	ug/L	1
Ethanol	64-17-5	8260B	ND		1000000	33000	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**4200**	**J**	**5000**	**1700**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100000	200	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**21000**		**5000**	**400**	**ug/L**	**1**
Naphthalene	91-20-3	8260B	ND		5000	1700	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100000	6700	ug/L	1
Toluene	**108-88-3**	**8260B**	**87000**		**5000**	**1700**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**22000**		**5000**	**1700**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		86	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0535	RBH	12/05/2013 0949	35765

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**0.30**		**0.020**	**0.020**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		76	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.** Laboratory ID: **OL03014-026**
Description: **WSW-4** Matrix: **Aqueous**
Date Sampled: **12/02/2013 1408**
Date Received: **12/02/2013**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/04/2013 1414	AAC		35679

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0545	RBH	12/05/2013 0949	35765

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		95	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.**
Description: **WSW-6**
Date Sampled: **12/02/2013 1015**
Date Received: **12/02/2013**

Laboratory ID: **OL03014-027**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/04/2013 1435	AAC		35679

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0617	RBH	12/05/2013 0949	35765

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		127	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.** Laboratory ID: **OL03014-028**
Description: **WSW-7** Matrix: **Aqueous**
Date Sampled: **12/02/2013 1000**
Date Received: **12/02/2013**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/04/2013 1332	AAC		35679

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**16**		**10**	**0.40**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**29**		**1.0**	**0.40**	**ug/L**	**1**
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0627	RBH	12/05/2013 0949	35765

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		114	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.** Laboratory ID: **OL03014-029**
Description: **WSW-9** Matrix: **Aqueous**
Date Sampled: **12/02/2013 1220**
Date Received: **12/02/2013**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	12/05/2013 1400	ALL		35779

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	2
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	2
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	2
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	2
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	2
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	2
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	2
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	2
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	2
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	2
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	2
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		85	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0637	RBH	12/05/2013 0949	35765

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		116	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.** Laboratory ID: **OL03014-030**
Description: **WSW-10** Matrix: **Aqueous**
Date Sampled: **12/02/2013 1420**
Date Received: **12/02/2013**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	12/05/2013 1422	ALL		35779

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	2
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	2
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	2
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	2
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	2
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	2
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	2
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	2
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	2
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	2
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	2
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		103	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0647	RBH	12/05/2013 0949	35765

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		107	57-137

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.**
Description: **MW-1 Duplicate**
Date Sampled: **12/02/2013 1249**
Date Received: **12/02/2013**

Laboratory ID: **OL03014-031**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1000	12/04/2013 1929	AAC		35679

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100000	6700	ug/L	1
tert-Amyl methyl ether (TAME)	**994-05-8**	**8260B**	**740**	**J**	**10000**	**200**	**ug/L**	**1**
Benzene	**71-43-2**	**8260B**	**3300**	**J**	**5000**	**200**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100000	1000	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5000	300	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**6100**	**J**	**10000**	**400**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100000	1000	ug/L	1
Ethanol	64-17-5	8260B	ND		1000000	33000	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**3700**	**J**	**5000**	**1700**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100000	200	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**740**	**J**	**5000**	**400**	**ug/L**	**1**
Naphthalene	91-20-3	8260B	ND		5000	1700	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100000	6700	ug/L	1
Toluene	**108-88-3**	**8260B**	**100000**		**5000**	**1700**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**28000**		**5000**	**1700**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		85	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		102	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0658	RBH	12/05/2013 0949	35765
2	8011	8011	2	12/06/2013 1817	RBH	12/05/2013 0949	35765

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**1.2**		**0.042**	**0.042**	**ug/L**	**2**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		106	57-137		86	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.** Laboratory ID: **OL03014-032**
Description: **MW-11 Duplicate** Matrix: **Aqueous**
Date Sampled: **12/02/2013 1350**
Date Received: **12/02/2013**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	100	12/05/2013 1835	ALL		35779

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**1000**	**J**	**10000**	**670**	**ug/L**	**2**
tert-Amyl methyl ether (TAME)	**994-05-8**	**8260B**	**360**	**J**	**1000**	**20**	**ug/L**	**2**
Benzene	**71-43-2**	**8260B**	**780**		**500**	**20**	**ug/L**	**2**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		10000	100	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		500	30	ug/L	2
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**6500**		**1000**	**40**	**ug/L**	**2**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		10000	100	ug/L	2
Ethanol	64-17-5	8260B	ND		100000	3300	ug/L	2
Ethylbenzene	**100-41-4**	**8260B**	**460**	**J**	**500**	**170**	**ug/L**	**2**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		10000	20	ug/L	2
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**11000**		**500**	**40**	**ug/L**	**2**
Naphthalene	91-20-3	8260B	ND		500	170	ug/L	2
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**1100**	**J**	**10000**	**670**	**ug/L**	**2**
Toluene	108-88-3	8260B	ND		500	170	ug/L	2
Xylenes (total)	**1330-20-7**	**8260B**	**710**		**500**	**170**	**ug/L**	**2**

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		104	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0708	RBH	12/05/2013 0949	35765

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.022	0.022	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		110	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.**
Description: **Field Blank**
Date Sampled: **12/02/2013 1400**
Date Received: **12/02/2013**

Laboratory ID: **OL03014-033**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/03/2013 2206	PMM2		35666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		86	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		101	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	12/06/2013 0718	RBH	12/05/2013 0949	35765

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		115	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Midlands Environmental Consultants, Inc.**
Description: **Trip Blank**
Date Sampled: **12/02/2013 1208**
Date Received: **12/02/2013**

Laboratory ID: **OL03014-034**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/03/2013 2228	PMM2		35666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: OQ35666-001
Batch: 35666
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	12/03/2013 2145
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	12/03/2013 2145
Benzene	ND		1	5.0	0.20	ug/L	12/03/2013 2145
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	12/03/2013 2145
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	12/03/2013 2145
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	12/03/2013 2145
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	12/03/2013 2145
Ethanol	ND		1	1000	33	ug/L	12/03/2013 2145
Ethylbenzene	ND		1	5.0	1.7	ug/L	12/03/2013 2145
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	12/03/2013 2145
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	12/03/2013 2145
Naphthalene	ND		1	5.0	1.7	ug/L	12/03/2013 2145
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	12/03/2013 2145
Toluene	ND		1	5.0	1.7	ug/L	12/03/2013 2145
Xylenes (total)	ND		1	5.0	1.7	ug/L	12/03/2013 2145

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		90	70-130
1,2-Dichloroethane-d4		86	70-130
Toluene-d8		98	70-130

Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ35666-002
Batch: 35666
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	900		1	90	70-130	12/03/2013 2020
tert-Amyl methyl ether (TAME)	50	48		1	96	70-130	12/03/2013 2020
Benzene	50	45		1	89	70-130	12/03/2013 2020
tert-Butyl formate (TBF)	250	220		1	88	70-130	12/03/2013 2020
1,2-Dichloroethane	50	47		1	93	70-130	12/03/2013 2020
Diisopropyl ether (IPE)	50	46		1	93	70-130	12/03/2013 2020
3,3-Dimethyl-1-butanol	1000	970		1	97	70-130	12/03/2013 2020
Ethanol	5000	4100		1	82	60-140	12/03/2013 2020
Ethylbenzene	50	52		1	104	70-130	12/03/2013 2020
Ethyl-tert-butyl ether (ETBE)	50	48		1	96	70-130	12/03/2013 2020
Methyl tertiary butyl ether (MTBE)	50	47		1	94	70-130	12/03/2013 2020

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ35666-002
Batch: 35666
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Naphthalene	50	38		1	76	70-130	12/03/2013 2020
tert-butyl alcohol (TBA)	1000	890		1	89	70-130	12/03/2013 2020
Toluene	50	52		1	103	70-130	12/03/2013 2020
Xylenes (total)	100	100		1	101	70-130	12/03/2013 2020

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		94	70-130
1,2-Dichloroethane-d4		88	70-130
Toluene-d8		99	70-130

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: OQ35666-003
Batch: 35666
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	900		1	90	0.36	70-130	20	12/03/2013 2042
tert-Amyl methyl ether (TAME)	50	48		1	96	0.37	70-130	20	12/03/2013 2042
Benzene	50	44		1	88	1.5	70-130	20	12/03/2013 2042
tert-Butyl formate (TBF)	250	230		1	90	2.0	70-130	20	12/03/2013 2042
1,2-Dichloroethane	50	47		1	93	0.12	70-130	20	12/03/2013 2042
Diisopropyl ether (IPE)	50	47		1	94	1.7	70-130	20	12/03/2013 2042
3,3-Dimethyl-1-butanol	1000	970		1	97	0.12	70-130	20	12/03/2013 2042
Ethanol	5000	4300		1	87	5.8	60-140	20	12/03/2013 2042
Ethylbenzene	50	53		1	105	1.2	70-130	20	12/03/2013 2042
Ethyl-tert-butyl ether (ETBE)	50	49		1	97	0.61	70-130	20	12/03/2013 2042
Methyl tertiary butyl ether (MTBE)	50	47		1	94	0.40	70-130	20	12/03/2013 2042
Naphthalene	50	36		1	72	5.0	70-130	20	12/03/2013 2042
tert-butyl alcohol (TBA)	1000	840		1	84	5.3	70-130	20	12/03/2013 2042
Toluene	50	50		1	101	2.4	70-130	20	12/03/2013 2042
Xylenes (total)	100	100		1	103	1.1	70-130	20	12/03/2013 2042

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		94	70-130
1,2-Dichloroethane-d4		86	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: OL03014-010MS
Batch: 35666
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	960	20000	18000		20	83	70-130	12/04/2013 0544
tert-Amyl methyl ether (TAME)	320	1000	1300		20	97	70-130	12/04/2013 0544
Benzene	650	1000	1600		20	96	70-130	12/04/2013 0544
tert-Butyl formate (TBF)	39	5000	3100	N	20	61	70-130	12/04/2013 0544
1,2-Dichloroethane	ND	1000	950		20	95	70-130	12/04/2013 0544
Diisopropyl ether (IPE)	6200	1000	6800	E	20	97	70-130	12/04/2013 0544
3,3-Dimethyl-1-butanol	ND	20000	18000		20	90	70-130	12/04/2013 0544
Ethanol	ND	100000	71000		20	71	70-130	12/04/2013 0544
Ethylbenzene	380	1000	1500		20	110	70-130	12/04/2013 0544
Ethyl-tert-butyl ether (ETBE)	ND	1000	950		20	95	70-130	12/04/2013 0544
Methyl tertiary butyl ether (MTBE)	11000	1000	10000	E	20	81	70-130	12/04/2013 0544
Naphthalene	46	1000	800		20	75	70-130	12/04/2013 0544
tert-butyl alcohol (TBA)	1000	20000	17000		20	78	70-130	12/04/2013 0544
Toluene	ND	1000	1100		20	105	70-130	12/04/2013 0544
Xylenes (total)	520	2000	2600		20	106	70-130	12/04/2013 0544

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		85	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		96	70-130

Volatile Organic Compounds by GC/MS - MSD

Sample ID: OL03014-010MD
Batch: 35666
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	960	20000	17000		20	82	0.79	70-130	20	12/04/2013 0605
tert-Amyl methyl ether (TAME)	320	1000	1300		20	97	0.26	70-130	20	12/04/2013 0605
Benzene	650	1000	1600		20	93	1.8	70-130	20	12/04/2013 0605
tert-Butyl formate (TBF)	39	5000	3100	N	20	62	0.17	70-130	20	12/04/2013 0605
1,2-Dichloroethane	ND	1000	950		20	95	0.18	70-130	20	12/04/2013 0605
Diisopropyl ether (IPE)	6200	1000	6800	E	20	94	0.39	70-130	20	12/04/2013 0605
3,3-Dimethyl-1-butanol	ND	20000	18000		20	89	1.9	70-130	20	12/04/2013 0605
Ethanol	ND	100000	72000		20	72	0.81	70-130	20	12/04/2013 0605
Ethylbenzene	380	1000	1500		20	109	0.55	70-130	20	12/04/2013 0605
Ethyl-tert-butyl ether (ETBE)	ND	1000	950		20	95	0.13	70-130	20	12/04/2013 0605
Methyl tertiary butyl ether (MTBE)	11000	1000	10000	E	20	77	0.37	70-130	20	12/04/2013 0605

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MSD

Sample ID: OL03014-010MD
Batch: 35666
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Naphthalene	46	1000	770		20	72	3.6	70-130	20	12/04/2013 0605
tert-butyl alcohol (TBA)	1000	20000	17000		20	78	0.10	70-130	20	12/04/2013 0605
Toluene	ND	1000	1000		20	103	1.1	70-130	20	12/04/2013 0605
Xylenes (total)	520	2000	2600		20	105	0.084	70-130	20	12/04/2013 0605

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		84	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		94	70-130

Volatile Organic Compounds by GC/MS - MB

Sample ID: OQ35679-001
Batch: 35679
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	12/04/2013 1043
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	12/04/2013 1043
Benzene	ND		1	5.0	0.20	ug/L	12/04/2013 1043
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	12/04/2013 1043
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	12/04/2013 1043
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	12/04/2013 1043
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	12/04/2013 1043
Ethanol	ND		1	1000	33	ug/L	12/04/2013 1043
Ethylbenzene	ND		1	5.0	1.7	ug/L	12/04/2013 1043
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	12/04/2013 1043
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	12/04/2013 1043
Naphthalene	ND		1	5.0	1.7	ug/L	12/04/2013 1043
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	12/04/2013 1043
Toluene	ND		1	5.0	1.7	ug/L	12/04/2013 1043
Xylenes (total)	ND		1	5.0	1.7	ug/L	12/04/2013 1043

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		90	70-130
1,2-Dichloroethane-d4		82	70-130
Toluene-d8		96	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ35679-002
Batch: 35679
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	820		1	82	70-130	12/04/2013 0919
tert-Amyl methyl ether (TAME)	50	44		1	88	70-130	12/04/2013 0919
Benzene	50	41		1	83	70-130	12/04/2013 0919
tert-Butyl formate (TBF)	250	210		1	82	70-130	12/04/2013 0919
1,2-Dichloroethane	50	43		1	86	70-130	12/04/2013 0919
Diisopropyl ether (IPE)	50	44		1	87	70-130	12/04/2013 0919
3,3-Dimethyl-1-butanol	1000	880		1	88	70-130	12/04/2013 0919
Ethanol	5000	4200		1	83	60-140	12/04/2013 0919
Ethylbenzene	50	48		1	97	70-130	12/04/2013 0919
Ethyl-tert-butyl ether (ETBE)	50	45		1	90	70-130	12/04/2013 0919
Methyl tertiary butyl ether (MTBE)	50	44		1	89	70-130	12/04/2013 0919
Naphthalene	50	35		1	71	70-130	12/04/2013 0919
tert-butyl alcohol (TBA)	1000	810		1	81	70-130	12/04/2013 0919
Toluene	50	47		1	94	70-130	12/04/2013 0919
Xylenes (total)	100	95		1	95	70-130	12/04/2013 0919

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		92	70-130
1,2-Dichloroethane-d4		85	70-130
Toluene-d8		96	70-130

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: OQ35679-003
Batch: 35679
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	800		1	80	2.9	70-130	20	12/04/2013 0940
tert-Amyl methyl ether (TAME)	50	43		1	86	2.0	70-130	20	12/04/2013 0940
Benzene	50	41		1	82	0.56	70-130	20	12/04/2013 0940
tert-Butyl formate (TBF)	250	190		1	78	5.5	70-130	20	12/04/2013 0940
1,2-Dichloroethane	50	43		1	85	1.3	70-130	20	12/04/2013 0940
Diisopropyl ether (IPE)	50	43		1	86	0.94	70-130	20	12/04/2013 0940
3,3-Dimethyl-1-butanol	1000	860		1	86	2.2	70-130	20	12/04/2013 0940
Ethanol	5000	4000		1	80	4.5	60-140	20	12/04/2013 0940
Ethylbenzene	50	48		1	97	0.13	70-130	20	12/04/2013 0940
Ethyl-tert-butyl ether (ETBE)	50	44		1	88	2.4	70-130	20	12/04/2013 0940
Methyl tertiary butyl ether (MTBE)	50	44		1	88	1.0	70-130	20	12/04/2013 0940

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: OQ35679-003
Batch: 35679
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Naphthalene	50	35		1	71	0.00	70-130	20	12/04/2013 0940
tert-butyl alcohol (TBA)	1000	780		1	78	2.9	70-130	20	12/04/2013 0940
Toluene	50	46		1	93	1.1	70-130	20	12/04/2013 0940
Xylenes (total)	100	94		1	94	1.0	70-130	20	12/04/2013 0940

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		92	70-130
1,2-Dichloroethane-d4		84	70-130
Toluene-d8		95	70-130

Volatile Organic Compounds by GC/MS - MS

Sample ID: OL03014-032MS
Batch: 35679
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000000	810000		1000	81	70-130	12/04/2013 1826
tert-Amyl methyl ether (TAME)	360	50000	45000		1000	90	70-130	12/04/2013 1826
Benzene	780	50000	47000		1000	93	70-130	12/04/2013 1826
tert-Butyl formate (TBF)	ND	250000	210000		1000	82	70-130	12/04/2013 1826
1,2-Dichloroethane	ND	50000	46000		1000	93	70-130	12/04/2013 1826
Diisopropyl ether (IPE)	6500	50000	53000		1000	94	70-130	12/04/2013 1826
3,3-Dimethyl-1-butanol	ND	1000000	870000		1000	87	70-130	12/04/2013 1826
Ethanol	ND	5000000	4100000		1000	81	70-130	12/04/2013 1826
Ethylbenzene	460	50000	55000		1000	109	70-130	12/04/2013 1826
Ethyl-tert-butyl ether (ETBE)	ND	50000	47000		1000	94	70-130	12/04/2013 1826
Methyl tertiary butyl ether (MTBE)	11000	50000	57000		1000	93	70-130	12/04/2013 1826
Naphthalene	ND	50000	39000		1000	78	70-130	12/04/2013 1826
tert-butyl alcohol (TBA)	1100	1000000	830000		1000	83	70-130	12/04/2013 1826
Toluene	ND	50000	53000		1000	106	70-130	12/04/2013 1826
Xylenes (total)	710	100000	110000		1000	105	70-130	12/04/2013 1826

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		85	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MSD

Sample ID: OL03014-032MD
Batch: 35679
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000000	830000		1000	83	1.5	70-130	20	12/04/2013 1846
tert-Amyl methyl ether (TAME)	360	50000	47000		1000	94	4.7	70-130	20	12/04/2013 1846
Benzene	780	50000	47000		1000	93	0.017	70-130	20	12/04/2013 1846
tert-Butyl formate (TBF)	ND	250000	210000		1000	83	0.88	70-130	20	12/04/2013 1846
1,2-Dichloroethane	ND	50000	47000		1000	93	0.26	70-130	20	12/04/2013 1846
Diisopropyl ether (IPE)	6500	50000	54000		1000	96	1.3	70-130	20	12/04/2013 1846
3,3-Dimethyl-1-butanol	ND	1000000	880000		1000	88	1.1	70-130	20	12/04/2013 1846
Ethanol	ND	5000000	3900000		1000	78	4.6	70-130	20	12/04/2013 1846
Ethylbenzene	460	50000	55000		1000	108	0.25	70-130	20	12/04/2013 1846
Ethyl-tert-butyl ether (ETBE)	ND	50000	47000		1000	94	0.74	70-130	20	12/04/2013 1846
Methyl tertiary butyl ether (MTBE)	11000	50000	58000		1000	95	1.7	70-130	20	12/04/2013 1846
Naphthalene	ND	50000	37000		1000	74	4.2	70-130	20	12/04/2013 1846
tert-butyl alcohol (TBA)	1100	1000000	810000		1000	81	2.1	70-130	20	12/04/2013 1846
Toluene	ND	50000	53000		1000	107	0.12	70-130	20	12/04/2013 1846
Xylenes (total)	710	100000	110000		1000	105	0.42	70-130	20	12/04/2013 1846

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		86	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		100	70-130

Volatile Organic Compounds by GC/MS - MB

Sample ID: OQ35679-001
Batch: 35679
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	12/04/2013 1043
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	12/04/2013 1043
Benzene	ND		1	1.0	0.13	ug/L	12/04/2013 1043
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	12/04/2013 1043
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	12/04/2013 1043
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	12/04/2013 1043
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	12/04/2013 1043
Ethanol	ND		1	1000	33	ug/L	12/04/2013 1043
Ethylbenzene	ND		1	1.0	0.33	ug/L	12/04/2013 1043
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	12/04/2013 1043
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	12/04/2013 1043

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: OQ35679-001
Batch: 35679
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Naphthalene	ND		1	1.0	0.40	ug/L	12/04/2013 1043
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	12/04/2013 1043
Toluene	ND		1	1.0	0.33	ug/L	12/04/2013 1043
Xylenes (total)	ND		1	1.0	0.33	ug/L	12/04/2013 1043

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		90	70-130
1,2-Dichloroethane-d4		82	70-130
Toluene-d8		96	70-130

Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ35679-002
Batch: 35679
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	820		1	82	70-130	12/04/2013 0919
tert-Amyl methyl ether (TAME)	50	44		1	88	70-130	12/04/2013 0919
Benzene	50	41		1	83	70-130	12/04/2013 0919
tert-Butyl formate (TBF)	250	210		1	82	70-130	12/04/2013 0919
1,2-Dichloroethane	50	43		1	86	70-130	12/04/2013 0919
Diisopropyl ether (IPE)	50	44		1	87	70-130	12/04/2013 0919
3,3-Dimethyl-1-butanol	1000	880		1	88	70-130	12/04/2013 0919
Ethanol	5000	4200		1	83	60-140	12/04/2013 0919
Ethylbenzene	50	48		1	97	70-130	12/04/2013 0919
Ethyl-tert-butyl ether (ETBE)	50	45		1	90	70-130	12/04/2013 0919
Methyl tertiary butyl ether (MTBE)	50	44		1	89	70-130	12/04/2013 0919
Naphthalene	50	35		1	71	70-130	12/04/2013 0919
tert-butyl alcohol (TBA)	1000	810		1	81	70-130	12/04/2013 0919
Toluene	50	47		1	94	70-130	12/04/2013 0919
Xylenes (total)	100	95		1	95	70-130	12/04/2013 0919

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		92	70-130
1,2-Dichloroethane-d4		85	70-130
Toluene-d8		96	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: OQ35679-003
Batch: 35679
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	800		1	80	2.9	70-130	20	12/04/2013 0940
tert-Amyl methyl ether (TAME)	50	43		1	86	2.0	70-130	20	12/04/2013 0940
Benzene	50	41		1	82	0.56	70-130	20	12/04/2013 0940
tert-Butyl formate (TBF)	250	190		1	78	5.5	70-130	20	12/04/2013 0940
1,2-Dichloroethane	50	43		1	85	1.3	70-130	20	12/04/2013 0940
Diisopropyl ether (IPE)	50	43		1	86	0.94	70-130	20	12/04/2013 0940
3,3-Dimethyl-1-butanol	1000	860		1	86	2.2	70-130	20	12/04/2013 0940
Ethanol	5000	4000		1	80	4.5	60-140	20	12/04/2013 0940
Ethylbenzene	50	48		1	97	0.13	70-130	20	12/04/2013 0940
Ethyl-tert-butyl ether (ETBE)	50	44		1	88	2.4	70-130	20	12/04/2013 0940
Methyl tertiary butyl ether (MTBE)	50	44		1	88	1.0	70-130	20	12/04/2013 0940
Naphthalene	50	35		1	71	0.00	70-130	20	12/04/2013 0940
tert-butyl alcohol (TBA)	1000	780		1	78	2.9	70-130	20	12/04/2013 0940
Toluene	50	46		1	93	1.1	70-130	20	12/04/2013 0940
Xylenes (total)	100	94		1	94	1.0	70-130	20	12/04/2013 0940

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		92	70-130
1,2-Dichloroethane-d4		84	70-130
Toluene-d8		95	70-130

Volatile Organic Compounds by GC/MS - MB

Sample ID: OQ35753-001
Batch: 35753
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	12/04/2013 2238
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	12/04/2013 2238
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	12/04/2013 2238
Toluene	ND		1	5.0	1.7	ug/L	12/04/2013 2238

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		87	70-130
Toluene-d8		102	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ35753-002
Batch: 35753
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Diisopropyl ether (IPE)	50	45		1	90	70-130	12/04/2013 2113
Methyl tertiary butyl ether (MTBE)	50	45		1	90	70-130	12/04/2013 2113
tert-butyl alcohol (TBA)	1000	820		1	82	70-130	12/04/2013 2113
Toluene	50	51		1	103	70-130	12/04/2013 2113

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		86	70-130
Toluene-d8		100	70-130

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: OQ35753-003
Batch: 35753
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Diisopropyl ether (IPE)	50	45		1	90	0.47	70-130	20	12/04/2013 2134
Methyl tertiary butyl ether (MTBE)	50	46		1	92	2.0	70-130	20	12/04/2013 2134
tert-butyl alcohol (TBA)	1000	830		1	83	1.6	70-130	20	12/04/2013 2134
Toluene	50	50		1	100	2.3	70-130	20	12/04/2013 2134

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		86	70-130
Toluene-d8		99	70-130

Volatile Organic Compounds by GC/MS - MB

Sample ID: OQ35779-001
Batch: 35779
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	12/05/2013 1257
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	12/05/2013 1257
Benzene	ND		1	5.0	0.20	ug/L	12/05/2013 1257

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: OQ35779-001
Batch: 35779
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	12/05/2013 1257
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	12/05/2013 1257
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	12/05/2013 1257
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	12/05/2013 1257
Ethanol	ND		1	1000	33	ug/L	12/05/2013 1257
Ethylbenzene	ND		1	5.0	1.7	ug/L	12/05/2013 1257
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	12/05/2013 1257
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	12/05/2013 1257
Naphthalene	ND		1	5.0	1.7	ug/L	12/05/2013 1257
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	12/05/2013 1257
Toluene	ND		1	5.0	1.7	ug/L	12/05/2013 1257
Xylenes (total)	ND		1	5.0	1.7	ug/L	12/05/2013 1257

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		94	70-130
1,2-Dichloroethane-d4		87	70-130
Toluene-d8		102	70-130

Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ35779-002
Batch: 35779
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	870		1	87	70-130	12/05/2013 1132
tert-Amyl methyl ether (TAME)	50	45		1	91	70-130	12/05/2013 1132
Benzene	50	42		1	85	70-130	12/05/2013 1132
tert-Butyl formate (TBF)	250	210		1	85	70-130	12/05/2013 1132
1,2-Dichloroethane	50	44		1	88	70-130	12/05/2013 1132
Diisopropyl ether (IPE)	50	45		1	90	70-130	12/05/2013 1132
3,3-Dimethyl-1-butanol	1000	940		1	94	70-130	12/05/2013 1132
Ethanol	5000	4100		1	81	60-140	12/05/2013 1132
Ethylbenzene	50	53		1	105	70-130	12/05/2013 1132
Ethyl-tert-butyl ether (ETBE)	50	46		1	93	70-130	12/05/2013 1132
Methyl tertiary butyl ether (MTBE)	50	45		1	89	70-130	12/05/2013 1132
Naphthalene	50	38		1	77	70-130	12/05/2013 1132
tert-butyl alcohol (TBA)	1000	880		1	88	70-130	12/05/2013 1132
Toluene	50	51		1	102	70-130	12/05/2013 1132

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ35779-002
Batch: 35779
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Xylenes (total)	100	100		1	102	70-130	12/05/2013 1132

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		94	70-130
1,2-Dichloroethane-d4		84	70-130
Toluene-d8		101	70-130

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: OQ35779-003
Batch: 35779
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	860		1	86	1.2	70-130	20	12/05/2013 1153
tert-Amyl methyl ether (TAME)	50	45		1	90	1.6	70-130	20	12/05/2013 1153
Benzene	50	42		1	84	1.6	70-130	20	12/05/2013 1153
tert-Butyl formate (TBF)	250	210		1	82	3.4	70-130	20	12/05/2013 1153
1,2-Dichloroethane	50	43		1	87	2.0	70-130	20	12/05/2013 1153
Diisopropyl ether (IPE)	50	44		1	89	1.6	70-130	20	12/05/2013 1153
3,3-Dimethyl-1-butanol	1000	930		1	93	0.71	70-130	20	12/05/2013 1153
Ethanol	5000	4200		1	85	4.1	60-140	20	12/05/2013 1153
Ethylbenzene	50	51		1	103	2.3	70-130	20	12/05/2013 1153
Ethyl-tert-butyl ether (ETBE)	50	46		1	91	1.7	70-130	20	12/05/2013 1153
Methyl tertiary butyl ether (MTBE)	50	45		1	90	0.84	70-130	20	12/05/2013 1153
Naphthalene	50	40		1	80	4.6	70-130	20	12/05/2013 1153
tert-butyl alcohol (TBA)	1000	860		1	86	2.1	70-130	20	12/05/2013 1153
Toluene	50	49		1	99	3.0	70-130	20	12/05/2013 1153
Xylenes (total)	100	100		1	100	2.0	70-130	20	12/05/2013 1153

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		86	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: OQ35779-001
Batch: 35779
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	12/05/2013 1257
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	12/05/2013 1257
Benzene	ND		1	1.0	0.13	ug/L	12/05/2013 1257
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	12/05/2013 1257
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	12/05/2013 1257
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	12/05/2013 1257
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	12/05/2013 1257
Ethanol	ND		1	1000	33	ug/L	12/05/2013 1257
Ethylbenzene	ND		1	1.0	0.33	ug/L	12/05/2013 1257
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	12/05/2013 1257
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	12/05/2013 1257
Naphthalene	ND		1	1.0	0.40	ug/L	12/05/2013 1257
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	12/05/2013 1257
Toluene	ND		1	1.0	0.33	ug/L	12/05/2013 1257
Xylenes (total)	ND		1	1.0	0.33	ug/L	12/05/2013 1257

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		94	70-130
1,2-Dichloroethane-d4		87	70-130
Toluene-d8		102	70-130

Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ35779-002
Batch: 35779
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	870		1	87	70-130	12/05/2013 1132
tert-Amyl methyl ether (TAME)	50	45		1	91	70-130	12/05/2013 1132
Benzene	50	42		1	85	70-130	12/05/2013 1132
tert-Butyl formate (TBF)	250	210		1	85	70-130	12/05/2013 1132
1,2-Dichloroethane	50	44		1	88	70-130	12/05/2013 1132
Diisopropyl ether (IPE)	50	45		1	90	70-130	12/05/2013 1132
3,3-Dimethyl-1-butanol	1000	940		1	94	70-130	12/05/2013 1132
Ethanol	5000	4100		1	81	60-140	12/05/2013 1132
Ethylbenzene	50	53		1	105	70-130	12/05/2013 1132
Ethyl-tert-butyl ether (ETBE)	50	46		1	93	70-130	12/05/2013 1132
Methyl tertiary butyl ether (MTBE)	50	45		1	89	70-130	12/05/2013 1132

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ35779-002
Batch: 35779
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Naphthalene	50	38		1	77	70-130	12/05/2013 1132
tert-butyl alcohol (TBA)	1000	880		1	88	70-130	12/05/2013 1132
Toluene	50	51		1	102	70-130	12/05/2013 1132
Xylenes (total)	100	100		1	102	70-130	12/05/2013 1132

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		94	70-130
1,2-Dichloroethane-d4		84	70-130
Toluene-d8		101	70-130

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: OQ35779-003
Batch: 35779
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	860		1	86	1.2	70-130	20	12/05/2013 1153
tert-Amyl methyl ether (TAME)	50	45		1	90	1.6	70-130	20	12/05/2013 1153
Benzene	50	42		1	84	1.6	70-130	20	12/05/2013 1153
tert-Butyl formate (TBF)	250	210		1	82	3.4	70-130	20	12/05/2013 1153
1,2-Dichloroethane	50	43		1	87	2.0	70-130	20	12/05/2013 1153
Diisopropyl ether (IPE)	50	44		1	89	1.6	70-130	20	12/05/2013 1153
3,3-Dimethyl-1-butanol	1000	930		1	93	0.71	70-130	20	12/05/2013 1153
Ethanol	5000	4200		1	85	4.1	60-140	20	12/05/2013 1153
Ethylbenzene	50	51		1	103	2.3	70-130	20	12/05/2013 1153
Ethyl-tert-butyl ether (ETBE)	50	46		1	91	1.7	70-130	20	12/05/2013 1153
Methyl tertiary butyl ether (MTBE)	50	45		1	90	0.84	70-130	20	12/05/2013 1153
Naphthalene	50	40		1	80	4.6	70-130	20	12/05/2013 1153
tert-butyl alcohol (TBA)	1000	860		1	86	2.1	70-130	20	12/05/2013 1153
Toluene	50	49		1	99	3.0	70-130	20	12/05/2013 1153
Xylenes (total)	100	100		1	100	2.0	70-130	20	12/05/2013 1153

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		86	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - MB

Sample ID: OQ35763-001 **Matrix:** Aqueous
Batch: 35763 **Prep Method:** 8011
Analytical Method: 8011 **Prep Date:** 12/05/2013 949

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	12/05/2013 2335

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		102	57-137

EDB & DBCP by Microextraction - LCS

Sample ID: OQ35763-002 **Matrix:** Aqueous
Batch: 35763 **Prep Method:** 8011
Analytical Method: 8011 **Prep Date:** 12/05/2013 949

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.30		1	120	60-140	12/05/2013 2345

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		103	57-137

EDB & DBCP by Microextraction - MB

Sample ID: OQ35765-001 **Matrix:** Aqueous
Batch: 35765 **Prep Method:** 8011
Analytical Method: 8011 **Prep Date:** 12/05/2013 949

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	12/06/2013 0352

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		82	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - LCS

Sample ID: OQ35765-002 **Matrix:** Aqueous
Batch: 35765 **Prep Method:** 8011
Analytical Method: 8011 **Prep Date:** 12/05/2013 949

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.29		1	116	60-140	12/06/2013 0402

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		101	57-137

EDB & DBCP by Microextraction - MS

Sample ID: OL03014-026MS **Matrix:** Aqueous
Batch: 35765 **Prep Method:** 8011
Analytical Method: 8011 **Prep Date:** 12/05/2013 949

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.24	0.26		1	108	60-140	12/06/2013 0556

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		110	57-137

EDB & DBCP by Microextraction - MSD

Sample ID: OL03014-026MD **Matrix:** Aqueous
Batch: 35765 **Prep Method:** 8011
Analytical Method: 8011 **Prep Date:** 12/05/2013 949

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.24	0.28		1	118	6.5	60-140	20	12/06/2013 0606

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		118	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

SHEALY

Chain of Custody Record

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Number 26767

Client: Midlands Environmental	Report to Contact: B. Shane	Sampler (Printed Name): Ryan Ariail	Quote No.
Address: 231 Dooley Rd.	Telephone No. / Fax No. / Email: 808-2043/808-2048/JLC@mcci.net	Waybill No.	Page 1 of 4
City: Lexington State: SC Zip Code: 29073	Preservative: 1. Unpres 2. NaOH/ZnA 3. H2SO4 4. HNO3 5. HCL 6. NaThio 7. NaOH		Number of Containers
Project Name: McGill Grocery			Bottle (See instructions on back)
Project Number: 13-4649	P.O. Number		Preservative
			Lot No. 0L03014

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix: GW	DW	WW	S	Oil	Analysis: Btex, Naphth, MTBE	1,2 DCA	8 Oxys	EDB	Remarks / Cooler ID
MW-1	12/2/13	1249	G	X					X	X	X	X	odor
MW-2	↓	1355	↓	↓					↓	↓	↓	↓	odor
MW-3	↓	1345	↓	↓					↓	↓	↓	↓	odor
MW-4	↓	1318	↓	↓					↓	↓	↓	↓	slight odor
MW-5	↓	1206	↓	↓					↓	↓	↓	↓	no odor
MW-6	↓	1148	↓	↓					↓	↓	↓	↓	no odor
MW-7	↓	1111	↓	↓					↓	↓	↓	↓	no odor
~~MW-8~~	↓	~~DRY~~	↓	↓					↓	↓	↓	↓	~~Dry well~~
MW-9	↓	1050	↓	↓					↓	↓	↓	↓	NO EDB 1 VOA Only — no odor
MW-10	12/2/13	1402	G	X					X	X	X	X	NO EDB 1 VOA only — no odor

Turn Around Time Required (Prior lab approval required for expedited TAT): X Standard ☐ Flash (Please Specify)

Sample Disposal: ☐ Return to Client X Disposal by Lab

QC Requirements (Specify)

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

	Date	Time		Date	Time
1. Relinquished by / Sampler: [signature]	12/2/13	1630	1. Received by: [signature]	12/2/13	1630
2. Relinquished by: [signature]	12/2/13	16:58	2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory Received by: [signature]	12-2-13	16:58

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

LAB USE ONLY: Received on Ice (Check) ☐ Yes ☐ No ☐ Ice Pack — Receipt Temp. 1 °C — Temp. Blank ☐ Y ☐ N

SHEALY

Chain of Custody Record

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Number 26768

Client: Midlands Environmental	Report to Contact: B. Shane	Sampler (Printed Name): Ryan Ariail	Quote No.
Address: 231 Dooley Rd.	Telephone No. / Fax No. / Email: 808-2043 / 808-2048 / jlc@mwc.net	Waybill No.	Page 2 of 4
City: Lexington; State: SC; Zip Code: 29073	Preservative: 1. Unpres. 2. NaOH/ZnA 3. H2SO4 4. HNO3 5. HCL 6. Na Thio. 7. NaOH		Number of Containers: 3 / A / 5
Project Name: McGill Grocery			Bottle (See Instructions on back): 3 / A / 5
Project Number: 13-4649	P.O. Number		Preservation
			Lot No.: OL0304

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G/C Composite	Matrix: GW	DW	WW	S	Other	Analysis	Btex, Naphtha, MTBE	1,2 DCA	8 Oxy's	EDB	Remarks / Cooler ID
MW-11	12/2/13	1350	G	X						X	X	X	X	odor
MW-12	↓	1150	↓	↓						↓	↓	↓	↓	no odor
MW-13	↓	1202	↓	↓						↓	↓	↓	↓	no odor
MW-14	↓	1250	↓	↓						↓	↓	↓	↓	slight odor
MW-15	↓	1028	↓	↓						↓	↓	↓	↓	no odor
MW-16	↓	1108	↓	↓						↓	↓	↓	↓	no odor
MW-17	↓	1055	↓	↓						↓	↓	↓	↓	no odor
MW-18	↓	1043	↓	↓						↓	↓	↓	↓	no odor
MW-19D	↓	1145	↓	↓						↓	↓	↓	↓	no odor
MW-20D	12/2/13	1228	G	X						X	X	X	X	no odor

Turn Around Time Required (Prior lab approval required for expedited TAT): X Standard ☐ Rush (Please Specify)

Sample Disposal: ☐ Return to Client X Disposal by Lab

QC Requirements (Specify)

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

	Date	Time		Date	Time
1. Relinquished by Sampler: [signature]	12/2/13	1630	1. Received by: [signature]	12/2/12	1630
2. Relinquished by: [signature]	12/2/13	16:58	2. Received by:		
3. Relinquished by:			3. Received by:		
4. Relinquished by:			4. Laboratory Received by: [signature]	12 13	1655

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

LAB USE ONLY (Received on Ice (Check)) ☐ Yes ☐ No ☐ Ice Pack Receipt Temp 2.0 °C Temp Blank ☐ Y ☐ N

SHEALY

Chain of Custody Record

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Number 26769

Client: Midlands Environmental	Report to Contact: B. Shane	Sampler (Printed Name): Ryan Ariail	Quote No.
Address: 231 Dooley Rd.	Telephone No. / Fax No. / Email: 808-2043/808-2048/JLC@mcci.net	Waybill No.	Page 3 of 4
City: Lexington State: SC Zip Code: 29073	Preservative: 1. Unpres. 2. NaOH/ZnA 3. H2SO4 4. HNO3 5. HCL 6. Na Thio 7. NaOH		Number of Containers
Project Name: McGill Grocery			Bottle (See Instructions on back)
Project Number: 13-4649	P.O. Number		Preservative
			Lot No. 0L03014

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	S=Grab C=Composite	Matrix: GW	DW	WW	S	Other	Analysis: Btex, Naphth, MTBE	1,2 DCA	8 Oxy's	EDB	Remarks / Cooler ID
MW-21D	12/2/13	1343	G	X					X	X	X	X	no odor
MW-22D	↓	1300	↓	↓					↓	↓	↓	↓	no odor
MW-23D		1128											no odor
MW-24D		1030											no odor
RW-1		1330		↓									odor
RW-2		1243		X									odor
~~WSW-1~~		~~NS~~			X								~~No Power / Not Sampled~~
WSW-4		1408			↓								1 ppb - low detects
WSW-6	↓	1015	↓		↓				↓	↓	↓	↓	1 ppb - low detects
WSW-7	12/2/13	1000	G		X				X	X	X	X	1 ppb - low detects

Turn Around Time Required (Prior lab approval required for expedited TAT): ☒ Standard ☐ Rush (Please Specify)

Sample Disposal: ☐ Return to Client ☒ Disposal by Lab

QC Requirements (Specify):

Possible Hazard Identification: ☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

	Date	Time		Date	Time
1. Relinquished by (Sampler) [signature]	12/2/13	1630	1. Received by [signature]	12/2/13	1630
2. Relinquished by [signature]	12/2/13	16:58	2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory Received by [signature]	12/2/13	1658

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

LAB USE ONLY: Received on Ice (Check) ☒ Yes ☐ No ☐ Ice Pack — Receipt Temp. 0 °C — Temp. Blank ☐ Y / ☐ N

SHEALY

Chain of Custody Record

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Number 26770

Client: Midlands Environmental	Report to Contact: B. Shane	Sampler (Printed Name): Ryan Ariail	Quote No
Address: 231 Dooley Rd.	Telephone No. / Fax No. / Email: 808-2043/808-2048/JLC@meci.net	Waybill No.	Page 4 of 4
City: Lexington State: SC Zip Code: 29073	Preservative: 1. Unpres 2. NaOH/ZnA 3. H2SO4 4. HNO3 5. HCL 6. Na Thio. 7. NaOH		Number of Containers
Project Name: McGill Grocery			Bottle (See instructions on back)
Project Number: 13-4649	P.O. Number		Preservative
			Lot No: 0603014

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G Grab / C Composite	Matrix: GW	DW	WW	S	Other	Analysis	Btex, Naphtha, Mtbe	1,2 DCA	8 Oxy's	EDB	Remarks / Cooler ID
										3			3	
										A			A	
										5			5	
WSW-9	12/2/13	1220	G		X					X	X	X	X	1ppb - Low detects
WSW-10	↓	1420	↓		X					↓	↓	↓	↓	1ppb - Low detects
MW-1 Duplicate	↓	1249	↓	X						↓	↓	↓	↓	odor
MW-11 Duplicate	↓	1350	↓	X						↓	↓	↓	↓	odor
Field Blank	↓	1400	↓					X		↓	↓	↓	X	no odor
Trip Blank	12/2/13	1208	G					X		X	X	X		no odor

Turn Around Time Required (Prior lab approval required for expedited TAT): ☒ Standard ☐ Rush (Please Specify)

Sample Disposal: ☐ Return to Client ☒ Disposal by Lab

QC Requirements (Specify):

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

	Date	Time		Date	Time
1. Relinquished by / Sampler: [signature]	12/2/13	1630	1. Received by: [signature]	12/2/13	1630
2. Relinquished by: [signature]	12/2/13	16:58	2. Received by: [signature]		
3. Relinquished by:			3. Received by:		
4. Relinquished by:			4. Laboratory Received by: [signature]	12/2/13	1658

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

LAB USE ONLY: Received on Ice (Check) ☐ Yes ☒ No ☐ Ice Pack — Receipt Temp 1.0 °C — Temp Blank ☐ Y / ☐ N

SHEALY ENVIRONMENTAL SERVICES, INC.

Document Number: F-AD-015
Revision Number: 13

Page 1 of 1
Replaces Date: 09/24/13
Effective Date: 09/26/13

Sample Receipt Checklist (SRC)

Client: MKCI Cooler Inspected by/date: ECC 12/3/13 Lot #: OL03014

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐		2. If custody seals were present, were they intact and unbroken?

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:
12K / 1.3 / 1.0 °C / / (Trip Blank) / °C / / °C

Method: ☐ Temperature Blank ☑ Against Bottles IR Gun ID: #3 IR Gun Correction Factor: -0.3 °C

Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____. (For coolers received via commercial courier, PMs are to be notified immediately.
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 ☐	NA ☑	5a Were samples relinquished by client to commercial courier?
Yes ☑	No ☐		6. Were sample IDs listed?
Yes ☑	No ☐		7. Was collection date & time listed?
Yes ☑	No ☐		8. Were tests to be performed listed on the COC?
Yes ☑	No ☐		9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with COC?
Yes ☑	No ☐		11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		12. Was adequate sample volume available?
Yes ☑	No ☐		13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		14. Were any samples containers missing?
Yes ☐	No ☑		15. Were there any excess samples not listed on COC?
Yes ☑	No ☐	NA ☐	16. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?

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

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO_3, HCl, NaOH) with the SR # (number) -034(2)

Sample(s) -001(5), -028(1), -031(3) were received with bubbles >6 mm in diameter.

Sample(s) _____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/phenol

Sample labels verified by: _____ Date: 12/3/13

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐ Did client respond: Yes ☐ No ☐

SESI employee: _____ Date of response: _____

Comments: _____

APPENDIX C:

TAX MAP

(Not Applicable)

APPENDIX D:

SOIL BORING/FIELD SCREENING LOGS & 1903 FORMS

(Not Applicable)

APPENDIX E:

WELL COMPLETION LOGS & 1903 FORMS

(Not Applicable)

APPENDIX F:

AQUIFER EVALUATION SUMMARY FORMS, DATA, GRAPHS, EQUATIONS

(Not Applicable)

APPENDIX G:

DISPOSAL MANIFEST

Midlands
Environmental
Consultants, Inc.

December 13, 2013

Re: Treatment of Purge Water
McGill Grocery
Iva, South Carolina
SCDHEC Site ID Number 19440
MECI Project Number 13-4649

To Whom it May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

All purge waters were treated on-site using an up-flow treatment drum loaded with 30 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

A total of 96.75 gallons were treated at the referenced site during the December 2, 2013 groundwater sampling event.

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,
Midlands Environmental Consultants, Inc.

Jeff L. Coleman
Senior Scientist

APPENDIX H:
LOCAL ZONING REGULATIONS
(Not Applicable)

APPENDIX I:

FATE AND TRANSPORT MODELING

(Not Applicable)

APPENDIX J:

ACCESS AGREEMENTS

(Not Applicable)

APPENDIX K:
DATA VERIFICATION CHECKLIST

Contractor Checklist

Item#	Item	Yes	No	N/A
1	Are 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? (Table 2 & Figure 5)	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? (Appendix B)	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? (Tables 3 & 3A)	X		
35	Have the aquifer characteristics been provided and summarized on the appropriate form? (Appendix F)			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? (Figures 4, 4A, 4B, 4C)	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 E)			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? (Appendix K)	X		

D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

JAN 06 2014

MR HOWARD BURTON
1102 JETS LANDING ROAD
ABBEVILLE SC 29620

UST 26 tech DOCKETING

Re: **Water Supply Well Status Inquiry (WSW-9)**
McGill Grocery
Lake Secession Road, Iva, SC 29655
UST Permit # 19440; Tax Map Parcel # 045-00-00-084
Release Reported January 28, 2009
Groundwater Monitoring Report Received December 20, 2013
Abbeville County

Dear Mr. Burton:

The Underground Storage Tank (UST) Management Division (Division) of the South Carolina Department of Health and Environmental Control (Agency) recently directed Midlands Environmental Consultants, Inc., to conduct groundwater sampling activities associated with the petroleum release from the former McGill Grocery site. In recent discussion with Midlands Environmental Consultants, I was notified of your interest in having water supply well WSW-9 properly sealed. If you have no plans to use this well and wish for the Agency to have the well properly sealed by a S.C. certified well driller, please indicate this using the attached form. Should you wish to have the well closed, there will be no cost to you. Please return this form to the Agency on or before Friday, January 17, 2014.

If you have any questions regarding this correspondence, please contact me at (803) 898-0607 or by e-mail at ShullSS@dhec.sc.gov.

Sincerely,

Shane S. Shull, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management

enc: Water Supply Well Form, Site Map

cc: Technical File (w/ enc)

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

UST MANAGEMENT DIVISION
BUREAU OF LAND AND WASTE MANAGEMENT
2600 Bull Street
Columbia SC 29201

Permit # : **19440**

WATER SUPPLY WELL INFORMATION FORM

Name of Facility (if appropriate) : Fromer McGill Grocery (Howard Burton Property)

Tax Map Parcel # : 045-00-00-084

Street Address : Lake Secession Road

City, State, ZIP : Iva, SC 29655

Phone number: _____

1. There is a water supply well located on the above listed property.
   Yes No
2. The water supply well is currently in use.
   Yes No
3. The water supply well is used as a source of drinking water.
   Yes No
4. The water supply well is used for irrigation.
   Yes No
5. Is electricity currently connected to the well? Yes No
6. The depth of the water supply well is _____ feet.
7. The diameter of the water supply well is _____ inches.

8. Please list any other important information about the water supply well of which the Department should be aware (e.g. well is located in fenced area, pets present, used for filling swimming pool, etc.).

_____

_____

_____

_____

9. I wish to voluntarily have the water supply well properly abandoned (sealed) by a S.C. certified well driller. I understand that this work will be performed at no cost to me. I grant access to SCDHEC and its contractor to conduct this abandonment.

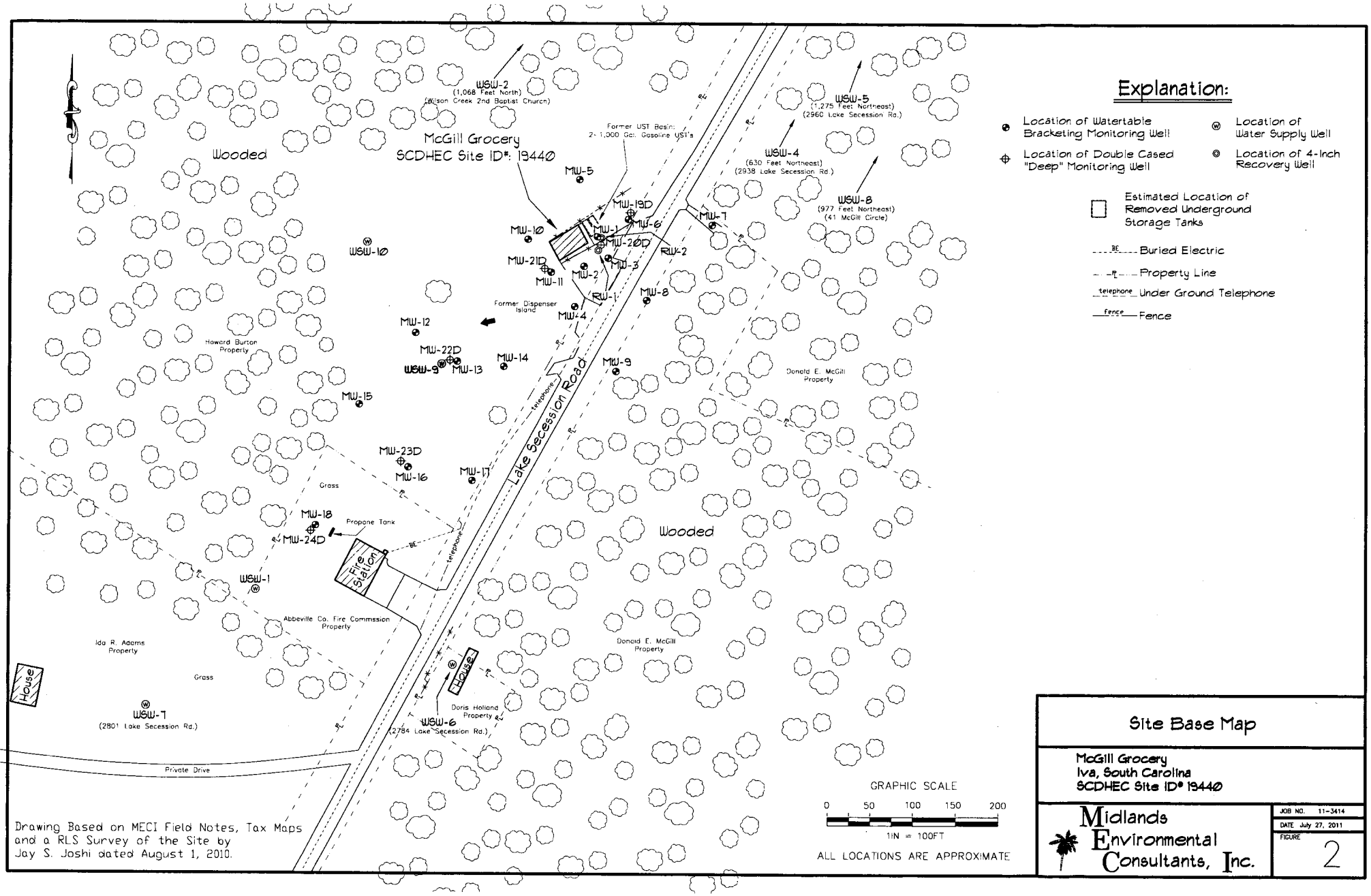
Yes **No**

Signature: _____

Name (please print): _____

Witness: _____

Date: _____



Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Water Supply Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 4-Inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks
- BE — Buried Electric
- PL — Property Line
- telephone — Under Ground Telephone
- fence — Fence

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

Site Base Map

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 11-3414
DATE July 27, 2011
FIGURE 2

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

UST MANAGEMENT DIVISION
BUREAU OF LAND AND WASTE MANAGEMENT
2600 Bull Street
Columbia SC 29201

Permit # : **19440**

UST Shane JAN 16 2014 DIVISION

WATER SUPPLY WELL INFORMATION FORM

Name of Facility (if appropriate) : Fromer McGill Grocery (Howard Burton Property)

Tax Map Parcel # : 045-00-00-084

Street Address : Lake Secession Road

City, State, ZIP : Iva, SC 29655

Phone number: 864-446-7057 or 933-5421

UST JTech DOCKETING

1. There is a water supply well located on the above listed property.
   (Yes) No
2. The water supply well is currently in use.
   Yes (No)
3. The water supply well is used as a source of drinking water.
   Yes (No)
4. The water supply well is used for irrigation.
   Yes (No)
5. Is electricity currently connected to the well? Yes (No)
6. The depth of the water supply well is 60 feet.
7. The diameter of the water supply well is 24 inches.

8. Please list any other important information about the water supply well of which the Department should be aware (e.g. well is located in fenced area, pets present, used for filling swimming pool, etc.).

9. I wish to voluntarily have the water supply well properly abandoned (sealed) by a S.C. certified well driller. I understand that this work will be performed at no cost to me. I grant access to SCDHEC and its contractor to conduct this abandonment.

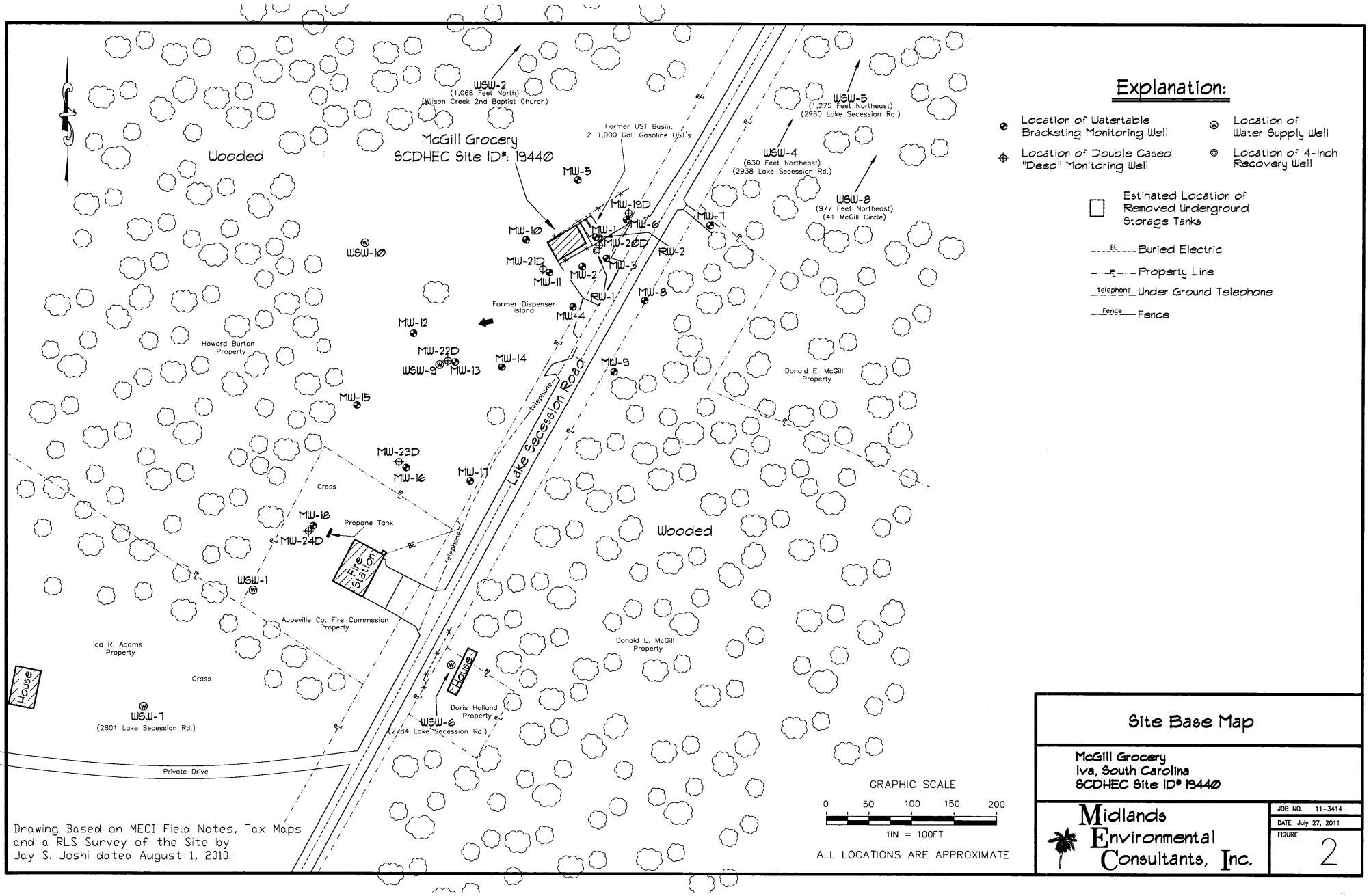
(Yes) No

Signature: Howard Burton

Name (please print): Howard S. Burton

Witness: Edna S Burton

Date: 1-13-14



Site Base Map

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 11-3414
DATE July 27, 2011
FIGURE 2

D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

MS DIANA MCMAHAN
ESTATE OF DONALD E MCGILL
PO BOX 41
IVA SC 29655

JAN 27 2014

UST 28tech DOCKETING

Re: **Water Supply Well Abandonment Directive**
McGill Grocery
Lake Secession Road, Iva, SC 29655
UST Permit # 19440, CA # 47325
Release Reported January 28, 2009
Water Supply Well Information Form Received January 16, 2014

Dear Ms. McMahan:

On January 16, 2014, The Underground Storage Tank Management Division (UST Division) received the referenced Water Supply Well Information Form, indicating the property owner's desire to have HIS water supply well (WSW-9) properly abandoned. This water supply well is located on the Howard Burton Property, Abbeville County tax map parcel # 045-00-00-084. Cost Agreement # 47325 has been approved in the amount shown on the enclosed cost agreement form for the abandonment of WSW-9. Abandonment activities may proceed upon receipt of this letter. The well must be properly abandoned in accordance with the South Carolina Well Standards and Regulations (R. 61-71).

Midlands Environmental Consultants, Inc., may submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the well abandonment and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

An abandonment report and invoice are due within 60 days from the date of this letter. Interim invoices may not be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the UST Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the UST Division for the cost to be paid. The 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.

On all correspondence related to this facility, please reference the UST Permit # 19440 and CA # 47325. If you have any questions, please contact me at (803) 898-0607 or by e-mail at ShullSS@dhec.sc.gov.

Sincerely,

Shane S. Shull, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Cost Agreement

cc: Midlands Environmental Consultants, Inc., P.O. Box 854, Lexington, SC 29071 (w/ enc)
Mr. Howard Burton, 1102 Jets Landing Road, Abbeville, SC 29620 (w/o enc)
Technical File (w/ enc)

Approved Cost Agreement 47325

Facility: 19440 MCGILL GROCERY
SHULLSS
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB						
		A1	EQUIPMENT	1.0000	1,020.00	1,020.00
		B1	PERSONNEL	1.0000	423.00	423.00
08 ABANDONMENT						
		C1	DUG/BORED WELL (UP TO 6 FT)	60.0000	15.00	900.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PERC	REPORT PREPARATION	0.1000	2,343.00	234.30
				Total Amount		2,577.30

Midlands Environmental Consultants, Inc.

April 16, 2012

UST
FEB 2 8 2014
DIVISION

UST
DOCKETING

Mr. Joel Padgett, P.G., Hydrogeologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Aggressive Fluid Vapor Recovery Report
McGill Grocery
Iva, South Carolina
SCDHEC Site ID # 19440; CA # 43183
MECI Project Number 12-3836B
Certified Site Rehabilitation Contractor UCC-009

Dear Mr. Padgett,

On behalf of Ms. Diana McMahan Personal Representative for the Estate of Donald McGill, Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at McGill Grocery on April 3, 2012. The event was conducted on monitoring wells MW-1, RW-1, and RW-2 reduce dissolved CoC concentrations. Free phase petroleum product was not detected in monitoring wells MW-1, RW-1, and RW-2 prior to the event. The event was conducted continuously for eight hours by MECI personnel utilizing a vacuum extraction unit. Free phase petroleum product was not detected in the wells immediately following the event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the well were 14.95 pounds or approximately 2.58 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 1.87 pounds per hour. Concentrations of off gas produced during the event were recorded from 618 parts per million by volume (PPM) to 1,968 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range of 10.0 to 20.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1B.

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2B. Monitoring well locations are depicted on attached Figure 1.

A total of 150 gallons of liquid was removed from MW-1, RW-1, and RW-2 during this event. Free phase petroleum product was not observed in the holding tank at the end of the event. The fluids produced were transported to TK Tank Services of Sumter, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by Ms. Diana McMahan Personal Representative for the Estate of Donald McGill, MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Courtney M. Sanders
Staff Biologist

Brendon P. Kelly for
Project Scientist

Attachments:

TABLE 1B
AFVR MONITORING DATA
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 12-3836B
SCDHEC SITE ID NUMBER 19440

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements				
					Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM	Removal Rate Lbs/Hr	Interval Removal Lbs
MW-1	04/03/12	8:00	0.50	10.0	1,602	2,020	181.80	3.49	1.75
RW-1	04/03/12	8:30	0.50	10.0	1,296	2,000	180.00	2.80	1.40
RW-2	04/03/12	9:00	0.50	10.0	1,053	1,980	178.20	2.25	1.13
	04/03/12	9:30	0.50	10.0	962	2,010	180.90	2.09	1.04
	04/03/12	10:00	0.50	10.0	618	2,030	182.70	1.35	0.68
	04/03/12	10:30	0.50	10.0	715	1,040	93.60	0.80	0.40
	04/03/12	11:00	0.50	10.0	625	2,020	181.80	1.36	0.68
	04/03/12	11:30	0.50	15.0	1,759	1,480	133.20	2.81	1.41
	04/03/12	12:00	0.50	15.0	1,361	1,500	135.00	2.20	1.10
	04/03/12	12:30	0.50	15.0	980	1,490	134.10	1.58	0.79
	04/03/12	13:00	0.50	15.0	853	1,520	136.80	1.40	0.70
	04/03/12	13:30	0.50	15.0	621	1,540	138.60	1.03	0.52
	04/03/12	14:00	0.50	15.0	669	1,550	139.50	1.12	0.56
	04/03/12	14:30	0.50	20.0	1,968	820	73.80	1.74	0.87
	04/03/12	15:00	0.50	20.0	1,432	830	74.70	1.28	0.64
	04/03/12	15:30	0.50	20.0	1,590	800	72.00	1.37	0.69
	04/03/12	16:00	0.50	20.0	1,326	830	74.70	1.19	0.59
									TOTAL **14.95**

Well Data:			Pre AFVR Event			Post AFVR Event			Corrected Depth to Water Change (ft)
Well No.	Diameter (in)	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	
MW-1	2"	40-50	***	46.62	***	***	46.46	***	-0.16
RW-1	4"	30-50	***	46.94	***	***	46.62	***	-0.32
RW-2	4"	30-50	***	47.18	***	***	46.55	***	-0.63

Vacuum Truck Information		Well ID	Stinger Depth
Subcontrator:	MECI	MW-1	47.50
Truck Operator:	K. Pudney	RW-1	47.50
Stack I.D. (feet)	0.33 feet	RW-2	48.00

Recovery / Disposal Information

Hydro carbons Removed (vapor):	14.95	Pounds
Hydro carbons Removed (liquid):	0	Gallons
Total Hydrocarbons Removed:	2.58	Equivilant Gallons
Molecular Weight Utilized:	75	g / mole
Disposal Facility	TK Tank Services	
Total Liquids Removed:	150	Gallons

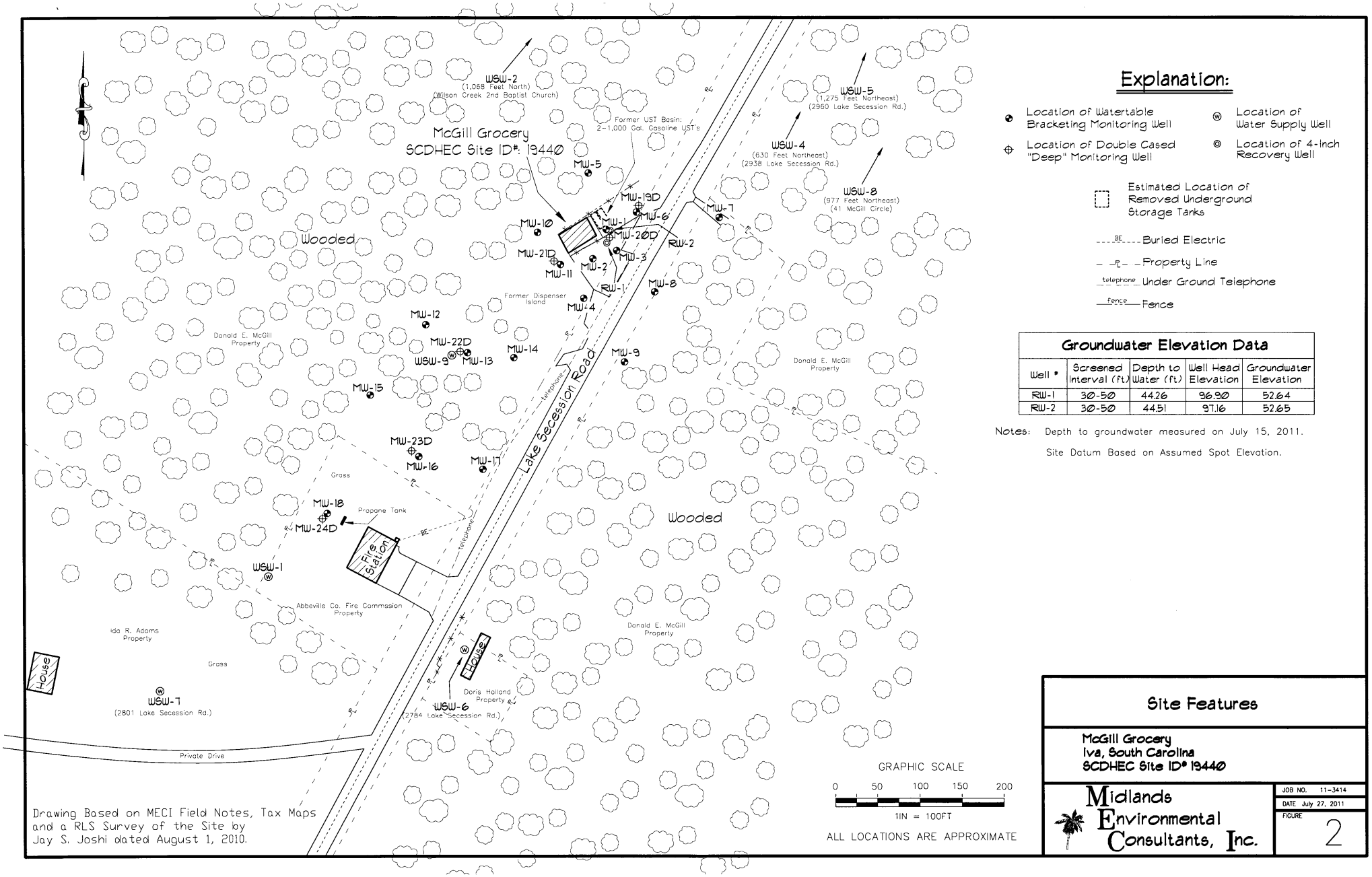
TABLE 2B
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 12-3836B
SCDHEC SITE ID NUMBER 19440

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-2	**MW-3**	**MW-6**
Nearest Extraction Well:		RW-1	RW-2	MW-1
Approximate Distance:		25 ft	25 ft	42 ft
Time	**Elapsed Time**	**Differential Pressure Readings (inches of water)**		
8:00	0.0	0.0	0.0	0.0
8:30	0.5	0.0	0.0	0.0
9:00	1.0	0.0	0.0	0.0
9:30	1.5	0.0	0.0	0.0
10:00	2.0	0.0	0.0	0.0
10:30	2.5	0.0	0.0	0.0
11:00	3.0	0.0	0.0	0.0
11:30	3.5	0.0	0.0	0.0
12:00	4.0	0.0	0.0	0.0
12:30	4.5	0.0	0.0	0.0
13:00	5.0	0.0	0.0	0.0
13:30	5.5	0.0	0.0	0.0
14:00	6.0	0.0	0.0	0.0
14:30	6.5	1.0	0.0	0.5
15:00	7.0	1.0	0.0	0.5
15:30	7.5	1.0	0.0	0.5
16:00	8.0	1.0	0.0	0.5
Maximum Change:		1.0	0.0	0.5

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW-2	**MW-3**	**MW-6**
Nearest Extraction Well:		RW-1	RW-2	MW-1
Approximate Distance:		25 ft	25 ft	42 ft
Time	**Elapsed Time**	**Depth to Liquid (feet below of casing):**		
Prior toAFVR		47.28	46.90	46.29
12:00	4 hours	47.35	47.06	46.36
16:00	8 hours	47.59	47.34	46.60
Maximum Change:		-0.31	-0.44	-0.31



Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

GRAPHIC SCALE

0 50 100 150 200

1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Water Supply Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 4-inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks
- BE — Buried Electric
- P — Property Line
- telephone — Under Ground Telephone
- fence — Fence

Groundwater Elevation Data

Well #	Screened Interval (ft)	Depth to Water (ft)	Well Head Elevation	Groundwater Elevation
RW-1	30-50	44.26	96.90	52.64
RW-2	30-50	44.51	97.16	52.65

Notes: Depth to groundwater measured on July 15, 2011.

Site Datum Based on Assumed Spot Elevation.

Site Features

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 11-3414
DATE July 27, 2011
FIGURE 2

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address

MIDLANDS ENVIRONMENTAL
1134 TWO NOTCH ROAD
LEXINGTON, SC 29072

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: TK TANK SERVICE — SUMTER, SC — U.S. EPA ID Number: 287573557

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address

TK TANK SERVICE
425 BOULEVARD ROAD
SUMTER, SC 29150

U.S. EPA ID Number: 287573557

Facility's Phone: 803-418-5314

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. NON HAZARDOUS PETROLEUM CONTAMINATED WATER		TT	2800	

SCDHEC Site	Permit Number	Gallons Produced
Chester School Bus Shop	02044	325
Chester School Bus Shop	02004	150
Thrifty Gas Mart	02010	200
TJ's Mart	11164	200
Donnie's Muffler	18955	175
EZ Stop Food Shop	14555	150
Cooley's Garage	00420	150
McGill Grocery	19440	150
Don D. Grant	02697	350
York County School Bus Shop	09164	50
Richland County Public Works	11805	300
Phillips Rental Property	19328	50
Former Gulf Station	18447	150
Winners Circle	10382	200
Winners Circle	10382	200

itely described above by the proper shipping name, and are classified, packaged, and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month — Day — Year

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	Signature	Month	Day	Year
Steve A. Gamble	Steve A. Gamble	4	16	12
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: 7516

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 — Signature — Month — Day — Year

RECEIVED
FEB 27 2014
SC Department of
Health and Environmental
Control

Midlands Environmental Consultants, Inc.

May 15, 2009

Mr. Arthur Shrader, Hydrogeologist
Assessment Section
Assessment and Corrective Action Division
Underground Storage Tank Program
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

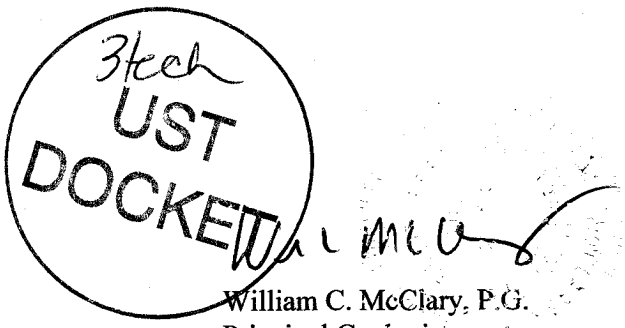
Subject: Initial Groundwater Assessment Report
McGill's Grocery
Lake Secession Road
Iva, South Carolina
SCDHEC Site ID# 19440, CA # 35406
MECI Project Number 09-2206

Dear Mr. Shrader,

On behalf of Ms. Diana McMahan, the personal representative for the Estate of Donald E. McGill, Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Initial Ground-Water Assessment (IGWA) Report for the referenced site. This report describes assessment activities conducted at the site, and results of an IGWA evaluation in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines. As outlined, please find attached well construction logs, laboratory data, topographic and site base maps, along with Disposal Manifests.

MECI appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at (803)-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.



Jeff L. Coleman
Project Scientist

William C. McClary, P.G.
Principal Geologist

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

INITIAL GROUND-WATER ASSESSMENT REPORT

Facility Name: McGill's Grocery
Facility Address: Lake Secession Road & McGill Circle
Facility Phone Number: N/A
UST Permit Number: 19440
UST Owner or Operator's Name: Estate of Donald E. McGill
Address:
Phone Number:
Property Owner's Name: Estate of Donald E. McGill (c/o Diana McMahan)
Address: 4320 Derry Clare Lane
Phone Number: 706-868-7204
Contractor: Midlands Environmental Consultants Cert. # 9
Address: 235 B Dooley Road, Lexington, SC 29073
Phone Number: 803-808-2043
Well Driller: Geologic Exploration Inc. (J. Hess) Cert. # 01929
Address: 176 Commerce Boulevard, Statesville, North Carolina 28625
Phone Number: 800-752-8853

Receptor and Site Data
Please place a check in the appropriate answer block for each question:

Receptor Survey Questions	No	Yes *
Is there a drinking water supply well (public or private) or surface water supply intake within 1000 feet of the UST?		X
Are irrigation or other non-drinking water wells located within 1000 feet of the UST?	X	
Are there other potential receptors (i.e., utilities, surface waters, wetlands) less than 500 feet from the UST?		X

*If "yes" provide additional information:
One water supply well (WSW-1) is located 450 feet southwest of the subject site at McGill Fire Station #3. WSW-2 is located 950 feet northeast at Wilson Creek 2nd Baptist Church. WSW-3 is located 830 feet southwest at 2801 Lake Secession Road. WSW-4 is located 750 feet northeast at 2938 Lake Secession Road. WSW-5 is located 1,100 feet northeast at 2960 Lake Secession Road. WSW-6 is located 1,300 feet south at 2784 Lake Secession Road
An unnamed tributary of Wilson Creek is located 600 feet West.
Buried Telephone lines are located along Lake Sucession Road.

Were any WSW's within 250 ft radius sampled? _____ Yes __X__ No
(Show on site base map)
Is a public water supply line in the area? _____ Yes __X__ No
(Show on site base map)
Is the current use of the site and surrounding properties commercial, residential, agricultural or industrial?

Site: Abandoned Adjacent Properties: Wooded/Residential

Soil and Boring/Monitoring Well Data

Primary Soil Type: Sandy SILT

Well Installation Method and Date: Augered 5/1/09

Development Method: Hand Bailed

Soil Sample obtained at 25-30 feet.

SOIL ANALYTICAL DATA

Benzene (ug/kg)	Toluene (ug/kg)	Ethylbenzene (ug/kg)	Total Xylenes (ug/kg)	Naphthalene (ug/kg)	Total PAH (ug/kg)
<666	**1,110**	**1,440**	**11,100**	**2,790**	**1,624**

Benzo(a)-anthracene (ug/kg)	Benzo(b)-fluoranthene (ug/kg)	Benzo(k)-fluoranthene (ug/kg)	Chrysene (ug/kg)	Dibenz(a,h)-anthracene (ug/kg)	Lead (mg/kg)
<452	<452	<452	<452	<452	**7.2**

*For waste oil UST releases only:

Chromium* (ug/kg)	Mercury* (ug/kg)	Selenium* (kg/ug)	Silver* (ug/kg)	Arsenic* (ug/kg)	Barium* (kg/ug)	Cadmium* (ug/kg)
NA	NA	NA	NA	NA	NA	NA

Include Laboratory Data and Chain of Custody Form in Appendix B.

Ground-Water Data:

Depth to Ground Water: 45.19 Depth to FP, if present: N/A

Free Product Thickness: N/A

Well Purging/Sampling Method: Hand Bailed (Dry at 1 Gallon)

Date Sampled: 5/5/2009

Equilibriated values: Temperature: 20.0 pH: 5.45

Dissolved Oxygen: 5.52 Conductivity: 255.7

Soil/Water Disposal Method: Waste Management - Richland County / Activated Carbon
*Include in Appendix D. Costs for work cannot be compensated without Manifests.

GROUND-WATER ANALYTICAL DATA

Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	MTBE (ug/l)	EDB (ug/l)	Naphthalene (ug/l)
7,780	**98,500**	**3,910**	**24,100**	**59,700**	**1.7**	<500

Benzo(a)-anthracene (ug/l)	Benzo(b)-fluoranthene (ug/l)	Benzo(k)-fluoranthene (ug/l)	Chrysene (ug/l)	Dibenz(a,h)-anthracene (ug/l)	Total PAH (ug/l)	Total Lead (ug/l)
<14.3	<14.3	<14.3	<14.3	<14.3	**38.1**	<5.0

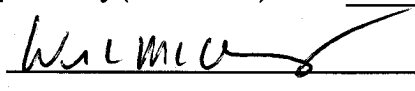
Filtered Lead (ug/l)
<5.0

*For waste oil UST releases only:

Chromium* (ug/l)	Mercury* (ug/l)	Selenium* (ug/l)	Silver* (ug/l)	Arsenic* (ug/l)	Barium* (ug/l)	Cadmium* (ug/l)
NA	NA	NA	NA	NA	NA	NA

Include Laboratory Data and Chain of Custody Form in Appendix B.

Report Completed By (Print Name): William C. McClary

Signature : 

Contractor Certification # 9 Date: 5/15/2009

Appendices

The appendices required for this report are as follows:

Appendix A. Well Construction Log

Appendix B. Laboratory Data

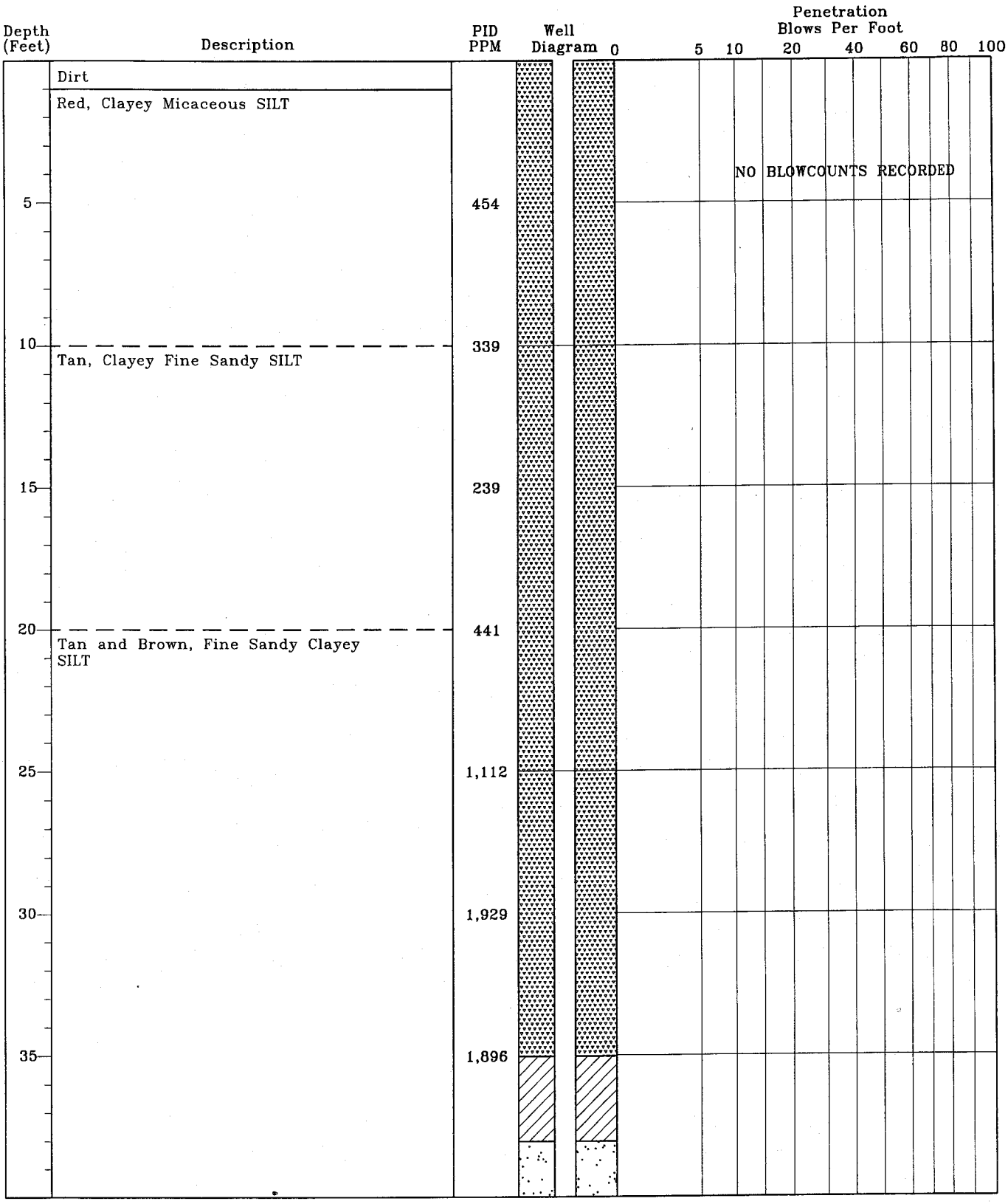
Appendix C. Maps (Topographic and Site Base)

Appendix D. Disposal Manifest(s). (Must be included for payment for SUPERB)

Appendix E. Additional Data (Property owner name, address, phone number for any water supply wells or surface water bodies sampled.)

Appendix F. Invoice Form (SUPERB payment only)

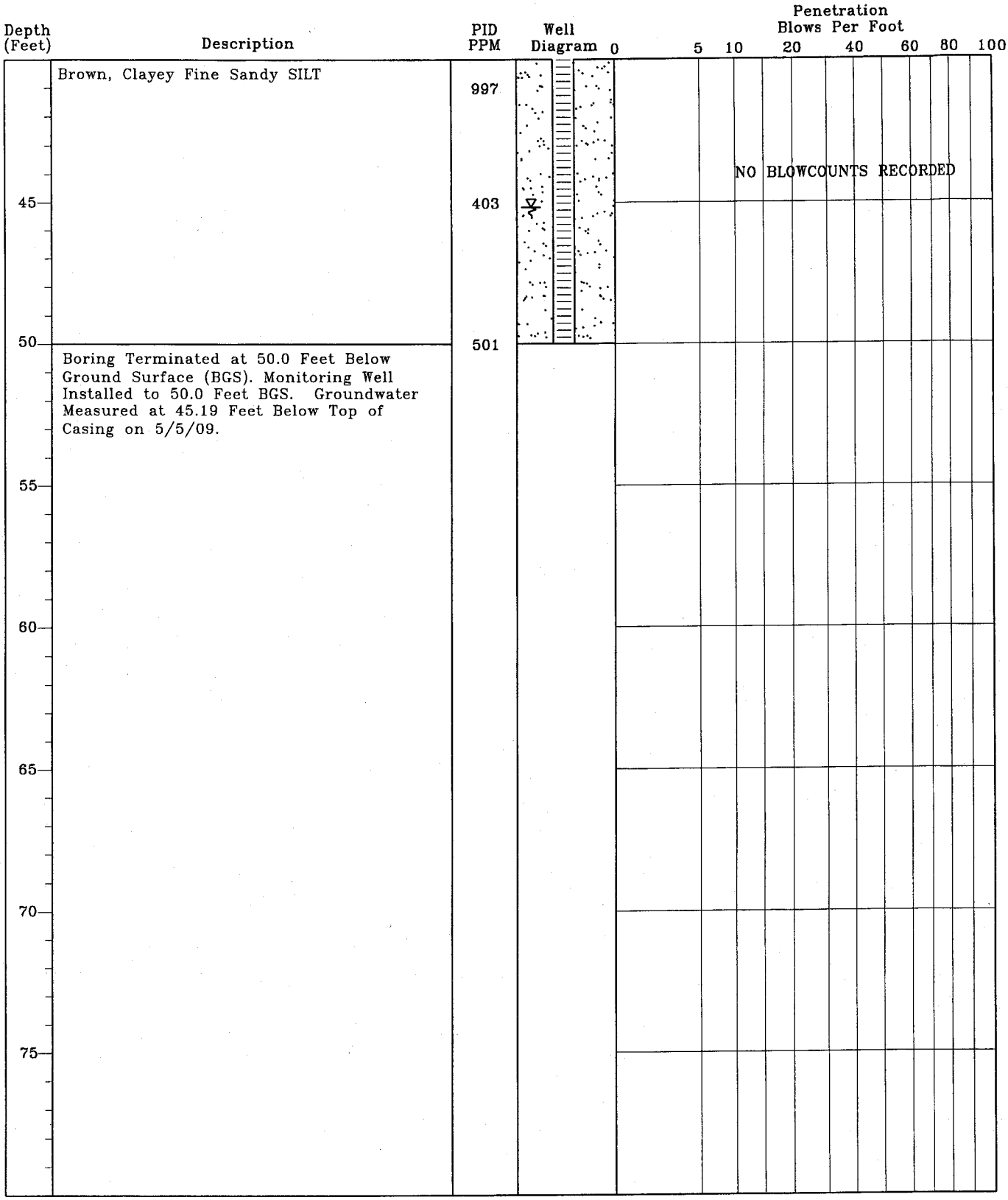
APPENDIX A
BORING LOGS



TEST BORING RECORD
McGill's Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 09-2206

Boring Number:	MW-1
Date Drilled:	5/1/09
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



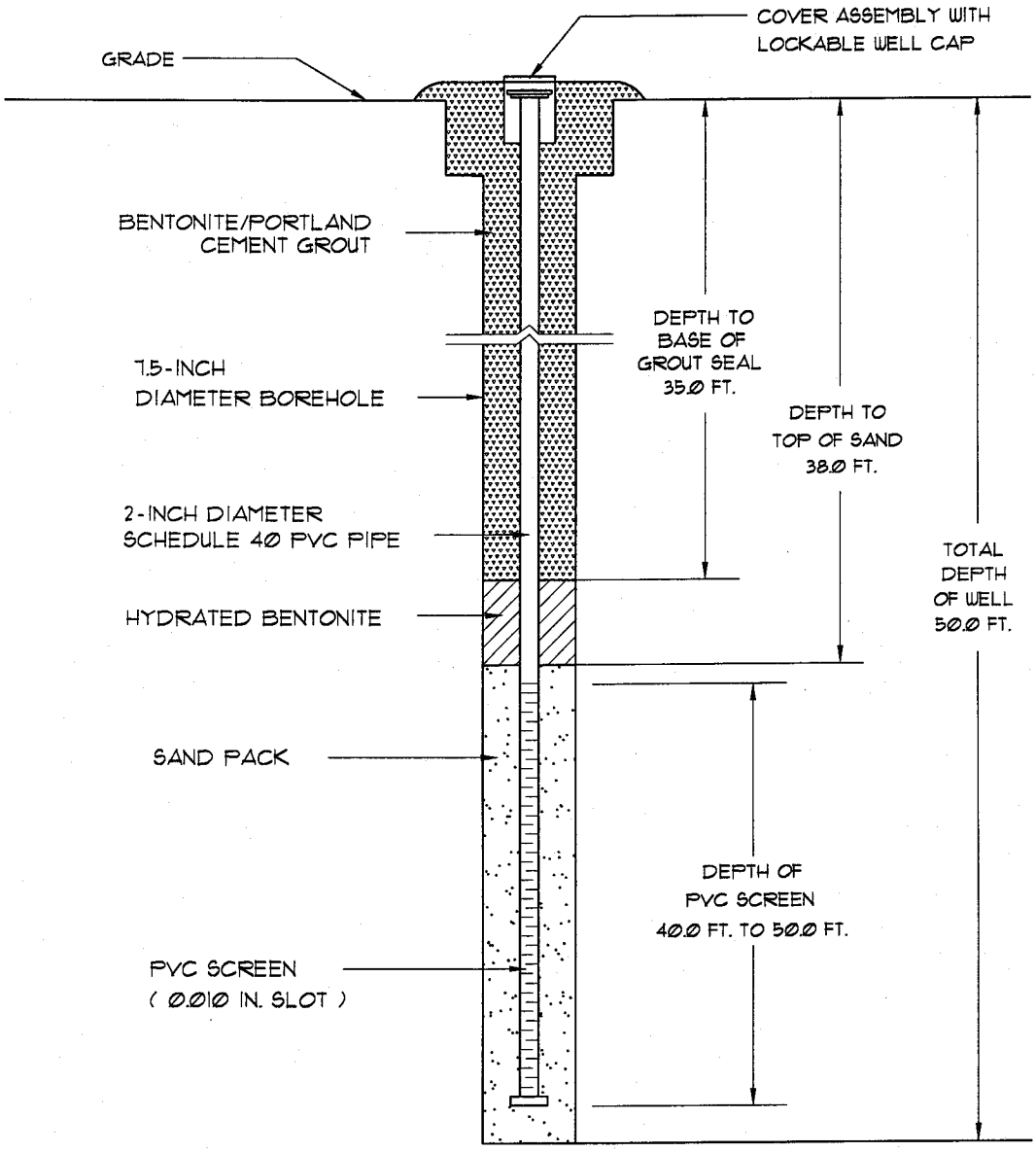
TEST BORING RECORD
McGill's Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 09-2206

Boring Number:	MW-1
Date Drilled:	5/1/09
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

MONITORING WELL INSTALLATION RECORD

McGill's Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 09-2206



Well Number:	MW-1
Date Drilled:	5/1/09
Drilled By:	Geologic Exploration Inc.
Driller: J. Hess	S.C. I.D. #: D 01929
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: MCGILL, (last) DONALD E. (first)
Address: 4320 DERRYCLARE LANE
City: EVANS State: GA Zip: 30809
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** ANDERSON
Name: MCGILL'S GROCERY
Street Address: LAKE SECESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

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

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
MICACEOUS BROWN SILT	50.0	50.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-1 BENTONITE SEAL FROM 35.0 TO 38.0 FT.

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

7. PERMIT NUMBER:

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

9. WELL DEPTH (completed) Date Started: 04/31/09
50.0 ft. Date Completed: 05/01/09

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 40.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 40.0 ft. and 50.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 45.0 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 38.0 ft. to 50.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 35.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P. _____ Volts _____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JAMES HESS CERT. NO.: 01929
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: James T. Hess Well Driller Date: 05/07/09

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

APPENDIX B
ANALYTICAL DATA

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

May 14, 2009

Mr. Bryan Shane
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243491

Dear Mr. Shane:
Enclosed are the analytical results for sample(s) received by the laboratory on May 05, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Renee Spencer

Renee Spencer

renee.spencer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243491

Charlotte Certification IDs
West Virginia Certification #: 357
Virginia Certification #: 00213
Tennessee Certification #: 04010
South Carolina Drinking Water Cert. #: 990060003
South Carolina Certification #: 990060001
Pennsylvania Certification #: 68-00784
Connecticut Certification #: PH-0104
North Carolina Field Services Certification #: 5342
North Carolina Drinking Water Certification #: 37706
New Jersey Certification #: NC012
Louisiana/LELAP Certification #: 04034
Kentucky UST Certification #: 84
Florida/NELAP Certification #: E87627
North Carolina Wastewater Certification #: 12

Asheville Certification IDs
West Virginia Certification #: 356
Virginia Certification #: 00072
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Tennessee Certification #: 2980
South Carolina Certification #: 99030001
South Carolina Bioassay Certification #: 99030002
Pennsylvania Certification #: 68-03578
North Carolina Wastewater Certification #: 40
North Carolina Drinking Water Certification #: 37712
North Carolina Bioassay Certification #: 9
New Jersey Certification #: NC011
Massachusetts Certification #: M-NC030
Louisiana/LELAP Certification #: 03095

Eden Certification IDs
North Carolina Wastewater Certification #: 633
Virginia Drinking Water Certification #: 00424
North Carolina Drinking Water Certification #: 37738

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243491

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9243491001	**MW-1 (25-30)**	Solid	04/30/09 14:00	05/05/09 16:00

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243491

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9243491001	**MW-1 (25-30)**	ASTM D2974-87	KDF	1
		EPA 6010	EWS	1
		EPA 8260	MCK	11
		EPA 8270	BET	21

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243491

Sample: MW-1 (25-30) **Lab ID: 9243491001** Collected: 04/30/09 14:00 Received: 05/05/09 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**7.2**	mg/kg	0.38	0.37	1	05/08/09 15:05	05/11/09 23:32	7439-92-1	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	452	104	1	05/11/09 12:00	05/13/09 13:46	83-32-9	
Acenaphthylene	ND	ug/kg	452	107	1	05/11/09 12:00	05/13/09 13:46	208-96-8	
Anthracene	ND	ug/kg	452	101	1	05/11/09 12:00	05/13/09 13:46	120-12-7	
Benzo(a)anthracene	ND	ug/kg	452	83.5	1	05/11/09 12:00	05/13/09 13:46	56-55-3	
Benzo(a)pyrene	ND	ug/kg	452	86.2	1	05/11/09 12:00	05/13/09 13:46	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	452	78.0	1	05/11/09 12:00	05/13/09 13:46	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	452	115	1	05/11/09 12:00	05/13/09 13:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	452	89.0	1	05/11/09 12:00	05/13/09 13:46	207-08-9	
Chrysene	ND	ug/kg	452	60.2	1	05/11/09 12:00	05/13/09 13:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	452	95.8	1	05/11/09 12:00	05/13/09 13:46	53-70-3	
Fluoranthene	ND	ug/kg	452	65.7	1	05/11/09 12:00	05/13/09 13:46	206-44-0	
Fluorene	ND	ug/kg	452	93.1	1	05/11/09 12:00	05/13/09 13:46	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	452	93.1	1	05/11/09 12:00	05/13/09 13:46	193-39-5	
1-Methylnaphthalene	**342J**	ug/kg	452	118	1	05/11/09 12:00	05/13/09 13:46	90-12-0	
2-Methylnaphthalene	**653**	ug/kg	452	97.2	1	05/11/09 12:00	05/13/09 13:46	91-57-6	
Naphthalene	**629**	ug/kg	452	111	1	05/11/09 12:00	05/13/09 13:46	91-20-3	
Phenanthrene	ND	ug/kg	452	75.3	1	05/11/09 12:00	05/13/09 13:46	85-01-8	
Pyrene	ND	ug/kg	452	76.6	1	05/11/09 12:00	05/13/09 13:46	129-00-0	
Nitrobenzene-d5 (S)	55	%	30-150		1	05/11/09 12:00	05/13/09 13:46	4165-60-0	
2-Fluorobiphenyl (S)	67	%	46-120		1	05/11/09 12:00	05/13/09 13:46	321-60-8	
Terphenyl-d14 (S)	67	%	38-108		1	05/11/09 12:00	05/13/09 13:46	1718-51-0	
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Benzene	ND	ug/kg	666	213	100		05/10/09 12:56	71-43-2	
Ethylbenzene	**1440**	ug/kg	666	240	100		05/10/09 12:56	100-41-4	
Naphthalene	**2790**	ug/kg	666	160	100		05/10/09 12:56	91-20-3	D3
Toluene	**1110**	ug/kg	666	240	100		05/10/09 12:56	108-88-3	
Xylene (Total)	**11100**	ug/kg	1330	479	100		05/10/09 12:56	1330-20-7	
m&p-Xylene	**6900**	ug/kg	1330	479	100		05/10/09 12:56	1330-20-7	
o-Xylene	**4210**	ug/kg	666	253	100		05/10/09 12:56	95-47-6	
Dibromofluoromethane (S)	100	%	79-116		100		05/10/09 12:56	1868-53-7	
Toluene-d8 (S)	92	%	88-110		100		05/10/09 12:56	2037-26-5	
4-Bromofluorobenzene (S)	96	%	74-115		100		05/10/09 12:56	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	69-121		100		05/10/09 12:56	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**26.9**	%	0.10	0.10	1		05/06/09 20:08		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243491

QC Batch: MPRP/4303
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 9243491001

METHOD BLANK: 275455 Matrix: Solid
Associated Lab Samples: 9243491001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	0.50	05/11/09 23:26	

LABORATORY CONTROL SAMPLE: 275456

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	46.8	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 275457 275458

Parameter	Units	9243153144 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	4.2	40.6	36.5	39.8	145	87	385	75-125	114	20	M0, R1

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243491

QC Batch: PMST/2440
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9243491001

SAMPLE DUPLICATE: 274069

Parameter	Units	9243446006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.3	18.3	15	25	

SAMPLE DUPLICATE: 274070

Parameter	Units	9243300017 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.2	16.6	2	25	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243491

QC Batch: MSV/6920
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 9243491001

METHOD BLANK: 274192
Matrix: Solid
Associated Lab Samples: 9243491001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	05/06/09 12:57	
Ethylbenzene	ug/kg	ND	5.0	05/06/09 12:57	
m&p-Xylene	ug/kg	ND	10.0	05/06/09 12:57	
Naphthalene	ug/kg	ND	5.0	05/06/09 12:57	
o-Xylene	ug/kg	ND	5.0	05/06/09 12:57	
Toluene	ug/kg	ND	5.0	05/06/09 12:57	
Xylene (Total)	ug/kg	ND	10.0	05/06/09 12:57	
1,2-Dichloroethane-d4 (S)	%	101	69-121	05/06/09 12:57	
4-Bromofluorobenzene (S)	%	94	74-115	05/06/09 12:57	
Dibromofluoromethane (S)	%	99	79-116	05/06/09 12:57	
Toluene-d8 (S)	%	103	88-110	05/06/09 12:57	

LABORATORY CONTROL SAMPLE: 274193

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	50	49.1	98	71-140	
Ethylbenzene	ug/kg	50	51.4	103	69-141	
m&p-Xylene	ug/kg	100	103	103	72-138	
Naphthalene	ug/kg	50	56.2	112	61-138	
o-Xylene	ug/kg	50	51.4	103	74-137	
Toluene	ug/kg	50	48.7	97	69-139	
Xylene (Total)	ug/kg	150	155	103	73-138	
1,2-Dichloroethane-d4 (S)	%			98	69-121	
4-Bromofluorobenzene (S)	%			98	74-115	
Dibromofluoromethane (S)	%			96	79-116	
Toluene-d8 (S)	%			100	88-110	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243491

QC Batch: OEXT/6709
QC Batch Method: EPA 3546
Analysis Method: EPA 8270
Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 9243491001

METHOD BLANK: 276553 Matrix: Solid
Associated Lab Samples: 9243491001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	330	05/13/09 11:38	
2-Methylnaphthalene	ug/kg	ND	330	05/13/09 11:38	
Acenaphthene	ug/kg	ND	330	05/13/09 11:38	
Acenaphthylene	ug/kg	ND	330	05/13/09 11:38	
Anthracene	ug/kg	ND	330	05/13/09 11:38	
Benzo(a)anthracene	ug/kg	ND	330	05/13/09 11:38	
Benzo(a)pyrene	ug/kg	ND	330	05/13/09 11:38	
Benzo(b)fluoranthene	ug/kg	ND	330	05/13/09 11:38	
Benzo(g,h,i)perylene	ug/kg	ND	330	05/13/09 11:38	
Benzo(k)fluoranthene	ug/kg	ND	330	05/13/09 11:38	
Chrysene	ug/kg	ND	330	05/13/09 11:38	
Dibenz(a,h)anthracene	ug/kg	ND	330	05/13/09 11:38	
Fluoranthene	ug/kg	ND	330	05/13/09 11:38	
Fluorene	ug/kg	ND	330	05/13/09 11:38	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	05/13/09 11:38	
Naphthalene	ug/kg	ND	330	05/13/09 11:38	
Phenanthrene	ug/kg	ND	330	05/13/09 11:38	
Pyrene	ug/kg	ND	330	05/13/09 11:38	
2-Fluorobiphenyl (S)	%	73	46-120	05/13/09 11:38	
Nitrobenzene-d5 (S)	%	70	30-150	05/13/09 11:38	
Terphenyl-d14 (S)	%	82	38-108	05/13/09 11:38	

LABORATORY CONTROL SAMPLE: 276554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	1670	1170	70	50-150	
2-Methylnaphthalene	ug/kg	1670	1320	79	50-150	
Acenaphthene	ug/kg	1670	1490	89	50-150	
Acenaphthylene	ug/kg	1670	1480	89	50-150	
Anthracene	ug/kg	1670	1540	92	50-150	
Benzo(a)anthracene	ug/kg	1670	1350	81	50-150	
Benzo(a)pyrene	ug/kg	1670	1660	99	50-150	
Benzo(b)fluoranthene	ug/kg	1670	1540	92	50-150	
Benzo(g,h,i)perylene	ug/kg	1670	900	54	24-117	
Benzo(k)fluoranthene	ug/kg	1670	1660	100	50-150	
Chrysene	ug/kg	1670	1160	70	50-150	
Dibenz(a,h)anthracene	ug/kg	1670	1000	60	17-128	
Fluoranthene	ug/kg	1670	1390	83	50-150	
Fluorene	ug/kg	1670	1320	79	50-150	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	914	55	19-128	
Naphthalene	ug/kg	1670	1270	76	50-150	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243491

LABORATORY CONTROL SAMPLE: 276554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	1670	1550	93	50-150	
Pyrene	ug/kg	1670	1480	89	50-150	
2-Fluorobiphenyl (S)	%			76	46-120	
Nitrobenzene-d5 (S)	%			70	30-150	
Terphenyl-d14 (S)	%			82	38-108	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243491

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M0	Matrix spike recovery was outside laboratory control limits.
R1	RPD value was outside control limits.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1162050

Section A Required Client Information:

Company: MECE
Address: 235-B Dooley Road, Lexington SC 29073
Email To: wcm@meci.net
Phone: 8038082043 Fax: 808-2048
Requested Due Date/TAT:

Section B Required Project Information:

Report To: B. Shaw
Copy To:
Purchase Order No.:
Project Name: McGills Group
Project Number: 09-2206

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: R-Sparkman
Pace Profile #: 1836-2

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER
Site Location STATE: SC

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil OL
Wipe WP
Air AR
Tissue TS
Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N): BTEX, Naph, 8260-B	PAH	Total Lead	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1 (25-30)	SL	G			4/30/09	2:00		6	3					2	1			X	X	X		9243191
2																							001
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Soil from Abbeville, County, SC					5/5/09	12:48				
Please Report "J" values		5/5/09	16:00		5/5/09	16:00	4.3	YES	NO	YES

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

May 13, 2009

Mr. Bryan Shane
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243629

Dear Mr. Shane:
Enclosed are the analytical results for sample(s) received by the laboratory on May 06, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Renee Spencer

Renee Spencer

renee.spencer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243629

Charlotte Certification IDs
West Virginia Certification #: 357
Virginia Certification #: 00213
Tennessee Certification #: 04010
South Carolina Drinking Water Cert. #: 990060003
South Carolina Certification #: 990060001
Pennsylvania Certification #: 68-00784
Connecticut Certification #: PH-0104
North Carolina Field Services Certification #: 5342
North Carolina Drinking Water Certification #: 37706
New Jersey Certification #: NC012
Louisiana/LELAP Certification #: 04034
Kentucky UST Certification #: 84
Florida/NELAP Certification #: E87627
North Carolina Wastewater Certification #: 12

Asheville Certification IDs
West Virginia Certification #: 356
Virginia Certification #: 00072
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Tennessee Certification #: 2980
South Carolina Certification #: 99030001
South Carolina Bioassay Certification #: 99030002
Pennsylvania Certification #: 68-03578
North Carolina Wastewater Certification #: 40
North Carolina Drinking Water Certification #: 37712
North Carolina Bioassay Certification #: 9
New Jersey Certification #: NC011
Massachusetts Certification #: M-NC030
Louisiana/LELAP Certification #: 03095

Eden Certification IDs
North Carolina Wastewater Certification #: 633
Virginia Drinking Water Certification #: 00424
North Carolina Drinking Water Certification #: 37738

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243629

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9243629001	**MW-1**	Water	05/05/09 12:57	05/06/09 17:15

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243629

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9243629001	**MW-1**	EPA 6010	EWS	1
		EPA 6010	EWS	1
		EPA 8011	CAH	2
		EPA 8260	MCK	13
		EPA 8270	BET	21

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243629

Sample: MW-1 **Lab ID: 9243629001** Collected: 05/05/09 12:57 Received: 05/06/09 17:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**1.7**	ug/L	0.038	0.038	2	05/07/09 12:01	05/12/09 17:05	106-93-4	
1-Chloro-2-bromopropane (S)	0	%	60-140		2	05/07/09 12:01	05/12/09 17:05	301-79-56	S4
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	05/07/09 11:25	05/12/09 23:04	7439-92-1	
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead, Dissolved	ND	ug/L	5.0	4.0	1	05/07/09 12:30	05/12/09 06:03	7439-92-1	
8270 MSSV PAH SPE	Analytical Method: EPA 8270 Preparation Method: EPA 3535								
Acenaphthene	ND	ug/L	14.3	0.69	1	05/07/09 15:00	05/13/09 05:23	83-32-9	
Acenaphthylene	ND	ug/L	14.3	0.66	1	05/07/09 15:00	05/13/09 05:23	208-96-8	
Anthracene	ND	ug/L	14.3	0.91	1	05/07/09 15:00	05/13/09 05:23	120-12-7	
Benzo(a)anthracene	ND	ug/L	14.3	1.0	1	05/07/09 15:00	05/13/09 05:23	56-55-3	
Benzo(a)pyrene	ND	ug/L	14.3	0.89	1	05/07/09 15:00	05/13/09 05:23	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	14.3	0.81	1	05/07/09 15:00	05/13/09 05:23	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	14.3	0.97	1	05/07/09 15:00	05/13/09 05:23	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	14.3	0.94	1	05/07/09 15:00	05/13/09 05:23	207-08-9	
Chrysene	ND	ug/L	14.3	1.0	1	05/07/09 15:00	05/13/09 05:23	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	14.3	0.81	1	05/07/09 15:00	05/13/09 05:23	53-70-3	
Fluoranthene	ND	ug/L	14.3	1.0	1	05/07/09 15:00	05/13/09 05:23	206-44-0	
Fluorene	ND	ug/L	14.3	0.91	1	05/07/09 15:00	05/13/09 05:23	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	14.3	0.83	1	05/07/09 15:00	05/13/09 05:23	193-39-5	
1-Methylnaphthalene	ND	ug/L	14.3	14.3	1	05/07/09 15:00	05/13/09 05:23	90-12-0	
2-Methylnaphthalene	**6.0J**	ug/L	14.3	0.44	1	05/07/09 15:00	05/13/09 05:23	91-57-6	
Naphthalene	**32.1**	ug/L	14.3	0.61	1	05/07/09 15:00	05/13/09 05:23	91-20-3	
Phenanthrene	ND	ug/L	14.3	0.97	1	05/07/09 15:00	05/13/09 05:23	85-01-8	
Pyrene	ND	ug/L	14.3	0.94	1	05/07/09 15:00	05/13/09 05:23	129-00-0	
Nitrobenzene-d5 (S)	25	%	10-120		1	05/07/09 15:00	05/13/09 05:23	4165-60-0	
2-Fluorobiphenyl (S)	75	%	10-120		1	05/07/09 15:00	05/13/09 05:23	321-60-8	
Terphenyl-d14 (S)	73	%	10-116		1	05/07/09 15:00	05/13/09 05:23	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**7780**	ug/L	500	120	100		05/10/09 08:47	71-43-2	
1,2-Dichloroethane	ND	ug/L	500	130	100		05/10/09 08:47	107-06-2	
Ethylbenzene	**3910**	ug/L	500	110	100		05/10/09 08:47	100-41-4	
Methyl-tert-butyl ether	**59700**	ug/L	5000	2000	1000		05/10/09 14:15	1634-04-4	
Naphthalene	ND	ug/L	500	290	100		05/10/09 08:47	91-20-3	
Toluene	**98500**	ug/L	5000	1800	1000		05/10/09 14:15	108-88-3	
Xylene (Total)	**24100**	ug/L	1000	270	100		05/10/09 08:47	1330-20-7	
m&p-Xylene	**16200**	ug/L	1000	270	100		05/10/09 08:47	1330-20-7	
o-Xylene	**7930**	ug/L	500	170	100		05/10/09 08:47	95-47-6	
4-Bromofluorobenzene (S)	105	%	87-109		100		05/10/09 08:47	460-00-4	
Dibromofluoromethane (S)	94	%	85-115		100		05/10/09 08:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	84	%	79-120		100		05/10/09 08:47	17060-07-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243629

Sample: MW-1 **Lab ID: 9243629001** Collected: 05/05/09 12:57 Received: 05/06/09 17:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene-d8 (S)	98	%	70-120		100		05/10/09 08:47	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243629

QC Batch: MPRP/4293
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 9243629001

METHOD BLANK: 274721 Matrix: Water
Associated Lab Samples: 9243629001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	05/12/09 22:39	

LABORATORY CONTROL SAMPLE: 274722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	463	93	80-120	

MATRIX SPIKE SAMPLE: 274723

Parameter	Units	9243312002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	90.6	500	462	74	75-125	M0

SAMPLE DUPLICATE: 274724

Parameter	Units	9243312003 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	5.7	6.9	19	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243629

QC Batch: OEXT/6681 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9243629001

METHOD BLANK: 274851 Matrix: Water
Associated Lab Samples: 9243629001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	05/07/09 12:05	
1-Chloro-2-bromopropane (S)	%	100	60-140	05/07/09 12:05	

LABORATORY CONTROL SAMPLE & LCSD: 274852 274853

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.29	0.31	0.32	106	110	60-140	4	20	
1-Chloro-2-bromopropane (S)	%				105	108	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 274854 274855

Parameter	Units	9243628001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.27	.27	0.40	0.40	146	146	60-140	0	20	M3
1-Chloro-2-bromopropane (S)	%						117	112	60-140			

SAMPLE DUPLICATE: 274856

Parameter	Units	9243628002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	20.9	19.7	6	20	
1-Chloro-2-bromopropane (S)	%		0	0		S4

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243629

QC Batch: OEXT/6687
QC Batch Method: EPA 3535
Analysis Method: EPA 8270
Analysis Description: 8270 Water PAH MSSV
Associated Lab Samples: 9243629001

METHOD BLANK: 275129 Matrix: Water
Associated Lab Samples: 9243629001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	10.0	05/12/09 18:23	
2-Methylnaphthalene	ug/L	ND	10.0	05/12/09 18:23	
Acenaphthene	ug/L	ND	10.0	05/12/09 18:23	
Acenaphthylene	ug/L	ND	10.0	05/12/09 18:23	
Anthracene	ug/L	ND	10.0	05/12/09 18:23	
Benzo(a)anthracene	ug/L	ND	10.0	05/12/09 18:23	
Benzo(a)pyrene	ug/L	ND	10.0	05/12/09 18:23	
Benzo(b)fluoranthene	ug/L	ND	10.0	05/12/09 18:23	
Benzo(g,h,i)perylene	ug/L	ND	10.0	05/12/09 18:23	
Benzo(k)fluoranthene	ug/L	ND	10.0	05/12/09 18:23	
Chrysene	ug/L	ND	10.0	05/12/09 18:23	
Dibenz(a,h)anthracene	ug/L	ND	10.0	05/12/09 18:23	
Fluoranthene	ug/L	ND	10.0	05/12/09 18:23	
Fluorene	ug/L	ND	10.0	05/12/09 18:23	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	05/12/09 18:23	
Naphthalene	ug/L	ND	10.0	05/12/09 18:23	
Phenanthrene	ug/L	ND	10.0	05/12/09 18:23	
Pyrene	ug/L	ND	10.0	05/12/09 18:23	
2-Fluorobiphenyl (S)	%	62	10-120	05/12/09 18:23	
Nitrobenzene-d5 (S)	%	60	10-120	05/12/09 18:23	
Terphenyl-d14 (S)	%	65	10-116	05/12/09 18:23	

LABORATORY CONTROL SAMPLE: 275130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	50	30.7	61	29-108	
2-Methylnaphthalene	ug/L	50	31.2	62	30-104	
Acenaphthene	ug/L	50	36.0	72	39-109	
Acenaphthylene	ug/L	50	36.5	73	41-109	
Anthracene	ug/L	50	36.6	73	45-114	
Benzo(a)anthracene	ug/L	50	35.9	72	45-109	
Benzo(a)pyrene	ug/L	50	38.8	78	47-117	
Benzo(b)fluoranthene	ug/L	50	36.5	73	32-113	
Benzo(g,h,i)perylene	ug/L	50	28.3	57	10-149	
Benzo(k)fluoranthene	ug/L	50	41.2	82	41-104	
Chrysene	ug/L	50	31.2	62	35-116	
Dibenz(a,h)anthracene	ug/L	50	30.8	62	13-139	
Fluoranthene	ug/L	50	37.2	74	43-110	
Fluorene	ug/L	50	36.8	74	40-111	
Indeno(1,2,3-cd)pyrene	ug/L	50	28.3	57	17-135	
Naphthalene	ug/L	50	34.6	69	26-120	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243629

LABORATORY CONTROL SAMPLE: 275130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	50	38.4	77	45-110	
Pyrene	ug/L	50	34.9	70	38-114	
2-Fluorobiphenyl (S)	%			63	10-120	
Nitrobenzene-d5 (S)	%			59	10-120	
Terphenyl-d14 (S)	%			69	10-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 275131 275132

Parameter	Units	9243493001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	21.8	100	100	63.1	78.9	41	57	29-108	22	30	
2-Methylnaphthalene	ug/L	37.7	100	100	100	120	62	82	30-104	18	30	
Acenaphthene	ug/L	ND	100	100	55.9	41.1	56	41	17-104	30	30	
Acenaphthylene	ug/L	ND	100	100	51.8	38.9	52	39	10-200	28	30	
Anthracene	ug/L	ND	100	100	64.0	53.9	64	54	10-150	17	30	
Benzo(a)anthracene	ug/L	ND	100	100	62.9	51.3	63	51	10-172	20	30	
Benzo(a)pyrene	ug/L	ND	100	100	65.9	55.9	66	56	10-173	16	30	
Benzo(b)fluoranthene	ug/L	ND	100	100	74.7	67.7	75	68	10-200	10	30	
Benzo(g,h,i)perylene	ug/L	ND	100	100	39.6	44.9	40	45	10-120	13	30	
Benzo(k)fluoranthene	ug/L	ND	100	100	78.5	63.2	78	63	10-145	22	30	
Chrysene	ug/L	ND	100	100	54.9	47.2	55	47	10-146	15	30	
Dibenz(a,h)anthracene	ug/L	ND	100	100	44.8	44.1	45	44	10-120	2	30	
Fluoranthene	ug/L	ND	100	100	72.3	60.5	72	60	20-120	18	30	
Fluorene	ug/L	ND	100	100	55.3	43.7	55	44	10-109	24	30	
Indeno(1,2,3-cd)pyrene	ug/L	ND	100	100	41.7	38.2	42	38	11-120	9	30	
Naphthalene	ug/L	117	100	100	150	186	33	69	10-120	21	30	
Phenanthrene	ug/L	1.1J	100	100	80.5	63.1	79	62	10-145	24	30	
Pyrene	ug/L	ND	100	100	59.1	49.2	59	49	13-114	18	30	
2-Fluorobiphenyl (S)	%						47	34	10-120			
Nitrobenzene-d5 (S)	%						43	45	10-120			
Terphenyl-d14 (S)	%						56	47	10-116			

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243629

QC Batch: MPRP/4300
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Filtered
Associated Lab Samples: 9243629001

METHOD BLANK: 274888 Matrix: Water
Associated Lab Samples: 9243629001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead, Dissolved	ug/L	ND	5.0	05/12/09 05:22	

LABORATORY CONTROL SAMPLE: 274889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	500	442	88	80-120	

MATRIX SPIKE SAMPLE: 274890

Parameter	Units	9243494001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	ND	500	475	95	75-125	

SAMPLE DUPLICATE: 274891

Parameter	Units	9243495001 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead, Dissolved	ug/L	ND	ND		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243629

QC Batch: MSV/6945
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 9243629001

METHOD BLANK: 276386 Matrix: Water
Associated Lab Samples: 9243629001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	05/10/09 00:53	
Benzene	ug/L	ND	5.0	05/10/09 00:53	
Ethylbenzene	ug/L	ND	5.0	05/10/09 00:53	
m&p-Xylene	ug/L	ND	10.0	05/10/09 00:53	
Methyl-tert-butyl ether	ug/L	ND	5.0	05/10/09 00:53	
Naphthalene	ug/L	ND	5.0	05/10/09 00:53	
o-Xylene	ug/L	ND	5.0	05/10/09 00:53	
Toluene	ug/L	ND	5.0	05/10/09 00:53	
Xylene (Total)	ug/L	ND	10.0	05/10/09 00:53	
1,2-Dichloroethane-d4 (S)	%	84	79-120	05/10/09 00:53	
4-Bromofluorobenzene (S)	%	104	87-109	05/10/09 00:53	
Dibromofluoromethane (S)	%	97	85-115	05/10/09 00:53	
Toluene-d8 (S)	%	101	70-120	05/10/09 00:53	

LABORATORY CONTROL SAMPLE: 276387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	54.9	110	72-126	
Benzene	ug/L	50	55.2	110	78-128	
Ethylbenzene	ug/L	50	54.3	109	80-127	
m&p-Xylene	ug/L	100	108	108	82-127	
Methyl-tert-butyl ether	ug/L	50	51.8	104	71-130	
Naphthalene	ug/L	50	57.9	116	52-136	
o-Xylene	ug/L	50	53.7	107	83-124	
Toluene	ug/L	50	54.6	109	76-126	
Xylene (Total)	ug/L	150	162	108	83-125	
1,2-Dichloroethane-d4 (S)	%			103	79-120	
4-Bromofluorobenzene (S)	%			104	87-109	
Dibromofluoromethane (S)	%			92	85-115	
Toluene-d8 (S)	%			99	70-120	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: MCGILL'S GROCERY 09-2206
Pace Project No.: 9243629

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

M0	Matrix spike recovery was outside laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1162051

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: MECI	Report To: B. Shane	Attention:
Address: 235B Dooley Rd Lexington SC 29073	Copy To:	Company Name:
		Address:
Email To: wcm@meci.net	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: McGill's Grocery	Pace Project Manager: R. Spencer
Requested Due Date/TAT:	Project Number: 09-2206	Pace Profile #: 836-4

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☑ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX Naph MTBE 8260B	EDB 8011	Total Lead	Filtered Lead	PAH	1,2 DCA by 8260B	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9243629
1	MW-1	WT	G			5/5	1257		10	3		1	6						X		X	X	X	X	X		001
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Megan Reland	5/6/09	10:10	S Moody - Pace	5-6-09	10:15				
	S Moody	5-6-09	17:15	[illegible] / Pace	5/6/09	17:15	5.5	yes	no	yes

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: CLARK BAER

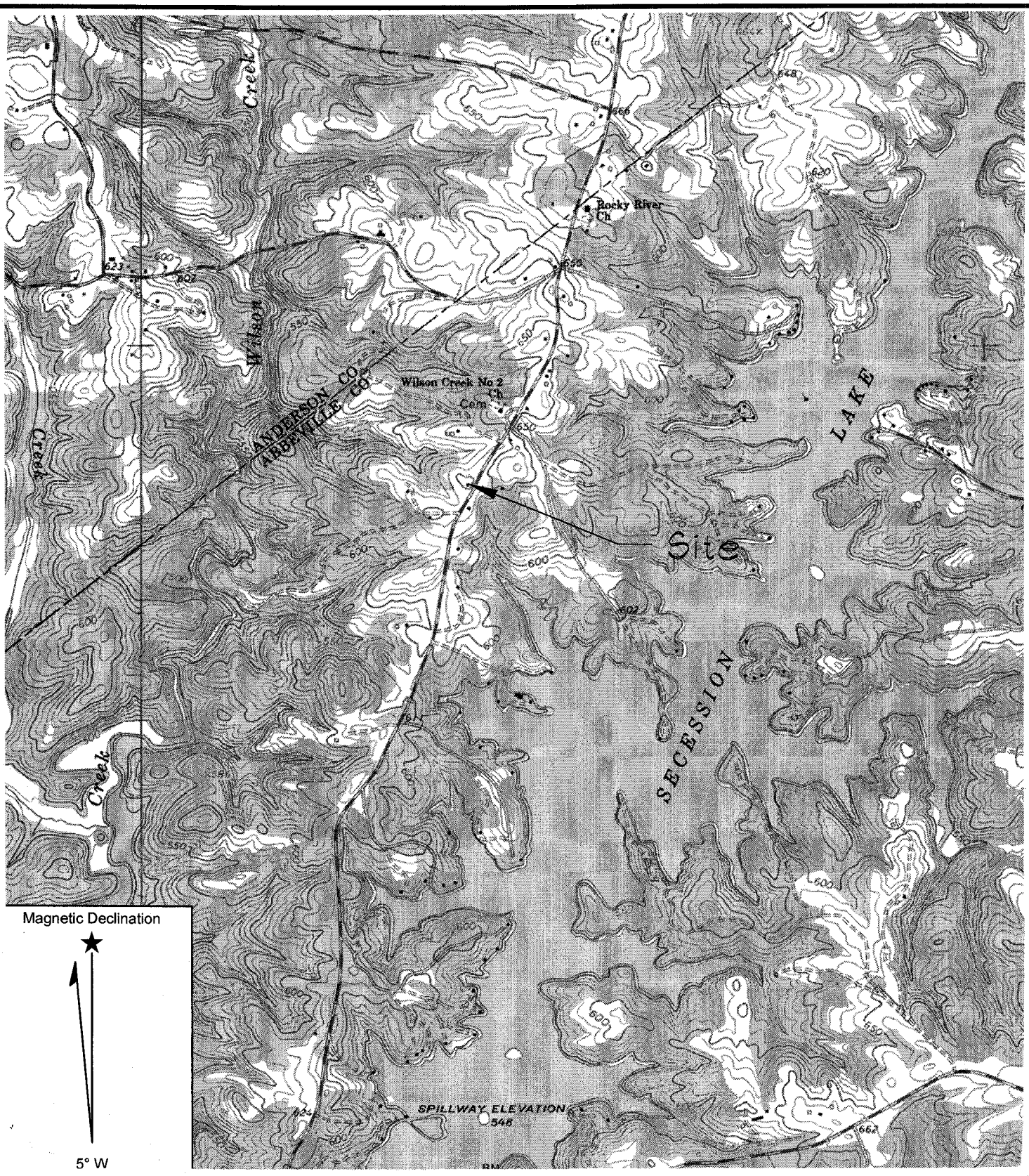
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 5/5/09

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

APPENDIX C
MAPS (Topographic & Site Base)



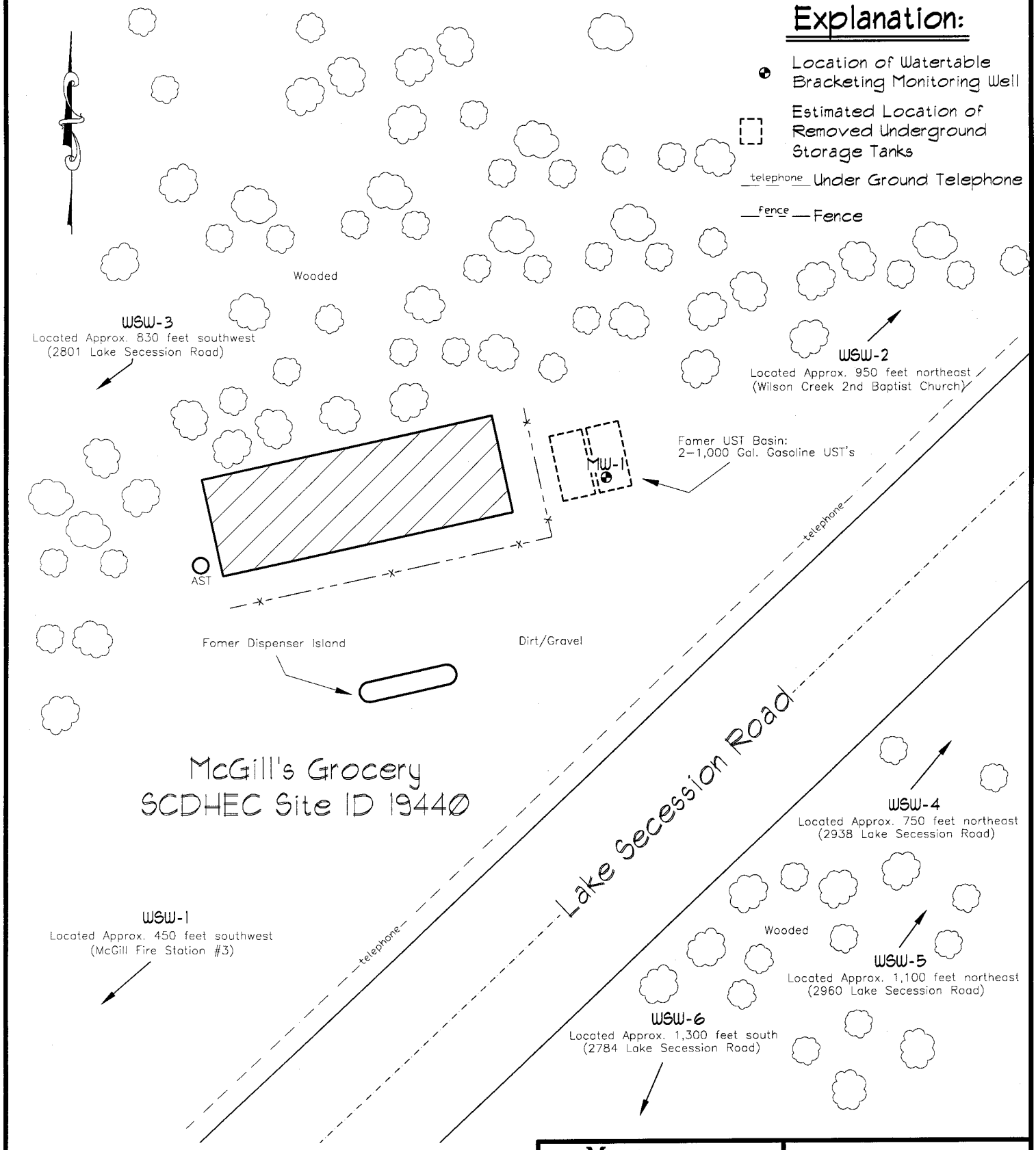
GRAPHIC SCALE

0 1000 2000 4000

1IN = 2000FT

Reference: Antreville, South Carolina
Contour Interval–10 Feet
USGS 7.5 Min. Quad

Midlands Environmental Consultants, Inc.	Site Location
McGill's Grocery Iva, SC SCDHEC Site ID# 19440	
Figure 1	MECI 09-2206



GRAPHIC SCALE

0 10 20 30 40

1IN = 20 FT.

Reference: SCDHEC Files and MECI Field notes.

Midlands Environmental Consultants, Inc.	Site Features
McGill's Grocery Lake Secession Road, Iva, SC SCDHEC Site ID# 19440	
Figure 2	MECI 09-2206

APPENDIX D
DISPOSAL MANIFEST

WASTE MANAGEMENT

Richland County LF
1047 Highway Church Road
Elgin, SC, 29045
Ph: (803) 788-3054

Original
Ticket# 958768

Customer Name MIDLANDSENVIRON MIDLANDS ENVI
Ticket Date 05/04/2009
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 0
Destination
PO
Profile VA2718 (SOIL FROM UST ASSESSMENT)
Generator 126-MIDLANDSENVIRONMENTAL MIDLANDS ENVIRONMENTAL

Carrier MIDCAROLINASTEE MID CAROLINA STEEL &
Vehicle# 1
Container
Driver
Check#
Billing # 0000469
Gen EPA ID

Volume

	Time	Scale	ScaleMaster		
In	05/04/2009 10:55:43	Scale2	joyce	Gross	14680 lb
Out	05/04/2009 11:10:20	Scale1	joyce	Tare	8840 lb
				Net	5840 lb
				Tons	2.92

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	SOIL-Cont. Soil -	100	2.92	Tons				40-RICHLAN
2	FUEL-Fuel Surcharg	100		%				40-RICHLAN
3	P6ENV-Environmenta	100		%				40-RICHLAN

Total Fees
Total Ticket

SIGNATURE

403WM

WASTE MANAGEMENT

SPECIAL WASTE MANIFEST

WASTE ID # VA2718

EXPIRATION DATE: November 14, 2009

RICHLAND LANDI
1047 Hwy Church Rd
Elgin, SC 29045
(803)788-3054
(803)736-0995-Fax

PREPARED BY CAROL WELDON (205)-652-8186

GENERATOR OF WASTE: M.E.I.C. (Midlands Environmental Consultants, Inc)

CUSTOMER ACCOUNT: MIDLANDS ENV/ 820-469

LOCATION OF WASTE : 1144 Old Two Notch Road

PHONE # 803-808-2043 CONTACT: Bryan Shane

FAX # 803-808-2048

GENERATOR'S SIGNATURE _____ DATE: _____

TRANSPORTER OF WASTE MECI

DATE: 5-4-09 TRUCK NO. 1

DRIVER'S SIGNATURE

**** TO BE COMPLETED BY RICHLAND LANDFILL ****

DISPOSAL SITE: RICHLAND LANDFILL ELGIN, SC

DESCRIPTION OF WASTE SOIL from UST Assessment Soil

TICKET NO.# 958768 TONNAGE 2.92

RECEIVED BY

McGill's Grocery / Varners / E+A / Bulk Plant

Midlands
Environmental
Consultants, Inc.

May 15, 2009

Re: Treatment of Purge Water
McGill Grocery
Iva, South Carolina
SCDHEC Site ID Number 19440
MECI Project Number 09-2206

To Whom it May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 30 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

One 55-gallon drum was treated on May 5, 2009 at the referenced site.

A total of one (1) 55-gallon drum was treated at the referenced site.

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

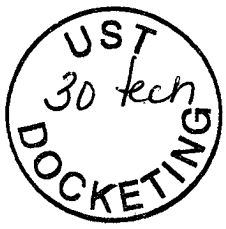
Sincerely,
Midlands Environmental Consultants, Inc.

Jeff L. Coleman
Project Scientist

April 4, 2014

UST
APR 07 2014
PROGRAM

UST
30 tech
DOCKETING



Mr. Shane Shull
Underground Storage Tank Program
SCDHEC
2600 Bull Street
Columbia, SC 29201

RE: Estate Closing / Water Supply Well Abandonment
McGill Grocery
Iva, SC 29655
SCDHEC Site ID# 19440, CA#47325
MECI Project Number 14-4756

Dear Mr. Shull,

Per your letter dated April 1, 2014, please find enclosed documentation to certify the Estate of Donald E. McGill, Sr. has been closed by the Probate Court of Abbeville, SC dated March 19, 2014 and that Diana D. McMahan has been discharged as Personal Representative in this matter.

Thank you very much for your help and please don't hesitate to call me at 706-755-6701 if you have any further questions.

Sincerely,

Diana D. McMahan

Diana D. McMahan

Enclosures: Order Closing Estate
Certificate of Discharge

STATE OF SOUTH CAROLINA)
) IN THE PROBATE COURT
COUNTY OF ABBEVILLE)
) **ORDER CLOSING ESTATE**
IN THE MATTER OF DONALD E MCGILL, SR)
) CASE NUMBER: 2007ES0100150

Upon the consideration of the Application for Settlement, it appears to the Court that the allegations and statements in the Application are true and correct; that all required notices have been given; that this estate has been administered according to the laws of South Carolina and the Orders of this Court; that the Estate should be closed in accordance with the Court's Order and

☒ (Testate-Complete Settlement) That the decedent's will dated September 14th, 1992 and codicil(s) dated _____ which was/were previously admitted probate constitute the valid unrevoked Last Will and Testament of the decedent.

☐ (Intestate-Complete Settlement) That the decedent died leaving no valid unrevoked Last Will and Testament.

☐ (Other:)

IT IS HEREBY ORDERED

☐ 1. That the final account and proposal for distribution is approved.

☐ 2. That the Personal Representative(s) is/are authorized and directed to deliver and distribute title and possession of the assets of this estate to the distributees in the amount and manner set forth in the Proposal for Distribution.

☐ 3. That, upon compliance with this Court's Order as set forth in #2 above and upon presentation of proper proof of such compliance, the appointment of the Personal Representative(s) shall be terminated and the estate closed.

☐ 4. That the Personal Representative(s) is/are released and discharged as the Personal Representative(s).

☒ 5. That the appointment of the Personal Representative(s) is/are hereby terminated and this estate is closed.

☐ 6. (Other:)

Executed this 19th day of March, 2014

C. Mark Sumner, PROBATE COURT

STATE OF SOUTH CAROLINA
COUNTY OF ABBEVILLE

PROBATE COURT

IN THE MATTER OF DONALD E MCGILL, SR

CASE NUMBER 2007ES0100150

CERTIFICATE OF DISCHARGE

DIANA D. MCMAHAN

This is to certify that
the personal representative(s)
in the above estate
appear(s) to have completed the administration, and this
Court has closed this estate
by order dated March 19, 2014

It appears appropriate
that the sureties on the bond in this estate
be discharged from future liability thereon

IT IS THEREFORE ORDERED
that the sureties on the bond of the
personal representative(s) be and are hereby discharged,
the bond is cancelled, and the security instrument
recorded in the Office of the Clerk of Court (or RMC)
Book _____ at page _____ be and is hereby released
and cancellation of said instrument is authorized

Executed this 19th day of March, 2014.

C. Mark Sumner, PROBATE COURT

Recorded 9-20-14, CD Book
4 @ Page (s) 323 By KB

FORM #142PC (1/89)
62-3-1007

Midlands Environmental Consultants, Inc.

March 27, 2014

Mr. Shane Shull, Hydrogeologist
Corrective Action Section
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health and
Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

UST
APR 1 1 2014
DIVISION

UST
DOCKETING

Subject: Water Supply Well Abandonment
McGill Grocery
Lake Secession Road
Iva, South Carolina
SCDHEC Site ID# 19440, CA # 47325
MECI Project Number 14-4756

Dear Mr. Shull:

On behalf of Ms. Diana McMahan, Midlands Environmental Consultants, Inc. (MECI) is pleased to submit this letter report outlining the water supply well abandonment activities performed at the subject site. This describes the abandonment conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

One (1) water supply well was abandoned on March 6, 2014 at the subject site according to South Carolina Well Standards and Regulations R.61-71.H. The well abandonment was conducted under the direction of Mr. David Brown (SC Driller's License # B 02053) of Environmental Drilling and Probing Services, Inc. of Rock Hill. SC. The following matrix presents the well identification numbers, surface coverings, well diameter, and total well depth:

Well Number	Surface Covering	Well Diameter (Inches)	Total Depth (Feet)
WSW-9	Grass	36"	60.0
Total Well Footage Abandoned			60.0

The water supply well was abandoned with portland bentonite slurry utilizing tremie pipe. A total of 60.0 feet of water supply well was abandoned by the methods described above. Please find the attached SCDHEC 1903 Water Well Records and site maps.

Midlands Environmental appreciates the opportunity to offer our professional environmental services on this project. If you have any questions concerning this project, please contact the undersigned at (803) 808-2043.

Sincerely,
MIDLANDS ENVIRONMENTAL CONSULTANTS, INC.

Kyle V. Pudney
Staff Biologist

Jeff L. Coleman
Senior Scientist

Attachments:

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: SCDHEC (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: **COUNTY:** Abbeville
Name: McGill Grocery
Street Address: Lake Succession Road
City: Iva Zip: 29655-0000
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 19440 **PUBLIC SYSTEM NUMBER:** WSW-9

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

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Well Abandoned by EDPS on		
3/6/2014 via tremie pipe with		
Portland-Bentonite Cement Slurry.		
Approx. 205.0 Gallons of Slurry.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
WSW-9

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

7. PERMIT NUMBER: 19440

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

9. WELL DEPTH (completed) Date Started: 3/6/2014
60.0 ft. Date Completed: 3/6/2014

10. CASING: ☑ Threaded ☐ Welded
Diam.: 3 Foot
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: _____ Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 60.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe_____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: David Brown **CERT. NO.:** 02053
Address: (Print) Level: A B C D (circle one)
17539 Greenhill Road
Charlotte, North Carolina 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

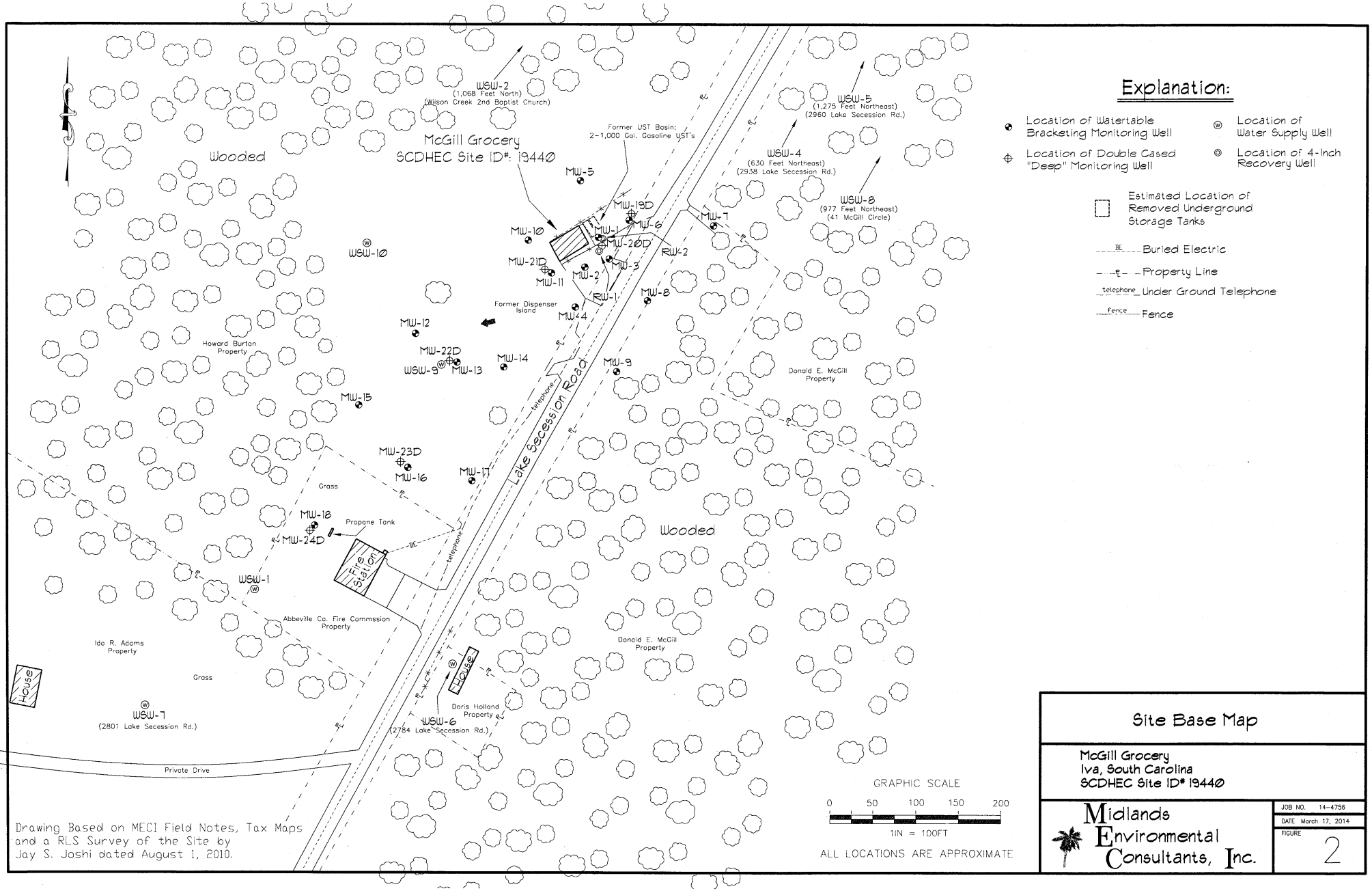
20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: David Brown Well Driller Date: 3/17/2014

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

DHEC 1903 (03/2004)

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



Site Base Map

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 14-4756
DATE March 17, 2014
FIGURE 2

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

MS DIANA MCMAHAN
ESTATE OF DONALD E MCGILL
PO BOX 41
IVA SC 29655

FEB 03 2015

Re: **Site Specific Work Plan (SSWP) Request**
McGill Grocery, Lake Secession Road, Iva, SC
UST Permit #19440
Release Reported January 28, 2009
Abbeville County

Dear Ms. McMahan:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site using Midlands Environmental Consultants, Inc. as your contractor. The next appropriate scope of work at the site is a comprehensive groundwater sampling event.

The groundwater sampling event should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP) Revision 2.0 and must be conducted in compliance with all applicable regulations. Groundwater samples should be collected from all monitoring wells and water supply wells associated with this release and analyzed for BTEX + Naphth + MtBE, 1,2-DCA, 8 oxygenates, and EDB. All monitoring wells will need to be purged since it has been greater than 12 months since the last groundwater sampling event. A copy of the Agency QAPP Revision 2.0 for the UST Management Division is available at http://www.scdhec.gov/Environment/docs/QAPP_Rev-2_April2013.pdf.

Please have your contractor complete and submit the Site Specific Work Plan (SSWP) and Cost Agreement within thirty (30) days of 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 technical and financial preapproval from the Agency must be issued before work begins**.

On all correspondence concerning this site, please reference **UST Permit #19440.** If you have any questions concerning this project, please contact me at (803) 898-0607 or by email at thrasham@dhec.sc.gov.

Sincerely,

Ashleigh Thrash

Ashleigh Thrash, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management

cc: Midlands Environmental Consultants, Inc., PO Box 854, Lexington, SC, 29071
Technical File

Midlands Environmental Consultants, Inc.

UST
FEB 2 4 2015
PROGRAM

February 23, 2015

RECEIVED
FEB 24 2015
SC Department of
Health and Environmental
Control

UST
33 tech
DOCKETING

Ms. Ashleigh Thrash, Hydrogeologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Site-Specific Work Plan
McGill Grocery
Iva, South Carolina
SCDHEC Site ID Number 19440
MECI Project Number 15-5116
Certified Site Rehabilitation Contractor UCC-0009

Dear Ms. Thrash,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

On February 20, 2015, MECI personnel performed a site visit to the subject site to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

Sincerely,
Midlands Environmental Consultants, Inc.

Kyle V. Pudney
Project Biologist

Jeff L. Coleman
Senior Scientist

Post Office Box 854, Lexington SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

Midlands Environmental Consultants, Inc.

D H E C
PROMOTE PROTECT PROSPER

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

To: Ms. Ashleigh Thrash (SCDHEC Project Manager)
From: Mr. Jeff Coleman (Contractor Project Manager)
Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: McGill Grocery UST Permit #: 19440
Facility Address: Lake Secession Road, Iva, SC 29655
Responsible Party: Estate of Donald E. McGill Phone: 706-755-6700
RP Address: PO Box 41, Iva, SC 29655
Property Owner (if different): SAA
Property Owner Address: SAA
Current Use of Property: Vacant Store

Scope of Work (Please check all that apply)

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

Analyses (Please check all that apply)

Groundwater/Surface Water:

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

Soil:

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

Air:

- ☐ BTEXN

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

____ Soil	6 Water Supply Wells	____ Air	1 Field Blank
26 Monitoring Wells	____ Surface Water	2 Duplicate	1 Trip Blank

Field Screening Methodology

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

# of shallow points proposed: _____ 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: _____ Estimated Footage: _____ feet per point
# of deep wells: _____ Estimated Footage: _____ feet per point
# of recovery wells: _____ Estimated Footage: _____ feet per point
Monitoring Well development method (consistent with SOP): _____
Comments, if warranted:

_____
_____
_____

UST Permit #: 19440 Facility Name: McGill Grocery

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 3/6/2015 Field Work Completion: 4/6/2015
Report Submittal: 5/6/2015 # of Copies Provided to Property Owners: 2

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

Investigation Derived Waste Disposal
Soil: _____ Tons Purge Water: 300.0 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.
-Monitoring well MW-3 was not located during the initial site visit. If it is located during the sampling event, it will be sampled accordingly.
-All other monitoring wells were located during the initial site visit.

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: _____

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

N/A 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

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

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

Facility Name: McGill Grocery

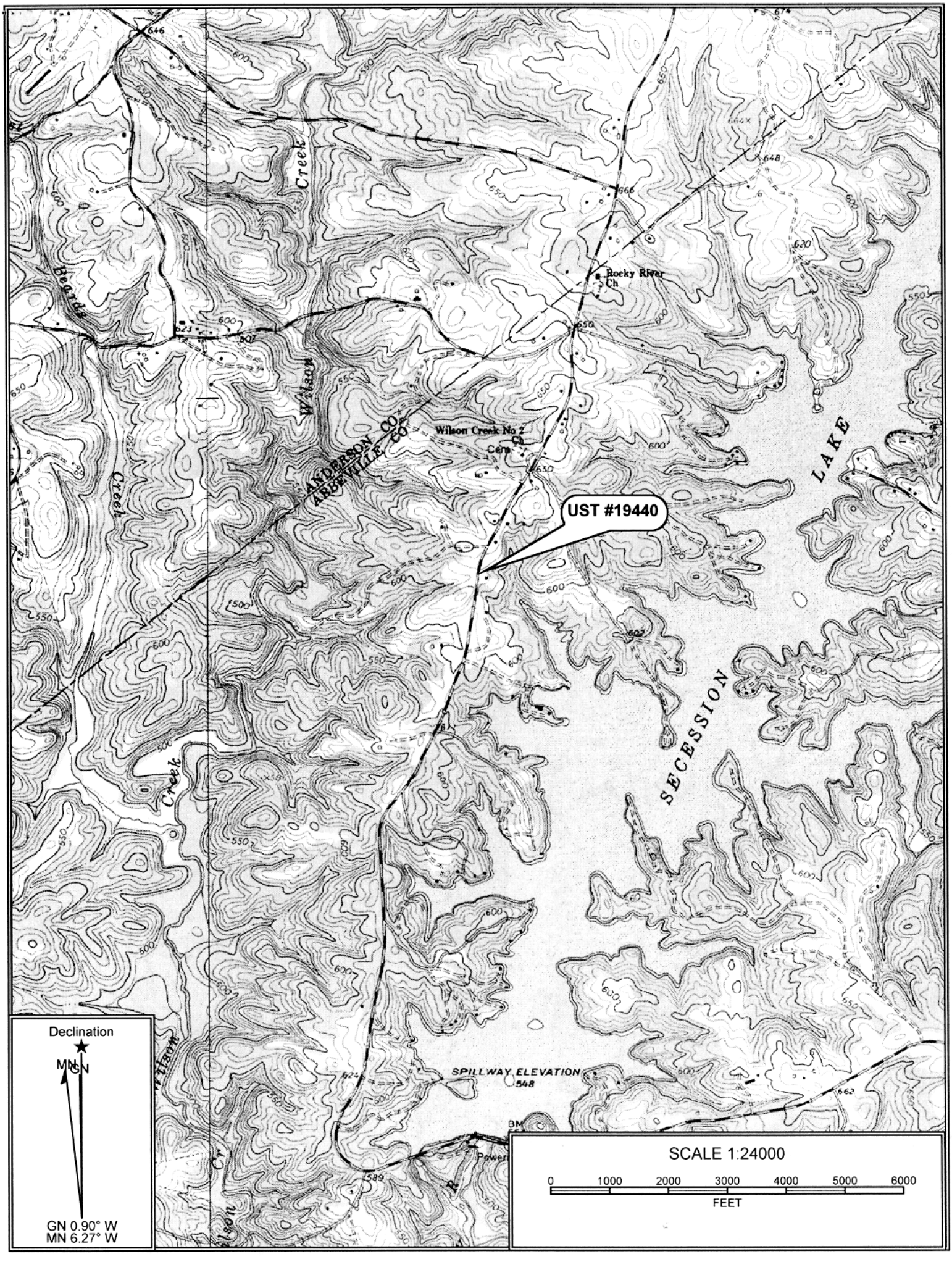
UST Permit #: 19440 **Cost Agreement #:** Proposal

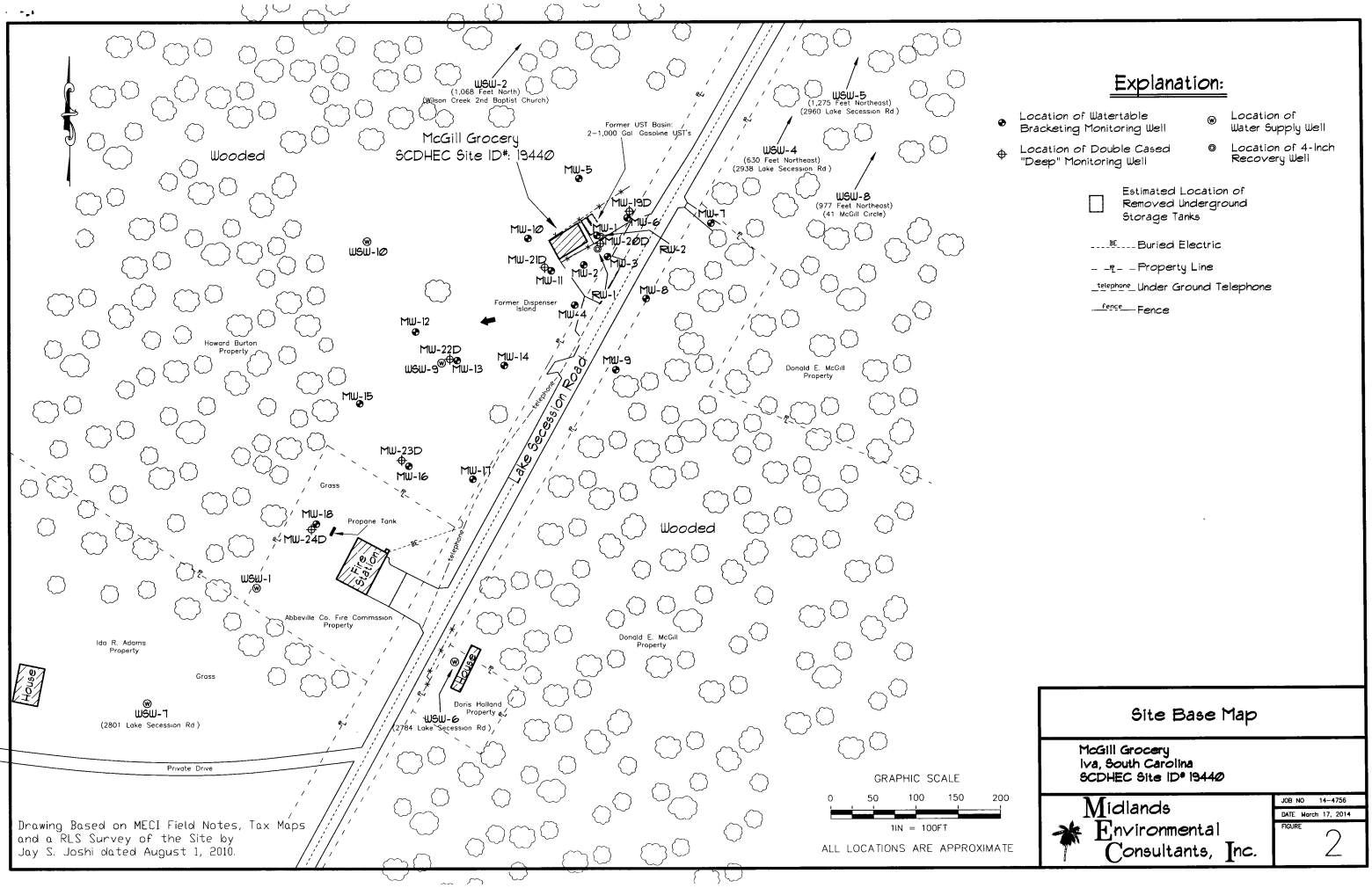
ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. **Plan Preparation**				
A1. Site-specific Work Plan	1	each	$150.00	$150.00
B1. Tax Map		each	$70.00	$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00	$0.00
2. A1. **Receptor Survey ***		each	$551.00	$0.00
3. **Survey (500 ft x 500 ft)**				
A1. Comprehensive 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	3	each	$423.00	$1,269.00
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	26	per well/receptor	$60.00	$1,560.00
B1. Air or Vapors		per receptor	$12.00	$0.00
C1. Water Supply	6	per well/receptor	$22.00	$132.00
D1. Groundwater No Purge or Duplicate	2	per well/receptor	$28.00	$56.00
E1. Gauge Well only		per well	$7.00	$0.00
F1. Sample Below Product		per well	$12.00	$0.00
G1. Passive Diffusion Bag		each	$26.00	$0.00
H1. Field Blank	1	each	$24.60	$24.60

11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	36	per sample	$122.00		$4,392.00
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	35	per sample	$45.20		$1,582.00
FF1. EDB by EPA Method 8011 Rush		per sample	$68.20		$0.00
G1. 8 RCRA Metals		per sample	$63.40		$0.00
H1. TPH (9070)		per sample	$41.00		$0.00
II. pH		per sample	$5.20		$0.00
J1. BOD		per sample	$20.00		$0.00
PP. Ethanol		per sample	$14.80		$0.00
11. **Analyses-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	300	gallon	$0.56		$168.00
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
II. 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	$9,333.60		$1,120.03
TOTAL					$10,453.63

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


UST #19440
Rocky River Ch
Wilson Creek No 2 Ch
Cem
ANDERSON CO
ABBEVILLE CO
LAKE
SECESSION
SPILLWAY ELEVATION 548
Power
Declination
MN
GN 0.90° W
MN 6.27° W
SCALE 1:24000
0 1000 2000 3000 4000 5000 6000
FEET



Site Base Map

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO 14-4756
DATE March 17, 2014
FIGURE 2

D H E C

PROMOTE PROTECT PROSPER

W. Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment

BURTON'S COUNTRY PARK LLC
1102 JETS LANDING ROAD
ABBEVILLE SC 29620

MAR 0 3 2015

Re: **Request for Property Access**
McGill's Grocery, Lake Secession Road, Iva, SC
UST Permit #19440
Release Reported January 28, 2009
Abbeville County

To Whom It May Concern:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control documented a release from the UST system at the referenced site on January 28, 2009.

To determine what risk the above reported release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, further assessment is required. The UST Management Division intends to conduct necessary assessment and remediation work using state funds from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Since you were not the owner or operator of the UST system, there will be no cost to you for the intended work. As the current property owner, the UST Management Division is requesting your permission for the contractor to enter the property to perform the necessary work and all future work. The UST Division will keep you apprised of all pending activities and provide you a copy of all reports upon request. **Please complete the attached Permission form and return it to my attention within 15 days from your date of receipt.**

If you have any questions, please contact me by phone at (803) 898-0607 or by e-mail at thrasham@dhec.sc.gov.

Sincerely,

Ashleigh Thrash

Ashleigh Thrash, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management

enc: Permission Form
cc: Technical file (w/enc)

PERMISSION FORM
PROPERTY OWNER
UST Permit #19440

If you are the Property Owner or are the authorized representative for that person, please complete this form.

I, _____, certify that I am the legal owner of the property identified below or serve as the authorized representative for the property owner. I authorize the South Carolina Department of Health and Environmental Control (Agency), or a contractor selected by the Agency, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. Compensation to the contractor will be from the SUPERB Account and I will have no obligation to pay the contractor. I understand that the Agency will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

Name of Facility _____ Phone # _____

Street Address of Facility _____

Town, City, District, Suburb _____

Name of nearest intersecting street, road, highway, or alley _____

Is this facility within the city limits? (yes or no) _____

Is this facility serviced by a public water or sewer utility? (yes or no) _____, if no, please provide the name of a person we can contact that can assist in the location of private water and septic tank lines Name_____, phone number _____

Were underground storage tanks previously removed from the ground at this facility? (yes or no) _____, if yes, please provide the name of a person we can contact that can assist in the location of the former underground storage tank excavation _____ _____, Phone number _____

Is the property currently leased or rented to someone? (yes or no) _____, if yes, please provide their name _____ and phone number _____ and let them know about the pending assessment activities. If vehicles or other mobile structures are parked over the monitoring wells, they should be moved before SCDHEC's contractor arrives at the site.

NAME of property owner (Please Print):_____

Phone Number (home)_____ (work)_____

Current Mailing Address _____

Signature of Property Owner: _____

Witness_____

Date:_____Month _____
_____ Day _____ Year

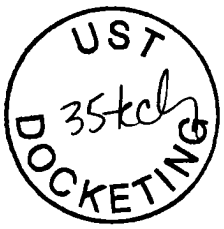
Please return to: Ashleigh Thrash, UST Management Division, 2600 Bull Street, Columbia, SC 29201

D H E C

PROMOTE PROTECT PROSPER

W Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment



MS DIANA MCMAHAN
ESTATE OF DONALD E MCGILL
PO BOX 41
IVA SC 29655

MAR 0 4 2015

Re: **Groundwater Sampling Directive**
McGill Grocery, Lake Secession Road, Iva, SC
UST Permit #19440; CA #49899
Release Reported January 28, 2009
Site Specific Work Plan Received February 24, 2015
Abbeville County

Dear Ms. McMahan:

The Underground Storage Tank (UST) Management Division (Division) of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced Site Specific Work Plan submitted on your behalf by Midlands Environmental Consultants, Inc. This scope of work will include comprehensive groundwater sampling to evaluate current site conditions. All work should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP), Revision 2.0, and must be conducted in compliance with all applicable regulations. A copy of the Agency's QAPP Rev. 2.0, for the UST Management Division is available at http://www.scdhec.gov/environment/docs/QAPP_Rev-2_April2013.pdf.

Activities at the site should begin immediately upon receipt of this letter. **Cost agreement #49899** has been approved for the amount shown on the enclosed cost agreement form for a comprehensive groundwater sampling event. Groundwater samples will be analyzed for BTEX, Naphthalene, MTBE, 1,2-DCA, 8 Oxygenates and EDB. Since it has been greater than 12 months since the last sampling event, all wells will need to be purged prior to sampling. Sampling and analyses should be conducted in accordance with Appendix E of the QAPP, Rev. 2.0, and to include duplicate samples, field and trip blanks.

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

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

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

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

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

On all correspondence regarding this site, please reference **UST Permit #19440** and **CA #49899**. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0607 or by e-mail at thrasham@dhec.sc.gov.

Sincerely,

Ashleigh Thrash

Ashleigh Thrash, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Midlands Environmental Consultants, Inc., PO Box 854, Lexington, SC 29073 (w/ enc)
Technical File (w/ enc)

Approved Cost Agreement 49899

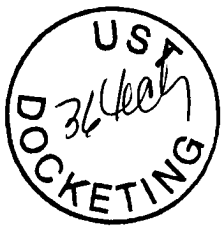
Facility 19440 MCGILL GROCERY
THRASHAM
PO Number

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
01 PLAN						
		A1	SITE SPECIFIC WORK PLAN	1 0000	150.00	150 00
04 MOB/DEMOB						
		B1	PERSONNEL	3 0000	423 00	1,269 00
10 SAMPLE COLLECTION						
		A1	GROUNDWATER (PURGE)	26.0000	60 00	1,560.00
		C1	WATER SUPPLY	10.0000	22 00	220 00
		D1	GROUNDWATER NO PURGE/DUPLICATE	2 0000	28 00	56.00
		H1	FIELD BLANK	1.0000	24 60	24.60
11 ANALYSES	GW GROUNDWATER					
		A2	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	41 0000	122 00	5,002 00
		F1	EDB BY 8011	39 0000	45.20	1,762.80
17 DISPOSAL						
		AA	WASTEWATER	300.0000	0 56	168 00
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0 1200	10,212 40	1,225 49
				Total Amount		11,437 89

D H E C
PROMOTE PROTECT PROSPER
Catherine B. Templeton, Director
Promoting and protecting the health of the public and the environment

MS DIANA MCMAHAN
ESTATE OF DONALD E MCGILL
PO BOX 41
IVA SC 29655

MAR 0 4 2015



Re: State Lead Selection Form
McGill Grocery, Lake Secession Road, Iva, SC
UST Permit #19440
Release reported January 28, 2009
Estate Closing/WSW Abandonment Letter received April 7, 2014
Phone Conversation on March 2, 2015
Abbeville County

Dear Ms. McMahan:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) received a report of a release on January 28, 2009 documenting petroleum impact in the subsurface in the vicinity of the UST system at the above referenced facility. Our records show that the USTs were owned by the estate of Donald McGill at the time of the release. On April 7, 2014, we received correspondence containing documents that show the estate has since been closed.

Records indicate that you were designated as the personal representative for the estate of Donald McGill. In a phone conversation on March 2, 2015 you indicated your interest in having the UST Management Division select a contractor and manage future rehabilitation activities on your behalf. Enclosed is a form to fill out which informs the Agency of your wish to change from the tank Owner/Operator Lead option to the State Lead option. **Please complete the enclosed permission form and return it to my attention within fifteen days of the date of this letter.**

If you have any questions, please contact me at (803) 898-0607. I can also be reached by email at thrasham@dhec.sc.gov or by fax at (803) 898-0673.

Sincerely,

Ashleigh Thrash

Ashleigh Thrash, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: State Lead Selection Permission Form

cc: Technical File (with enc.)

PERMISSION FORM
UNDERGROUND STORAGE TANK OWNER

UST Permit #19440

If you are the owner of the former or existing underground storage tanks or are designated as their authorized representative, but do not own the property, please complete this form.

I, _____ certify that I am the legal owner of the underground storage tank(s) located at the facility identified below or serve as the authorized representative for the UST owner. I grant permission to the South Carolina Department of Health and Environmental Control (Agency) to secure on my behalf services of a contractor to conduct assessment and corrective action activities, as required. The contractor will be designated as my contractor for only the required environmental site rehabilitation activities. Compensation to the contractor will be from the SUPERB Account and I will have no obligation to pay the contractor. I understand that Agency will be responsible for obtaining right-of-entry from the property owner and notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of each environmental report. I understand that I may choose to select my own contractor at the completion of any phase of work by notifying the Bureau of Underground Storage Tank Management in writing.

Name of Facility _____Phone # _____

Street Address of Facility _____

Town, City, District, Suburb _____

Name of nearest intersecting street, road, highway, or alley_____

Is this facility within the city limits? (yes or no) _____Does a public water or sewer utility service this facility? (yes or no) _____, if no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines _____Phone number _____

Were underground storage tanks previously removed from the ground at this facility? (yes or no)_ _____ If yes, please provide the name of a person we can contact that can assist in the location of the former underground storage tank excavation _____
Phone number _____

Is the property currently leased or rented to someone? (yes or no) _____. If yes, please provide their name _____and phone number _____and let them know about the pending assessment activities. If vehicles or other mobile structures are parked over the former or existing underground storage tanks, they should be moved before the Agency's contractor gets to the site.

NAME of former UST owner (Please Print):_____

Phone Number (home)_____ (work)_____

Signature of former UST Owner (or authorized representative):

_____

Witness:_____

Date Signed:_____

Return to Ashleigh Thrash, UST Management Division, 2600 Bull Street, Columbia, SC 29201

UST
MAR 1 1 2015
PROGRAM

PERMISSION FORM
PROPERTY OWNER
UST Permit #19440

If you are the Property Owner or are the authorized representative for that person, please complete this form.

I, Edna S. Burton, certify that I am the legal owner of the property identified below or serve as the authorized representative for the property owner. I authorize the South Carolina Department of Health and Environmental Control (Agency), or a contractor selected by the Agency, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. Compensation to the contractor will be from the SUPERB Account and I will have no obligation to pay the contractor. I understand that the Agency will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

Name of Facility McGill's Grocery (+ Rental Mobile Home) Phone # 864-446-7057

Street Address of Facility 2859 Lake Secession Rd + 2829 Lake Secession Rd

Town, City, District, Suburb Iva SC 29655

Name of nearest intersecting street, road, highway, or alley Hwy 284 + Lake Secession Rd

Is this facility within the city limits? (yes or no) NO

Is this facility serviced by a public water or sewer utility? (yes or no) NO, if no, please provide the name of a person we can contact that can assist in the location of private water and septic tank lines Name Howard Burton
phone number 864-933-5421 or home 864-446-7057

Were underground storage tanks previously removed from the ground at this facility? (yes or no) yes, if yes, please provide the name of a person we can contact that can assist in the location of the former underground storage tank excavation Howard Burton (per McGill's Daughter), Phone number 864-446-7057

Is the property currently leased or rented to someone? (yes or no) yes (mobile home), if yes, please provide their name Kareimeh Bash and phone number 934-5582 and let them know about the pending assessment activities. If vehicles or other mobile structures are parked over the monitoring wells, they should be moved before SCDHEC's contractor arrives at the site.

NAME of property owner (Please Print): Edna S. Burton

Phone Number (home) 864-446-7057 (work) Retired (Howard 864 933-5421)

Current Mailing Address 1102 Jots Landing Rd, Abbeville SC 29620

Signature of Property Owner: Edna S Burton

Witness Howard Burton

Date: 3-7-15
Month March
7 Day 2015 Year

UST
3M tech
DOCKETING

Please return to: Ashleigh Thrash, UST Management Division, 2600 Bull Street, Columbia, SC 29201

D H E C

PROMOTE PROTECT PROSPER

W. Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment

Edna S. Burton

~~**BURTON'S COUNTRY PARK LLC**~~

1102 JETS LANDING ROAD

ABBEVILLE SC 29620

the LLC was dissolved, please change name to our name thanks

MAR 0 3 2015

Re: **Request for Property Access**
McGill's Grocery, Lake Secession Road, Iva, SC
UST Permit #19440
Release Reported January 28, 2009
Abbeville County

To Whom It May Concern:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control documented a release from the UST system at the referenced site on January 28, 2009.

To determine what risk the above reported release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, further assessment is required. The UST Management Division intends to conduct necessary assessment and remediation work using state funds from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Since you were not the owner or operator of the UST system, there will be no cost to you for the intended work. As the current property owner, the UST Management Division is requesting your permission for the contractor to enter the property to perform the necessary work and all future work. The UST Division will keep you apprised of all pending activities and provide you a copy of all reports upon request. **Please complete the attached Permission form and return it to my attention within 15 days from your date of receipt.**

If you have any questions, please contact me by phone at (803) 898-0607 or by e-mail at thrasham@dhec.sc.gov.

Sincerely,

Ashleigh Thrash

Ashleigh Thrash, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management

enc: Permission Form
cc: Technical file (w/enc)

UST
MAR 1 1 2015
PROGRAM

PERMISSION FORM
UNDERGROUND STORAGE TANK OWNER

UST Permit #19440

If you are the owner of the former or existing underground storage tanks or are designated as their authorized representative, but do not own the property, please complete this form.

I, Diana Mc Mahan certify that I am the legal owner of the underground storage tank(s) located at the facility identified below or serve as the authorized representative for the UST owner. I grant permission to the South Carolina Department of Health and Environmental Control (Agency) to secure on my behalf services of a contractor to conduct assessment and corrective action activities, as required. The contractor will be designated as my contractor for only the required environmental site rehabilitation activities. Compensation to the contractor will be from the SUPERB Account and I will have no obligation to pay the contractor. I understand that Agency will be responsible for obtaining right-of-entry from the property owner and notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of each environmental report. I understand that I may choose to select my own contractor at the completion of any phase of work by notifying the Bureau of Underground Storage Tank Management in writing.

UST
38 feet
DOCKETING

Name of Facility McGill's Grocery Phone # N/A

Street Address of Facility Route 1 Lake Secession Rd

Town, City, District, Suburb Iva, SC 29655

Name of nearest intersecting street, road, highway, or alley McGill Cir / Lake Secession Rd

Is this facility within the city limits? (yes or no) No Does a public water or sewer utility service this facility? (yes or no) No, if no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines Mr. Howard Burton Phone number C: 864-933-5421 H: 864-933-5421

Were underground storage tanks previously removed from the ground at this facility? (yes or no) Yes If yes, please provide the name of a person we can contact that can assist in the location of the former underground storage tank excavation Midlands Environmental Phone number 803-808-2043

Is the property currently leased or rented to someone? (yes or no) No (Sold). If yes, please provide their name Mr. Howard Burton and phone number C: 864-933-5421 and let them know about the pending assessment activities. If vehicles or other mobile structures are parked over the former or existing underground storage tanks, they should be moved before the Agency's contractor gets to the site.

NAME of former UST owner (Please Print): Donald E. McGill Estate (Diana McMahan "Former" Personal Rep.)

Phone Number ~~(home)~~ Cell: 706-755-6701 (work) N/A

Signature of former UST Owner (or authorized representative):

Diana McMahan, Former Personal Representative

Witness: Betty J. Wiles

Date Signed: 3-9-15

Return to Ashleigh Thrash, UST Management Division, 2600 Bull Street, Columbia, SC 29201

D H E C

PROMOTE PROTECT PROSPER

W. Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment

ANGELA BAIONI
PACE ANALYTICAL SERVICES
9800 KINCEY AVE STE 100
HUNTERSVILLE NC 28078

APR 10 2015

Re: Laboratory Analyses Approval
Bid # IFB-5400007867-05/14/14-EMW; PO#4600363417

Dear Ms. Baioni:

Under the terms and conditions of the referenced bid package, analytical sampling has been approved for the referenced facility. The facility has been assigned an individual Cost Agreement (CA) number as listed below. Please reference the CA number and Purchase Order #4600363417 on the appropriate invoice submitted for payment against the facility.

UST Permit #	Facility	Analyses-Groundwater	CA #
19440	McGill Grocery	4-BTEXNM, 1,2-DCA, Oxygenates	50115

* Analyses requested do not include field, trip or duplicate samples.

If you have any questions or need further assistance, please contact John Bryant at (803) 898-0606 or bryantjc@dhec.sc.gov.

Sincerely,

Ashleigh Thrash

Ashleigh Thrash, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land & Waste Management

Enc: Approved Cost Agreement

cc: Technical File

Approved Cost Agreement 50115

Facility: 19440 MCGILL GROCERY
THRASHAM
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
11 ANALYSES						
	GW GROUNDWATER	A2	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	7.0000	19.00	133.00
		B2	8260B RUSH	7.0000	19.00	133.00
				Total Amount		266.00

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

JUL 16 2009

MS DIANA MCMAHAN PERSONAL REPRESENTATIVE
ESTATE OF DONAL E MCGILL
4520 DERRYCLARE LANE
EVANS GA 30809

Re: Tier I Directive
McGill Grocery, Flat Rock Rd, Iva, SC
UST Permit #19440; Cost Agreement #36418; MWA #UMW-22915
Release reported November 20, 2008
IGWA report received June 4, 2009
Abbeville County

Dear Ms McMahan:

The Underground Storage Tank (UST) Program recognizes your commitment to continue work at this site using Midlands Environmental Consultants, Incorporated, as your contractor. The Program has reviewed the referenced report and has determined the next scope of work is a Tier I Assessment. The Tier I assessment document and appendices may be obtained from our website at http://www.scdhec.gov/environment/lwm/html/ust_guidance_docs.htm.

The Program has pre-approved a total of $11,230.00 for implementation of the Tier I Assessment. The total includes costs for completion of up to 75 feet of permanent monitoring well footage. Additional monitoring well footage can be billed at the SUPERB allowable rate of $38 per foot provided that the cost is pre-approved by the Program. Please note that in addition to the sample analyses required in the Tier I Guidance Document, all initial assessment activities are now required to include analyses for lead and EDB as directed in the October 10, 2003 SUPERB Allowable Costs Document. Also, if any drinking water wells are located within 1000 feet of the UST system, a water sample shall be obtained from the well(s) and analyzed for the appropriate parameters.

Midlands Environmental Consultants, Incorporated, can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

The assessment report and invoice are due within sixty (60) days from the date of this letter. If the invoice is not submitted within one hundred and twenty (120) days from the date of this letter, monies allocated to pay for the work will be uncommitted. This means that invoices for the scope of work submitted after the 120-day deadline will not be processed for payment until all other committed funds are paid or monies become available.

Implementation of the Tier I Assessment may proceed immediately upon receipt of this correspondence. Approval to install three permanent monitoring wells is enclosed. Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Also note that only EPA Method 8260B will be accepted for analysis of volatile organic hydrocarbons except EDB must be analyzed under EPA Method 8011 for the lower detection limit. Any site

UST DOCKET

rehabilitation activity associated with the UST release must be performed by a SCDHEC-certified site rehabilitation contractor as required by R.61-98.

The Department 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 COC concentrations, based on laboratory analysis, are 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 #19440 you have any questions concerning this correspondence, please call at (803) 896-6396. I can also be reached by email at bosnicvj@dhec.sc.gov or by fax at (803) 896-6245.

Sincerely,

Victoria F Bosnick

Victoria Bosnick, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved cost agreement
Monitoring well approval

cc: Midlands Environmental Consultants, Inc., PO Box 854, Lexington, SC 29071 (with enc)
Technical file (with enc)

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

Monitoring Well Approval

Approval is hereby granted to: Midlands Environmental Consultants, Inc.
(On behalf of:) Estate of Donald E. McGill
Facility: McGill's Grocery, Flat Rock Rd, Iva, SC
UST Permit Number: 19440
County: Abbeville

This approval is for the installation of three (3) groundwater monitoring wells. The monitoring wells are to be installed in the approved locations. Monitoring wells are to be installed following the South Carolina Well Standards, R.61-71, and the applicable guidance documents.

Please note that R.61-71 requires the following:

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.

2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.

3. A Water Well Record Form or other form provided or approved by the Department shall be completed and submitted to the Department within 30 days after well completion or abandonment unless another schedule has been approved by the Department. 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 Department within 30 days of receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.d.

5. If any of the information provided to the Department changes, notification to Victoria Bosnick the project manager (tel: (803) 896-6396 or e-mail: bosnicvj@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. Departmental 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 April 26, 2002. A copy of this approval should be on the site during well installation.

Date of Issuance: **June 11, 2009** **Approval #:** **UMW-22975**

Victoria J Bosnick

Victoria Bosnick, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Approved Cost Agreement 36418

Facility: 19440 MCGILL GROCERY
BOSNICVJ
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
20 TIER I					
		TIER I	1.0000	11,230.00	11,230.00
			Total Amount		11,230.00

D H E C

PROMOTE PROTECT PROSPER

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

To: Ashleigh Thrash (SCDHEC Project Manager)
From: Ashleigh Thrash (Contractor Project Manager)
Contractor: SCDHEC UST Contractor Certification Number: UCC-0116

Facility Name: McGill Grocery UST Permit #: 19440
Facility Address: Rt. 1 Lake Secession Road, Iva, South Carolina
Responsible Party: Estate of Donald McGill (Former PR: Diana McMahan) Phone: 706-755-6701
RP Address: PO Box 41, Iva, SC
Property Owner (if different): Edna S. Burton
Property Owner Address: 2859 Lake Secession Rd, Iva, SC
Current Use of Property: Commercial

UST Hotel DOCKETING

Scope of Work (Please check all that apply)

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

Analyses (Please check all that apply)

Groundwater/Surface Water:

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

Soil:

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

Air:

☐ BTEXN

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

____ Soil 4 Water Supply Wells ____ Air 1 Field Blank
____ Monitoring Wells ____ Surface Water 1 Duplicate 1 Trip Blank

Field Screening Methodology

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

# of shallow points proposed: ____ 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: ____ Estimated Footage: ____ feet per point
# of deep wells: ____ Estimated Footage: ____ feet per point
# of recovery wells: ____ Estimated Footage: ____ feet per point
Monitoring Well development method (consistent with SOP): ____
Comments, if warranted:

UST Permit #: 19440 Facility Name: McGill Grocery

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 10 Field Work Completion: 11
Report Submittal: _____ # of Copies Provided to Property Owners: _____

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

Investigation Derived Waste Disposal
Soil: _____ Tons Purge Water: _____ 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.
Sampling of 4 WSW to confirm detects reported by MECI on April 8, 2015

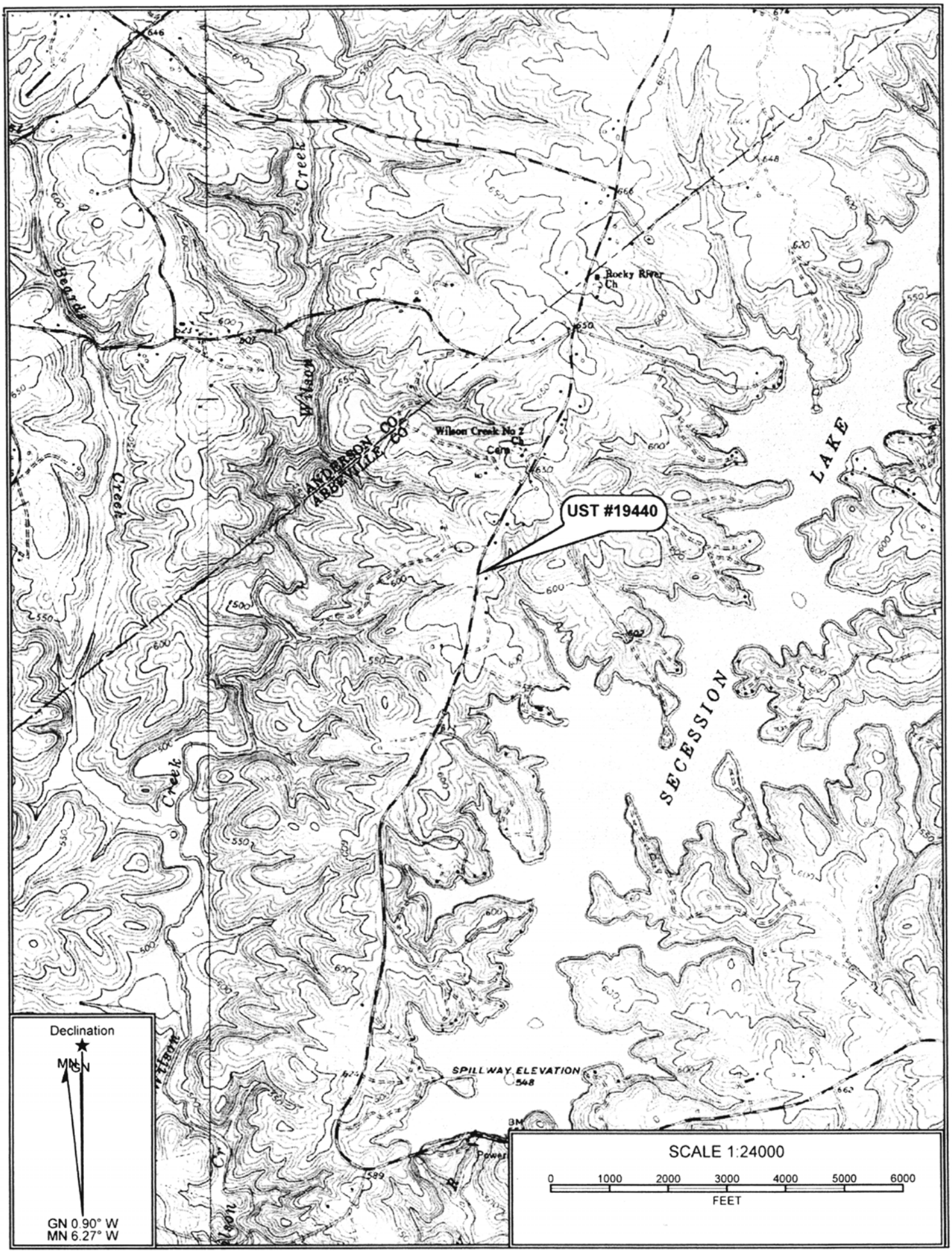
Will allow WSWs to run at least 15 Mins. prior to sample collection

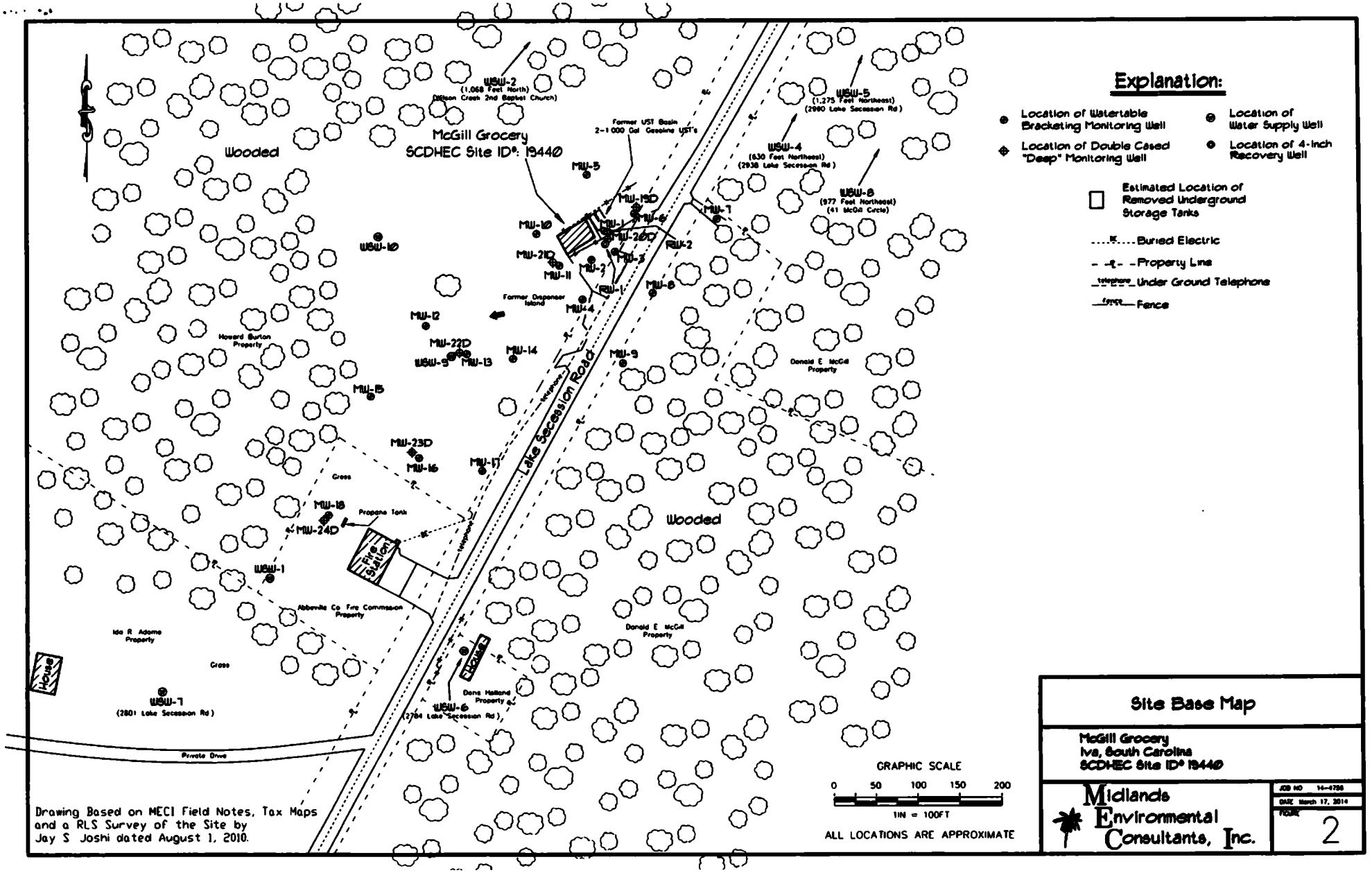
Compliance With Annual Contractor Quality Assurance Plan (ACQAP)
Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.
Name of Laboratory: _____
SCDHEC Certification Number: _____
Name of Laboratory Director: _____

____ Well Driller as indicated in ACQAO? (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


UST #19440
SECESSION LAKE
Wilson Creek
Beards Creek
Wilson Creek No 2
Rocky River Ch
ANDERSON CO
ABBEVILLE CO
SPILLWAY ELEVATION
548
Declination
MN
GN
GN 0.90° W
MN 6.27° W
SCALE 1:24000
0
1000
2000
3000
4000
5000
6000
FEET



Site Base Map

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO 14-0786
DATE March 17, 2014
FIGURE 2

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

ASSESSMENT COMPONENT COST AGREEMENT

SOUTH CAROLINA

Department of Health and Environmental Control

Underground Storage Tank Management Division

State Underground Petroleum Environmental Response Bank Account

CONTRACT PO NUMBER 4600363417

Facility Name: McGill Grocery

UST Permit #: 19440 **Cost Agreement #:** 50115

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
11. Laboratory Analyses-Groundwater				
A. BTEXM		per sample	$17.00	$0.00
A1. BTEXMN + DCA		per sample	$18.00	$0.00
A2. BTEXMN + Oxygenates + DCA	7	per sample	$19.00	$133.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	$13.00	$0.00
D1. PAH's		per sample	$40.00	$0.00
E1. Lead		per sample	$10.00	$0.00
F1. EDB by EPA 8011		per sample	$18.00	$0.00
G1. 8 RCRA Metals		per sample	$44.00	$0.00
H1. TPH (9070)		per sample	$20.00	$0.00
I1. pH		per sample	$5.00	$0.00
K. Nitrate		per sample	$10.00	$0.00
L. Sulfate		per sample	$10.00	$0.00
M. Ferrous Iron		per sample	$9.00	$0.00
N. Methane		per sample	$35.00	$0.00
P. Oxygenates		per sample	$13.00	$0.00
18. Full List 8260		per sample	$45.00	$0.00
18. Full List 8270		per sample	$100.00	$0.00
18. Total Organic Carbon		per sample	$20.00	$0.00
11. **Analyses-Soil**				
Q1. BTEX + Naphth.		per sample	$25.00	$0.00
R1. PAH's		per sample	$45.00	$0.00
S1. 8 RCRA Metals		per sample	$44.00	$0.00
T. TPH (waste oil)		per sample	$25.00	$0.00
U1. TPH-DRO (3550C/8015C)		per sample	$25.00	$0.00
V1. TPH- GRO (5030B/8015C)		per sample	$25.00	$0.00
X1. Total Organic Carbon		per sample	$20.00	$0.00
18 Lead		per sample	$11.00	$0.00
18 TCLP		per sample	$25.00	$0.00
11. **Analyses-Air**				
18. BTEX + Naphthalene		per sample	$70.00	$0.00
18. PAH Air		per sample	$90.00	$0.00
Expedite Rate (11B)	2	each		$0.00
TOTAL				$133.00

D H E C

Underground Storage Tank Management Division
Field Data Information Sheet – ~~Monitoring Well Gauging~~ Water Supply Well Sampling

Site Information

Date: 4/14/15	Site ID #: 19440	Site Name: McGills Grocery
County: Abbeville	Project Manager: Ashleigh Thrash	Field Personnel: Ashleigh Thrash/John Bryant

Well Gauging Information

Well ID:	Total Well Depth (ft.) DATE	Screened Interval (ft.) Time	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?
WSW 8	4/14	10:55								
WSW 10	4/14	11:05								
WSW 1	4/14	11:20								
Field blank	4/14	11:25								
WSW 7	4/14	11:35								
WSW 7 (DUP)	4/14	11:35								
trip blank	4/14									

UST 4/4/2015 DOCKETING

Notes: Analyses: BTEX, Napth, DCA, OXYS
24 hr quick turn

Signature: Ashleigh Thrash

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1906799

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: SCDHEC	Report To: John Bryant	Attention: Angela Baioni
Address: 2600 Bull St	Copy To:	Company Name: PACE
columbia SC 29210		Address:
Email To: bryantjc@dhec.sc.gov	Purchase Order No.:	Pace Quote Reference:
Phone: (803) 898 0607 Fax:	Project Name: McGills Grocery	Pace Project Manager:
Requested Due Date/TAT:	Project Number: UST#19440 / CH#50115	Pace Profile #:

REGULATORY AGENCY

- [ ] NPDES
- [ ] GROUND WATER
- [x] DRINKING WATER
- [x] UST
- [ ] RCRA
- [ ] OTHER _____

Site Location STATE: SC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	BTEX, ID, DCA, oxys	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WSW-8	DW	G			4/14	10:55	~~3~~	4				X						X		low detection/water supply
2	WSW-10	DW	G			4/14	11:05	~~3~~	4				X						X		
3	WSW-1	DW	G			4/14	11:20	~~3~~	4				X						X		
4	Field Blank	DW	G			4/14	11:25	~~2~~	2				X						X		
5	WSW-7	DW	G			4/14	11:35	~~3~~	2				X						X		
6	WSW-7 DUP	DW	G			4/14	11:35	~~2~~	2				X						X		
7	trip blank	DT	G			4/14		~~2~~	3				X						X		
8																					
9																					
10																					
11																					
12																					

UST DOCKETING

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
24 hr Quickturn	[signature]	4/15/15	940	[signature] Pace	04-15-15	09:40	

2

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ashleigh Thresh

SIGNATURE of SAMPLER: Ashleigh Thresh

DATE Signed (MM/DD/YY): 4/14/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

UST
Ashleigh
APR 2 3 2015
PROGRAM

UST
42 tech
DOCKETING

REPORT OF GROUNDWATER SAMPLING AND CHEMICAL ANALYSES

McGill Grocery
Lake Secession Road
Ivs, South Carolina
SCDHEC SITE ID 19440
CA # 49899

Prepared By:

Midlands
Environmental
Consultants, Inc.
231 Dooley Road, Lexington, SC 29073
(803) 808-2043 fax: 808-2048

RECEIVED
APR 23 2015
SC Department of
Health and Environmental
Control

April 9, 2015

MECI Project No. 15-5116

REPORT OF GROUNDWATER SAMPLING AND CHEMICAL ANALYSES

McGill Grocery
Lake Secession Road
Iva, South Carolina
SCDHEC SITE ID 19440
CA # 49899

Prepared By:

Midlands Environmental Consultants, Inc.
231 Dooley Road, Lexington, SC 29073
(803) 808-2043 fax: 808-2048

April 9, 2015

MECI Project No. 15-5116

Midlands Environmental Consultants, Inc.

April 9, 2015

Ms. Ashleigh Thrash, Hydrogeologist
Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Report of Groundwater Sampling and Chemical Analyses
McGill Grocery
Lake Secession Road
Iva, South Carolina
SCDHEC Site ID# 19440, CA #49899
MECI Project Number 15-5116
Certified Site Rehabilitation Contractor UCC-0009

Dear Ms. Thrash,

On behalf of Ms. Diana McMahan, Representative for the Estate of Donald McGill, Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling and Chemical Analyses for the referenced site. This report describes assessment activities conducted at the site and results of those activities in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines, including adherence to the UST Division Programmatic Quality Assurance Program Plan (QAPP).

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Jeff L. Coleman
Senior Scientist

Bryan T. Shane, P.G.
Principal Geologist

Post Office Box 854, Lexington SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

TABLE OF CONTENTS

1.0 INTRODUCTION 1

1.1 PROJECT INFORMATION 1

2.0 SURROUNDING PROPERTY USAGE 2

3.0 AREA GEOLOGY AND HYDROGEOLOGY 2

3.1 LOCAL SUBSURFACE CONDITIONS 3

4.0 FIELD EXPLORATION 3

4.1 MONITORING WELL SAMPLING AND CHEMICAL ANALYSES 3
4.2 WATER SUPPLY WELL SAMPLING AND CHEMICAL ANALYSES 5

5.0 TEST RESULTS AND EVALUATION 6

5.1 GROUNDWATER ANALYTICAL RESULTS 6
5.2 WATER SUPPLY WELL ANALYTICAL RESULTS 6

6.0 ASSESSMENT SUMMARY & RECOMMENDATIONS 7

7.0 QUALIFICATIONS OF REPORT 8

TABLE OF CONTENTS (cont.)

TABLES:

**Table 1 – SOIL ANALYTICAL RESULTS
Table 2 – POTENTIOMETRIC DATA
Table 3 – GROUNDWATER COC CONCENTRATION DATA
Table 3A – GROUNDWATER COC CONCENTRATION DATA (OXYGENATES)
**Table 4 – AQUIFER CHARACTERISTICS
**Table 5 – SITE CONCEPTUAL MODEL

FIGURES:

Figure 1 – TOPOGRAPHIC MAP
Figure 2 – SITE BASE MAP
**Figure 3 – SOIL COC SITE MAP
Figure 4 – GROUNDWATER COC SITE MAP
Figure 4B – GROUNDWATER COC SITE MAP (MTBE ISOPLETH)
Figure 4C – GROUNDWATER COC SITE MAP (OXYGENATES)
Figure 5 – POTENTIOMETRIC DATA SITE MAP (GROUNDWATER CONTOUR)
**Figure 6 – GEOLOGIC CROSS SECTIONS

**APPENDIX A – SITE SURVEY
APPENDIX B – SAMPLING LOGS, LABORATORY DATA SHEETS AND CHAIN OF CUSTODY FORMS
**APPENDIX C – TAX MAP DATA
**APPENDIX D – SOIL BORING/FIELD SCREENING LOGS & 1903 FORMS
**APPENDIX E – WELL LOGS & 1903 FORMS
**APPENDIX F – AQUIFER EVALUATION SUMMARY FORMS, DATA, GRAPHS, EQUATIONS
APPENDIX G – DISPOSAL MANIFESTS
**APPENDIX H – LOCAL ZONING REGULATIONS
**APPENDIX I – FATE & TRANSPORT MODELING
**APPENDIX J – ACCESS AGREEMENTS
APPENDIX K – DATA VERIFICATION CHECKLIST

NOTE: ITEMS LISTED WITH AN ** BESIDE IT WERE NOT NEEDED AS A PART OF THIS SCOPE OF WORK

1.0 INTRODUCTION

A. **Owner/Operator Information**

Facility Name:	McGill Grocery	UST Permit #:	19440
Facility Address:	Lake Secession Road, Iva, SC 29655		
Name:	Estate of Donald McGill		
Address:	P.O. Box 41, Iva, SC 29655		
Telephone #:	(706) 755-6700 (Ms. Diana McMahan)		

B. **Property Owner Information**

Name	Mr. Howard Burton
Tax Map #:	Abbeville Co. Tax Map#: 045-00-00-084
Address	1102 Jet Landing Road, Abbeville, SC 29620
Telephone #	(864) 446-7057 or (864) 933-5421

C. **Contractor Information**

Name:	Midlands Environmental Consultants, Inc.
Certification #:	9
Address:	P. O. Box 854, Lexington, SC 29071
Telephone #:	(803) 808-2043

D. **SCDHEC Certified Well Driller**

Name:	N/A
Driller:	N/A
Certification #:	N/A
Address:	N/A
Telephone #:	N/A

E. **SCDHEC Certified Laboratory**

Name:	Pace Analytical Services, Inc.
Certification #:	99006001
Address:	9800 Kincey Avenue / Suite 100, Huntersville, NC 28078
Telephone #:	(704) 875-9092

1.1 PROJECT INFORMATION

The subject site (McGill Grocery) is located near the intersection of Lake Secession Road and McGill Circle, Iva, Abbeville County, South Carolina (see Figure 1). The subject site consists of an approximately 18.05 acre parcel that is occupied by an abandoned gasoline service station, the remainder of the property is currently under development into a mobile home park. The subject site formerly maintained two 1,000-gallon gasoline underground storage tanks (UST'S). A release of petroleum product was reported on January 28, 2009.

MECI conducted an Initial Groundwater Assessment (IGWA) in May of 2009. This assessment included the installation of one monitoring well, collection of soil samples, and collection of groundwater samples. MECI conducted a Tier I Assessment in July of 2009. This assessment included the installation of three monitoring wells, collection of soil samples, collection of

groundwater samples, and aquifer slug tests. During the Tier I Assessment groundwater samples were collected from six water supply wells (WSW-1, WSW-4, WSW-5, WSW-6, WSW-7, and WSW-8). Analytical results indicate petroleum impact to water supply wells WSW-1 and WSW-7. MTBE was detected in WSW-1 at 16.1 micrograms per liter on July 28, 2009, and 3.9J micrograms per liter on August 07, 2009. MTBE was detected in WSW-7 at 2.2J micrograms per liter on July 28, 2009 and August 07, 2009. MECI conducted a Tier II Assessment in July of 2010. This assessment included the installation of twenty monitoring wells, collection of ground water samples, and aquifer slug tests. During the Tier II Assessment groundwater samples were collected from eight water supply wells (WSW-1, WSW-2, and WSW-4 through WSW-9). Analytical results indicate petroleum impact to water supply wells WSW-1 WSW-7, and WSW-9. MTBE was detected in WSW-1 at 2.2 micrograms per liter on July 28, 2010. MTBE was detected in WSW-7 at 4.3 micrograms per liter on July 28, 2010. Toluene was detected in WSW-9 at 0.72J micrograms per liter on July 28, 2010.

Prior to commencement of the field activities described in this document, a Site Specific Work Plan (SSWP) was completed by MECI personnel, submitted to SCDHEC and approved by the SCDHEC project manager.

The above project information is based on MECI field notes and SCDHEC files.

2.0 SURROUNDING PROPERTY USAGE

The site is located outside the town limits of Iva, Abbeville County, South Carolina. The site is located on Lake Secession Road near the intersection of McGill Circle and Lake Secession Road. The properties immediately surrounding the site are residential and wooded parcels. Lake Secession Road borders the site to the east, beyond which are residential properties. To the south of the subject site is the McGill Volunteer Fire Department, beyond which is a residential property. To the north of the subject site is Wilson Creek Second Baptist Church, beyond which are residential properties. West of the subject site is wooded, beyond which is Wilson Creek.

3.0 AREA GEOLOGY AND HYDROGEOLOGY

The mean elevation of the property, as depicted on the local USGS quadrangle (Antreville and Iva, SC), appears to be approximately 650 feet above sea level. The site is located in the Piedmont Physiographic Province of South Carolina, an area underlain by ancient igneous and metamorphic rocks. The soils in this province are generally residual soils that are underlain by rock at highly varying depths.

The soils encountered in this area are the product of in-place weathering of rocks similar to the rocks underlying the site. In areas not altered by erosion or disturbed by the activities of man, the typical residual soil profile consists of near surface clayey soils and underlying sandy silt and sand. The boundary between soil and rock is gradational. A transitional zone termed "weathered rock" is normally found overlying the parent bedrock. This zone is typically the most transmissive zone for groundwater movement. Consequently, the topography of the bedrock surface is uneven, even over short horizontal distances. It is not unusual to find lenses and boulders of hard rock and zones of weathered rock within the soil mantle well above the general bedrock level.

Local precipitation is the source of practically all of the groundwater in Abbeville County. A portion of the precipitation infiltrates into the ground and moves under the influence of gravity to the surficial aquifer. After the water has reached the surficial aquifer, the direction of movement is generally

parallel to the hydraulic gradient. In the Piedmont Province, the slope of the surficial aquifer's surface under static conditions (no pumping interference) approximates the topography of an area. Thus, the movement of groundwater within the soil mantel is typically in the direction of the topographic slope. Local groundwater flow patterns may be affected by disturbed areas such as tank pits, utility trenches, building foundations, borings, wells, etc. Groundwater flow in fractured rock is often difficult to interpret due to the variability of fracture connectivity and orientation.

Locally, in the surficial aquifer, groundwater discharges into streams, lakes or springs where the groundwater table intersects lows occupied by these water bodies. The apparent direction (based on hydraulic gradient) of groundwater flow from the release is to the southwest toward, flowing toward an intermittent stream associated with Wilson Creek.

3.1 LOCAL SUBSURFACE CONDITIONS

Piedmont soils were encountered during drilling activities conducted at the site during the Tier II Assessment completed at the site in August of 2010. The soils encountered in our borings generally consisted of sandy silt, silty sand, silty clay, clayey silt, and Partially weathered rock was encountered during the construction of monitoring wells MW-6, MW-8, MW-9, MW-19D, MW-20D, MW-21D, MW-22D, MW-23D, and MW-24D.

On March 17, 2015, stabilized groundwater levels were measured in the surrounding monitoring wells. Depth to groundwater ranged from 39.39 to 58.45 feet below top of casing in the wells measured. The groundwater measurements are summarized in tabular form in Table 2 and on Figure 5. A groundwater contour map illustrating the groundwater flow direction at the site is also depicted on Figure 5. Groundwater levels may fluctuate several feet with seasonal and rainfall variations and with change in the water level of adjacent drainage features. Normally, the highest groundwater levels occur in late winter and spring. The lowest levels occur in late summer and fall.

4.0 FIELD EXPLORATION

Field exploration conducted at the site included:

- sampling of groundwater monitoring wells;
- sampling of several nearby water supply wells; and,
- chemical analyses of water samples.

4.1 MONITORING WELL SAMPLING AND CHEMICAL ANALYSES

On March 17, 2015, MECI personnel collected groundwater samples from twenty-three (23) monitoring wells at the subject site. Monitoring wells MW-2 was found to be covered by wooden cover which was unable to be opened during sampling activities. Monitoring well MW-3 was unable to be located and this well may have been possibly paved over. One monitoring well (MW-8) was gauged and determined to be vacant of sufficient water for sampling purposes. At the request of SCDHEC personnel, all monitoring wells were purged prior to sample collection. Twenty-three (23) monitoring wells were purged prior to sampling. Purging was completed by bailing three to five well volumes of water from the well, until pH, conductivity, dissolved oxygen, and turbidity stabilized, or until all available water was evacuated from the well, whichever occurred first. Sampling and

purging of all monitoring wells was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all times samples were handled. Field measurements of turbidity, pH, conductivity, dissolved oxygen, and water temperature were obtained before the well sampling process. MECI utilized YSI550A meters for DO (mg/L) and temperature readings (°C), YSI63 meters for pH and conductivity (uS) readings, and HF Scientific MicroTPI/TPW Turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained during sampling processes. All wells were sampled in accordance with SCDHEC's Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP, Revision 2.0) and MECI's Standard Operating Procedures (MECI SOP, January 2014). Groundwater samples obtained were sent to Pace Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006001) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Monitoring Well	Purge	Not Sampled	Gauge Only	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	1,2 DCA (EPA Method 8260-B)	Ethanol (EPA Method 8260-B)	EDB (EPA Method 8011)	Total Lead (EPA Method 6010)	Filtered Lead (EPA Method 6010)	8 RCRA Metals (EPA Method 6010)	TPH (EPA Method 9071)	PAH's (EPA Method 8270)
				Analyte Sampled									
MW-1	X			X	X	X	X	X					
MW-2		X											
MW-3		X											
MW-4	X			X	X	X	X	X					
MW-5	X			X	X	X	X	X					
MW-6	X			X	X	X	X	X					
MW-7	X			X	X	X	X	X					
MW-8			X										
MW-9	X			X	X	X	X	X					
MW-10	X			X	X	X	X	X					
MW-11	X			X	X	X	X	X					
MW-12	X			X	X	X	X	X					
MW-13	X			X	X	X	X	X					
MW-14	X			X	X	X	X	X					
MW-15	X			X	X	X	X	X					
MW-16	X			X	X	X	X	X					
MW-17	X			X	X	X	X	X					
MW-18	X			X	X	X	X	X					
MW-19D	X			X	X	X	X	X					
MW-20D	X			X	X	X	X	X					

Notes: BTEX = benzene, toluene, ethylbenzene, & total xylenes MTBE=methyl tertiary butyl ether 1,2 DCA = 1,2 dicloroethane
PAH = polycyclic aromatic hydrocarbons

** = Indicates Field Duplicate

Monitoring Well	Purge	No Purge	Gauge Only	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	1,2 DCA (EPA Method 8260-B)	Ethanol (EPA Method 8260-B)	EDB (EPA Method 8011)	Total Lead (EPA Method 6010)	Filtered Lead (EPA Method 6010)	8 RCRA Metals (EPA Method 6010)	TPH (EPA Method 9071)	PAH's (EPA Method 8270)
				Analyte Sampled									
MW-21D	X			X	X	X	X	X					
MW-22D	X			X	X	X	X	X					
MW-23D	X			X	X	X	X	X					
MW-24D	X			X	X	X	X	X					
RW-1	X			X	X	X	X	X					
RW-2	X			X	X	X	X	X					
MW-1 Dup**		X		X	X	X	X	X					
RW-1 Dup.**		X		X	X	X	X	X					
Field Blank				X	X	X	X	X					
Trip Blank				X	X	X	X						

Notes: BTEX = benzene, toluene, ethylbenzene, & total xylenes MTBE=methyl tertiary butyl ether 1,2 DCA = 1,2 dicloroethane PAH = polycyclic aromatic hydrocarbons

**** = Indicates Field Duplicate**

The results of the laboratory analyses are summarized in Table 3 & 3A and presented in Appendix B.

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 96.75 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is presented in Appendix G.

4.2 WATER SUPPLY WELL SAMPLING AND CHEMICAL ANALYSES

On December 2, 2013, MECI personnel sampled six water supply wells (WSW-1, WSW-4, WSW-5, WSW-7, WSW-8, and WSW-10). The following matrix contains well status, owner(s), and tax map identification numbers:

Water Supply Well Number	Well Owner	Abbeville County Tax Map Number:	Notes:	Well Status
WSW-1	Abbeville County Fire Commission	042-00-00-275	2797 Lake Secession Road	Active
WSW-2	Wilson Creek Church	045-00-00-079	2955 Lake Secession Road	Well House Locked
WSW-4	Wallace D. Moore	045-00-00-080	2938 Lake Secession Road	Active
WSW-5	Marvin L. Crawley	045-00-00-278	2960 Lake Secession Road	Active
WSW-6	Doris Holland	045-00-00-083	2784 Lake Secession Road	No Power
WSW-7	Ira R. Adams	045-00-00-085	2801 Lake Secession Road	Active
WSW-8	Marshall Marietta Bradford	045-00-00-276	41 McGill Circle	Active
WSW-9	Howard Burton	045-00-00-084	2829 Lake Secession Road	Abandoned
WSW-10	Howard Burton	045-00-00-084	2829 Lake Secession Road	Active

The samples obtained were sent to Pace Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006001) for analysis. The samples collected were analyzed for BTEX, Naphthalene, MTBE, 1,2 DCA, 8 Oxygentes (EPA Method 8260B) and EDB (EPA Method 8011). The results of the laboratory analyses are summarized in Table 3, Table 3A, and in Appendix B.

5.0 TEST RESULTS AND EVALUATION

The following sections discuss groundwater test results for the subject site.

5.1 GROUNDWATER ANALYTICAL RESULTS

As discussed in Section 4.1, groundwater samples obtained from the monitoring wells during the March 17, 2015 comprehensive groundwater sampling event were analyzed for dissolved phase petroleum constituents. Free phase petroleum product was not detected in any of the monitoring wells during sampling activities. The analytical results indicate petroleum impact to the surficial aquifer ("Shallow" Zone), with the highest dissolved concentrations being detected in the area of the former UST Basin. Of the twenty-three monitoring wells sampled, eight monitoring wells (MW-1, MW-4, MW-11, MW-20D, MW-21D, MW-22D, RW-1 and RW-2) detected petroleum constituents above Risk-based Screening Levels (RBSL's) or contained a reporting limit above the established RBSL. Petroleum constituents detected above the established RBSL include:

Compound	***RBSL (ug/l)***	***Wells Above RBSL***
Benzene	5	MW-1, MW-4, MW-11, MW-20D, MW-21D, MW-22D, RW-1 & RW-2
Toluene	1,000	MW-1 & RW-2
Ethylbenzene	700	MW-1 & RW-2
Total Xylenes	10,000	RW-2
Naphthalene	25	MW-1, MW-4, MW-11, MW-20D, RW-1 & RW-2
MTBE	40	MW-1, MW-4, MW-11, MW-20D, MW-21D, MW-22D, RW-1 & RW-2
EDB	0.05	MW-1

In addition, monitoring wells MW-2 and MW-3 were unable to be sampled and historical analytical data suggest concentrations above RBSL's. The results of the analyses for each monitoring well and specific parameters are listed on Table 3, Table 3A, and provided in Appendix B.

5.2 WATER SUPPLY WELL ANALYTICAL RESULTS

As discussed in section 4.2, water samples were obtained from six water supply wells during the March 17, 2015 groundwater sampling event. The samples obtained from the above mentioned water supply wells were analyzed for petroleum constituents. The laboratory results from the samples obtained from WSW-4 and WSW-5 did not indicate petroleum impact and all petroleum compounds were below detection limits. MTBE and Diisopropyl ether (DIPE) was detected above the method detection limit in the samples obtained from the WSW-1, WSW-7, WSW-8 and WSW-10. MTBE concentrations were detected at 6.5 micrograms per liter in WSW-1 and 28.3 micrograms per liter in WSW-7. DIPE concentrations were detected at 3.7 micrograms per liter in the sample obtained from WSW-1, at 16.8 micrograms per liter in WSW-7, at 0.26J micrograms per liter in WSW-8 and at

0.26J micrograms per liter in WSW-10. These concentrations detected did not exceed the RBSL for MTBE or DIPE and the remainder of petroleum compounds analyzed were detected at levels below detection limits. The results of the analysis for the water supply well and specific parameters are listed on Table 3, Table 3A, and provided in the laboratory reports (Appendix B).

6.0 ASSESSMENT SUMMARY & RECOMMENDATIONS

Groundwater elevation data for the March 17, 2015, gauging event was plotted, and points of equal elevation were interpolated between the monitoring wells. A groundwater contour map of the surficial aquifer was thus prepared and is presented on Figure 5. The apparent groundwater flow is to the southwest, towards an intermittent stream associated with the Wilson Creek.

Of the twenty-three monitoring wells sampled, eight monitoring wells (MW-1, MW-4, MW-11, MW-20D, MW-21D, MW-22D, RW-1 and RW-2) detected petroleum constituents above Risk-based Screening Levels (RBSL's) or contained a reporting limit above the established RBSL. Petroleum constituents detected above the established RBSL include:

Compound	***RBSL (ug/l)***	***Wells Above RBSL***
Benzene	5	MW-1, MW-4, MW-11, MW-20D, MW-21D, MW-22D, RW-1 & RW-2
Toluene	1,000	MW-1 & RW-2
Ethylbenzene	700	MW-1 & RW-2
Total Xylenes	10,000	RW-2
Naphthalene	25	MW-1, MW-4, MW-11, MW-20D, RW-1 & RW-2
MTBE	40	MW-1, MW-4, MW-11, MW-20D, MW-21D, MW-22D, RW-1 & RW-2
EDB	0.05	MW-1

In addition, monitoring wells MW-2 and MW-3 were unable to be sampled and historical analytical data suggest concentrations above RBSL's.

The laboratory results from the samples obtained from WSW-4 and WSW-5 did not indicate petroleum impact and all petroleum compounds were below detection limits. MTBE and Diisopropyl ether (DIPE) was detected above the method detection limit in the samples obtained from the WSW-1, WSW-7, WSW-8 and WSW-10. MTBE concentrations were detected at 6.5 micrograms per liter in WSW-1 and 28.3 micrograms per liter in WSW-7. DIPE concentrations were detected at 3.7 micrograms per liter in the sample obtained from WSW-1, at 16.8 micrograms per liter in WSW-7, at 0.26J micrograms per liter in WSW-8 and at 0.26J micrograms per liter in WSW-10. These concentrations detected did not exceed the RBSL for MTBE or DIPE and the remainder of petroleum compounds analyzed were detected at levels below detection limits.

Based on current analytical results, the contaminant plume emanating from the subject site appears to be defined, both horizontally and vertically. MECI recommends continued monitoring of the monitoring well network and nearby receptors. MECI recommends installing an Granular Activated Carbon (GAC) unit on the WSW-1 and WSW-7 in order to filter the trace amounts of MTBE and DIPE detected in the water supply well and collecting verification samples from WSW-8 and WSW-10. Furthermore, it may be advantageous to conduct a series of extended AFVR events on

monitoring wells located in the source area of the contaminant plume to further reduce elevated CoC concentrations.

7.0 QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. The general subsurface conditions utilized in our evaluation have been based on interpretation of subsurface data between borings. Contents of this report are intended for the sole use of the Estate of Donald McGill, MECI, and SCDHEC under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

-oOo-

TABLES

TABLE 2
PAGE 1 OF 2
POTENTIOMETRIC DATA
MARCH 17, 2015 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 15-5116
SCDHEC SITE ID NUMBER 19440

Well Number	Sample Date	Screened Interval (ft BGS)	Depth to Water (ft)	Well-head Elevation	Groundwater Elevation
MW-1	05/05/09	40-50	45.19	96.57	51.38
	08/07/09	-	44.72	96.57	51.85
	07/28/10	-	40.79	96.57	55.78
	02/23/11	-	43.58	96.57	52.99
	12/02/13	-	45.83	96.57	50.74
	03/17/15	-	45.14	96.57	51.43
MW-2	07/31/09	41-51	45.48	96.95	51.47
	07/28/10	-	41.60	96.95	55.35
	02/23/11	-	44.21	96.95	52.74
	12/02/13	-	46.65	96.95	50.30
	03/17/15	-	NS	96.95	NS
MW-3	07/31/09	41-51	45.20	96.97	51.77
	07/28/10	-	41.31	96.97	55.66
	02/23/11	-	43.83	96.97	53.14
	12/02/13	-	46.25	96.97	50.72
	03/17/15	-	NL	96.97	NL
MW-4	07/31/09	42-52	49.30	99.71	50.41
	07/28/10	-	45.36	99.71	54.35
	02/23/11	-	47.83	99.71	51.88
	12/02/13	-	50.54	99.71	49.17
	03/17/15	-	49.62	99.71	50.09
MW-5	07/28/10	35-45	36.61	92.47	55.86
	02/23/11	-	39.68	92.47	52.79
	12/02/13	-	41.87	92.47	50.60
	03/17/15	-	41.20	92.47	51.27
MW-6	07/28/10	43-53	40.28	96.10	55.82
	02/23/11	-	43.03	96.10	53.07
	12/02/13	-	45.39	96.10	50.71
	03/17/15	-	45.68	96.10	50.42
MW-7	07/28/10	40-50	41.43	97.67	56.24
	02/23/11	-	44.04	97.67	53.63
	12/02/13	-	47.13	97.67	50.54
	03/17/15	-	45.40	97.67	52.27
MW-8	07/28/10	39-49	45.68	100.64	54.96
	02/23/11	-	47.64	100.64	53.00
	12/02/13	-	DRY	100.64	DRY
	03/17/15	-	DRY	100.64	DRY
MW-9	07/28/10	41-51	43.85	98.25	54.40
	02/23/11	-	46.13	98.25	52.12
	12/02/13	-	50.13	98.25	48.12
	03/17/15	-	48.58	98.25	49.67
MW-10	07/28/10	40-50	42.96	95.10	52.14
	02/23/11	-	46.22	95.10	48.88
	12/02/13	-	48.76	95.10	46.34
	03/17/15	-	46.90	95.10	48.20
MW-11	07/28/10	40-50	43.05	97.68	54.63
	02/23/11	-	45.94	97.68	51.74
	12/02/13	-	48.17	97.68	49.51
	03/17/15	-	47.31	97.68	50.37

Notes:

1. Final Groundwater depths measured 3/17/2015.
2. Site datum based on assumed spot elevation.
3. Groundwater depths were measured from the top of PVC riser pipe.
4. DRY = Monitoring well gauged dry.

TABLE 2
PAGE 2 OF 2
POTENTIOMETRIC DATA
MARCH 17, 2015 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 15-5116
SCDHEC SITE ID NUMBER 19440

Well Number	Sample Date	Screened Interval (ft BGS)	Depth to Water (ft)	Well-head Elevation	Groundwater Elevation
MW-12	07/28/10	50-60	54.18	103.93	49.75
	02/23/11	-	57.05	103.93	46.88
	12/02/13	-	58.85	103.93	45.08
	03/17/15	-	55.29	103.93	48.64
MW-13	07/28/10	50-60	54.21	104.88	50.67
	02/23/11	-	57.16	104.88	47.72
	12/02/13	-	59.00	104.88	45.88
	03/17/15	-	57.76	104.88	47.12
MW-14	07/28/10	49-59	51.60	102.93	51.33
	02/23/11	-	54.39	102.93	48.54
	12/02/13	-	56.55	102.93	46.38
	03/17/15	-	55.26	102.93	47.67
MW-15	07/28/10	45-55	47.85	98.20	50.35
	02/23/11	-	50.50	98.20	47.70
	12/02/13	-	52.45	98.20	45.75
	03/17/15	-	51.22	98.20	46.98
MW-16	07/28/10	45-55	46.16	97.51	51.35
	02/23/11	-	48.76	97.51	48.75
	12/02/13	-	50.77	97.51	46.74
	03/17/15	-	49.66	97.51	47.85
MW-17	07/28/10	45-55	46.65	98.62	51.97
	02/23/11	-	49.29	98.62	49.33
	12/02/13	-	51.45	98.62	47.17
	03/17/15	-	50.40	98.62	48.22
MW-18	07/28/10	35-45	35.99	87.20	51.21
	02/23/11	-	38.47	87.20	48.73
	12/02/13	-	40.40	87.20	46.80
	03/17/15	-	39.39	87.20	47.81
MW-19D	07/28/10	65-70	45.86	96.43	50.57
	02/23/11	-	43.65	96.43	52.78
	12/02/13	-	45.90	96.43	50.53
	03/17/15	-	45.21	96.43	51.22
MW-20D	07/28/10	65-67	58.49	97.23	38.74
	02/23/11	-	44.32	97.23	52.91
	12/02/13	-	45.83	97.23	51.40
	03/17/15	-	42.93	97.23	54.30
MW-21D	07/28/10	78-83	63.49	97.64	34.15
	02/23/11	-	46.00	97.64	51.64
	12/02/13	-	48.11	97.64	49.53
	03/17/15	-	47.29	97.64	50.35
MW-22D	07/28/10	95-100	55.09	104.95	49.86
	02/23/11	-	58.09	104.95	46.86
	12/02/13	-	59.79	104.95	45.16
	03/17/15	-	58.45	104.95	46.50
MW-23D	07/28/10	95-100	47.28	97.83	50.55
	02/23/11	-	50.00	97.83	47.83
	12/02/13	-	51.83	97.83	46.00
	03/17/15	-	50.55	97.83	47.28
MW-24D	07/28/10	70-75	36.54	87.38	50.84
	02/23/11	-	39.06	87.38	48.32
	12/02/13	-	41.85	87.38	45.53
	03/17/15	-	41.59	87.38	45.79
RW-1	12/02/13	30-50	46.23	96.57	50.34
	03/17/15	-	45.49	96.57	51.08
RW-2	12/02/13	30-50	46.46	96.90	50.44
	03/17/15	-	45.77	96.90	51.13

Notes:

1. Final Groundwater depths measured 3/17/2015.
2. Site datum based on assumed spot elevation.
3. Groundwater depths were measured from the top of PVC riser pipe.
4. DRY = Monitoring well gauged dry.

TABLE 3
PAGE 1 OF 3
GROUNDWATER COC CONCENTRATION DATA
MARCH 17, 2015 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 15-5116
SCDHEC ID NUMBER 19440

Well Number	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Total BTEX (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)	1,2 DCA (µg/l)	EDB (µg/l)	Total Lead (µg/l)	Methane (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-1	05/05/09	7,780	98,500	3,910	24,100	134,290	59,700	<500	<500	1.7	<5.0	NT	NT	NT
	07/31/09	8,630	96,400	3,980	24,900	133,910	33,700	<1,000	NT	2.0	NT	NT	NT	NT
	07/28/10	6,300	117,000	3,740	29,000	156,040	2,040	241	<50.0	1.9	6.2	NT	NT	NT
	02/23/11	6,810	105,000	3,640J	24,900	140,350J	4,230J	<5,000	<5,000	1.9	<5.0	NT	NT	NT
	12/02/13	3,300	100,000	3,700	29,000	136,000	800J	<2,500	<2,500	1.5	NT	NT	NT	NT
	03/17/15	<5,000	48,500	<5,000	6,800J	55,300J	<5,000	<5,000	<5,000	1.2	NT	NT	NT	NT
MW-2	07/31/09	854	1,430	335J	3,470	6,089J	7,090	145	<5.0	0.039	6.6	<10.0	<0.10	4.5
	07/28/10	3,170	44,900	1,850	13,700	63,620	32,700	253	<25.0	0.29	<5.0	NT	NT	NT
	02/23/11	312	3,840	140J	1,170	5,462J	4,520	<200	<200	<0.020	<5.0	NT	NT	NT
	12/02/13	2.3J	<50	<50	<50	2.3J	3,000	<50	<50	<0.020	NT	NT	NT	NT
	03/17/15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	07/31/09	2,680	20,100	362J	8,110	31,252J	24,400	145	<5.0	0.10	5.8	<10.0	<0.10	2.6
	07/28/10	1,540	20,000	1,350	11,700	34,590	14,600	424	<5.0	0.072	<5.0	NT	NT	NT
	02/23/11	<125	<125	61.8J	<250	61.8J	2,220	55.0J	<125	<0.020	<5.0	NT	NT	NT
	12/02/13	<25	<25	<25	<25	BDL	890	<25	<25	<0.019	NT	NT	NT	NT
	03/17/15	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW-4	07/31/09	956	4,440	174	1,860	7,430	6,130	24.9	<5.0	<0.019	<5.0	<10.0	<0.10	7.4
	07/28/10	801	1,510	164J	1,510	3,985J	7,700	<250	<250	<0.019	<5.0	NT	NT	NT
	02/23/11	367	164J	119J	631	1,281J	8,370	<250	<250	<0.020	<5.0	NT	NT	NT
	12/02/13	<500	<500	<500	<500	BDL	15,000	<500	<500	<0.019	NT	NT	NT	NT
	03/17/15	<500	<500	<500	<1,000	BDL	17,300	<500	<500	<0.020	NT	NT	NT	NT
MW-5	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	39.4	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	8.7	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020	NT	NT	NT	NT
	03/17/15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	NT	NT	NT	NT
MW-6	07/28/10	<5.0	3.5J	<5.0	3.2J	6.7J	23.8	3.9J	<5.0	<0.020	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	54.1	<5.0	<5.0	<0.020	7.9	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	20	<5.0	<5.0	<0.020	NT	NT	NT	NT
	03/17/15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	NT	NT	NT	NT
MW-7	07/28/10	<5.0	2.2J	<5.0	<10.0	2.2J	<5.0	3.1J	<5.0	<0.019	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	6.4	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020	NT	NT	NT	NT
	03/17/15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	NT	NT	NT	NT
MW-8	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	5.4	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	12/02/13	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	03/17/15	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-9	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	7.9	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	NT	NT	NT	NT	NT
	03/17/15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.021	NT	NT	NT	NT
MW-10	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	8.0	<5.0	<5.0	<0.025	23.2	NT	NT	NT
	02/23/11	2.1J	1.6J	<5.0	3.4J	7.1J	62.7	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	73	<5.0	<5.0	NT	NT	NT	NT	NT
	03/17/15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	NT	NT	NT	NT
MW-11	07/28/10	997	8,120	340	2,480	11,937	18,600	43.6	<25.0	0.31	<5.0	NT	NT	NT
	02/23/11	954	5,400	312J	2,660	9,326J	22,800	<500	<500	<0.019	<5.0	NT	NT	NT
	12/02/13	650	<100	380	520	1,550	11,000	46J	<100	<0.022	NT	NT	NT	NT
	03/17/15	<125	<125	<125	<250	BDL	2,130	<125	<125	<0.020	NT	NT	NT	NT
MW-12	07/28/10	<5.0	2.1J	<5.0	<10.0	2.1J	3.6J	3.1J	<5.0	<0.020	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	<5.0	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019	NT	NT	NT	NT
	03/17/15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	NT	NT	NT	NT

Notes:

1. BDL = Below Practical Quantitative Limits
2. µg/l = micrograms per liter
3. mg/l = milligrams per liter
4. MTBE = Methyl-Tertiary-Butyl Ether
5. ABAN. = WSW Abandoned
6. NT = Not Tested.
7. EDB = Ethylene Dibromide
8. 1,2 DCA = 1,2-Dichloroethane
9. "J" Values used in Total BTEX Calculations
10. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).
11. DRY = Monitoring well gauged dry

TABLE 3
PAGE 2 OF 3
GROUNDWATER COC CONCENTRATION DATA
MARCH 17, 2015 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 15-5116
SCDHEC ID NUMBER 19440

Well Number	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Total BTEX (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)	1,2 DCA (µg/l)	EDB (µg/l)	Total Lead (µg/l)	Methane (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-13	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	<5.0	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019	NT	NT	NT	NT
	03/17/15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	NT	NT	NT	NT
MW-14	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	**4.1J**	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	<5.0	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.021	NT	NT	NT	NT
	03/17/15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	NT	NT	NT	NT
MW-15	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	**4.1J**	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020	NT	NT	NT	NT
	03/17/15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	NT	NT	NT	NT
MW-16	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	**17.6**	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020	NT	NT	NT	NT
	03/17/15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	NT	NT	NT	NT
MW-17	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	**47.2**	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020	NT	NT	NT	NT
	03/17/15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	NT	NT	NT	NT
MW-18	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	**14.3**	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.021	NT	NT	NT	NT
	03/17/15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	NT	NT	NT	NT
MW-19D	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	<5.0	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019	NT	NT	NT	NT
	03/17/15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	NT	NT	NT	NT
MW-20D	07/28/10	**230**	**573**	**57.2**	**379**	**1,239.2**	**3,720**	**11.2**	<5.0	**0.055**	<5.0	NT	NT	NT
	02/23/11	**214**	**359**	<125	**297**	**870**	**2,780**	<125	<125	<0.019	<5.0	NT	NT	NT
	12/02/13	**130**	**170**	<50	**170**	**470**	**2,700**	<50	<50	<0.019	NT	NT	NT	NT
	03/17/15	**92.2J**	**121J**	<125	<250	**213.2J**	**1,990**	<125	<125	<0.020	NT	NT	NT	NT
MW-21D	07/28/10	**3.6J**	**4.2J**	**1.3J**	**8.3J**	**17.4J**	**128**	<5.0	<5.0	<0.019	**109**	NT	NT	NT
	02/23/11	**2.1J**	**1.7J**	<5.0	**3.7J**	**7.5J**	**62.9**	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	12/02/13	**0.79J**	<5.0	<5.0	<5.0	**0.79J**	**50**	<5.0	<5.0	<0.019	NT	NT	NT	NT
	03/17/15	<5.0	<5.0	<5.0	<10.0	BDL	**93.3**	<5.0	<5.0	<0.020	NT	NT	NT	NT
MW-22D	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	**33.1**	**3.1J**	<5.0	<0.020	<5.0	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	**282**	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	12/02/13	**3.2J**	<25	<25	<25	**3.2J**	**330**	<25	<25	<0.020	NT	NT	NT	NT
	03/17/15	<12.5	<12.5	<12.5	<25.0	BDL	**187**	<12.5	<12.5	<0.020	NT	NT	NT	NT
MW-23D	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.021	**10.5**	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020	NT	NT	NT	NT
	03/17/15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	NT	NT	NT	NT
MW-24D	07/28/10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	**20.4**	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	<5.0	NT	NT	NT
	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019	NT	NT	NT	NT
	03/17/15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019	NT	NT	NT	NT
RW-1	12/02/13	**56J**	**270**	**480**	**260**	**1,066J**	**460**	**130**	<100	<0.019	NT	NT	NT	NT
	03/17/15	<50.0	<50.0	**378**	<100	**378**	**151**	**50.0J**	<50.0	<0.020	NT	NT	NT	NT
RW-2	12/02/13	**5,500**	**87,000**	**4,200J**	**22,000**	**118,700J**	**21,000**	<5,000	<5,000	**0.30**	NT	NT	NT	NT
	03/17/15	**3,810**	**61,900**	**3,060**	**17,900**	**86,670**	**6,080**	**417**	<125	<0.020	NT	NT	NT	NT

Notes:

1. BDL = Below Practical Quantitative Limits
2. µg/l = micrograms per liter
3. mg/l = milligrams per liter
4. MTBE = Methyl-Tertiary-Butyl Ether
5. ABAN. = WSW Abandoned
6. NT = Not Tested.
7. EDB = Ethylene Dibromide
8. 1,2 DCA = 1,2-Dichloroethane
9. "J" Values used in Total BTEX Calculations
10. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).
11. DRY = Monitoring well gauged dry

TABLE 3
PAGE 3 OF 3
GROUNDWATER COC CONCENTRATION DATA
MARCH 17, 2015 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 15-5116
SCDHEC ID NUMBER 19440

Well Number	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Total BTEX (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)	1,2 DCA (µg/l)	EDB (µg/l)	Total Lead (µg/l)	Methane (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
WSW-1	07/28/09	<5.0	<5.0	<5.0	<10.0	BDL	**16.1**	<5.0	NT	NT	NT	NT	NT	NT
	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	**3.9J**	<5.0	NT	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	**2.2**	<1.0	NT	<0.019	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019	NT	NT	NT	NT
	12/02/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/17/15	<1.0	<1.0	<1.0	<2.0	BDL	**6.5**	<1.0	<1.0	<0.020	NT	NT	NT	NT
WSW-2	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019	NT	NT	NT	NT
	12/02/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/17/15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
WSW-4	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.019	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT
	12/02/13	<1.0	<1.0	<1.0	<1.0	BDL	<1.0	<1.0	<1.0	<0.019	NT	NT	NT	NT
	03/17/15	<1.0	<1.0	<1.0	<2.0	BDL	<1.0	<1.0	<1.0	<0.020	NT	NT	NT	NT
WSW-5	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019	NT	NT	NT	NT
	12/02/13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/17/15	<1.0	<1.0	<1.0	<2.0	BDL	<1.0	<1.0	<1.0	<0.020	NT	NT	NT	NT
WSW-6	07/28/09	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	NT	NT	NT	NT	NT
	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019	NT	NT	NT	NT
	12/02/13	<1.0	<1.0	<1.0	<1.0	BDL	<1.0	<1.0	<1.0	<0.019	NT	NT	NT	NT
	03/17/15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
WSW-7	07/28/09	<5.0	<5.0	<5.0	<10.0	BDL	**2.2J**	<5.0	NT	NT	NT	NT	NT	NT
	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	**2.2J**	<5.0	NT	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	**4.3**	<1.0	NT	<0.019	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	**3.1J**	<5.0	NT	<0.020	NT	NT	NT	NT
	12/02/13	<1.0	<1.0	<1.0	<1.0	BDL	**29**	<1.0	<1.0	<0.019	NT	NT	NT	NT
	03/17/15	<1.0	<1.0	<1.0	<2.0	BDL	**28.3**	<1.0	<1.0	<0.019	NT	NT	NT	NT
WSW-8	08/07/09	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	NT	NT	NT	NT	NT
	07/28/10	<1.0	<1.0	<1.0	<3.0	BDL	<1.0	<1.0	NT	<0.020	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.019	NT	NT	NT	NT
	12/02/13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	03/17/15	<1.0	<1.0	<1.0	<2.0	BDL	<1.0	<1.0	<1.0	<0.019	NT	NT	NT	NT
WSW-9	07/28/10	<1.0	**0.72J**	<1.0	<3.0	**0.72J**	<1.0	<1.0	NT	<0.019	NT	NT	NT	NT
	02/23/11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	NT	<0.020	NT	NT	NT	NT
	12/02/13	<1.0	<1.0	<1.0	<1.0	BDL	<1.0	<1.0	<1.0	<0.019	NT	NT	NT	NT
	03/17/15	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.
WSW-10	12/02/13	<1.0	<1.0	<1.0	<1.0	BDL	<1.0	<1.0	<1.0	<0.019	NT	NT	NT	NT
	03/17/15	<1.0	<1.0	<1.0	<2.0	BDL	**1.2**	<1.0	<1.0	<0.020	NT	NT	NT	NT
MW-1 Duplicate	12/02/13	**3,300J**	**100,000**	**3,700J**	**28,000**	**135,000J**	**740J**	<5,000	<5,000	**1.2**	NT	NT	NT	NT
	03/17/15	**1,340J**	**48,200**	**1,640J**	**17,400**	**68,580J**	<2,500	<2,500	<2,500	**1.3**	NT	NT	NT	NT
MW-11 Duplicate	12/02/13	**780**	<500	**460J**	**710**	**1,950J**	**11,000**	<500	<500	<0.022	NT	NT	NT	NT
RW-1 Duplicate	03/17/15	<50.0	<50.0	**376**	<100	**376**	**129**	**50.9**	<50.0	<0.020	NT	NT	NT	NT
Field Blank	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019	NT	NT	NT	NT
	03/17/15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020	NT	NT	NT	NT
Trip Blank	12/02/13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	NT	NT	NT	NT	NT
	03/17/15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	NT	NT	NT	NT	NT

Notes:

1. BDL = Below Practical Quantitative Limits
2. µg/l = micrograms per liter
3. mg/l = milligrams per liter
4. MTBE = Methyl-Tertiary-Butyl Ether
5. ABAN. = WSW Abandoned
6. NT = Not Tested.
7. EDB = Ethylene Dibromide
8. 1,2 DCA = 1,2-Dichloroethane
9. "J" Values used in Total BTEX Calculations
10. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).
11. DRY = Monitoring well gauged dry

TABLE 3A
PAGE 1 OF 3
GROUNDWATER COC CONCENTRATION DATA (OXYGENATES)
MARCH 17, 2015 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 15-5116
SCDHEC SITE ID NUMBER 19440

Well Number	Sample Date	TAA (µg/l)	TAME (µg/l)	3,3-Dimethyl-1-butanol (µg/l)	TBA (µg/l)	TBF (µg/l)	DIPE (µg/l)	Ethanol (µg/l)	ETBE (µg/l)
MW-1	05/05/09	NT	NT	NT	NT	NT	NT	NT	NT
	07/31/09	NT	NT	NT	NT	NT	NT	NT	NT
	07/28/10	**1,980**	**1,310**	<1,000	<1,000	<500	**14,900**	<2,000	<100
	02/23/11	<100,000	<10,000	<100,000	<100,000	<50,000	**17,000**	<200,000	<10,000
	12/02/13	<50,000	**850J**	<50,000	<50,000	<50,000	**6,100**	<500,000	<50,000
	03/17/15	<100,000	<10,000	<100,000	<100,000	<50,000	**1,750J**	<200,000	<10,000
MW-2	07/31/09	**23,500**	**145**	<100	<100	<50.0	**3,830**	<200	<10.0
	07/28/10	**6,480**	**928**	<500	<500	<250	**19,300**	<1,000	<50.0
	02/23/11	<4,000	<400	<4,000	<4,000	<2,000	**2,270**	<8,000	<400
	12/02/13	**500J**	**130**	<1,000	**230J**	<1,000	**2,700**	<10,000	<1,000
	03/17/15	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	07/31/09	**16,800J**	**295**	<100	<100	<50.0	**11,600**	<200	<10.0
	07/28/10	**5,410**	**221**	<100	<100	<50.0	**6,810**	<200	<10.0
	02/23/11	<2,500	<250	<2,500	<2,500	<1,250	**1,040**	<5,000	<250
	12/02/13	**74J**	**14J**	<500	**1,700**	<500	**430**	<5,000	<500
	03/17/15	NL	NL	NL	NL	NL	NL	NL	NL
MW-4	07/31/09	**7,330**	**70.3**	<100	<100	<50.0	**3,140**	<200	<10.0
	07/28/10	**13,900**	<500	<5,000	<5,000	<2,500	**4,880**	<10,000	<500
	02/23/11	**5,710**	<500	<5,000	<5,000	<2,500	**4,220**	<10,000	<500
	12/02/13	**2,000J**	**180J**	<10,000	<10,000	<10,000	**6,600**	<100,000	<10,000
	03/17/15	<10,000	<1,000	<10,000	<10,000	<5,000	**9,650**	<20,000	<1,000
MW-5	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	12/02/13	<100	<10	<100	<100	<100	<10	<1,000	<100
	03/17/15	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-6	07/28/10	<100	<10.0	<100	<100	<50.0	**57.7**	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	**98.2**	**255**	<10.0
	12/02/13	<100	<10	<100	<100	<100	**32**	<1,000	<100
	03/17/15	<100	<10.0	<100	<100	<50.0	**61.0**	<200	<10.0
MW-7	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	12/02/13	<100	<10	<100	<100	<100	<10	<1,000	<100
	03/17/15	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-8	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	12/02/13	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	03/17/15	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-9	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	12/02/13	<100	<10	<100	<100	<100	<10	<1,000	<100
	03/17/15	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-10	07/28/10	<100	<10.0	<100	<100	<50.0	**12.8**	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	**46.5**	<200	<10.0
	12/02/13	<100	**0.54J**	<100	<100	<100	**8.7J**	<1,000	<100
	03/17/15	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-11	07/28/10	**3,990**	**237**	<500	<500	<250	**7,840**	<1,000	<50.0
	02/23/11	<10,000	**379J**	<10,000	<10,000	<5,000	**8,560**	<20,000	<1,000
	12/02/13	**960J**	**320**	<2,000	**1,000J**	**39J**	**6,200**	<20,000	<2,000
	03/17/15	**2,810**	<250	**1,950J**	<2,500	<1,250	**1,970**	<5,000	<250

Notes:

1. µg/l = micrograms per liter
2. DIPE = Diisopropyl Ether
3. ETBE = Ethyl tert-butyl Ether
4. TAA = tert-Amyl Alcohol
5. TAME = tert-Amyl Methyl Ether
6. TBA = tert-Butyl Alcohol
7. TBF = tert-Butyl Formate
8. NL = Not Located
9. DRY = Monitoring well gauged dry
10. NS = Not Sampled
11. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).

TABLE 3A
PAGE 2 OF 3
GROUNDWATER COC CONCENTRATION DATA (OXYGENATES)
MARCH 17, 2015 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 15-5116
SCDHEC SITE ID NUMBER 19440

Well Number	Sample Date	TAA (µg/l)	TAME (µg/l)	3,3-Dimethyl-1-butanol (µg/l)	TBA (µg/l)	TBF (µg/l)	DIPE (µg/l)	Ethanol (µg/l)	ETBE (µg/l)
MW-12	07/28/10	**201**	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	12/02/13	<100	<10	<100	<100	<100	<10	<1,000	<100
	03/17/15	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-13	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	12/02/13	<100	<10	<100	<100	<100	<10	<1,000	<100
	03/17/15	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-14	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	12/02/13	<100	<10	<100	<100	<100	<10	<1,000	<100
	03/17/15	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-15	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	12/02/13	<100	<10	<100	<100	<100	<10	<1,000	<100
	03/17/15	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-16	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	12/02/13	<100	<10	<100	<100	<100	<10	<1,000	<100
	03/17/15	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-17	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	12/02/13	<100	<10	<100	<100	<100	<10	<1,000	<100
	03/17/15	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-18	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	12/02/13	<100	<10	<100	<100	<100	<10	<1,000	<100
	03/17/15	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-19D	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	12/02/13	<100	<10	<100	<100	<100	<10	<1,000	<100
	03/17/15	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-20D	07/28/10	**1,490**	**77.7**	<100	<100	<50.0	**1,720**	<200	<10.0
	02/23/11	<2,500	<250	<2,500	<2,500	<1,250	**1,300**	<5,000	<250
	12/02/13	**490J**	**52J**	<1,000	**130J**	<1,000	**1,400**	<10,000	<1,000
	03/17/15	<2,500	<250	<2,500	<2,500	<1,250	**1,150**	<5,000	<250
MW-21D	07/28/10	<100	<10.0	<100	<100	<50.0	**98.5**	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	**45.5**	<200	<10.0
	12/02/13	<100	**0.67J**	<100	<100	<100	**38**	<1,000	<100
	03/17/15	<100	<10.0	<100	<100	<50.0	**94.8**	<200	<10.0
MW-22D	07/28/10	<100	<10.0	<100	<100	<50.0	**19.1**	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	**147**	<200	<10.0
	12/02/13	<500	**2.7J**	<500	<500	<500	**150**	<5,000	<500
	03/17/15	<250	<25.0	<250	<250	<125	**22.5**	<500	<25.0
MW-23D	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	12/02/13	<100	<10	<100	<100	<100	<10	<1,000	<100
	03/17/15	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-24D	07/28/10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	02/23/11	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
	12/02/13	<100	**1.3J**	<100	<100	<100	<10	<1,000	<100
	03/17/15	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0

Notes:

1. µg/l = micrograms per liter
2. DIPE = Diisopropyl Ether
3. ETBE = Ethyl tert-butyl Ether
4. TAA = tert-Amyl Alcohol
5. TAME = tert-Amyl Methyl Ether
6. TBA = tert-Butyl Alcohol
7. TBF = tert-Butyl Formate
8. NL = Not Located
9. DRY = Monitoring well gauged dry
10. NS = Not Sampled
11. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).

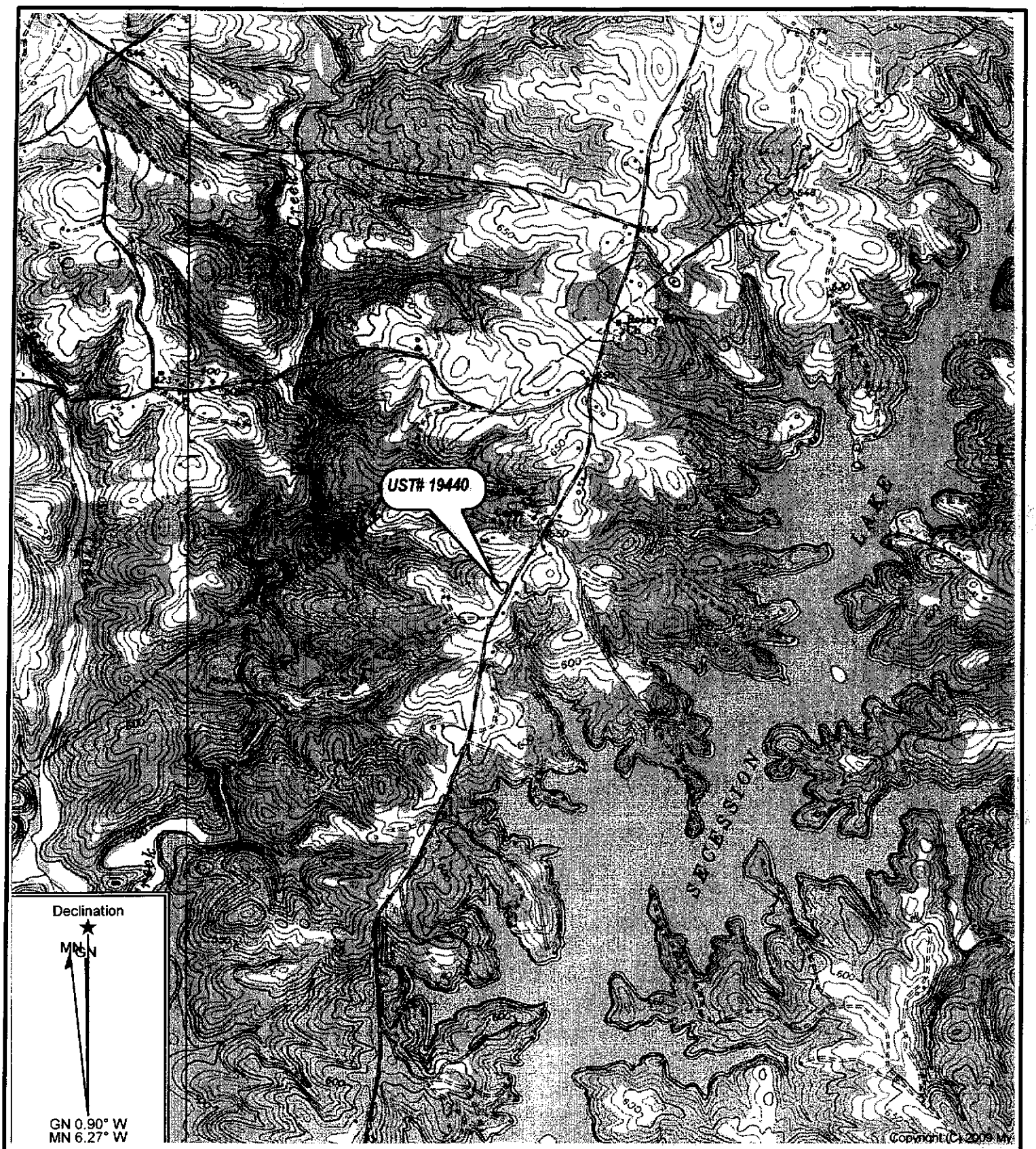
TABLE 3A
PAGE 3 OF 3
GROUNDWATER COC CONCENTRATION DATA (OXYGENATES)
MARCH 17, 2015 SAMPLING EVENT
MCGILL GROCERY
IVA, SOUTH CAROLINA
MECI PROJECT NUMBER 15-5116
SCDHEC SITE ID NUMBER 19440

Well Number	Sample Date	TAA (µg/l)	TAME (µg/l)	3,3-Dimethyl-1-butanol (µg/l)	TBA (µg/l)	TBF (µg/l)	DIPE (µg/l)	Ethanol (µg/l)	ETBE (µg/l)
RW-1	12/02/13 03/17/15	**130J** <1,000	**79J** **56.7J**	<2,000 <1,000	**250J** **734J**	<2,000 <500	**1,400** **786**	<20,000 **2,560**	<2,000 <100
RW-2	12/02/13 03/17/15	<100,000 <2,500	**1,100J** **724**	<100,000 <2,500	<100,000 <2,500	<100,000 <1,250	**19,000** **7,690**	<1,000,000 <5,000	<100,000 <250
WSW-1	12/02/13 03/17/15	NS <100	NS <10.0	NS <100	NS <100	NS <50.0	NS **3.7**	NS <200	NS <10.0
WSW-2	12/02/13 03/17/15	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS
WSW-4	12/02/13 03/17/15	<100 <100	<10 <10.0	<100 <100	<100 <100	<100 <50.0	<10 <5.0	<1,000 <200	<100 <10.0
WSW-5	12/02/13 03/17/15	NS <100	NS <10.0	NS <100	NS <100	NS <50.0	NS <5.0	NS <200	NS <10.0
WSW-6	12/02/13 03/17/15	<100 NS	<10 NS	<100 NS	<100 NS	<100 NS	<10 NS	<1,000 NS	<100 NS
WSW-7	12/02/13 03/17/15	<100 <100	<10 <10.0	<100 <100	<100 <100	<100 <50.0	**16** **16.8**	<1,000 <200	<100 <10.0
WSW-8	12/02/13 03/17/15	NS <100	NS <10.0	NS <100	NS <100	NS <50.0	NS **0.26J**	NS <200	NS <10.0
WSW-9	12/02/13 03/17/15	<100 ABAN.	<10 ABAN.	<100 ABAN.	<100 ABAN.	<100 ABAN.	<10 ABAN.	<1,000 ABAN.	<100 ABAN.
WSW-10	12/02/13 03/17/15	<100 <100	<10 <10.0	<100 <100	<100 <100	<100 <50.0	<10 **0.59J**	<1,000 <200	<100 <10.0
MW-1 Dup.	12/02/13 03/17/15	<100,000 <50,000	**740J** <5,000	<100,000 <50,000	<100,000 <50,000	<100,000 <25,000	**6,100J** **1,770J**	<1,000,000 <100,000	<100,000 <5,000
MW-11 Dup.	12/02/13	**100J**	**360J**	<10,000	**1,100J**	<10,000	**6,500**	<100,000	<10,000
RW-1 Dup.	03/17/15	<1,000	**54.8J**	<1,000	**698J**	<500	**751**	<2,000	<100
Field Blank	12/02/13 03/17/15	<100 <100	<10 <10.0	<100 <100	<100 <100	<100 <50.0	<10 <5.0	<1,000 <200	<100 <10.0
Trip Blank	12/02/13 03/17/15	<100 <100	<10 <10.0	<100 <100	<100 <100	<100 <50.0	<10 <5.0	<1,000 <200	<100 <10.0

Notes:

1. µg/l = micrograms per liter
2. DIPE = Diisopropyl Ether
3. ETBE = Ethyl tert-butyl Ether
4. TAA = tert-Amyl Alcohol
5. TAME = tert-Amyl Methyl Ether
6. TBA = tert-Butyl Alcohol
7. TBF = tert-Butyl Formate
8. NL = Not Located
9. DRY = Monitoring well gauged dry
10. NS = Not Sampled
11. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).

FIGURES



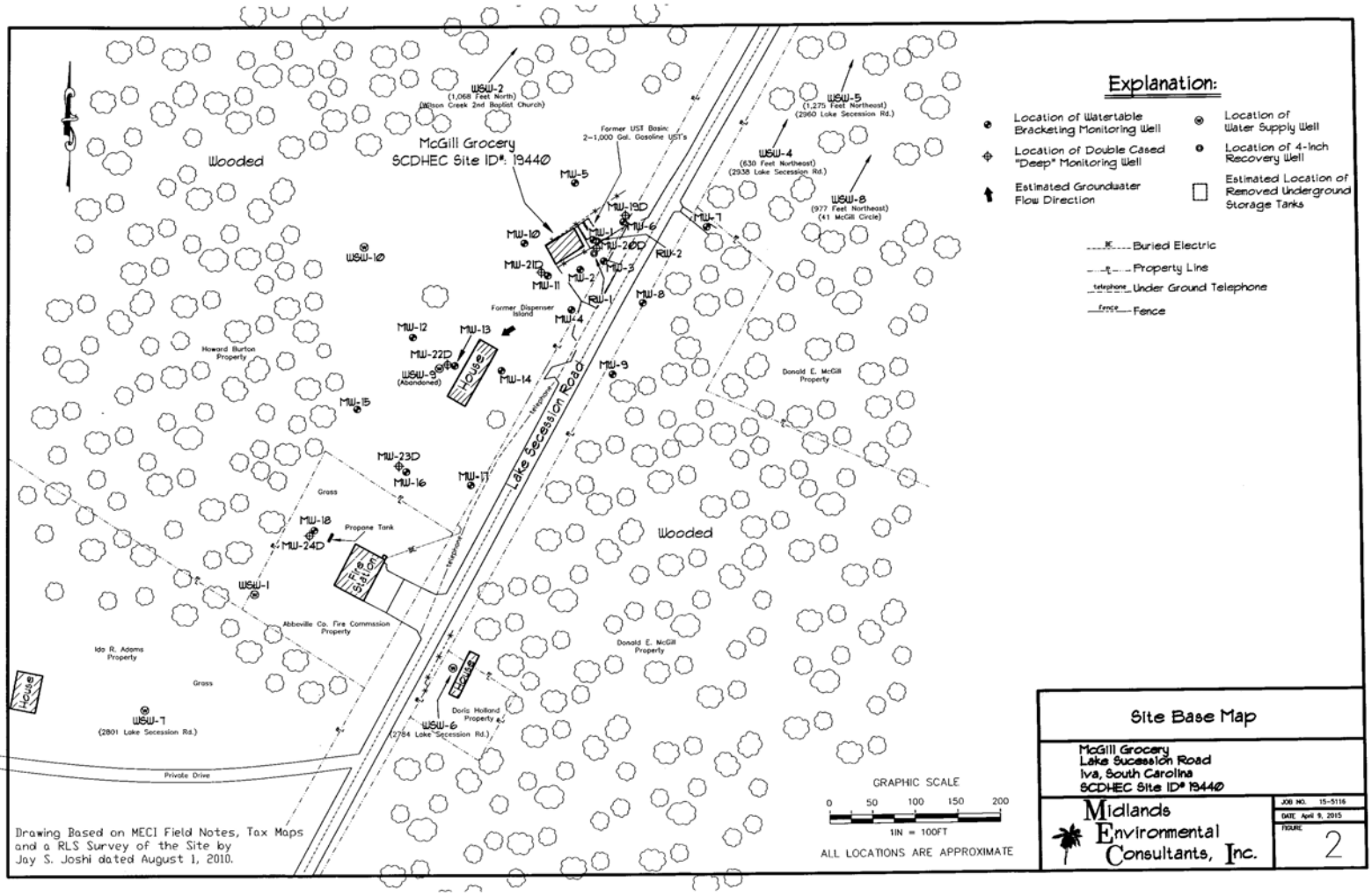
GRAPHIC SCALE

0 1000 2000 4000

1IN = 2000FT

Reference: Antreville, South Carolina
Iva, South Carolina
Contour Interval–10 Feet
USGS 7.5 Min. Quad

Midlands Environmental Consultants, Inc.	Site Location
McGill's Grocery Lake Secession Road, Iva, SC SCDHEC Site ID# 19440	
Figure 1	MECI 15-5116

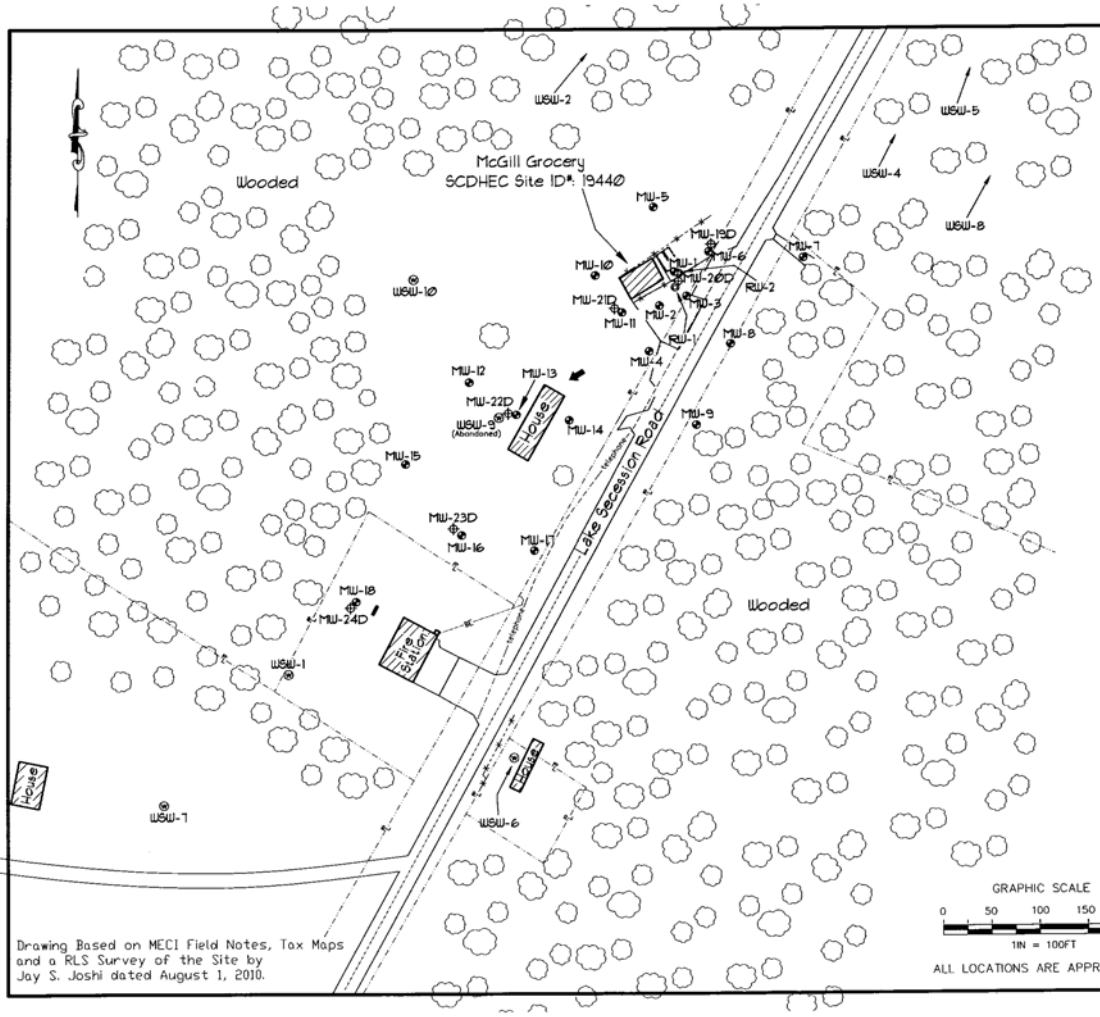


Site Base Map

McGill Grocery
Lake Sucession Road
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 15-5116
DATE April 9, 2015
FIGURE 2



Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Double Cased "Deep" Monitoring Well
- Estimated Groundwater Flow Direction
- Location of Water Supply Well
- Location of 4-Inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks

Groundwater COC Concentration Data

Sample #	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)	Naphthalene (ug/L)	1,2 DCA (ug/L)	EDB (ug/L)
MW-1	<5,000	48,500	<5,000	6,800J	55,300J	<5,000	<5,000	<5,000	1.2
MW-2	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW-4	<500	<500	<500	<1,000	BDL	17,300	<500	<500	<0.020
MW-5	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-6	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-7	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-9	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.021
MW-10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-11	<125	<125	<125	<250	BDL	2,130	<125	<125	<0.020
MW-12	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-13	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-14	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-16	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-17	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-18	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-19D	<5.0	<5.0	<5.0	<10.0	BDL	<3.0	<5.0	<5.0	<0.020
MW-20D	92.2J	121J	<125	<250	213.2J	1,890	<125	<125	<0.020
MW-21D	<5.0	<5.0	<5.0	<10.0	BDL	93.3	<5.0	<5.0	<0.020
MW-22D	<12.5	<12.5	<12.5	<25.0	BDL	187	<12.5	<12.5	<0.020
MW-23D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-24D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
RW-1	<50.0	<50.0	378	<100	378	151	50.0J	<50.0	<0.020
RW-2	3,810	61,900	3,060	17,900	86,670	6,080	417	<125	<0.020
WSW-1	<1.0	<1.0	<1.0	<2.0	BDL	6.5	<1.0	<1.0	<0.020
WSW-2	NS	NS	NS	NS	NS	NS	NS	NS	NS
WSW-4	<1.0	<1.0	<1.0	<2.0	BDL	<1.0	<1.0	<1.0	<0.020
WSW-5	<1.0	<1.0	<1.0	<2.0	BDL	<1.0	<1.0	<1.0	<0.020
WSW-6	NS	NS	NS	NS	NS	NS	NS	NS	NS
WSW-7	<1.0	<1.0	<1.0	<2.0	BDL	28.3	<1.0	<1.0	<0.019
WSW-8	<1.0	<1.0	<1.0	<2.0	BDL	<1.0	<1.0	<1.0	<0.019
WSW-9	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.
WSW-10	<1.0	<1.0	<1.0	<2.0	BDL	1.2	<1.0	<1.0	<0.020
MW-1 Dup.	1,340J	48,200	1,840J	17,400	68,580J	<2,500	<2,500	<2,500	1.3
RW-1 Dup.	<50.0	<50.0	376	<100	376	129	50.9	<50.0	<0.020
Field Blank	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
Trip Blank	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	NT

Notes: Groundwater samples collected on March 17, 2015.

NL = Not Located

BDL = Below Detection Limits

NS = Not Sampled

ABAN. = WSW-9 Abandoned

GRAPHIC SCALE

0 50 100 150 200

1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

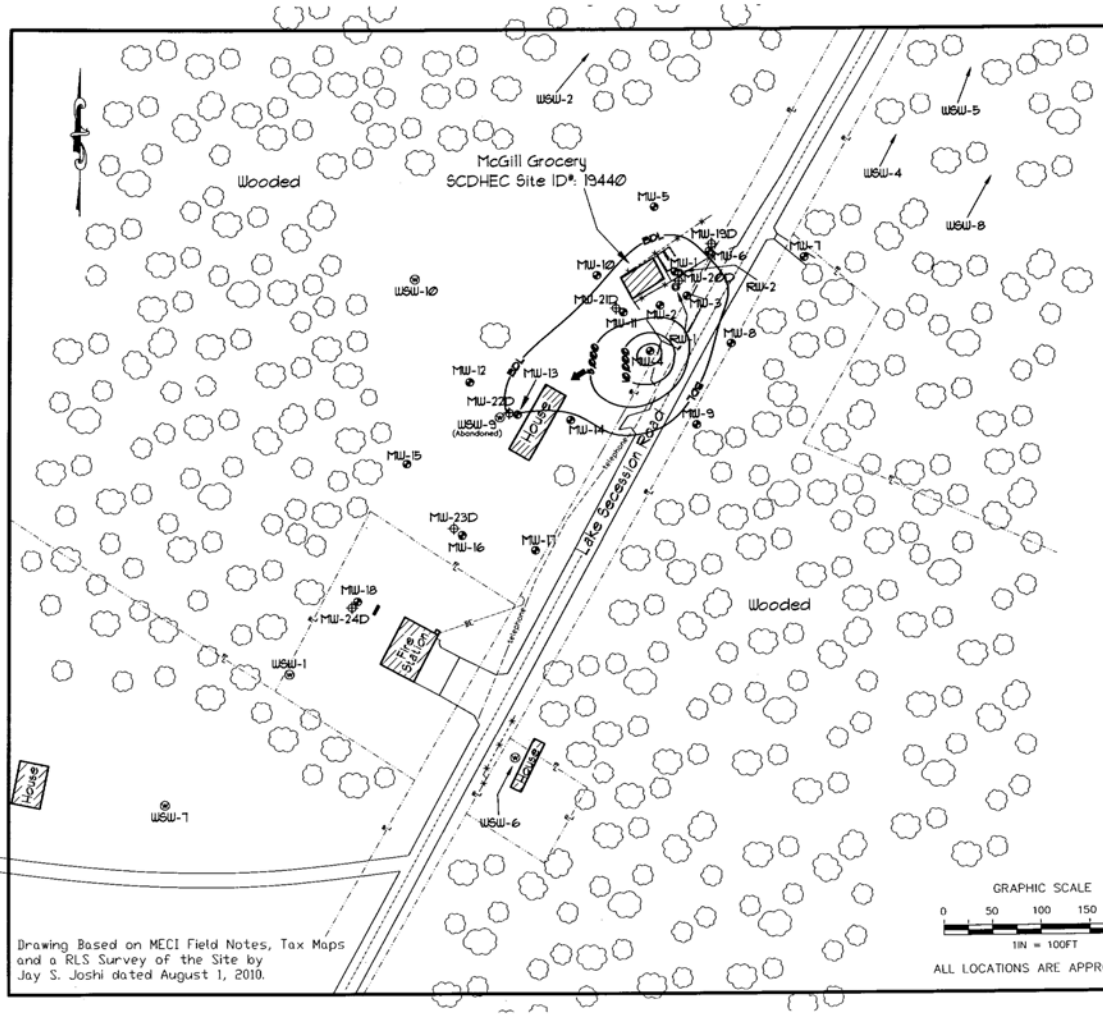
Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

Groundwater CoC Site Map

McGill Grocery
Lake Sucession Road
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 15-5116
DATE April 9, 2015
FIGURE 4



Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Water Supply Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 4-inch Recovery Well
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- MTBE Concentration Isopleth (ug/l)

Groundwater COC Concentration Data

Sample #	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total xylenes (ug/l)	Total BTEX (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)	1,2 DCA (ug/l)	EDB (ug/l)
MW-1	<5,000	48,500	<5,000	6,800J	55,300J	<5,000	<5,000	<5,000	1.2
MW-2	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW-4	<500	<500	<500	<1,000	BDL	17,300	<500	<500	<0.020
MW-5	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-6	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-7	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-9	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.021
MW-10	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-11	<125	<125	<125	<250	BDL	2,130	<125	<125	<0.020
MW-12	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-13	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-14	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-15	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-16	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-17	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-18	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-19D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-20D	92.2J	121J	<125	<250	213.2J	1,990	<125	<125	<0.020
MW-21D	<5.0	<5.0	<5.0	<10.0	BDL	93.3	<5.0	<5.0	<0.020
MW-22D	<12.5	<12.5	<12.5	<25.0	BDL	187	<12.5	<12.5	<0.020
MW-23D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-24D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.019
RW-1	<50.0	<50.0	378	<100	378	151	50.0J	<50.0	<0.020
RW-2	3,810	61,900	3,060	17,900	86,670	6,080	417	<125	<0.020
WSW-1	<1.0	<1.0	<1.0	<2.0	BDL	6.5	<1.0	<1.0	<0.020
WSW-2	NS	NS	NS	NS	NS	NS	NS	NS	NS
WSW-4	<1.0	<1.0	<1.0	<2.0	BDL	<1.0	<1.0	<1.0	<0.020
WSW-5	<1.0	<1.0	<1.0	<2.0	BDL	<1.0	<1.0	<1.0	<0.020
WSW-6	NS	NS	NS	NS	NS	NS	NS	NS	NS
WSW-7	<1.0	<1.0	<1.0	<2.0	BDL	28.3	<1.0	<1.0	<0.019
WSW-8	<1.0	<1.0	<1.0	<2.0	BDL	<1.0	<1.0	<1.0	<0.019
WSW-9	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.
WSW-10	<1.0	<1.0	<1.0	<2.0	BDL	1.2	<1.0	<1.0	<0.020
MW-1 Dup.	1,340J	48,200	1,640J	17,400	68,580J	<2,500	<2,500	<2,500	1.3
RW-1 Dup.	<50.0	<50.0	376	<100	376	129	50.9	<50.0	<0.020
Field Blank	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	<0.020
Trip Blank	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<5.0	NT

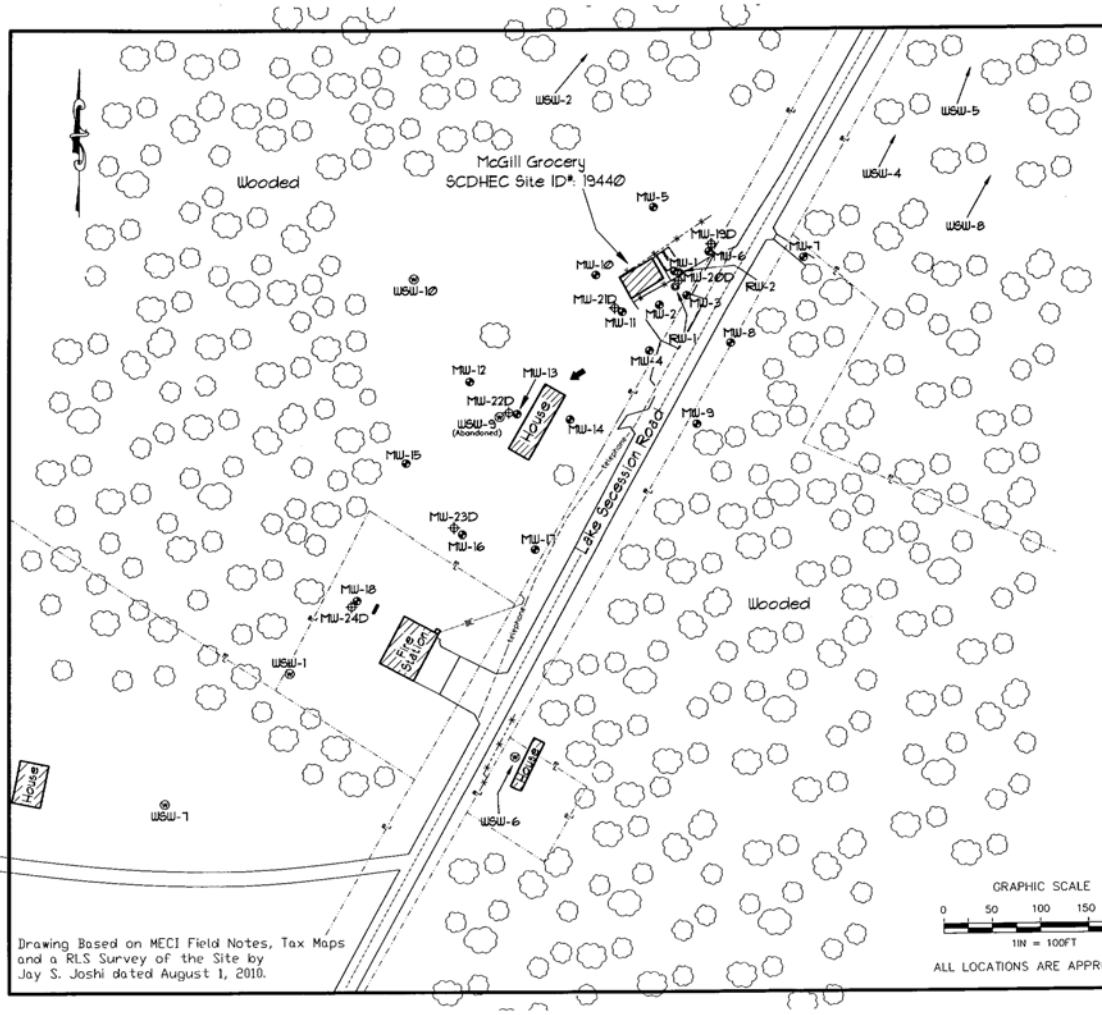
Notes:
Groundwater samples collected on March 17, 2015.
Isopleth Interval = 5,000 ug/l
BDL = Below Detection Limits
"Deep" wells not used in isopleth data.
Isopleths Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

Groundwater CoC Site Map
(MTBE Isopleth)

McGill Grocery
Lake Succession Road
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 15-5116
DATE April 9, 2015
FIGURE 4A



Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Water Supply Well
- Location of Double Cased "Deep" Monitoring Well
- Location of 4-Inch Recovery Well
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks

Groundwater CoC Concentration Data - Oxygenates

Sample #	TAA (ug/l)	TAME (ug/l)	3,3-Dimethyl-2-butanol (ug/l)	TBA (ug/l)	TBF (ug/l)	DIPE (ug/l)	Ethanol (ug/l)	ETBE (ug/l)
MW-1	<100,000	<10,000	<100,000	<100,000	<50,000	1,750J	<200,000	<10,000
MW-2	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	NL	NL	NL	NL	NL	NL	NL	NL
MW-4	<10,000	<1,000	<10,000	<10,000	<5,000	9,650	<20,000	<1,000
MW-5	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-6	<100	<10.0	<100	<100	<50.0	61.0	<200	<10.0
MW-7	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-8	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-9	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-10	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-11	2,810	<250	1,950J	<2,500	<1,250	1,970	<5,000	<250
MW-12	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-13	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-14	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-15	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-16	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-17	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-18	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-19D	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-20D	<2,500	<250	<2,500	<2,500	<1,250	1,150	<5,000	<250
MW-21D	<100	<10.0	<100	<100	<50.0	94.8	<200	<10.0
MW-22D	<250	<25.0	<250	<250	<125	22.5	<500	<25.0
MW-23D	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-24D	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
RW-1	<1,000	56.7J	<1,000	734J	<500	786	2,560	<100
RW-2	<2,500	724	<2,500	<2,500	<1,250	7,690	<5,000	<250
WSW-1	<100	<10.0	<100	<100	<50.0	3.7	<200	<10.0
WSW-2	NS	NS	NS	NS	NS	NS	NS	NS
WSW-4	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
WSW-5	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
WSW-6	NS	NS	NS	NS	NS	NS	NS	NS
WSW-7	<100	<10.0	<100	<100	<50.0	16.8	<200	<10.0
WSW-8	<100	<10.0	<100	<100	<50.0	0.26J	<200	<10.0
WSW-9	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.	ABAN.
WSW-10	<100	<10.0	<100	<100	<50.0	0.56J	<200	<10.0
MW-1 Dup.	<50,000	<5,000	<50,000	<50,000	<25,000	1,770J	<100,000	<5,000
MW-11 Dup.	<1,000	54.8J	<1,000	659J	<500	751	<2,000	<100
Field Blank	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
Trip Blank	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0

Notes: Groundwater samples collected on March 17, 2015.
DIPE = Diisopropyl Ether
ETBE = Ethyl tert-butyl Ether
TAA = tert-Amyl Alcohol
TAME = tert-Amy Methyl Ether
TBA = tert-Butyl Alcohol
TBF = tert-Butyl Formate

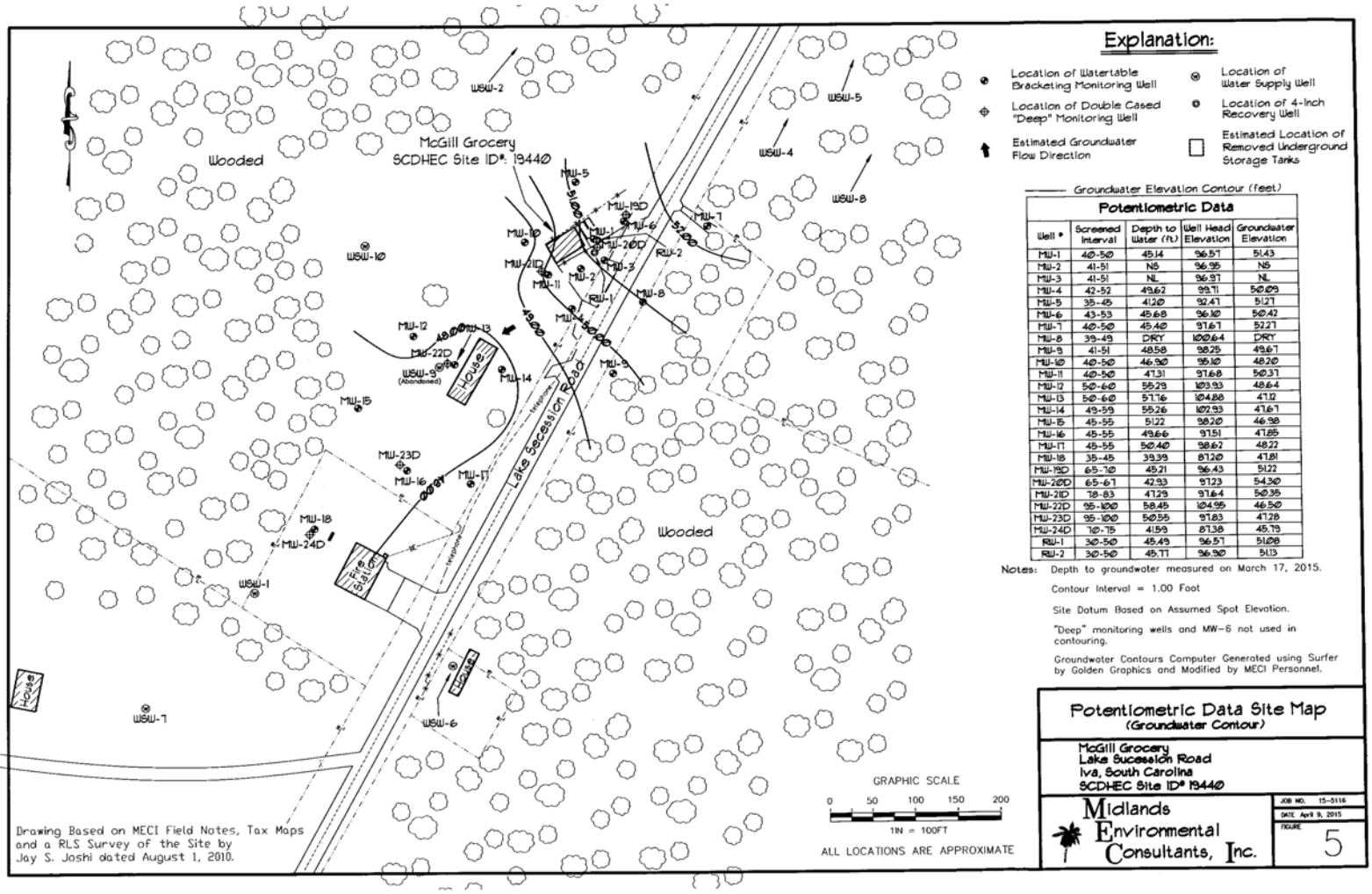
Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

Groundwater CoC Site Map
(Oxygenates)

McGill Grocery
Lake Sucession Road
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 15-5116
DATE April 9, 2015
FIGURE 4B



Explanation:

- Location of Watertable Bracketing Monitoring Well
- Location of Double Cased "Deep" Monitoring Well
- Estimated Groundwater Flow Direction
- Location of Water Supply Well
- Location of 4-Inch Recovery Well
- Estimated Location of Removed Underground Storage Tanks
- Groundwater Elevation Contour (feet)

Potentiometric Data

Well #	Screened Interval	Depth to Water (ft)	Well Head Elevation	Groundwater Elevation
MW-1	40-50	45.14	96.57	51.43
MW-2	41-51	NS	96.95	NS
MW-3	41-51	NL	96.97	NL
MW-4	42-52	49.62	99.71	50.09
MW-5	35-45	41.20	92.47	51.27
MW-6	43-53	45.68	96.10	50.42
MW-7	40-50	45.40	91.61	52.21
MW-8	39-49	DRY	100.64	DRY
MW-9	41-51	48.58	98.25	49.67
MW-10	40-50	46.90	95.10	48.20
MW-11	40-50	41.31	91.68	50.37
MW-12	50-60	55.29	103.93	48.64
MW-13	50-60	57.16	104.88	47.72
MW-14	49-59	55.26	102.93	47.67
MW-15	45-55	51.22	98.20	46.98
MW-16	45-55	49.66	97.51	47.85
MW-17	45-55	50.40	98.62	48.22
MW-18	35-45	39.39	87.20	47.81
MW-19D	65-70	45.21	96.43	51.22
MW-20D	65-67	42.93	97.23	54.30
MW-21D	78-83	47.29	97.64	50.35
MW-22D	95-100	58.45	104.95	46.50
MW-23D	95-100	50.55	97.83	47.28
MW-24D	10-15	41.59	87.38	45.79
RW-1	30-50	45.49	96.57	51.08
RW-2	30-50	45.77	96.90	51.13

Notes:

Depth to groundwater measured on March 17, 2015.

Contour Interval = 1.00 Foot

Site Datum Based on Assumed Spot Elevation.

"Deep" monitoring wells and MW-6 not used in contouring.

Groundwater Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

GRAPHIC SCALE

0 50 100 150 200

1IN = 100FT

ALL LOCATIONS ARE APPROXIMATE

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

Potentiometric Data Site Map
(Groundwater Contour)

McGill Grocery
Lake Sucession Road
Iva, South Carolina
SCDHEC Site ID# 19440

Midlands Environmental Consultants, Inc.

JOB NO. 15-5116
DATE April 9, 2015
FIGURE 5

APPENDIX A:

SITE SURVEY
(Not Applicable)

APPENDIX B:

SAMPLING LOGS, LABORATORY DATA SHEETS, & CHAIN-OF-CUSTODY FORMS

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-1

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	45.14			feet
Total Well Depth (TWD)	50			feet
Length of the water column (LWC=TWD-DGW)			4.86	feet
1 casing volume (CV=LWC X C)= _____ X		0.163	0.79	gallons
5 casing volume (5 X CV)=		5	3.96	gallons

Total Volume of Water Purged Before Sampling 1.75 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	13:05	13:06	13:07					
pH (s.u.)	7.51	7.46	7.39					
Specific Conductivity (µmhos/cm)	212.6	198.7	196.2					
Water Temperature (°C)	19.7	19.5	19.4					
Dissolved Oxygen	1.17	1.06	0.98					
Turbidity (NTU)	13.8	106.2	140.9					
PID readings, if required								

Remarks: Sample Time: 13:07 **Dry @ 1.75 Gallons**

Duplicate Sample Collected

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-2

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:		feet
Depth to Free Product (DFP)		feet
Depth to Ground Water (DGW)	NS	feet
Total Well Depth (TWD)	51	feet
Length of the water column (LWC=TWD-DGW)	#VALUE!	feet
1 casing volume (CV=LWC X C)= ____ X	0.163 #VALUE!	gallons
5 casing volume (5 X CV)=	5 #VALUE!	gallons

Total Volume of Water Purged Before Sampling NS gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	NS							
pH (s.u.)	NS							
Specific Conductivity (µmhos/cm)	NS							
Water Temperature (°C)	NS							
Dissolved Oxygen	NS							
Turbidity (NTU)	NS							
PID readings, if required								

Remarks: Sample Time: NS **NS = Not Sampled**

Well appears to be under screwed down board

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-3

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:			feet
Depth to Free Product (DFP)			feet
Depth to Ground Water (DGW)	NL		feet
Total Well Depth (TWD)	51		feet
Length of the water column (LWC=TWD-DGW)		#VALUE!	feet
1 casing volume (CV=LWC X C)= ____ X	0.163	#VALUE!	gallons
5 casing volume (5 X CV)=	5	#VALUE!	gallons

Total Volume of Water Purged Before Sampling NL gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	NL							
pH (s.u.)	NL							
Specific Conductivity (µmhos/cm)	NL							
Water Temperature (°C)	NL							
Dissolved Oxygen	NL							
Turbidity (NTU)	NL							
PID readings, if required								

Remarks: Sample Time: NL **NL = Not Located**
Possible Paved Over

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-4

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	49.62			feet
Total Well Depth (TWD)	52			feet
Length of the water column (LWC=TWD-DGW)			2.38	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	0.39	gallons
5 casing volume (5 X CV)=		5	1.94	gallons

Total Volume of Water Purged Before Sampling 0.5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	13:45	13:46						
pH (s.u.)	6.93	6.84						
Specific Conductivity (µmhos/cm)	71.2	64.8						
Water Temperature (°C)	18.7	18.7						
Dissolved Oxygen	2.89	2.76						
Turbidity (NTU)	28.3	162.9						
PID readings, if required								

Remarks: Sample Time: 13:46 **Dry @ 0.50 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-5

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	41.20			feet
Total Well Depth (TWD)	45			feet
Length of the water column (LWC=TWD-DGW)			3.8	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	0.62	gallons
5 casing volume (5 X CV)=		5	3.10	gallons

Total Volume of Water Purged Before Sampling 0.75 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	13:38	13:39						
pH (s.u.)	7.36	7.42						
Specific Conductivity (µmhos/cm)	88.2	97.6						
Water Temperature (°C)	19.0	18.9						
Dissolved Oxygen	1.76	1.68						
Turbidity (NTU)	26.8	155.8						
PID readings, if required								

Remarks: Sample Time: 13:39 **Dry @ 0.75 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-6

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	45.68			feet
Total Well Depth (TWD)	53			feet
Length of the water column (LWC=TWD-DGW)			7.32	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	1.19	gallons
5 casing volume (5 X CV)=		5	5.97	gallons

Total Volume of Water Purged Before Sampling 2.5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	13:10	13:11	13:12					
pH (s.u.)	7.36	7.42	7.45					
Specific Conductivity (µmhos/cm)	117.6	109.8	107.6					
Water Temperature (°C)	19.2	19.1	19.1					
Dissolved Oxygen	1.87	1.96	1.91					
Turbidity (NTU)	15.1	126.0	179.8					
PID readings, if required								

Remarks: Sample Time: 13:12 **Dry @ 2.50 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-7

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:			feet
Depth to Free Product (DFP)			feet
Depth to Ground Water (DGW)	45.40		feet
Total Well Depth (TWD)	50		feet
Length of the water column (LWC=TWD-DGW)		4.6	feet
1 casing volume (CV=LWC X C)= ____ X	0.163	0.75	gallons
5 casing volume (5 X CV)=	5	3.75	gallons

Total Volume of Water Purged Before Sampling 1.5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	13:15	13:16	13:17					
pH (s.u.)	6.91	6.87	6.84					
Specific Conductivity (µmhos/cm)	63.2	71.7	72.3					
Water Temperature (°C)	18.8	18.8	18.7					
Dissolved Oxygen	3.37	3.46	3.54					
Turbidity (NTU)	14.4	109.2	144.4					
PID readings, if required								

Remarks: Sample Time: 13:17 **Dry @ 1.50 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-8

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:		feet
Depth to Free Product (DFP)		feet
Depth to Ground Water (DGW)	DRY	feet
Total Well Depth (TWD)	49	feet
Length of the water column (LWC=TWD-DGW)	#VALUE!	feet
1 casing volume (CV=LWC X C)= _____ X	0.163 #VALUE!	gallons
5 casing volume (5 X CV)=	5 #VALUE!	gallons

Total Volume of Water Purged Before Sampling DRY gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	DRY							
pH (s.u.)	DRY							
Specific Conductivity (µmhos/cm)	DRY							
Water Temperature (°C)	DRY							
Dissolved Oxygen	DRY							
Turbidity (NTU)	DRY							
PID readings, if required								

Remarks: Sample Time: DRY **DRY = Well Gauged DRY**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-9

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	48.58			feet
Total Well Depth (TWD)	51			feet
Length of the water column (LWC=TWD-DGW)			2.42	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	0.39	gallons
5 casing volume (5 X CV)=		5	1.97	gallons

Total Volume of Water Purged Before Sampling 0.5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	12:45	12:46						
pH (s.u.)	7.27	7.21						
Specific Conductivity (µmhos/cm)	87.1	94.2						
Water Temperature (°C)	18.6	18.6						
Dissolved Oxygen	2.62	2.53						
Turbidity (NTU)	21.3	147.6						
PID readings, if required								

Remarks: Sample Time: 12:46 **Dry @ 0.50 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-10

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:			feet
Depth to Free Product (DFP)			feet
Depth to Ground Water (DGW)	46.90		feet
Total Well Depth (TWD)	50		feet
Length of the water column (LWC=TWD-DGW)		3.1	feet
1 casing volume (CV=LWC X C)= ____ X	0.163	0.51	gallons
5 casing volume (5 X CV)=	5	2.53	gallons

Total Volume of Water Purged Before Sampling 0.75 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	13:50	13:51						
pH (s.u.)	6.88	6.80						
Specific Conductivity (µmhos/cm)	52.7	61.8						
Water Temperature (°C)	19.0	18.8						
Dissolved Oxygen	3.31	3.19						
Turbidity (NTU)	17.7	140.9						
PID readings, if required								

Remarks: Sample Time: 13:51 **Dry @ 0.75 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-11

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:			feet
Depth to Free Product (DFP)			feet
Depth to Ground Water (DGW)	47.31		feet
Total Well Depth (TWD)	50		feet
Length of the water column (LWC=TWD-DGW)		2.69	feet
1 casing volume (CV=LWC X C)= ____ X	0.163	0.44	gallons
5 casing volume (5 X CV)=	5	2.19	gallons

Total Volume of Water Purged Before Sampling 0.5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	13:55	13:56						
pH (s.u.)	6.74	6.79						
Specific Conductivity (µmhos/cm)	49.7	41.2						
Water Temperature (°C)	19.1	19.0						
Dissolved Oxygen	3.66	3.84						
Turbidity (NTU)	22.6	137.6						
PID readings, if required								

Remarks: Sample Time: 13:56 **Dry @ 0.50 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-12

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	55.29			feet
Total Well Depth (TWD)	60			feet
Length of the water column (LWC=TWD-DGW)			4.71	feet
1 casing volume (CV=LWC X C)= _____ X		0.163	0.77	gallons
5 casing volume (5 X CV)=		5	3.84	gallons

Total Volume of Water Purged Before Sampling 1.25 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	11:35	11:36						
pH (s.u.)	7.21	7.29						
Specific Conductivity (µmhos/cm)	47.1	39.9						
Water Temperature (°C)	18.9	18.8						
Dissolved Oxygen	4.98	5.07						
Turbidity (NTU)	17.7	124.5						
PID readings, if required								

Remarks: Sample Time: 11:36 **Dry @ 1.25 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-13

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	57.76			feet
Total Well Depth (TWD)	60			feet
Length of the water column (LWC=TWD-DGW)			2.24	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	0.37	gallons
5 casing volume (5 X CV)=		5	1.83	gallons

Total Volume of Water Purged Before Sampling 0.5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	11:10	11:11						
pH (s.u.)	6.59	6.52						
Specific Conductivity (µmhos/cm)	68.7	61.2						
Water Temperature (°C)	18.6	18.7						
Dissolved Oxygen	4.71	4.59						
Turbidity (NTU)	18.0	161.7						
PID readings, if required								

Remarks: Sample Time: 11:11 **Dry @ 0.50 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-14

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	55.26			feet
Total Well Depth (TWD)	59			feet
Length of the water column (LWC=TWD-DGW)			3.74	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	0.61	gallons
5 casing volume (5 X CV)=		5	3.05	gallons

Total Volume of Water Purged Before Sampling 1 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	11:05	11:06						
pH (s.u.)	6.86	6.79						
Specific Conductivity (µmhos/cm)	55.8	64.7						
Water Temperature (°C)	18.9	18.7						
Dissolved Oxygen	5.27	5.10						
Turbidity (NTU)	16.3	104.2						
PID readings, if required								

Remarks: Sample Time: 11:06 **Dry @ 1.00 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-15

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	51.22			feet
Total Well Depth (TWD)	55			feet
Length of the water column (LWC=TWD-DGW)			3.78	feet
1 casing volume (CV=LWC X C)= _____ X		0.163	0.62	gallons
5 casing volume (5 X CV)=		5	3.08	gallons

Total Volume of Water Purged Before Sampling 1 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	11:45	11:46						
pH (s.u.)	6.72	6.67						
Specific Conductivity (µmhos/cm)	51.5	42.8						
Water Temperature (°C)	18.5	18.5						
Dissolved Oxygen	5.36	5.21						
Turbidity (NTU)	15.4	117.6						
PID readings, if required								

Remarks: Sample Time: 11:46 **Dry @ 1.00 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-16

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	49.66			feet
Total Well Depth (TWD)	55			feet
Length of the water column (LWC=TWD-DGW)			5.34	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	0.87	gallons
5 casing volume (5 X CV)=		5	4.35	gallons

Total Volume of Water Purged Before Sampling 1.5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	12:10	12:11						
pH (s.u.)	6.62	6.70						
Specific Conductivity (µmhos/cm)	47.8	55.1						
Water Temperature (°C)	18.8	18.7						
Dissolved Oxygen	4.62	4.39						
Turbidity (NTU)	18.9	120.7						
PID readings, if required								

Remarks: Sample Time: 12:11 **Dry @ 1.50 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-17

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	50.40			feet
Total Well Depth (TWD)	55			feet
Length of the water column (LWC=TWD-DGW)			4.6	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	0.75	gallons
5 casing volume (5 X CV)=		5	3.75	gallons

Total Volume of Water Purged Before Sampling 1.25 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	12:15	12:16						
pH (s.u.)	7.11	7.19						
Specific Conductivity (µmhos/cm)	37.6	30.8						
Water Temperature (°C)	19.0	18.8						
Dissolved Oxygen	5.36	5.52						
Turbidity (NTU)	14.6	109.8						
PID readings, if required								

Remarks: Sample Time: 12:16 **Dry @ 1.25 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-18

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	39.39			feet
Total Well Depth (TWD)	45			feet
Length of the water column (LWC=TWD-DGW)			5.61	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	0.91	gallons
5 casing volume (5 X CV)=		5	4.57	gallons

Total Volume of Water Purged Before Sampling 1.5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	10:35	10:36						
pH (s.u.)	7.91	7.86						
Specific Conductivity (µmhos/cm)	52.0	38.7						
Water Temperature (°C)	18.0	17.9						
Dissolved Oxygen	8.55	8.29						
Turbidity (NTU)	13.5	136.2						
PID readings, if required								

Remarks: Sample Time: 10:36 **Dry @ 1.50 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-19D

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	45.21			feet
Total Well Depth (TWD)	70			feet
Length of the water column (LWC=TWD-DGW)			24.79	feet
1 casing volume (CV=LWC X C)= _____ X		0.163	4.04	gallons
5 casing volume (5 X CV)=		5	20.20	gallons

Total Volume of Water Purged Before Sampling 14 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	13:20	13:24	13:28	13:32				
pH (s.u.)	6.20	6.17	6.11	6.15				
Specific Conductivity (µmhos/cm)	71.2	63.8	62.7	60.4				
Water Temperature (°C)	20.2	19.9	19.9	19.8				
Dissolved Oxygen	4.37	4.21	4.29	4.21				
Turbidity (NTU)	13.8	40.2	51.2	62.8				
PID readings, if required								

Remarks: Sample Time: 13:32 **Dry @ 14.0 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-20D

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	42.93			feet
Total Well Depth (TWD)	67			feet
Length of the water column (LWC=TWD-DGW)			24.07	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	3.92	gallons
5 casing volume (5 X CV)=		5	19.62	gallons

Total Volume of Water Purged Before Sampling 12.5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	12:50	12:54	12:58	13:02				
pH (s.u.)	7.15	7.21	7.19	7.29				
Specific Conductivity (µmhos/cm)	129.6	119.2	118.7	115.6				
Water Temperature (°C)	19.4	19.2	19.1	19.1				
Dissolved Oxygen	5.17	5.06	4.93	4.87				
Turbidity (NTU)	13.3	30.1	47.7	60.0				
PID readings, if required								

Remarks: Sample Time: 13:02 **Dry @ 12.5 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912A1	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-21D

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	47.29			feet
Total Well Depth (TWD)	83			feet
Length of the water column (LWC=TWD-DGW)			35.71	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	5.82	gallons
5 casing volume (5 X CV)=		5	29.10	gallons

Total Volume of Water Purged Before Sampling 12 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	14:00	14:06	14:12					
pH (s.u.)	6.11	6.06	6.01					
Specific Conductivity (µmhos/cm)	82.1	69.9	68.2					
Water Temperature (°C)	19.0	18.9	18.8					
Dissolved Oxygen	4.06	4.13	3.97					
Turbidity (NTU)	14.1	36.3	60.8					
PID readings, if required								

Remarks: Sample Time: 14:12 **Dry @ 12.0 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-22D

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	58.45			feet
Total Well Depth (TWD)	100			feet
Length of the water column (LWC=TWD-DGW)			41.55	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	6.77	gallons
5 casing volume (5 X CV)=		5	33.86	gallons

Total Volume of Water Purged Before Sampling 20.5 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	11:15	11:21	11:27	11:33				
pH (s.u.)	6.86	6.91	6.87	6.83				
Specific Conductivity (µmhos/cm)	132.1	117.6	115.2	111.9				
Water Temperature (°C)	18.8	18.7	18.7	18.7				
Dissolved Oxygen	2.88	2.97	2.84	2.76				
Turbidity (NTU)	12.8	30.5	48.7	62.8				
PID readings, if required								

Remarks: Sample Time: 11:33 **Dry @ 20.50 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-23D

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	50.55			feet
Total Well Depth (TWD)	100			feet
Length of the water column (LWC=TWD-DGW)			49.45	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	8.06	gallons
5 casing volume (5 X CV)=		5	40.30	gallons

Total Volume of Water Purged Before Sampling 17 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	11:50	11:58	12:06					
pH (s.u.)	6.30	6.42	6.46					
Specific Conductivity (µmhos/cm)	67.5	59.1	57.6					
Water Temperature (°C)	22.1	20.9	20.8					
Dissolved Oxygen	4.72	4.53	4.40					
Turbidity (NTU)	14.2	31.8	39.8					
PID readings, if required								

Remarks: Sample Time: 12:06 **Dry @ 17.00 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** MW-24D

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	41.59			feet
Total Well Depth (TWD)	75			feet
Length of the water column (LWC=TWD-DGW)			33.41	feet
1 casing volume (CV=LWC X C)= ____ X		0.163	5.45	gallons
5 casing volume (5 X CV)=		5	27.23	gallons

Total Volume of Water Purged Before Sampling 15 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	10:40	10:45	10:50					
pH (s.u.)	8.04	7.96	7.91					
Specific Conductivity (µmhos/cm)	62.4	51.8	50.7					
Water Temperature (°C)	18.1	18.0	18.0					
Dissolved Oxygen	3.49	3.36	3.27					
Turbidity (NTU)	12.6	37.8	52.0					
PID readings, if required								

Remarks: Sample Time: 10:50 **Dry @ 15.00 Gallons**

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** RW-1

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 4 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:			feet
Depth to Free Product (DFP)			feet
Depth to Ground Water (DGW)	45.49		feet
Total Well Depth (TWD)	50		feet
Length of the water column (LWC=TWD-DGW)		4.51	feet
1 casing volume (CV=LWC X C)= ____ X	0.66	2.98	gallons
5 casing volume (5 X CV)=	5	14.88	gallons

Total Volume of Water Purged Before Sampling 10 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	12:20	12:23	12:26	12:28				
pH (s.u.)	7.04	6.96	6.89	6.92				
Specific Conductivity (µmhos/cm)	361.8	427.0	521.0	556.0				
Water Temperature (°C)	19.4	19.2	19.2	19.1				
Dissolved Oxygen	0.59	0.63	0.57	0.51				
Turbidity (NTU)	12.2	126.8	140.9	157.6				
PID readings, if required								

Remarks: Sample Time: 12:28 **Dry @ 10.00 Gallons**

Duplicate Sample Collected

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 3/17/2015

Field Personnel: Frank Mitlin, Adam Looper, Peter Wylie

General Weather Conditions: Clear, Sunny

Ambient Air Temperature: 27.0 °C

Quality Assurance

pH/Conductivity Meter		**DO Meter**	
YSI 63		**YSI 550A**	
09C 101302		04L 2026AK	
10K 101895	X	08B 101895	X
07M 100905		04A 0912AI	
Calibration Buffer:	4, 7, & 10		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: McGill Grocery

Site ID#: 19440 **Monitoring Well #** RW-2

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 4 inches

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:				feet
Depth to Free Product (DFP)				feet
Depth to Ground Water (DGW)	45.77			feet
Total Well Depth (TWD)	50			feet
Length of the water column (LWC=TWD-DGW)			4.23	feet
1 casing volume (CV=LWC X C)= ____ X		0.66	2.79	gallons
5 casing volume (5 X CV)=		5	13.96	gallons

Total Volume of Water Purged Before Sampling 9 gals.

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

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	12:32	12:35	12:38	12:41				
pH (s.u.)	7.09	7.15	7.18	7.14				
Specific Conductivity (µmhos/cm)	332.8	316.6	310.2	307.6				
Water Temperature (°C)	18.5	18.4	18.4	18.4				
Dissolved Oxygen	0.82	0.87	0.79	0.74				
Turbidity (NTU)	14.8	57.8	78.1	110.6				
PID readings, if required								

Remarks: Sample Time: 12:41 **Dry @ 9.00 Gallons**

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

April 08, 2015

Mr. Bryan Shane
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Dear Mr. Shane:
Enclosed are the analytical results for sample(s) received by the laboratory on March 18, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

The laboratory report is being resubmitted on April 8, 2015, to correct a sample ID entered incorrectly during login.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
Project Manager

Enclosures

cc: Mr. Ryan Ariail, Midlands Environmental
Mr. Jeff Coleman, Midlands Environmental
Mr. Kyle Pudney, Midlands Environmental

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Charlotte Certification IDs
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 Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92241812001	MW-1	Water	03/17/15 13:07	03/18/15 15:50
92241812002	MW-4	Water	03/17/15 13:46	03/18/15 15:50
92241812003	MW-5	Water	03/17/15 13:39	03/18/15 15:50
92241812004	MW-6	Water	03/17/15 13:12	03/18/15 15:50
92241812005	MW-7	Water	03/17/15 13:17	03/18/15 15:50
92241812006	MW-9	Water	03/17/15 12:46	03/18/15 15:50
92241812007	MW-10	Water	03/17/15 13:51	03/18/15 15:50
92241812008	MW-11	Water	03/17/15 13:56	03/18/15 15:50
92241812009	MW-12	Water	03/17/15 11:36	03/18/15 15:50
92241812010	MW-13	Water	03/17/15 11:11	03/18/15 15:50
92241812011	MW-14	Water	03/17/15 11:06	03/18/15 15:50
92241812012	MW-15	Water	03/17/15 11:46	03/18/15 15:50
92241812013	MW-16	Water	03/17/15 12:11	03/18/15 15:50
92241812014	MW-17	Water	03/17/15 12:16	03/18/15 15:50
92241812015	MW-18	Water	03/17/15 10:36	03/18/15 15:50
92241812016	MW-19D	Water	03/17/15 13:32	03/18/15 15:50
92241812017	MW-20D	Water	03/17/15 13:02	03/18/15 15:50
92241812018	MW-21D	Water	03/17/15 14:12	03/18/15 15:50
92241812019	MW-22D	Water	03/17/15 11:33	03/18/15 15:50
92241812020	MW-23D	Water	03/17/15 12:06	03/18/15 15:50
92241812021	MW-24D	Water	03/17/15 10:50	03/18/15 15:50
92241812022	RW-1	Water	03/17/15 12:28	03/18/15 15:50
92241812023	RW-2	Water	03/17/15 12:41	03/18/15 15:50
92241812024	WSW-1	Water	03/17/15 10:30	03/18/15 15:50
92241812025	WSW-4	Water	03/17/15 14:05	03/18/15 15:50
92241812026	WSW-5	Water	03/17/15 14:10	03/18/15 15:50
92241812027	WSW-7	Water	03/17/15 10:55	03/18/15 15:50
92241812028	WSW-8	Water	03/17/15 14:20	03/18/15 15:50
92241812029	WSW-10	Water	03/17/15 11:40	03/18/15 15:50
92241812030	RW1 DUPLICATE	Water	03/17/15 12:28	03/18/15 15:50
92241812031	MW1 DUPLICATE	Water	03/17/15 13:07	03/18/15 15:50
92241812032	FIELD BLANK	Water	03/17/15 11:00	03/18/15 15:50
92241812033	TRIP BLANK	Water	03/17/15 11:01	03/18/15 15:50

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92241812001	MW-1	EPA 8011	JMC	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92241812002	MW-4	EPA 8011	JMC	2	PASI-C
		EPA 8260	CCL, GAW	20	PASI-C
92241812003	MW-5	EPA 8011	JMC	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92241812004	MW-6	EPA 8011	JMC	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92241812005	MW-7	EPA 8011	JMC	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92241812006	MW-9	EPA 8011	JMC	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92241812007	MW-10	EPA 8011	JMC	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92241812008	MW-11	EPA 8011	JMC	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92241812009	MW-12	EPA 8011	JMC	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92241812010	MW-13	EPA 8011	JMC	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92241812011	MW-14	EPA 8011	JMC	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92241812012	MW-15	EPA 8011	JMC	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92241812013	MW-16	EPA 8011	JMC	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92241812014	MW-17	EPA 8011	JMC	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92241812015	MW-18	EPA 8011	JMC	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92241812016	MW-19D	EPA 8011	JMC	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92241812017	MW-20D	EPA 8011	JMC	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92241812018	MW-21D	EPA 8011	JMC	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92241812019	MW-22D	EPA 8011	JMC	2	PASI-C

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	CCL	20	PASI-C
92241812020	MW-23D	EPA 8011	JMC	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92241812021	MW-24D	EPA 8011	JMC	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92241812022	RW-1	EPA 8011	JMC	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92241812023	RW-2	EPA 8011	JMC	2	PASI-C
		EPA 8260	CCL, GAW	20	PASI-C
92241812024	WSW-1	EPA 8011	JMC	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92241812025	WSW-4	EPA 8011	JMC	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92241812026	WSW-5	EPA 8011	JMC	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92241812027	WSW-7	EPA 8011	JMC	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92241812028	WSW-8	EPA 8011	JMC	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92241812029	WSW-10	EPA 8011	JMC	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92241812030	RW1 DUPLICATE	EPA 8011	JMC	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92241812031	MW1 DUPLICATE	EPA 8011	JMC	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92241812032	FIELD BLANK	EPA 8011	JMC	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92241812033	TRIP BLANK	EPA 8260	GAW	20	PASI-C

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: MW-1 **Lab ID: 92241812001** Collected: 03/17/15 13:07 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**1.2**	ug/L	0.039	0.039	2	03/21/15 19:54	03/24/15 04:51	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	112	%	60-140		2	03/21/15 19:54	03/24/15 04:51	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100000	76800	1000		03/20/15 11:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10000	3400	1000		03/20/15 11:52	994-05-8	
Benzene	ND	ug/L	5000	1700	1000		03/20/15 11:52	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100000	32100	1000		03/20/15 11:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100000	57700	1000		03/20/15 11:52	75-65-0	
tert-Butyl Formate	ND	ug/L	50000	7300	1000		03/20/15 11:52	762-75-4	
1,2-Dichloroethane	ND	ug/L	5000	1800	1000		03/20/15 11:52	107-06-2	
Diisopropyl ether	**1750J**	ug/L	5000	1700	1000		03/20/15 11:52	108-20-3	
Ethanol	ND	ug/L	200000	138000	1000		03/20/15 11:52	64-17-5	
Ethylbenzene	ND	ug/L	5000	1600	1000		03/20/15 11:52	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10000	3600	1000		03/20/15 11:52	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5000	1700	1000		03/20/15 11:52	1634-04-4	
Naphthalene	ND	ug/L	5000	2000	1000		03/20/15 11:52	91-20-3	
Toluene	**48500**	ug/L	5000	1600	1000		03/20/15 11:52	108-88-3	
Xylene (Total)	**6800J**	ug/L	10000	2700	1000		03/20/15 11:52	1330-20-7	
m&p-Xylene	**8950J**	ug/L	10000	3100	1000		03/20/15 11:52	179601-23-1	
o-Xylene	**6800**	ug/L	5000	1600	1000		03/20/15 11:52	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1000		03/20/15 11:52	460-00-4	D3
1,2-Dichloroethane-d4 (S)	112	%	70-130		1000		03/20/15 11:52	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1000		03/20/15 11:52	2037-26-5	

Sample: MW-4 **Lab ID: 92241812002** Collected: 03/17/15 13:46 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/21/15 19:54	03/22/15 01:46	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	90	%	60-140		1	03/21/15 19:54	03/22/15 01:46	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	10000	7680	100		03/23/15 20:04	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1000	340	100		03/23/15 20:04	994-05-8	
Benzene	ND	ug/L	500	170	100		03/23/15 20:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	3210	100		03/23/15 20:04	624-95-3	
tert-Butyl Alcohol	ND	ug/L	10000	5770	100		03/23/15 20:04	75-65-0	
tert-Butyl Formate	ND	ug/L	5000	730	100		03/23/15 20:04	762-75-4	
1,2-Dichloroethane	ND	ug/L	500	180	100		03/23/15 20:04	107-06-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: MW-4 **Lab ID: 92241812002** Collected: 03/17/15 13:46 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Diisopropyl ether	**9650**	ug/L	500	170	100		03/23/15 20:04	108-20-3	
Ethanol	ND	ug/L	20000	13800	100		03/23/15 20:04	64-17-5	
Ethylbenzene	ND	ug/L	500	160	100		03/23/15 20:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	360	100		03/23/15 20:04	637-92-3	
Methyl-tert-butyl ether	**17300**	ug/L	1000	340	200		03/25/15 11:20	1634-04-4	
Naphthalene	ND	ug/L	500	200	100		03/23/15 20:04	91-20-3	
Toluene	ND	ug/L	500	160	100		03/23/15 20:04	108-88-3	
Xylene (Total)	ND	ug/L	1000	270	100		03/23/15 20:04	1330-20-7	
m&p-Xylene	ND	ug/L	1000	310	100		03/23/15 20:04	179601-23-1	
o-Xylene	ND	ug/L	500	160	100		03/23/15 20:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	114	%	70-130		100		03/23/15 20:04	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-130		100		03/23/15 20:04	17060-07-0	
Toluene-d8 (S)	97	%	70-130		100		03/23/15 20:04	2037-26-5	

Sample: MW-5 **Lab ID: 92241812003** Collected: 03/17/15 13:39 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/21/15 19:54	03/22/15 02:24	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	03/21/15 19:54	03/22/15 02:24	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/21/15 13:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/21/15 13:02	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/21/15 13:02	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/21/15 13:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/21/15 13:02	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/21/15 13:02	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/21/15 13:02	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/21/15 13:02	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/21/15 13:02	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/21/15 13:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/21/15 13:02	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/21/15 13:02	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/21/15 13:02	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/21/15 13:02	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/21/15 13:02	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/21/15 13:02	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/21/15 13:02	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	114	%	70-130		1		03/21/15 13:02	460-00-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: MW-5 **Lab ID: 92241812003** Collected: 03/17/15 13:39 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Surrogates									
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		03/21/15 13:02	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		03/21/15 13:02	2037-26-5	

Sample: MW-6 **Lab ID: 92241812004** Collected: 03/17/15 13:12 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/21/15 19:55	03/22/15 02:44	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	03/21/15 19:55	03/22/15 02:44	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/23/15 19:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/23/15 19:30	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/23/15 19:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/23/15 19:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/23/15 19:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/23/15 19:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/23/15 19:30	107-06-2	
Diisopropyl ether	**61.0**	ug/L	5.0	1.7	1		03/23/15 19:30	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/23/15 19:30	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/23/15 19:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/23/15 19:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/23/15 19:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/23/15 19:30	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/23/15 19:30	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/23/15 19:30	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/23/15 19:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/23/15 19:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	116	%	70-130		1		03/23/15 19:30	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130		1		03/23/15 19:30	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/23/15 19:30	2037-26-5	

Sample: MW-7 **Lab ID: 92241812005** Collected: 03/17/15 13:17 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/21/15 19:55	03/22/15 03:03	106-93-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: MW-7 **Lab ID: 92241812005** Collected: 03/17/15 13:17 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
Surrogates									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	03/21/15 19:55	03/22/15 03:03	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/21/15 13:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/21/15 13:24	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/21/15 13:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/21/15 13:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/21/15 13:24	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/21/15 13:24	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/21/15 13:24	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/21/15 13:24	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/21/15 13:24	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/21/15 13:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/21/15 13:24	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/21/15 13:24	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/21/15 13:24	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/21/15 13:24	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/21/15 13:24	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/21/15 13:24	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/21/15 13:24	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	116	%	70-130		1		03/21/15 13:24	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130		1		03/21/15 13:24	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		03/21/15 13:24	2037-26-5	

Sample: MW-9 **Lab ID: 92241812006** Collected: 03/17/15 12:46 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.021	1	03/21/15 19:55	03/22/15 03:23	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	69	%	60-140		1	03/21/15 19:55	03/22/15 03:23	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/21/15 13:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/21/15 13:40	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/21/15 13:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/21/15 13:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/21/15 13:40	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/21/15 13:40	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/21/15 13:40	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/21/15 13:40	108-20-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: MW-9 **Lab ID: 92241812006** Collected: 03/17/15 12:46 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Ethanol	ND	ug/L	200	138	1		03/21/15 13:40	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/21/15 13:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/21/15 13:40	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/21/15 13:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/21/15 13:40	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/21/15 13:40	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/21/15 13:40	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/21/15 13:40	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/21/15 13:40	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	116	%	70-130		1		03/21/15 13:40	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	70-130		1		03/21/15 13:40	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/21/15 13:40	2037-26-5	

Sample: MW-10 **Lab ID: 92241812007** Collected: 03/17/15 13:51 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/21/15 19:55	03/22/15 03:42	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	03/21/15 19:55	03/22/15 03:42	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/22/15 09:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/22/15 09:34	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/15 09:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/22/15 09:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/22/15 09:34	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/22/15 09:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/22/15 09:34	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/22/15 09:34	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/22/15 09:34	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/22/15 09:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/22/15 09:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/22/15 09:34	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/22/15 09:34	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/22/15 09:34	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/22/15 09:34	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/22/15 09:34	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/22/15 09:34	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		03/22/15 09:34	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%	70-130		1		03/22/15 09:34	17060-07-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: MW-10 **Lab ID: 92241812007** Collected: 03/17/15 13:51 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Surrogates									
Toluene-d8 (S)	98	%	70-130		1		03/22/15 09:34	2037-26-5	

Sample: MW-11 **Lab ID: 92241812008** Collected: 03/17/15 13:56 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/21/15 19:55	03/22/15 04:02	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	94	%	60-140		1	03/21/15 19:55	03/22/15 04:02	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**2810**	ug/L	2500	1920	25		03/25/15 11:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	250	85.0	25		03/25/15 11:37	994-05-8	
Benzene	ND	ug/L	125	42.5	25		03/25/15 11:37	71-43-2	
3,3-Dimethyl-1-Butanol	**1950J**	ug/L	2500	802	25		03/25/15 11:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2500	1440	25		03/25/15 11:37	75-65-0	
tert-Butyl Formate	ND	ug/L	1250	182	25		03/25/15 11:37	762-75-4	
1,2-Dichloroethane	ND	ug/L	125	45.0	25		03/25/15 11:37	107-06-2	
Diisopropyl ether	**1970**	ug/L	125	42.5	25		03/25/15 11:37	108-20-3	
Ethanol	ND	ug/L	5000	3440	25		03/25/15 11:37	64-17-5	
Ethylbenzene	ND	ug/L	125	40.0	25		03/25/15 11:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	90.0	25		03/25/15 11:37	637-92-3	
Methyl-tert-butyl ether	**2130**	ug/L	125	42.5	25		03/25/15 11:37	1634-04-4	
Naphthalene	ND	ug/L	125	50.0	25		03/25/15 11:37	91-20-3	
Toluene	ND	ug/L	125	40.0	25		03/25/15 11:37	108-88-3	
Xylene (Total)	ND	ug/L	250	67.5	25		03/25/15 11:37	1330-20-7	
m&p-Xylene	ND	ug/L	250	77.5	25		03/25/15 11:37	179601-23-1	
o-Xylene	ND	ug/L	125	40.0	25		03/25/15 11:37	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		25		03/25/15 11:37	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		25		03/25/15 11:37	17060-07-0	
Toluene-d8 (S)	95	%	70-130		25		03/25/15 11:37	2037-26-5	

Sample: MW-12 **Lab ID: 92241812009** Collected: 03/17/15 11:36 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/21/15 19:55	03/22/15 04:21	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	03/21/15 19:55	03/22/15 04:21	301-79-56	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: MW-12 **Lab ID: 92241812009** Collected: 03/17/15 11:36 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/21/15 13:57	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/21/15 13:57	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/21/15 13:57	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/21/15 13:57	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/21/15 13:57	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/21/15 13:57	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/21/15 13:57	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/21/15 13:57	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/21/15 13:57	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/21/15 13:57	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/21/15 13:57	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/21/15 13:57	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/21/15 13:57	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/21/15 13:57	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/21/15 13:57	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/21/15 13:57	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/21/15 13:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	117	%	70-130		1		03/21/15 13:57	460-00-4	
1,2-Dichloroethane-d4 (S)	121	%	70-130		1		03/21/15 13:57	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/21/15 13:57	2037-26-5	

Sample: MW-13 **Lab ID: 92241812010** Collected: 03/17/15 11:11 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/21/15 19:55	03/22/15 04:41	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	03/21/15 19:55	03/22/15 04:41	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/21/15 14:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/21/15 14:14	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/21/15 14:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/21/15 14:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/21/15 14:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/21/15 14:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/21/15 14:14	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/21/15 14:14	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/21/15 14:14	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/21/15 14:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/21/15 14:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/21/15 14:14	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: MW-13 **Lab ID: 92241812010** Collected: 03/17/15 11:11 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Naphthalene	ND	ug/L	5.0	2.0	1		03/21/15 14:14	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/21/15 14:14	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/21/15 14:14	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/21/15 14:14	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/21/15 14:14	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	119	%	70-130		1		03/21/15 14:14	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130		1		03/21/15 14:14	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		03/21/15 14:14	2037-26-5	

Sample: MW-14 **Lab ID: 92241812011** Collected: 03/17/15 11:06 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/21/15 19:55	03/22/15 05:00	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	03/21/15 19:55	03/22/15 05:00	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/21/15 14:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/21/15 14:49	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/21/15 14:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/21/15 14:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/21/15 14:49	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/21/15 14:49	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/21/15 14:49	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/21/15 14:49	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/21/15 14:49	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/21/15 14:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/21/15 14:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/21/15 14:49	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/21/15 14:49	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/21/15 14:49	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/21/15 14:49	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/21/15 14:49	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/21/15 14:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	119	%	70-130		1		03/21/15 14:49	460-00-4	pH
1,2-Dichloroethane-d4 (S)	125	%	70-130		1		03/21/15 14:49	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/21/15 14:49	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: MW-15 **Lab ID: 92241812012** Collected: 03/17/15 11:46 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/21/15 19:55	03/22/15 05:20	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	03/21/15 19:55	03/22/15 05:20	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/21/15 15:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/21/15 15:06	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/21/15 15:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/21/15 15:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/21/15 15:06	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/21/15 15:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/21/15 15:06	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/21/15 15:06	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/21/15 15:06	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/21/15 15:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/21/15 15:06	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/21/15 15:06	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/21/15 15:06	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/21/15 15:06	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/21/15 15:06	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/21/15 15:06	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/21/15 15:06	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	121	%	70-130		1		03/21/15 15:06	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%	70-130		1		03/21/15 15:06	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/21/15 15:06	2037-26-5	

Sample: MW-16 **Lab ID: 92241812013** Collected: 03/17/15 12:11 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/21/15 19:55	03/22/15 05:39	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	03/21/15 19:55	03/22/15 05:39	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/21/15 15:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/21/15 15:23	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/21/15 15:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/21/15 15:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/21/15 15:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/21/15 15:23	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/21/15 15:23	107-06-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: MW-16 **Lab ID: 92241812013** Collected: 03/17/15 12:11 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/21/15 15:23	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/21/15 15:23	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/21/15 15:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/21/15 15:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/21/15 15:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/21/15 15:23	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/21/15 15:23	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/21/15 15:23	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/21/15 15:23	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/21/15 15:23	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	125	%	70-130		1		03/21/15 15:23	460-00-4	
1,2-Dichloroethane-d4 (S)	130	%	70-130		1		03/21/15 15:23	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/21/15 15:23	2037-26-5	

Sample: MW-17 **Lab ID: 92241812014** Collected: 03/17/15 12:16 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/21/15 19:55	03/22/15 05:59	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	03/21/15 19:55	03/22/15 05:59	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/21/15 15:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/21/15 15:40	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/21/15 15:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/21/15 15:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/21/15 15:40	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/21/15 15:40	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/21/15 15:40	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/21/15 15:40	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/21/15 15:40	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/21/15 15:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/21/15 15:40	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/21/15 15:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/21/15 15:40	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/21/15 15:40	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/21/15 15:40	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/21/15 15:40	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/21/15 15:40	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	122	%	70-130		1		03/21/15 15:40	460-00-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: MW-17 **Lab ID: 92241812014** Collected: 03/17/15 12:16 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Surrogates									
1,2-Dichloroethane-d4 (S)	128	%	70-130		1		03/21/15 15:40	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		03/21/15 15:40	2037-26-5	

Sample: MW-18 **Lab ID: 92241812015** Collected: 03/17/15 10:36 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/21/15 19:55	03/22/15 06:18	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	03/21/15 19:55	03/22/15 06:18	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/21/15 15:57	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/21/15 15:57	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/21/15 15:57	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/21/15 15:57	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/21/15 15:57	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/21/15 15:57	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/21/15 15:57	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/21/15 15:57	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/21/15 15:57	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/21/15 15:57	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/21/15 15:57	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/21/15 15:57	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/21/15 15:57	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/21/15 15:57	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/21/15 15:57	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/21/15 15:57	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/21/15 15:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	125	%	70-130		1		03/21/15 15:57	460-00-4	
1,2-Dichloroethane-d4 (S)	132	%	70-130		1		03/21/15 15:57	17060-07-0	S3
Toluene-d8 (S)	103	%	70-130		1		03/21/15 15:57	2037-26-5	

Sample: MW-19D **Lab ID: 92241812016** Collected: 03/17/15 13:32 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/21/15 19:55	03/22/15 06:37	106-93-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: MW-19D **Lab ID: 92241812016** Collected: 03/17/15 13:32 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	03/21/15 19:55	03/22/15 06:37	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/22/15 04:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/22/15 04:11	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/15 04:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/22/15 04:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/22/15 04:11	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/22/15 04:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/22/15 04:11	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/22/15 04:11	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/22/15 04:11	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/22/15 04:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/22/15 04:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/22/15 04:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/22/15 04:11	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/22/15 04:11	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/22/15 04:11	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/22/15 04:11	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/22/15 04:11	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		03/22/15 04:11	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70-130		1		03/22/15 04:11	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		03/22/15 04:11	2037-26-5	

Sample: MW-20D **Lab ID: 92241812017** Collected: 03/17/15 13:02 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/21/15 19:55	03/22/15 06:56	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	03/21/15 19:55	03/22/15 06:56	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	2500	1920	25		03/23/15 20:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	250	85.0	25		03/23/15 20:38	994-05-8	
Benzene	**92.2J**	ug/L	125	42.5	25		03/23/15 20:38	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2500	802	25		03/23/15 20:38	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2500	1440	25		03/23/15 20:38	75-65-0	
tert-Butyl Formate	ND	ug/L	1250	182	25		03/23/15 20:38	762-75-4	
1,2-Dichloroethane	ND	ug/L	125	45.0	25		03/23/15 20:38	107-06-2	
Diisopropyl ether	**1150**	ug/L	125	42.5	25		03/23/15 20:38	108-20-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: MW-20D **Lab ID: 92241812017** Collected: 03/17/15 13:02 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Ethanol	ND	ug/L	5000	3440	25		03/23/15 20:38	64-17-5	
Ethylbenzene	ND	ug/L	125	40.0	25		03/23/15 20:38	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	90.0	25		03/23/15 20:38	637-92-3	
Methyl-tert-butyl ether	**1990**	ug/L	125	42.5	25		03/23/15 20:38	1634-04-4	
Naphthalene	ND	ug/L	125	50.0	25		03/23/15 20:38	91-20-3	
Toluene	**121J**	ug/L	125	40.0	25		03/23/15 20:38	108-88-3	
Xylene (Total)	ND	ug/L	250	67.5	25		03/23/15 20:38	1330-20-7	
m&p-Xylene	ND	ug/L	250	77.5	25		03/23/15 20:38	179601-23-1	
o-Xylene	ND	ug/L	125	40.0	25		03/23/15 20:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	115	%	70-130		25		03/23/15 20:38	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70-130		25		03/23/15 20:38	17060-07-0	
Toluene-d8 (S)	101	%	70-130		25		03/23/15 20:38	2037-26-5	

Sample: MW-21D **Lab ID: 92241812018** Collected: 03/17/15 14:12 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/21/15 19:55	03/22/15 07:16	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	03/21/15 19:55	03/22/15 07:16	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/22/15 09:51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/22/15 09:51	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/15 09:51	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/22/15 09:51	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/22/15 09:51	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/22/15 09:51	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/22/15 09:51	107-06-2	
Diisopropyl ether	**94.8**	ug/L	5.0	1.7	1		03/22/15 09:51	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/22/15 09:51	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/22/15 09:51	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/22/15 09:51	637-92-3	
Methyl-tert-butyl ether	**93.3**	ug/L	5.0	1.7	1		03/22/15 09:51	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/22/15 09:51	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/22/15 09:51	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/22/15 09:51	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/22/15 09:51	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/22/15 09:51	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		03/22/15 09:51	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%	70-130		1		03/22/15 09:51	17060-07-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: MW-21D **Lab ID: 92241812018** Collected: 03/17/15 14:12 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Surrogates									
Toluene-d8 (S)	95	%	70-130		1		03/22/15 09:51	2037-26-5	

Sample: MW-22D **Lab ID: 92241812019** Collected: 03/17/15 11:33 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/21/15 19:55	03/22/15 07:35	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	03/21/15 19:55	03/22/15 07:35	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	250	192	2.5		03/23/15 20:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	25.0	8.5	2.5		03/23/15 20:55	994-05-8	
Benzene	ND	ug/L	12.5	4.2	2.5		03/23/15 20:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	250	80.2	2.5		03/23/15 20:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	250	144	2.5		03/23/15 20:55	75-65-0	
tert-Butyl Formate	ND	ug/L	125	18.2	2.5		03/23/15 20:55	762-75-4	
1,2-Dichloroethane	ND	ug/L	12.5	4.5	2.5		03/23/15 20:55	107-06-2	
Diisopropyl ether	**22.5**	ug/L	12.5	4.2	2.5		03/23/15 20:55	108-20-3	
Ethanol	ND	ug/L	500	344	2.5		03/23/15 20:55	64-17-5	
Ethylbenzene	ND	ug/L	12.5	4.0	2.5		03/23/15 20:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	25.0	9.0	2.5		03/23/15 20:55	637-92-3	
Methyl-tert-butyl ether	**187**	ug/L	12.5	4.2	2.5		03/23/15 20:55	1634-04-4	
Naphthalene	ND	ug/L	12.5	5.0	2.5		03/23/15 20:55	91-20-3	
Toluene	ND	ug/L	12.5	4.0	2.5		03/23/15 20:55	108-88-3	
Xylene (Total)	ND	ug/L	25.0	6.8	2.5		03/23/15 20:55	1330-20-7	
m&p-Xylene	ND	ug/L	25.0	7.8	2.5		03/23/15 20:55	179601-23-1	
o-Xylene	ND	ug/L	12.5	4.0	2.5		03/23/15 20:55	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	115	%	70-130		2.5		03/23/15 20:55	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130		2.5		03/23/15 20:55	17060-07-0	
Toluene-d8 (S)	102	%	70-130		2.5		03/23/15 20:55	2037-26-5	

Sample: MW-23D **Lab ID: 92241812020** Collected: 03/17/15 12:06 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/24/15 20:26	03/25/15 01:02	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	93	%	60-140		1	03/24/15 20:26	03/25/15 01:02	301-79-56	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: MW-23D **Lab ID: 92241812020** Collected: 03/17/15 12:06 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/22/15 04:28	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/22/15 04:28	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/15 04:28	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/22/15 04:28	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/22/15 04:28	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/22/15 04:28	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/22/15 04:28	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/22/15 04:28	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/22/15 04:28	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/22/15 04:28	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/22/15 04:28	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/22/15 04:28	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/22/15 04:28	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/22/15 04:28	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/22/15 04:28	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/22/15 04:28	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/22/15 04:28	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		03/22/15 04:28	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70-130		1		03/22/15 04:28	17060-07-0	
Toluene-d8 (S)	95	%	70-130		1		03/22/15 04:28	2037-26-5	

Sample: MW-24D **Lab ID: 92241812021** Collected: 03/17/15 10:50 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/22/15 14:43	03/22/15 18:34	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	03/22/15 14:43	03/22/15 18:34	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/22/15 04:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/22/15 04:45	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/15 04:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/22/15 04:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/22/15 04:45	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/22/15 04:45	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/22/15 04:45	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/22/15 04:45	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/22/15 04:45	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/22/15 04:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/22/15 04:45	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/22/15 04:45	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: MW-24D **Lab ID: 92241812021** Collected: 03/17/15 10:50 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Naphthalene	ND	ug/L	5.0	2.0	1		03/22/15 04:45	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/22/15 04:45	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/22/15 04:45	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/22/15 04:45	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/22/15 04:45	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		03/22/15 04:45	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-130		1		03/22/15 04:45	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		03/22/15 04:45	2037-26-5	

Sample: RW-1 **Lab ID: 92241812022** Collected: 03/17/15 12:28 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/22/15 14:43	03/22/15 18:53	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	86	%	60-140		1	03/22/15 14:43	03/22/15 18:53	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	1000	768	10		03/25/15 14:27	75-85-4	
tert-Amylmethyl ether	**56.7J**	ug/L	100	34.0	10		03/25/15 14:27	994-05-8	
Benzene	ND	ug/L	50.0	17.0	10		03/25/15 14:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	321	10		03/25/15 14:27	624-95-3	
tert-Butyl Alcohol	**734J**	ug/L	1000	577	10		03/25/15 14:27	75-65-0	
tert-Butyl Formate	ND	ug/L	500	73.0	10		03/25/15 14:27	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	18.0	10		03/25/15 14:27	107-06-2	
Diisopropyl ether	**786**	ug/L	50.0	17.0	10		03/25/15 14:27	108-20-3	
Ethanol	**2560**	ug/L	2000	1380	10		03/25/15 14:27	64-17-5	
Ethylbenzene	**378**	ug/L	50.0	16.0	10		03/25/15 14:27	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	36.0	10		03/25/15 14:27	637-92-3	
Methyl-tert-butyl ether	**151**	ug/L	50.0	17.0	10		03/25/15 14:27	1634-04-4	
Naphthalene	**50.0J**	ug/L	50.0	20.0	10		03/25/15 14:27	91-20-3	
Toluene	ND	ug/L	50.0	16.0	10		03/25/15 14:27	108-88-3	
Xylene (Total)	ND	ug/L	100	27.0	10		03/25/15 14:27	1330-20-7	
m&p-Xylene	ND	ug/L	100	31.0	10		03/25/15 14:27	179601-23-1	
o-Xylene	ND	ug/L	50.0	16.0	10		03/25/15 14:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		10		03/25/15 14:27	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		10		03/25/15 14:27	17060-07-0	
Toluene-d8 (S)	96	%	70-130		10		03/25/15 14:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: RW-2 **Lab ID: 92241812023** Collected: 03/17/15 12:41 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/22/15 14:43	03/22/15 19:52	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	03/22/15 14:43	03/22/15 19:52	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	2500	1920	25		03/23/15 21:29	75-85-4	
tert-Amylmethyl ether	**724**	ug/L	250	85.0	25		03/23/15 21:29	994-05-8	
Benzene	**3810**	ug/L	125	42.5	25		03/23/15 21:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2500	802	25		03/23/15 21:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2500	1440	25		03/23/15 21:29	75-65-0	
tert-Butyl Formate	ND	ug/L	1250	182	25		03/23/15 21:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	125	45.0	25		03/23/15 21:29	107-06-2	
Diisopropyl ether	**7690**	ug/L	2000	680	400		03/25/15 11:54	108-20-3	
Ethanol	ND	ug/L	5000	3440	25		03/23/15 21:29	64-17-5	
Ethylbenzene	**3060**	ug/L	125	40.0	25		03/23/15 21:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	90.0	25		03/23/15 21:29	637-92-3	
Methyl-tert-butyl ether	**6080**	ug/L	2000	680	400		03/25/15 11:54	1634-04-4	
Naphthalene	**417**	ug/L	125	50.0	25		03/23/15 21:29	91-20-3	
Toluene	**61900**	ug/L	2000	640	400		03/25/15 11:54	108-88-3	
Xylene (Total)	**17900**	ug/L	4000	1080	400		03/25/15 11:54	1330-20-7	
m&p-Xylene	**12100**	ug/L	4000	1240	400		03/25/15 11:54	179601-23-1	
o-Xylene	**5830**	ug/L	2000	640	400		03/25/15 11:54	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		25		03/23/15 21:29	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		25		03/23/15 21:29	17060-07-0	
Toluene-d8 (S)	103	%	70-130		25		03/23/15 21:29	2037-26-5	

Sample: WSW-1 **Lab ID: 92241812024** Collected: 03/17/15 10:30 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/22/15 14:43	03/22/15 20:30	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	03/22/15 14:43	03/22/15 20:30	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		03/20/15 21:10	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		03/20/15 21:10	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		03/20/15 21:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		03/20/15 21:10	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		03/20/15 21:10	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		03/20/15 21:10	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/20/15 21:10	107-06-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: WSW-1 **Lab ID: 92241812024** Collected: 03/17/15 10:30 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Diisopropyl ether	**3.7**	ug/L	1.0	0.12	1		03/20/15 21:10	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		03/20/15 21:10	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/20/15 21:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		03/20/15 21:10	637-92-3	
Methyl-tert-butyl ether	**6.5**	ug/L	1.0	0.21	1		03/20/15 21:10	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		03/20/15 21:10	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		03/20/15 21:10	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/20/15 21:10	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		03/20/15 21:10	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		03/20/15 21:10	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		1		03/20/15 21:10	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%	70-130		1		03/20/15 21:10	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		03/20/15 21:10	2037-26-5	

Sample: WSW-4 **Lab ID: 92241812025** Collected: 03/17/15 14:05 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/22/15 14:44	03/22/15 20:50	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	03/22/15 14:44	03/22/15 20:50	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		03/20/15 21:27	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		03/20/15 21:27	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		03/20/15 21:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		03/20/15 21:27	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		03/20/15 21:27	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		03/20/15 21:27	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/20/15 21:27	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		03/20/15 21:27	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		03/20/15 21:27	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/20/15 21:27	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		03/20/15 21:27	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		03/20/15 21:27	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		03/20/15 21:27	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		03/20/15 21:27	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/20/15 21:27	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		03/20/15 21:27	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		03/20/15 21:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		03/20/15 21:27	460-00-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: WSW-4 **Lab ID: 92241812025** Collected: 03/17/15 14:05 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Surrogates									
1,2-Dichloroethane-d4 (S)	122	%	70-130		1		03/20/15 21:27	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		03/20/15 21:27	2037-26-5	

Sample: WSW-5 **Lab ID: 92241812026** Collected: 03/17/15 14:10 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/22/15 14:44	03/22/15 21:10	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	03/22/15 14:44	03/22/15 21:10	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		03/20/15 21:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		03/20/15 21:44	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		03/20/15 21:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		03/20/15 21:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		03/20/15 21:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		03/20/15 21:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/20/15 21:44	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		03/20/15 21:44	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		03/20/15 21:44	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/20/15 21:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		03/20/15 21:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		03/20/15 21:44	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		03/20/15 21:44	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		03/20/15 21:44	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/20/15 21:44	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		03/20/15 21:44	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		03/20/15 21:44	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		1		03/20/15 21:44	460-00-4	
1,2-Dichloroethane-d4 (S)	121	%	70-130		1		03/20/15 21:44	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		03/20/15 21:44	2037-26-5	

Sample: WSW-7 **Lab ID: 92241812027** Collected: 03/17/15 10:55 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/22/15 14:44	03/22/15 21:29	106-93-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: WSW-7 **Lab ID: 92241812027** Collected: 03/17/15 10:55 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
Surrogates									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	03/22/15 14:44	03/22/15 21:29	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		03/20/15 22:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		03/20/15 22:01	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		03/20/15 22:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		03/20/15 22:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		03/20/15 22:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		03/20/15 22:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/20/15 22:01	107-06-2	
Diisopropyl ether	**16.8**	ug/L	1.0	0.12	1		03/20/15 22:01	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		03/20/15 22:01	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/20/15 22:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		03/20/15 22:01	637-92-3	
Methyl-tert-butyl ether	**28.3**	ug/L	1.0	0.21	1		03/20/15 22:01	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		03/20/15 22:01	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		03/20/15 22:01	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/20/15 22:01	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		03/20/15 22:01	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		03/20/15 22:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		1		03/20/15 22:01	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%	70-130		1		03/20/15 22:01	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		03/20/15 22:01	2037-26-5	

Sample: WSW-8 **Lab ID: 92241812028** Collected: 03/17/15 14:20 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/22/15 14:44	03/22/15 21:48	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	92	%	60-140		1	03/22/15 14:44	03/22/15 21:48	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		03/20/15 22:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		03/20/15 22:18	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		03/20/15 22:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		03/20/15 22:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		03/20/15 22:18	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		03/20/15 22:18	762-75-4	
1,2-Dichloroethane	**0.26J**	ug/L	1.0	0.12	1		03/20/15 22:18	107-06-2	B
Diisopropyl ether	ND	ug/L	1.0	0.12	1		03/20/15 22:18	108-20-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: WSW-8 **Lab ID: 92241812028** Collected: 03/17/15 14:20 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Ethanol	ND	ug/L	200	33.0	1		03/20/15 22:18	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/20/15 22:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		03/20/15 22:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		03/20/15 22:18	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		03/20/15 22:18	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		03/20/15 22:18	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/20/15 22:18	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		03/20/15 22:18	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		03/20/15 22:18	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		03/20/15 22:18	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130		1		03/20/15 22:18	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		03/20/15 22:18	2037-26-5	

Sample: WSW-10 **Lab ID: 92241812029** Collected: 03/17/15 11:40 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/22/15 14:44	03/22/15 22:08	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	03/22/15 14:44	03/22/15 22:08	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		03/20/15 22:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		03/20/15 22:35	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		03/20/15 22:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		03/20/15 22:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		03/20/15 22:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		03/20/15 22:35	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/20/15 22:35	107-06-2	
Diisopropyl ether	**0.59J**	ug/L	1.0	0.12	1		03/20/15 22:35	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		03/20/15 22:35	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/20/15 22:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		03/20/15 22:35	637-92-3	
Methyl-tert-butyl ether	**1.2**	ug/L	1.0	0.21	1		03/20/15 22:35	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		03/20/15 22:35	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		03/20/15 22:35	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/20/15 22:35	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		03/20/15 22:35	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		03/20/15 22:35	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		03/20/15 22:35	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%	70-130		1		03/20/15 22:35	17060-07-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: WSW-10 **Lab ID: 92241812029** Collected: 03/17/15 11:40 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Surrogates									
Toluene-d8 (S)	98	%	70-130		1		03/20/15 22:35	2037-26-5	

Sample: RW1 DUPLICATE **Lab ID: 92241812030** Collected: 03/17/15 12:28 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/22/15 14:44	03/22/15 22:27	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	89	%	60-140		1	03/22/15 14:44	03/22/15 22:27	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	1000	768	10		03/25/15 14:44	75-85-4	
tert-Amylmethyl ether	**54.8J**	ug/L	100	34.0	10		03/25/15 14:44	994-05-8	
Benzene	ND	ug/L	50.0	17.0	10		03/25/15 14:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	321	10		03/25/15 14:44	624-95-3	
tert-Butyl Alcohol	**698J**	ug/L	1000	577	10		03/25/15 14:44	75-65-0	
tert-Butyl Formate	ND	ug/L	500	73.0	10		03/25/15 14:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	18.0	10		03/25/15 14:44	107-06-2	
Diisopropyl ether	**751**	ug/L	50.0	17.0	10		03/25/15 14:44	108-20-3	
Ethanol	ND	ug/L	2000	1380	10		03/25/15 14:44	64-17-5	
Ethylbenzene	**376**	ug/L	50.0	16.0	10		03/25/15 14:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	36.0	10		03/25/15 14:44	637-92-3	
Methyl-tert-butyl ether	**129**	ug/L	50.0	17.0	10		03/25/15 14:44	1634-04-4	
Naphthalene	**50.9**	ug/L	50.0	20.0	10		03/25/15 14:44	91-20-3	
Toluene	ND	ug/L	50.0	16.0	10		03/25/15 14:44	108-88-3	
Xylene (Total)	ND	ug/L	100	27.0	10		03/25/15 14:44	1330-20-7	
m&p-Xylene	ND	ug/L	100	31.0	10		03/25/15 14:44	179601-23-1	
o-Xylene	ND	ug/L	50.0	16.0	10		03/25/15 14:44	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		10		03/25/15 14:44	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		10		03/25/15 14:44	17060-07-0	
Toluene-d8 (S)	96	%	70-130		10		03/25/15 14:44	2037-26-5	

Sample: MW1 DUPLICATE **Lab ID: 92241812031** Collected: 03/17/15 13:07 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**1.3**	ug/L	0.099	0.099	5	03/22/15 14:44	03/24/15 05:30	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	0	%	60-140		5	03/22/15 14:44	03/24/15 05:30	301-79-56	S4

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: MW1 DUPLICATE **Lab ID: 92241812031** Collected: 03/17/15 13:07 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	50000	38400	500		03/25/15 15:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	5000	1700	500		03/25/15 15:01	994-05-8	
Benzene	**1340J**	ug/L	2500	850	500		03/25/15 15:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	50000	16000	500		03/25/15 15:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	50000	28800	500		03/25/15 15:01	75-65-0	
tert-Butyl Formate	ND	ug/L	25000	3650	500		03/25/15 15:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	2500	900	500		03/25/15 15:01	107-06-2	
Diisopropyl ether	**1770J**	ug/L	2500	850	500		03/25/15 15:01	108-20-3	
Ethanol	ND	ug/L	100000	68900	500		03/25/15 15:01	64-17-5	
Ethylbenzene	**1640J**	ug/L	2500	800	500		03/25/15 15:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	5000	1800	500		03/25/15 15:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	2500	850	500		03/25/15 15:01	1634-04-4	
Naphthalene	ND	ug/L	2500	1000	500		03/25/15 15:01	91-20-3	
Toluene	**48200**	ug/L	2500	800	500		03/25/15 15:01	108-88-3	
Xylene (Total)	**17400**	ug/L	5000	1350	500		03/25/15 15:01	1330-20-7	
m&p-Xylene	**10200**	ug/L	5000	1550	500		03/25/15 15:01	179601-23-1	
o-Xylene	**7180**	ug/L	2500	800	500		03/25/15 15:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		500		03/25/15 15:01	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		500		03/25/15 15:01	17060-07-0	
Toluene-d8 (S)	95	%	70-130		500		03/25/15 15:01	2037-26-5	

Sample: FIELD BLANK **Lab ID: 92241812032** Collected: 03/17/15 11:00 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/22/15 14:44	03/22/15 23:06	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	03/22/15 14:44	03/22/15 23:06	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/22/15 03:04	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/22/15 03:04	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/15 03:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/22/15 03:04	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/22/15 03:04	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/22/15 03:04	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/22/15 03:04	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/22/15 03:04	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/22/15 03:04	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/22/15 03:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/22/15 03:04	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/22/15 03:04	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Sample: FIELD BLANK **Lab ID: 92241812032** Collected: 03/17/15 11:00 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Naphthalene	ND	ug/L	5.0	2.0	1		03/22/15 03:04	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/22/15 03:04	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/22/15 03:04	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/22/15 03:04	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/22/15 03:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		03/22/15 03:04	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130		1		03/22/15 03:04	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		03/22/15 03:04	2037-26-5	

Sample: TRIP BLANK **Lab ID: 92241812033** Collected: 03/17/15 11:01 Received: 03/18/15 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/22/15 03:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/22/15 03:21	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/15 03:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/22/15 03:21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/22/15 03:21	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/22/15 03:21	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/22/15 03:21	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/22/15 03:21	108-20-3	
Ethanol	ND	ug/L	200	138	1		03/22/15 03:21	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/22/15 03:21	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/22/15 03:21	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/22/15 03:21	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/22/15 03:21	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/22/15 03:21	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		03/22/15 03:21	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		03/22/15 03:21	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		03/22/15 03:21	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		03/22/15 03:21	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		03/22/15 03:21	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		03/22/15 03:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

QC Batch: MSV/30829 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92241812024, 92241812025, 92241812026, 92241812027, 92241812028, 92241812029

METHOD BLANK: 1416140 Matrix: Water
Associated Lab Samples: 92241812024, 92241812025, 92241812026, 92241812027, 92241812028, 92241812029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	0.31J	1.0	03/20/15 15:15	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	03/20/15 15:15	
Benzene	ug/L	ND	1.0	03/20/15 15:15	
Diisopropyl ether	ug/L	ND	1.0	03/20/15 15:15	
Ethanol	ug/L	ND	200	03/20/15 15:15	
Ethyl-tert-butyl ether	ug/L	ND	10.0	03/20/15 15:15	
Ethylbenzene	ug/L	ND	1.0	03/20/15 15:15	
m&p-Xylene	ug/L	ND	2.0	03/20/15 15:15	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/20/15 15:15	
Naphthalene	ug/L	ND	1.0	03/20/15 15:15	
o-Xylene	ug/L	ND	1.0	03/20/15 15:15	
tert-Amyl Alcohol	ug/L	ND	100	03/20/15 15:15	
tert-Amylmethyl ether	ug/L	ND	10.0	03/20/15 15:15	
tert-Butyl Alcohol	ug/L	ND	100	03/20/15 15:15	
tert-Butyl Formate	ug/L	ND	50.0	03/20/15 15:15	
Toluene	ug/L	ND	1.0	03/20/15 15:15	
Xylene (Total)	ug/L	ND	2.0	03/20/15 15:15	
1,2-Dichloroethane-d4 (S)	%	109	70-130	03/20/15 15:15	
4-Bromofluorobenzene (S)	%	99	70-130	03/20/15 15:15	
Toluene-d8 (S)	%	96	70-130	03/20/15 15:15	

LABORATORY CONTROL SAMPLE: 1416141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.3	99	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	888	89	70-130	
Benzene	ug/L	50	57.1	114	70-130	
Diisopropyl ether	ug/L	50	53.4	107	70-130	
Ethanol	ug/L	2000	1950	97	70-130	
Ethyl-tert-butyl ether	ug/L	100	120	120	70-130	
Ethylbenzene	ug/L	50	56.7	113	70-130	
m&p-Xylene	ug/L	100	112	112	70-130	
Methyl-tert-butyl ether	ug/L	50	52.7	105	70-130	
Naphthalene	ug/L	50	48.1	96	70-130	
o-Xylene	ug/L	50	50.5	101	70-130	
tert-Amyl Alcohol	ug/L	1000	867	87	70-130	
tert-Amylmethyl ether	ug/L	100	112	112	70-130	
tert-Butyl Alcohol	ug/L	500	495	99	70-130	
tert-Butyl Formate	ug/L	400	446	111	70-130	
Toluene	ug/L	50	55.6	111	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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

LABORATORY CONTROL SAMPLE: 1416141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	163	109	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1416143

Parameter	Units	92242091005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	20.1	101	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	336	84	70-130	
Benzene	ug/L	2.9	20	27.9	125	70-130	
Diisopropyl ether	ug/L	ND	20	18.0	90	70-130	
Ethanol	ug/L	ND	800	741	93	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	42.9	107	70-130	
Ethylbenzene	ug/L	ND	20	23.8	119	70-130	
m&p-Xylene	ug/L	ND	40	47.8	120	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	18.4	89	70-130	
Naphthalene	ug/L	ND	20	15.0	75	70-130	
o-Xylene	ug/L	1.4	20	19.6	91	70-130	
tert-Amyl Alcohol	ug/L	ND	400	342	85	70-130	
tert-Amylmethyl ether	ug/L	ND	40	40.8	102	70-130	
tert-Butyl Alcohol	ug/L	ND	200	197	73	70-130	
tert-Butyl Formate	ug/L	ND	160	181	113	70-130	
Toluene	ug/L	ND	20	23.7	118	70-130	
1,2-Dichloroethane-d4 (S)	%				100	70-130	
4-Bromofluorobenzene (S)	%				95	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1416142

Parameter	Units	92242091004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

SAMPLE DUPLICATE: 1416142

Parameter	Units	92242091004 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	11.8J		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	122	121	1		
4-Bromofluorobenzene (S)	%	107	106	1		
Toluene-d8 (S)	%	97	98	0		

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

QC Batch: MSV/30817
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV SC
Associated Lab Samples: 92241812001

METHOD BLANK: 1415207
Matrix: Water
Associated Lab Samples: 92241812001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	03/20/15 01:09	
3,3-Dimethyl-1-Butanol	ug/L	76.4J	100	03/20/15 01:09	
Benzene	ug/L	ND	5.0	03/20/15 01:09	
Diisopropyl ether	ug/L	ND	5.0	03/20/15 01:09	
Ethanol	ug/L	ND	200	03/20/15 01:09	
Ethyl-tert-butyl ether	ug/L	ND	10.0	03/20/15 01:09	
Ethylbenzene	ug/L	ND	5.0	03/20/15 01:09	
m&p-Xylene	ug/L	ND	10.0	03/20/15 01:09	
Methyl-tert-butyl ether	ug/L	ND	5.0	03/20/15 01:09	
Naphthalene	ug/L	ND	5.0	03/20/15 01:09	
o-Xylene	ug/L	ND	5.0	03/20/15 01:09	
tert-Amyl Alcohol	ug/L	ND	100	03/20/15 01:09	
tert-Amylmethyl ether	ug/L	ND	10.0	03/20/15 01:09	
tert-Butyl Alcohol	ug/L	ND	100	03/20/15 01:09	
tert-Butyl Formate	ug/L	ND	50.0	03/20/15 01:09	
Toluene	ug/L	ND	5.0	03/20/15 01:09	
Xylene (Total)	ug/L	ND	10.0	03/20/15 01:09	
1,2-Dichloroethane-d4 (S)	%	110	70-130	03/20/15 01:09	
4-Bromofluorobenzene (S)	%	99	70-130	03/20/15 01:09	
Toluene-d8 (S)	%	96	70-130	03/20/15 01:09	

LABORATORY CONTROL SAMPLE: 1415208

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.6	95	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	836	84	70-130	
Benzene	ug/L	50	55.7	111	70-130	
Diisopropyl ether	ug/L	50	51.2	102	70-130	
Ethanol	ug/L	2000	1900	95	70-130	
Ethyl-tert-butyl ether	ug/L	100	114	114	70-130	
Ethylbenzene	ug/L	50	54.7	109	70-130	
m&p-Xylene	ug/L	100	109	109	70-130	
Methyl-tert-butyl ether	ug/L	50	50.1	100	70-130	
Naphthalene	ug/L	50	44.9	90	70-130	
o-Xylene	ug/L	50	48.6	97	70-130	
tert-Amyl Alcohol	ug/L	1000	816	82	70-130	
tert-Amylmethyl ether	ug/L	100	106	106	70-130	
tert-Butyl Alcohol	ug/L	500	458	92	70-130	
tert-Butyl Formate	ug/L	400	429	107	70-130	
Toluene	ug/L	50	54.2	108	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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

LABORATORY CONTROL SAMPLE: 1415208

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	158	105	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 1415210

Parameter	Units	92241810005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	20.2	101	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	405	101	70-130	
Benzene	ug/L	ND	20	24.8	124	70-130	
Diisopropyl ether	ug/L	ND	20	20.8	104	70-130	
Ethanol	ug/L	ND	800	991	124	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	45.8	115	70-130	
Ethylbenzene	ug/L	ND	20	24.7	124	70-130	
m&p-Xylene	ug/L	ND	40	49.5	124	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	19.9	100	70-130	
Naphthalene	ug/L	ND	20	20.1	100	70-130	
o-Xylene	ug/L	ND	20	21.2	106	70-130	
tert-Amyl Alcohol	ug/L	ND	400	411	103	70-130	
tert-Amylmethyl ether	ug/L	ND	40	43.6	109	70-130	
tert-Butyl Alcohol	ug/L	ND	200	314	157	70-130	M0
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5
Toluene	ug/L	ND	20	23.9	119	70-130	
1,2-Dichloroethane-d4 (S)	%				98	70-130	
4-Bromofluorobenzene (S)	%				96	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1415209

Parameter	Units	92241810004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

SAMPLE DUPLICATE: 1415209

Parameter	Units	92241810004 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	120	116	4		
4-Bromofluorobenzene (S)	%	106	105	2		
Toluene-d8 (S)	%	97	97	0		

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

QC Batch: MSV/30835 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92241812003, 92241812005, 92241812006, 92241812009, 92241812010, 92241812011, 92241812012, 92241812013, 92241812014, 92241812015

METHOD BLANK: 1416286 Matrix: Water
Associated Lab Samples: 92241812003, 92241812005, 92241812006, 92241812009, 92241812010, 92241812011, 92241812012, 92241812013, 92241812014, 92241812015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	03/21/15 06:45	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	03/21/15 06:45	
Benzene	ug/L	ND	5.0	03/21/15 06:45	
Diisopropyl ether	ug/L	ND	5.0	03/21/15 06:45	
Ethanol	ug/L	ND	200	03/21/15 06:45	
Ethyl-tert-butyl ether	ug/L	ND	10.0	03/21/15 06:45	
Ethylbenzene	ug/L	ND	5.0	03/21/15 06:45	
m&p-Xylene	ug/L	ND	10.0	03/21/15 06:45	
Methyl-tert-butyl ether	ug/L	ND	5.0	03/21/15 06:45	
Naphthalene	ug/L	ND	5.0	03/21/15 06:45	
o-Xylene	ug/L	ND	5.0	03/21/15 06:45	
tert-Amyl Alcohol	ug/L	ND	100	03/21/15 06:45	
tert-Amylmethyl ether	ug/L	ND	10.0	03/21/15 06:45	
tert-Butyl Alcohol	ug/L	ND	100	03/21/15 06:45	
tert-Butyl Formate	ug/L	ND	50.0	03/21/15 06:45	
Toluene	ug/L	ND	5.0	03/21/15 06:45	
Xylene (Total)	ug/L	ND	10.0	03/21/15 06:45	
1,2-Dichloroethane-d4 (S)	%	119	70-130	03/21/15 06:45	
4-Bromofluorobenzene (S)	%	118	70-130	03/21/15 06:45	
Toluene-d8 (S)	%	102	70-130	03/21/15 06:45	

LABORATORY CONTROL SAMPLE: 1416287

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	45.4	91	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	851	85	70-130	
Benzene	ug/L	50	48.3	97	70-130	
Diisopropyl ether	ug/L	50	44.6	89	70-130	
Ethanol	ug/L	2000	1510	75	70-130	
Ethyl-tert-butyl ether	ug/L	100	105	105	70-130	
Ethylbenzene	ug/L	50	50.2	100	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	47.5	95	70-130	
Naphthalene	ug/L	50	47.3	95	70-130	
o-Xylene	ug/L	50	51.2	102	70-130	
tert-Amyl Alcohol	ug/L	1000	858	86	70-130	
tert-Amylmethyl ether	ug/L	100	103	103	70-130	
tert-Butyl Alcohol	ug/L	500	473	95	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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

LABORATORY CONTROL SAMPLE: 1416287

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	473	118	70-130	
Toluene	ug/L	50	47.7	95	70-130	
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1416288

Parameter	Units	92241812009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	19.8	99	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	331	83	70-130	
Benzene	ug/L	ND	20	20.3	102	70-130	
Diisopropyl ether	ug/L	ND	20	14.3	72	70-130	
Ethanol	ug/L	ND	800	609	76	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	36.5	91	70-130	
Ethylbenzene	ug/L	ND	20	21.4	107	70-130	
m&p-Xylene	ug/L	ND	40	44.5	111	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	17.0	85	70-130	
Naphthalene	ug/L	ND	20	19.9	100	70-130	
o-Xylene	ug/L	ND	20	21.5	107	70-130	
tert-Amyl Alcohol	ug/L	ND	400	320	80	70-130	
tert-Amylmethyl ether	ug/L	ND	40	38.2	96	70-130	
tert-Butyl Alcohol	ug/L	ND	200	227	113	70-130	
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5
Toluene	ug/L	ND	20	20.3	101	70-130	
1,2-Dichloroethane-d4 (S)	%				103	70-130	
4-Bromofluorobenzene (S)	%				104	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 1416289

Parameter	Units	92241812010 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

SAMPLE DUPLICATE: 1416289

Parameter	Units	92241812010 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	120	123	2		
4-Bromofluorobenzene (S)	%	119	119	0		
Toluene-d8 (S)	%	102	102	0		

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

QC Batch: MSV/30842 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92241812016, 92241812020, 92241812021, 92241812032, 92241812033

METHOD BLANK: 1416600 Matrix: Water
Associated Lab Samples: 92241812016, 92241812020, 92241812021, 92241812032, 92241812033

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	03/22/15 02:30	
3,3-Dimethyl-1-Butanol	ug/L	77.6J	100	03/22/15 02:30	
Benzene	ug/L	ND	5.0	03/22/15 02:30	
Diisopropyl ether	ug/L	ND	5.0	03/22/15 02:30	
Ethanol	ug/L	ND	200	03/22/15 02:30	
Ethyl-tert-butyl ether	ug/L	ND	10.0	03/22/15 02:30	
Ethylbenzene	ug/L	ND	5.0	03/22/15 02:30	
m&p-Xylene	ug/L	ND	10.0	03/22/15 02:30	
Methyl-tert-butyl ether	ug/L	ND	5.0	03/22/15 02:30	
Naphthalene	ug/L	ND	5.0	03/22/15 02:30	
o-Xylene	ug/L	ND	5.0	03/22/15 02:30	
tert-Amyl Alcohol	ug/L	ND	100	03/22/15 02:30	
tert-Amylmethyl ether	ug/L	ND	10.0	03/22/15 02:30	
tert-Butyl Alcohol	ug/L	ND	100	03/22/15 02:30	
tert-Butyl Formate	ug/L	ND	50.0	03/22/15 02:30	
Toluene	ug/L	ND	5.0	03/22/15 02:30	
Xylene (Total)	ug/L	ND	10.0	03/22/15 02:30	
1,2-Dichloroethane-d4 (S)	%	110	70-130	03/22/15 02:30	
4-Bromofluorobenzene (S)	%	99	70-130	03/22/15 02:30	
Toluene-d8 (S)	%	95	70-130	03/22/15 02:30	

LABORATORY CONTROL SAMPLE: 1416601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.5	95	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	894	89	70-130	
Benzene	ug/L	50	56.2	112	70-130	
Diisopropyl ether	ug/L	50	51.5	103	70-130	
Ethanol	ug/L	2000	2000	100	70-130	
Ethyl-tert-butyl ether	ug/L	100	115	115	70-130	
Ethylbenzene	ug/L	50	55.2	110	70-130	
m&p-Xylene	ug/L	100	110	110	70-130	
Methyl-tert-butyl ether	ug/L	50	50.5	101	70-130	
Naphthalene	ug/L	50	43.5	87	70-130	
o-Xylene	ug/L	50	48.7	97	70-130	
tert-Amyl Alcohol	ug/L	1000	876	88	70-130	
tert-Amylmethyl ether	ug/L	100	108	108	70-130	
tert-Butyl Alcohol	ug/L	500	505	101	70-130	
tert-Butyl Formate	ug/L	400	456	114	70-130	
Toluene	ug/L	50	55.2	110	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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

LABORATORY CONTROL SAMPLE: 1416601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	158	105	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1416603

Parameter	Units	92241878018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	20.4	102	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	383	96	70-130	
Benzene	ug/L	ND	20	25.6	128	70-130	
Diisopropyl ether	ug/L	ND	20	20.4	102	70-130	
Ethanol	ug/L	ND	800	707	88	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	47.0	118	70-130	
Ethylbenzene	ug/L	ND	20	25.2	126	70-130	
m&p-Xylene	ug/L	ND	40	49.9	125	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	21.1	106	70-130	
Naphthalene	ug/L	ND	20	18.0	90	70-130	
o-Xylene	ug/L	ND	20	21.6	108	70-130	
tert-Amyl Alcohol	ug/L	ND	400	394	98	70-130	
tert-Amylmethyl ether	ug/L	ND	40	44.8	112	70-130	
tert-Butyl Alcohol	ug/L	ND	200	297	148	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	M1
Toluene	ug/L	ND	20	24.2	121	70-130	
1,2-Dichloroethane-d4 (S)	%				96	70-130	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				96	70-130	

SAMPLE DUPLICATE: 1416602

Parameter	Units	92241878015 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

SAMPLE DUPLICATE: 1416602

Parameter	Units	92241878015 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	116	114	2		
4-Bromofluorobenzene (S)	%	106	105	1		
Toluene-d8 (S)	%	96	97	1		

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

QC Batch: MSV/30843 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92241812007, 92241812018

METHOD BLANK: 1416610 Matrix: Water
Associated Lab Samples: 92241812007, 92241812018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	03/22/15 02:47	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	03/22/15 02:47	
Benzene	ug/L	ND	5.0	03/22/15 02:47	
Diisopropyl ether	ug/L	ND	5.0	03/22/15 02:47	
Ethanol	ug/L	ND	200	03/22/15 02:47	
Ethyl-tert-butyl ether	ug/L	ND	10.0	03/22/15 02:47	
Ethylbenzene	ug/L	ND	5.0	03/22/15 02:47	
m&p-Xylene	ug/L	ND	10.0	03/22/15 02:47	
Methyl-tert-butyl ether	ug/L	ND	5.0	03/22/15 02:47	
Naphthalene	ug/L	ND	5.0	03/22/15 02:47	
o-Xylene	ug/L	ND	5.0	03/22/15 02:47	
tert-Amyl Alcohol	ug/L	ND	100	03/22/15 02:47	
tert-Amylmethyl ether	ug/L	ND	10.0	03/22/15 02:47	
tert-Butyl Alcohol	ug/L	ND	100	03/22/15 02:47	
tert-Butyl Formate	ug/L	ND	50.0	03/22/15 02:47	
Toluene	ug/L	ND	5.0	03/22/15 02:47	
Xylene (Total)	ug/L	ND	10.0	03/22/15 02:47	
1,2-Dichloroethane-d4 (S)	%	109	70-130	03/22/15 02:47	
4-Bromofluorobenzene (S)	%	99	70-130	03/22/15 02:47	
Toluene-d8 (S)	%	97	70-130	03/22/15 02:47	

LABORATORY CONTROL SAMPLE: 1416611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.8	96	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	918	92	70-130	
Benzene	ug/L	50	55.2	110	70-130	
Diisopropyl ether	ug/L	50	52.0	104	70-130	
Ethanol	ug/L	2000	2050	102	70-130	
Ethyl-tert-butyl ether	ug/L	100	116	116	70-130	
Ethylbenzene	ug/L	50	54.8	110	70-130	
m&p-Xylene	ug/L	100	108	108	70-130	
Methyl-tert-butyl ether	ug/L	50	51.5	103	70-130	
Naphthalene	ug/L	50	45.4	91	70-130	
o-Xylene	ug/L	50	48.2	96	70-130	
tert-Amyl Alcohol	ug/L	1000	893	89	70-130	
tert-Amylmethyl ether	ug/L	100	109	109	70-130	
tert-Butyl Alcohol	ug/L	500	523	105	70-130	
tert-Butyl Formate	ug/L	400	461	115	70-130	
Toluene	ug/L	50	54.2	108	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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

LABORATORY CONTROL SAMPLE: 1416611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	156	104	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1416613

Parameter	Units	92241878020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	19.4	97	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	349	87	70-130	
Benzene	ug/L	ND	20	23.6	118	70-130	
Diisopropyl ether	ug/L	ND	20	18.4	92	70-130	
Ethanol	ug/L	ND	800	483	60	70-130	M1
Ethyl-tert-butyl ether	ug/L	ND	40	43.2	108	70-130	
Ethylbenzene	ug/L	ND	20	23.4	117	70-130	
m&p-Xylene	ug/L	ND	40	47.4	118	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	19.3	96	70-130	
Naphthalene	ug/L	ND	20	16.0	80	70-130	
o-Xylene	ug/L	ND	20	20.2	101	70-130	
tert-Amyl Alcohol	ug/L	ND	400	368	92	70-130	
tert-Amylmethyl ether	ug/L	ND	40	40.2	100	70-130	
tert-Butyl Alcohol	ug/L	ND	200	273	136	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	M1
Toluene	ug/L	ND	20	22.4	112	70-130	
1,2-Dichloroethane-d4 (S)	%				99	70-130	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				96	70-130	

SAMPLE DUPLICATE: 1416612

Parameter	Units	92241878017 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

SAMPLE DUPLICATE: 1416612

Parameter	Units	92241878017 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	106	109	3		
4-Bromofluorobenzene (S)	%	104	103	1		
Toluene-d8 (S)	%	95	96	1		

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

QC Batch: MSV/30864 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92241812002, 92241812004, 92241812008, 92241812017, 92241812019, 92241812023

METHOD BLANK: 1417001 Matrix: Water
Associated Lab Samples: 92241812002, 92241812004, 92241812008, 92241812017, 92241812019, 92241812023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	03/23/15 18:38	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	03/23/15 18:38	
Benzene	ug/L	ND	5.0	03/23/15 18:38	
Diisopropyl ether	ug/L	ND	5.0	03/23/15 18:38	
Ethanol	ug/L	ND	200	03/23/15 18:38	
Ethyl-tert-butyl ether	ug/L	ND	10.0	03/23/15 18:38	
Ethylbenzene	ug/L	ND	5.0	03/23/15 18:38	
m&p-Xylene	ug/L	ND	10.0	03/23/15 18:38	
Methyl-tert-butyl ether	ug/L	ND	5.0	03/23/15 18:38	
Naphthalene	ug/L	ND	5.0	03/23/15 18:38	
o-Xylene	ug/L	ND	5.0	03/23/15 18:38	
tert-Amyl Alcohol	ug/L	ND	100	03/23/15 18:38	
tert-Amylmethyl ether	ug/L	ND	10.0	03/23/15 18:38	
tert-Butyl Alcohol	ug/L	ND	100	03/23/15 18:38	
tert-Butyl Formate	ug/L	ND	50.0	03/23/15 18:38	
Toluene	ug/L	ND	5.0	03/23/15 18:38	
Xylene (Total)	ug/L	ND	10.0	03/23/15 18:38	
1,2-Dichloroethane-d4 (S)	%	105	70-130	03/23/15 18:38	
4-Bromofluorobenzene (S)	%	113	70-130	03/23/15 18:38	
Toluene-d8 (S)	%	101	70-130	03/23/15 18:38	

LABORATORY CONTROL SAMPLE: 1417002

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	46.5	93	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1010	101	70-130	
Benzene	ug/L	50	56.4	113	70-130	
Diisopropyl ether	ug/L	50	58.9	118	70-130	
Ethanol	ug/L	2000	2460	123	70-130	
Ethyl-tert-butyl ether	ug/L	100	115	115	70-130	
Ethylbenzene	ug/L	50	55.3	111	70-130	
m&p-Xylene	ug/L	100	113	113	70-130	
Methyl-tert-butyl ether	ug/L	50	54.6	109	70-130	
Naphthalene	ug/L	50	52.9	106	70-130	
o-Xylene	ug/L	50	55.0	110	70-130	
tert-Amyl Alcohol	ug/L	1000	974	97	70-130	
tert-Amylmethyl ether	ug/L	100	109	109	70-130	
tert-Butyl Alcohol	ug/L	500	571	114	70-130	
tert-Butyl Formate	ug/L	400	493	123	70-130	
Toluene	ug/L	50	53.6	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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

LABORATORY CONTROL SAMPLE: 1417002

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	168	112	70-130	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1417003

Parameter	Units	92241620018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	18.3	91	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	440	110	70-130	
Benzene	ug/L	ND	20	23.7	119	70-130	
Diisopropyl ether	ug/L	ND	20	22.3	112	70-130	
Ethanol	ug/L	ND	800	1020	128	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	42.9	107	70-130	
Ethylbenzene	ug/L	ND	20	23.8	119	70-130	
m&p-Xylene	ug/L	ND	40	48.9	122	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	20.9	103	70-130	
Naphthalene	ug/L	ND	20	24.3	121	70-130	
o-Xylene	ug/L	ND	20	23.2	116	70-130	
tert-Amyl Alcohol	ug/L	ND	400	423	106	70-130	
tert-Amylmethyl ether	ug/L	ND	40	40.4	101	70-130	
tert-Butyl Alcohol	ug/L	ND	200	327	163	70-130	M0
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5
Toluene	ug/L	ND	20	22.9	115	70-130	
1,2-Dichloroethane-d4 (S)	%				87	70-130	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1417004

Parameter	Units	92241812004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	61.0	60.2	1	30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

SAMPLE DUPLICATE: 1417004

Parameter	Units	92241812004 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	113	112	1		
4-Bromofluorobenzene (S)	%	116	112	3		
Toluene-d8 (S)	%	100	100	1		

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

QC Batch: MSV/30886 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92241812022, 92241812030, 92241812031

METHOD BLANK: 1418408 Matrix: Water
Associated Lab Samples: 92241812022, 92241812030, 92241812031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	03/25/15 13:01	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	03/25/15 13:01	
Benzene	ug/L	ND	5.0	03/25/15 13:01	
Diisopropyl ether	ug/L	ND	5.0	03/25/15 13:01	
Ethanol	ug/L	ND	200	03/25/15 13:01	
Ethyl-tert-butyl ether	ug/L	ND	10.0	03/25/15 13:01	
Ethylbenzene	ug/L	ND	5.0	03/25/15 13:01	
m&p-Xylene	ug/L	ND	10.0	03/25/15 13:01	
Methyl-tert-butyl ether	ug/L	ND	5.0	03/25/15 13:01	
Naphthalene	ug/L	ND	5.0	03/25/15 13:01	
o-Xylene	ug/L	ND	5.0	03/25/15 13:01	
tert-Amyl Alcohol	ug/L	ND	100	03/25/15 13:01	
tert-Amylmethyl ether	ug/L	ND	10.0	03/25/15 13:01	
tert-Butyl Alcohol	ug/L	ND	100	03/25/15 13:01	
tert-Butyl Formate	ug/L	ND	50.0	03/25/15 13:01	
Toluene	ug/L	ND	5.0	03/25/15 13:01	
Xylene (Total)	ug/L	ND	10.0	03/25/15 13:01	
1,2-Dichloroethane-d4 (S)	%	108	70-130	03/25/15 13:01	
4-Bromofluorobenzene (S)	%	103	70-130	03/25/15 13:01	
Toluene-d8 (S)	%	97	70-130	03/25/15 13:01	

LABORATORY CONTROL SAMPLE: 1418409

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	43.6	87	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	854	85	70-130	
Benzene	ug/L	50	49.3	99	70-130	
Diisopropyl ether	ug/L	50	43.0	86	70-130	
Ethanol	ug/L	2000	1660	83	70-130	
Ethyl-tert-butyl ether	ug/L	100	103	103	70-130	
Ethylbenzene	ug/L	50	49.5	99	70-130	
m&p-Xylene	ug/L	100	99.7	100	70-130	
Methyl-tert-butyl ether	ug/L	50	47.0	94	70-130	
Naphthalene	ug/L	50	41.1	82	70-130	
o-Xylene	ug/L	50	44.5	89	70-130	
tert-Amyl Alcohol	ug/L	1000	874	87	70-130	
tert-Amylmethyl ether	ug/L	100	103	103	70-130	
tert-Butyl Alcohol	ug/L	500	491	98	70-130	
tert-Butyl Formate	ug/L	400	434	108	70-130	
Toluene	ug/L	50	49.8	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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

LABORATORY CONTROL SAMPLE: 1418409

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	144	96	70-130	
1,2-Dichloroethane-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

QC Batch: OEXT/33728 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92241812001, 92241812002, 92241812003, 92241812004, 92241812005, 92241812006, 92241812007, 92241812008, 92241812009, 92241812010, 92241812011, 92241812012, 92241812013, 92241812014, 92241812015, 92241812016, 92241812017, 92241812018, 92241812019

METHOD BLANK: 1416678 Matrix: Water
Associated Lab Samples: 92241812001, 92241812002, 92241812003, 92241812004, 92241812005, 92241812006, 92241812007, 92241812008, 92241812009, 92241812010, 92241812011, 92241812012, 92241812013, 92241812014, 92241812015, 92241812016, 92241812017, 92241812018, 92241812019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	03/21/15 23:49	
1-Chloro-2-bromopropane (S)	%	102	60-140	03/21/15 23:49	

LABORATORY CONTROL SAMPLE & LCSD: 1416679 1416680

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.29	0.31	0.31	108	108	60-140	1	20	
1-Chloro-2-bromopropane (S)	%				103	103	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1416681 1416682

Parameter	Units	92241812001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	1.2	.29	.29	1.4	1.4	71	57	60-140	3	20	M3
1-Chloro-2-bromopropane (S)	%						109	106	60-140			

SAMPLE DUPLICATE: 1416683

Parameter	Units	92241812002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	90	93	4		

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

QC Batch: OEXT/33731 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92241812021, 92241812022, 92241812023, 92241812024, 92241812025, 92241812026, 92241812027, 92241812028, 92241812029, 92241812030, 92241812031, 92241812032

METHOD BLANK: 1416745 Matrix: Water
Associated Lab Samples: 92241812021, 92241812022, 92241812023, 92241812024, 92241812025, 92241812026, 92241812027, 92241812028, 92241812029, 92241812030, 92241812031, 92241812032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	03/22/15 17:16	
1-Chloro-2-bromopropane (S)	%	101	60-140	03/22/15 17:16	

LABORATORY CONTROL SAMPLE & LCSD: 1416746 1416747

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.28	0.29	0.30	104	106	60-140	3	20	
1-Chloro-2-bromopropane (S)	%				100	100	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1416748 1416749

Parameter	Units	92241812022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.31	0.31	112	112	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						89	93	60-140			

SAMPLE DUPLICATE: 1416750

Parameter	Units	92241812023 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	103	99	4		

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

QC Batch: OEXT/33791
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92241812020

METHOD BLANK: 1418410
Matrix: Water
Associated Lab Samples: 92241812020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	03/25/15 00:01	
1-Chloro-2-bromopropane (S)	%	93	60-140	03/25/15 00:01	

LABORATORY CONTROL SAMPLE & LCSD: 1418411 1418412

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.29	0.29	0.27	98	92	60-140	7	20	
1-Chloro-2-bromopropane (S)	%				93	92	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1418413 1418414

Parameter	Units	92242132015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.27	0.27	94	94	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						94	92	60-140			

SAMPLE DUPLICATE: 1418415

Parameter	Units	92242132016 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	94	87	6		

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

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.

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.

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, Styrene, and Vinyl chloride.

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.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92241812001	MW-1	EPA 8011	OEXT/33728	EPA 8011	GCSV/20705
92241812002	MW-4	EPA 8011	OEXT/33728	EPA 8011	GCSV/20705
92241812003	MW-5	EPA 8011	OEXT/33728	EPA 8011	GCSV/20705
92241812004	MW-6	EPA 8011	OEXT/33728	EPA 8011	GCSV/20705
92241812005	MW-7	EPA 8011	OEXT/33728	EPA 8011	GCSV/20705
92241812006	MW-9	EPA 8011	OEXT/33728	EPA 8011	GCSV/20705
92241812007	MW-10	EPA 8011	OEXT/33728	EPA 8011	GCSV/20705
92241812008	MW-11	EPA 8011	OEXT/33728	EPA 8011	GCSV/20705
92241812009	MW-12	EPA 8011	OEXT/33728	EPA 8011	GCSV/20705
92241812010	MW-13	EPA 8011	OEXT/33728	EPA 8011	GCSV/20705
92241812011	MW-14	EPA 8011	OEXT/33728	EPA 8011	GCSV/20705
92241812012	MW-15	EPA 8011	OEXT/33728	EPA 8011	GCSV/20705
92241812013	MW-16	EPA 8011	OEXT/33728	EPA 8011	GCSV/20705
92241812014	MW-17	EPA 8011	OEXT/33728	EPA 8011	GCSV/20705
92241812015	MW-18	EPA 8011	OEXT/33728	EPA 8011	GCSV/20705
92241812016	MW-19D	EPA 8011	OEXT/33728	EPA 8011	GCSV/20705
92241812017	MW-20D	EPA 8011	OEXT/33728	EPA 8011	GCSV/20705
92241812018	MW-21D	EPA 8011	OEXT/33728	EPA 8011	GCSV/20705
92241812019	MW-22D	EPA 8011	OEXT/33728	EPA 8011	GCSV/20705
92241812020	MW-23D	EPA 8011	OEXT/33791	EPA 8011	GCSV/20741
92241812021	MW-24D	EPA 8011	OEXT/33731	EPA 8011	GCSV/20706
92241812022	RW-1	EPA 8011	OEXT/33731	EPA 8011	GCSV/20706
92241812023	RW-2	EPA 8011	OEXT/33731	EPA 8011	GCSV/20706
92241812024	WSW-1	EPA 8011	OEXT/33731	EPA 8011	GCSV/20706
92241812025	WSW-4	EPA 8011	OEXT/33731	EPA 8011	GCSV/20706
92241812026	WSW-5	EPA 8011	OEXT/33731	EPA 8011	GCSV/20706
92241812027	WSW-7	EPA 8011	OEXT/33731	EPA 8011	GCSV/20706
92241812028	WSW-8	EPA 8011	OEXT/33731	EPA 8011	GCSV/20706
92241812029	WSW-10	EPA 8011	OEXT/33731	EPA 8011	GCSV/20706
92241812030	RW1 DUPLICATE	EPA 8011	OEXT/33731	EPA 8011	GCSV/20706
92241812031	MW1 DUPLICATE	EPA 8011	OEXT/33731	EPA 8011	GCSV/20706
92241812032	FIELD BLANK	EPA 8011	OEXT/33731	EPA 8011	GCSV/20706
92241812024	WSW-1	EPA 8260	MSV/30829		
92241812025	WSW-4	EPA 8260	MSV/30829		
92241812026	WSW-5	EPA 8260	MSV/30829		
92241812027	WSW-7	EPA 8260	MSV/30829		
92241812028	WSW-8	EPA 8260	MSV/30829		
92241812029	WSW-10	EPA 8260	MSV/30829		
92241812001	MW-1	EPA 8260	MSV/30817		
92241812002	MW-4	EPA 8260	MSV/30864		
92241812003	MW-5	EPA 8260	MSV/30835		
92241812004	MW-6	EPA 8260	MSV/30864		
92241812005	MW-7	EPA 8260	MSV/30835		
92241812006	MW-9	EPA 8260	MSV/30835		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McGill Grocery 15-5116
Pace Project No.: 92241812

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92241812007	MW-10	EPA 8260	MSV/30843		
92241812008	MW-11	EPA 8260	MSV/30864		
92241812009	MW-12	EPA 8260	MSV/30835		
92241812010	MW-13	EPA 8260	MSV/30835		
92241812011	MW-14	EPA 8260	MSV/30835		
92241812012	MW-15	EPA 8260	MSV/30835		
92241812013	MW-16	EPA 8260	MSV/30835		
92241812014	MW-17	EPA 8260	MSV/30835		
92241812015	MW-18	EPA 8260	MSV/30835		
92241812016	MW-19D	EPA 8260	MSV/30842		
92241812017	MW-20D	EPA 8260	MSV/30864		
92241812018	MW-21D	EPA 8260	MSV/30843		
92241812019	MW-22D	EPA 8260	MSV/30864		
92241812020	MW-23D	EPA 8260	MSV/30842		
92241812021	MW-24D	EPA 8260	MSV/30842		
92241812022	RW-1	EPA 8260	MSV/30886		
92241812023	RW-2	EPA 8260	MSV/30864		
92241812030	RW1 DUPLICATE	EPA 8260	MSV/30886		
92241812031	MW1 DUPLICATE	EPA 8260	MSV/30886		
92241812032	FIELD BLANK	EPA 8260	MSV/30842		
92241812033	TRIP BLANK	EPA 8260	MSV/30842		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: September 22. 2014 Page 1 of 2
	Document Number: **F-CHR-CS-003-rev.15**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Midlands

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace (✓) Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☐ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1401 Type of Ice: Wet Blue None

☑ Samples on ice, cooling process has begun

Temp Correction Factor T1401 No Correction

Corrected Cooler Temp.: 2.9 °C Biological Tissue is Frozen: Yes No N/A

Date and initials of person examining contents: AP 3-18-15

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. No time or dates on bottles
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☑No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

SCURF Review:	AMB	Date:	3-18-15
SRF Review:	TC	Date:	3/18/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92241812

92241812

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 4

1887453

Section A — Required Client Information:
Company: Midlands Environmental
Address: 231 Dooley Rd
Lexington, SC, 29073
Email To: SLC@mecinet
Phone: 803-808-2043 Fax: 803-808-2048
Requested Due Date/TAT:

Section B — Required Project Information:
Report To: B. Shane
Copy To:
Purchase Order No.:
Project Name: McGill Grocery
Project Number: MECI # 15-5116

Section C — Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: A. Bacon
Pace Profile #: 8310-5

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC — Abbeville

Section D — Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N: BTEX, Naph, MTBE	1,2-DCA	Fe-Oxygenates	EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW 1	WT	G			3/17	13:07		6				✓					✓	✓	✓	✓		9224812
2	MW 2																						Odor 001
3	MW 3																						Not sampled
4	MW 4																						Not sampled
5	MW 5																						No Odor 002
6	MW 6						13:46		6				✓					✓	✓	✓	✓		No Odor 003
7	MW 7						13:39		6									✓	✓	✓	✓		No Odor 004
8	MW 8						13:12		6				✓					✓	✓	✓	✓		No Odor 005
9	MW 9						13:17		6				✓					✓	✓	✓	✓		Not sampled
10	MW 10						12:46		6				✓					✓	✓	✓	✓		No Odor 006
11	MW 11						13:51		6				✓					✓	✓	✓	✓		No Odor 007
12	MW 12						13:36		6				✓					✓	✓	✓	✓		No Odor 008
		WT	G			3/17	11:36		6				✓					✓	✓	✓	✓		No Odor 009

ADDITIONAL COMMENTS

SAMPLE CONDITIONS

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
[signature]	3/18/15	9:50	B Moody - Pace	03-18-15	09:50				
B Moody	03-19-15	15:50	[signature] Pace Courier	7-18-15	15:50	2.9	V	V	V

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Peter J Wylie
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/17/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 4

1887452

Section A Required Client Information:
Company: Midlands Environmental
Address: 231 Dooley Rd
Lexington, SC 29073
Email To: slcox@mei.net
Phone: 803-808-2043 Fax: 803-808-2048
Requested Due Date/TAT:

Section B Required Project Information:
Report To: B. Shane
Copy To:
Purchase Order No.:
Project Name: McGill Grocery
Project Number: MEI # 15-5116

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: A. Baioni
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER _____
Site Location STATE: SC Abbeville

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N): BTEX, Naph, Mtbe	1,2-DCA	8-Oxygenates EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW 13	WT	G			3/17	11:11		6				✓						✓	✓	✓	✓		No odor	92241812 010
2	MW 14	"	"			"	11:06		"				✓						✓	✓	✓	✓		No odor	011
3	MW 15	"	"			"	11:46		"				✓						✓	✓	✓	✓		No odor	012
4	MW 16	"	"			"	12:11		"				✓						✓	✓	✓	✓		No odor	013
5	MW 17	"	"			"	12:16		"				✓						✓	✓	✓	✓		No odor	014
6	MW 18	"	"			"	10:36		"				✓						✓	✓	✓	✓		No odor	015
7	MW 19D	"	"			"	13:32		"				✓						✓	✓	✓	✓		No odor	016
8	MW 20D	"	"			"	13:07		"				✓						✓	✓	✓	✓		No odor	017
9	MW 21D	"	"			"	14:12		"				✓						✓	✓	✓	✓		No odor	018
10	MW 22D	"	"			"	11:33		"				✓						✓	✓	✓	✓		No odor	019
11	MW 23D	"	"			"	12:06		"				✓						✓	✓	✓	✓		Sulfur odor	020
12	MW 24D	WT	G			3/17	10:50		6				✓						✓	✓	✓	✓		No odor	021

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	3/18/15	9:50	[signature]	03-14-15	09:50				
	[signature]	03-19-15	15:50	[signature]	3-18-15	15:54	2.9	V	V	V

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Peter J. Wylie
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/17/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 3 of 4

1883400

Section A Required Client Information:
Company: Midlands Environmental
Address: 231 Dooley Rd
Lexington, SC 29073
Email To: jlc@meci.net
Phone: 803-808-2043 Fax: 803-808-2048
Requested Due Date/TAT:

Section B Required Project Information:
Report To: B. Shane
Copy To:
Purchase Order No.:
Project Name: McGill Grocery
Project Number: MECI # 15-5716

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: A. Baioni
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC Abbeville

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	BTEX, Naph, MtBe	1,2-DCA	8-Oxy	EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	RW1	WT	G			3/17	12:28		6				✓						✓	✓	✓	✓		Odor 022
2	RW2	WT	G			3/17	12:41		6				✓						✓	✓	✓	✓		Odor 023
3	WSW1	DW	G			3/17	10:30		6				✓						✓	✓	✓	✓		LDL 024
4	WSW2	~~DW~~																						Not sampled
5	WSW4	DW	G			3/17	14:05		6				✓						✓	✓	✓	✓		LDL 025
6	WSW5	DW	G			3/17	14:10		6				✓						✓	✓	✓	✓		LDL 026
7	WSW6	~~DW~~																						Not sampled
8	WSW7	DW	G			3/17	10:55		6				✓						✓	✓	✓	✓		LDL 027
9	WSW8	DW	G			3/17	14:20		6				✓						✓	✓	✓	✓		LDL 028
10	WSW9	DW	G			3/17	11:40		6				✓						✓	✓	✓	✓		LDL 029
11	WSW10	~~DW~~																						Not sampled
12	RW1 Duplicate	WT	G			3/17	12:28		6				✓						✓	✓	✓	✓		Duplicate 030

92241812

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	3/18/15	9:50	G Moody - Pace	03-14-15	09:50				
	G Moody	03-19-15	15:50	Amx Pace Pace	3-18-15	15:50	2.9	V	✓	V

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Peter J. Wylie
SIGNATURE of SAMPLER: Peter J. Wylie
DATE Signed (MM/DD/YY): 3/17/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 4 of 4

1883394

Section A Required Client Information:
Company: Midlands Environmental
Address: 231 Dooley Rd
Lexington, SC, 29073
Email To: JLC@meci.net
Phone: 803-808-2043 Fax: 803-808-2048
Requested Due Date/TAT:

Section B Required Project Information:
Report To: B. Shane
Copy To:
Purchase Order No.:
Project Name: McGill Grocery
Project Number: MECI # 15-5116

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: A. Baioni
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER
Site Location STATE: SC Abbeville

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	BTEX, Napth, Mtbe	1,2-DCA	8-Oxygenates	EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	NW 1 Duplicate	WT	G			3/17/15	13:07		6				6						X	X	X	X		Duplicate 031
2	Field Blank	↓	↓			↓	11:00		6				6						↓	↓	↓	X		Field Blank 032
3	Trip Blank	WT	G			3/17/15	11:01		2				2						X	X	X			Trip Blank 033
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

92241812

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	3/18/15	9:50	G Moody - Pace	03-18-15	09:50				
	G Moody	03-18-15	15:50	Amy Pace Pace	3-18-15	15:50	2.9	✓	✓	✓

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Peter J. Wylie
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/17/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

APPENDIX C:

TAX MAP

(Not Applicable)

APPENDIX D:

SOIL BORING/FIELD SCREENING LOGS & 1903 FORMS

(Not Applicable)

APPENDIX E:

WELL COMPLETION LOGS & 1903 FORMS

(Not Applicable)

APPENDIX F:

AQUIFER EVALUATION SUMMARY FORMS, DATA, GRAPHS, EQUATIONS

(Not Applicable)

APPENDIX G:

DISPOSAL MANIFEST

Midlands
Environmental
Consultants, Inc.

April 9, 2015

Re: Treatment of Purge Water
McGill Grocery
Iva, South Carolina
SCDHEC Site ID Number 19440
MECI Project Number 15-5116

To Whom it May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

Post Office Box 854, Lexington SC 29071 • 231 Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

All purge waters were treated on-site using an up-flow treatment drum loaded with 30 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

A total of 126.75 gallons were treated at the referenced site during the March 17, 2015 groundwater sampling event.

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,
Midlands Environmental Consultants, Inc.

Jeff L. Coleman
Senior Scientist

APPENDIX H:

LOCAL ZONING REGULATIONS

(Not Applicable)

APPENDIX I:

FATE AND TRANSPORT MODELING

(Not Applicable)

APPENDIX J:

ACCESS AGREEMENTS

(Not Applicable)

APPENDIX K:

DATA VERIFICATION CHECKLIST

Contractor Checklist

Item#	Item	Yes	No	N/A
1	Are 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? (Table 2 & Figure 5)	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? (Appendix B)	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? (Tables 3 & 3A)	X		
35	Have the aquifer characteristics been provided and summarized on the appropriate form? (Appendix F)			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? (Figures 4, 4A, 4B, 4C)	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 E)			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? (Appendix K)	X		

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

MS EDNA BURTON
1102 JETS LANDING ROAD
ABBEVILLE SC 29620

APR 2 4 2015

Re: **Water Supply Well Sampling Results**
McGills Grocery, Lake Secession Road, Iva, SC
UST Permit #19440
Petroleum Release Reported January 28, 2009
Water Supply Well Analytical Results Received April 17, 2015
Abbeville County

Dear Ms. Burton:

On April 14, 2015, personnel from the Underground Storage Tank (UST) Management Division of The South Carolina Department of Health and Environmental Control collected groundwater samples from the water supply well located on your property. The samples were analyzed for the presence of Contaminants of Concern (COCs). The lab results from your water supply well sample indicate that Methyl tertiary butyl ether (MTBE) is present at a concentration of 1.4 µg/L and Diisopropyl ether (DIPE) is present at an estimated concentration of .88 µg/L. The safe drinking water standard/Risk Based Screening Level (RBSL) for MTBE is 40 µg/L and the Action Level (AL) for DIPE is 150 µg/L. Thus, the contaminants detected in your well are at concentrations below RBSLs and ALs. Based on current scientific evidence, concentrations below RBSLs and ALs do not pose any risk to your health. However, as a precaution, a granular activated carbon (GAC) unit will be installed on your well to remove these chemicals of concern.

Based on these results, the UST Management Division plans to periodically resample your water supply well to ensure that contaminants remain below the safe drinking water standards.

On all correspondence concerning this site, please reference **UST Permit #19440**. If you have any questions concerning this correspondence, please feel free to contact me at (803) 898-0607 or via email at thrasham@dhec.sc.gov.

Sincerely,

Ashleigh Thrash

Ashleigh Thrash, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land & Waste Management

enc: Lab Results for Water Supply Well and Stream Samples
cc: Technical File (w/ enc.)

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGills Grocery 19440/50115
Pace Project No.: 92245639

Sample: WSW-8 **Lab ID: 92245639001** Collected: 04/14/15 10:55 Received: 04/15/15 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		04/17/15 01:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		04/17/15 01:18	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		04/17/15 01:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		04/17/15 01:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		04/17/15 01:18	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		04/17/15 01:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/17/15 01:18	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		04/17/15 01:18	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		04/17/15 01:18	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/17/15 01:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		04/17/15 01:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		04/17/15 01:18	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		04/17/15 01:18	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		04/17/15 01:18	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/17/15 01:18	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/17/15 01:18	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/17/15 01:18	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	111	%	70-130		1		04/17/15 01:18	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		04/17/15 01:18	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		04/17/15 01:18	2037-26-5	

Sample: WSW-10 **Lab ID: 92245639002** Collected: 04/14/15 11:05 Received: 04/15/15 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		04/17/15 01:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		04/17/15 01:37	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		04/17/15 01:37	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		04/17/15 01:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		04/17/15 01:37	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		04/17/15 01:37	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/17/15 01:37	107-06-2	
Diisopropyl ether	**0.88J**	ug/L	1.0	0.12	1		04/17/15 01:37	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		04/17/15 01:37	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/17/15 01:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		04/17/15 01:37	637-92-3	
Methyl-tert-butyl ether	**1.4**	ug/L	1.0	0.21	1		04/17/15 01:37	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		04/17/15 01:37	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		04/17/15 01:37	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/17/15 01:37	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/17/15 01:37	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/17/15 01:37	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGills Grocery 19440/50115
Pace Project No.: 92245639

Sample: WSW-10 **Lab ID: 92245639002** Collected: 04/14/15 11:05 Received: 04/15/15 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		1		04/17/15 01:37	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		04/17/15 01:37	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		04/17/15 01:37	2037-26-5	

Sample: WSW-1 **Lab ID: 92245639003** Collected: 04/14/15 11:20 Received: 04/15/15 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		04/17/15 01:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		04/17/15 01:55	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		04/17/15 01:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		04/17/15 01:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		04/17/15 01:55	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		04/17/15 01:55	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/17/15 01:55	107-06-2	
Diisopropyl ether	**5.0**	ug/L	1.0	0.12	1		04/17/15 01:55	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		04/17/15 01:55	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/17/15 01:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		04/17/15 01:55	637-92-3	
Methyl-tert-butyl ether	**9.1**	ug/L	1.0	0.21	1		04/17/15 01:55	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		04/17/15 01:55	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		04/17/15 01:55	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/17/15 01:55	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/17/15 01:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/17/15 01:55	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		1		04/17/15 01:55	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		04/17/15 01:55	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		04/17/15 01:55	2037-26-5	

Sample: Field Blank **Lab ID: 92245639004** Collected: 04/14/15 11:25 Received: 04/15/15 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		04/17/15 01:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		04/17/15 01:00	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		04/17/15 01:00	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		04/17/15 01:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		04/17/15 01:00	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		04/17/15 01:00	762-75-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

MS IDA ADAMS
2801 LAKE SECESSION ROAD
IVA SC 29655

APR 2 4 2015

UST DOCKETING

Re: **Water Supply Well Sampling Results**
McGills Grocery, Lake Secession Road, Iva, SC
UST Permit #19440
Petroleum Release Reported January 28, 2009
Water Supply Well Analytical Results Received March 19, 2014
Abbeville County

Dear Ms. Adams:

On April 14, 2015, personnel from the Underground Storage Tank (UST) Management Division of The South Carolina Department of Health and Environmental Control collected groundwater samples from the water supply well located on your property. The samples were analyzed for the presence of Contaminants of Concern (COCs). The lab results from your water supply well sample indicate that Methyl tertiary butyl ether (MTBE) is present at a concentration of 38.3 µg/L, Diisopropyl ether (DIPE) is present at an estimated concentration of 23.2 µg/L, and tert-Amylmethyl ether (tAME) is present at an estimated concentration of .20 µg/L. The safe drinking water standard/Risk Based Screening Level (RBSL) for MTBE is 40 µg/L, the Action Level (AL) for DIPE is 150 µg/L, and the Action Level for tAME is 128 µg/L. Thus, the contaminants detected in your well are at concentrations below RBSLs and ALs. Based on current scientific evidence, concentrations below RBSLs and ALs do not pose any risk to your health. However, as a precaution, a granular activated carbon (GAC) unit will be installed on your well to remove these chemicals of concern.

Based on these results, the UST Management Division plans to periodically resample your water supply well to ensure that contaminants remain below the safe drinking water standards.

On all correspondence concerning this site, please reference UST Permit #19440. If you have any questions concerning this correspondence, please feel free to contact me at (803) 898-0607 or via email at thrasham@dhec.sc.gov.

Sincerely,

Ashleigh Thrash

Ashleigh Thrash, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land & Waste Management

enc: Lab Results for Water Supply Well and Stream Samples
cc: Technical File (w/ enc.)

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGills Grocery 19440/50115
Pace Project No.: 92245639

Sample: Field Blank **Lab ID: 92245639004** Collected: 04/14/15 11:25 Received: 04/15/15 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/17/15 01:00	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		04/17/15 01:00	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		04/17/15 01:00	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/17/15 01:00	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		04/17/15 01:00	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		04/17/15 01:00	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		04/17/15 01:00	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		04/17/15 01:00	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/17/15 01:00	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/17/15 01:00	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/17/15 01:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	117	%	70-130		1		04/17/15 01:00	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		04/17/15 01:00	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		04/17/15 01:00	2037-26-5	

Sample: WSW-7 **Lab ID: 92245639005** Collected: 04/14/15 11:35 Received: 04/15/15 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		04/17/15 02:32	75-85-4	M1
tert-Amylmethyl ether	**0.20J**	ug/L	10.0	0.10	1		04/17/15 02:32	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		04/17/15 02:32	71-43-2	M1
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		04/17/15 02:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		04/17/15 02:32	75-65-0	M1
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		04/17/15 02:32	762-75-4	M1
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/17/15 02:32	107-06-2	M1
Diisopropyl ether	**23.2**	ug/L	1.0	0.12	1		04/17/15 02:32	108-20-3	M1
Ethanol	ND	ug/L	200	33.0	1		04/17/15 02:32	64-17-5	M1
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/17/15 02:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		04/17/15 02:32	637-92-3	M1
Methyl-tert-butyl ether	**38.3**	ug/L	1.0	0.21	1		04/17/15 02:32	1634-04-4	M1
Naphthalene	ND	ug/L	1.0	0.24	1		04/17/15 02:32	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		04/17/15 02:32	108-88-3	M1
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/17/15 02:32	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/17/15 02:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/17/15 02:32	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	114	%	70-130		1		04/17/15 02:32	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-130		1		04/17/15 02:32	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		04/17/15 02:32	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

ABBEVILLE COUNTY FIRE COMMISSION
PO BOX 435
ABBEVILLE SC 29620

APR 2 4 2015

Re: **Water Supply Well Sampling Results**
McGills Grocery, Lake Secession Road, Iva, SC
UST Permit #19440
Petroleum Release Reported January 28, 2009
Water Supply Well Analytical Results Received April 17, 2015
Abbeville County

To Whom It May Concern:

On April 14, 2015, personnel from the Underground Storage Tank (UST) Management Division of The South Carolina Department of Health and Environmental Control collected groundwater samples from the water supply well located on your property. The samples were analyzed for the presence of Contaminants of Concern (COCs). The lab results from your water supply well sample indicate that Methyl tertiary butyl ether (MTBE) is present at a concentration of 9.1 µg/L and Diisopropyl ether (DIPE) is present at an estimated concentration of 5.0 µg/L. The safe drinking water standard/Risk Based Screening Level (RBSL) for MTBE is 40 µg/L and the Action Level (AL) for DIPE is 150 µg/L. Thus, the contaminants detected in your well are at concentrations below RBSLs and ALs. Based on current scientific evidence, concentrations below RBSLs and ALs do not pose any risk to your health. However, as a precaution, a granular activated carbon (GAC) unit will be installed on your well to remove these chemicals of concern.

Based on these results, the UST Management Division plans to periodically resample your water supply well to ensure that contaminants remain below the safe drinking water standards.

On all correspondence concerning this site, please reference **UST Permit #19440**. If you have any questions concerning this correspondence, please feel free to contact me at (803) 898-0607 or via email at thrasham@dhec.sc.gov.

Sincerely,

Ashleigh Thrash

Ashleigh Thrash, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land & Waste Management

enc: Lab Results for Water Supply Well and Stream Samples
cc: Technical File (w/ enc.)

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGills Grocery 19440/50115
Pace Project No.: 92245639

Sample: WSW-10 **Lab ID: 92245639002** Collected: 04/14/15 11:05 Received: 04/15/15 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		1		04/17/15 01:37	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		04/17/15 01:37	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		04/17/15 01:37	2037-26-5	

Sample: WSW-1 **Lab ID: 92245639003** Collected: 04/14/15 11:20 Received: 04/15/15 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		04/17/15 01:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		04/17/15 01:55	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		04/17/15 01:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		04/17/15 01:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		04/17/15 01:55	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		04/17/15 01:55	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/17/15 01:55	107-06-2	
Diisopropyl ether	**5.0**	ug/L	1.0	0.12	1		04/17/15 01:55	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		04/17/15 01:55	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/17/15 01:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		04/17/15 01:55	637-92-3	
Methyl-tert-butyl ether	**9.1**	ug/L	1.0	0.21	1		04/17/15 01:55	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		04/17/15 01:55	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		04/17/15 01:55	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/17/15 01:55	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/17/15 01:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/17/15 01:55	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		1		04/17/15 01:55	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		04/17/15 01:55	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		04/17/15 01:55	2037-26-5	

Sample: Field Blank **Lab ID: 92245639004** Collected: 04/14/15 11:25 Received: 04/15/15 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		04/17/15 01:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		04/17/15 01:00	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		04/17/15 01:00	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		04/17/15 01:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		04/17/15 01:00	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		04/17/15 01:00	762-75-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

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

RONNY LOWDER
EMERALD INC
PO BOX 3050
SUMTER SC 29151

APR 27 2015

Re: **Notice to Proceed-GAC Unit Installation**
McGill Grocery, Lake Seccession Road, Iva, SC
UST Permit #19440; CA#50181
IFB- 5400005822 -5/3/13-EMW; PO # 4600368242
Abbeville County

Dear Mr. Lowder:

Under the terms and conditions of the referenced contract, a GAC unit installation has been approved for three water supply wells associated with the referenced release:

- WSW-10 on the Burton property located at 2859 Lake Secession Road. The contact person for this facility is Mr. Howard Burton and he can be reached at (864) 446-7057.
- WSW-1 located at the Abbeville County Volunteer Fire Department on Lake Secession Road. The contact number for this facility is (864) 366-6444.
- WSW-7 on the Adams property located at 2801 Lake Secession Road. The contact person for this facility is Ms. Ida Adams.

This facility has been assigned an individual Cost Agreement (CA) number as listed above. Please reference the **CA #50181 and PO # 4600368242** on the invoice submitted for payment. Emerald Inc. should complete the work in accordance with the contract specifications. The work must be conducted as outlined in the UST Quality Assurance Program Plan (QAPP) and in accordance with all applicable regulations. A GAC Unit Installation and Maintenance record should be submitted within **ten (10) days** from the date of the Notice to Proceed.

If you have any questions or need further assistance, please contact me at (803) 898-0607 or by email at thrasham@dhec.sc.gov.

Sincerely,
Ashleigh Thrash
Ashleigh Thrash, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement form
Site Information

cc: Technical File (w/ ACA form)
Maia Milenkova, UST Management Division (w/ACA form)

Approved Cost Agreement 50181

Facility: 19440 MCGILL GROCERY
THRASHAM
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB						
		B	PERSONNEL	1.0000	90.00	90.00
24 GAC SYSTEM						
		A	NEW SYSTEM INSTALLATION	3.0000	1,900.00	5,700.00
				Total Amount		5,790.00

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

April 17, 2015

Mr. John Bryant
SCDHEC
UST Program
2600 Bull Street
Columbia, SC 29201

RE: Project: McGills Grocery 19440/50115
Pace Project No.: 92245639

Dear Mr. Bryant:
Enclosed are the analytical results for sample(s) received by the laboratory on April 15, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
Project Manager

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: McGills Grocery 19440/50115
Pace Project No.: 92245639

Charlotte Certification IDs
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 Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: McGills Grocery 19440/50115
Pace Project No.: 92245639

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92245639001	WSW-6	Water	04/14/15 10:55	04/15/15 16:20
92245639002	WSW-10	Water	04/14/15 11:05	04/15/15 16:20
92245639003	WSW-1	Water	04/14/15 11:20	04/15/15 16:20
92245639004	Field Blank	Water	04/14/15 11:25	04/15/15 16:20
92245639005	WSW-7	Water	04/14/15 11:35	04/15/15 16:20
92245639006	WSW-7 Dup	Water	04/14/15 11:35	04/15/15 16:20
92245639007	Trip Blank	Water	04/14/15 00:00	04/15/15 16:20

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: McGills Grocery 19440/50115
Pace Project No.: 92245639

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92245639001	WSW-8	EPA 8260	GAW	20	PASI-C
92245639002	WSW-10	EPA 8260	GAW	20	PASI-C
92245639003	WSW-1	EPA 8260	GAW	20	PASI-C
92245639004	Field Blank	EPA 8260	GAW	20	PASI-C
92245639005	WSW-7	EPA 8260	GAW	20	PASI-C
92245639006	WSW-7 Dup	EPA 8260	GAW	20	PASI-C
92245639007	Trip Blank	EPA 8260	CCL	20	PASI-C

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGills Grocery 19440/50115
Pace Project No.: 92245639

Sample: WSW-8 **Lab ID: 92245639001** Collected: 04/14/15 10:55 Received: 04/15/15 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		04/17/15 01:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		04/17/15 01:18	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		04/17/15 01:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		04/17/15 01:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		04/17/15 01:18	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		04/17/15 01:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/17/15 01:18	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		04/17/15 01:18	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		04/17/15 01:18	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/17/15 01:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		04/17/15 01:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		04/17/15 01:18	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		04/17/15 01:18	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		04/17/15 01:18	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/17/15 01:18	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/17/15 01:18	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/17/15 01:18	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	111	%	70-130		1		04/17/15 01:18	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		04/17/15 01:18	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		04/17/15 01:18	2037-26-5	

Sample: WSW-10 **Lab ID: 92245639002** Collected: 04/14/15 11:05 Received: 04/15/15 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		04/17/15 01:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		04/17/15 01:37	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		04/17/15 01:37	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		04/17/15 01:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		04/17/15 01:37	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		04/17/15 01:37	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/17/15 01:37	107-06-2	
Diisopropyl ether	**0.88J**	ug/L	1.0	0.12	1		04/17/15 01:37	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		04/17/15 01:37	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/17/15 01:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		04/17/15 01:37	637-92-3	
Methyl-tert-butyl ether	**1.4**	ug/L	1.0	0.21	1		04/17/15 01:37	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		04/17/15 01:37	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		04/17/15 01:37	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/17/15 01:37	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/17/15 01:37	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/17/15 01:37	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGills Grocery 19440/50115
Pace Project No.: 92245639

Sample: WSW-10 **Lab ID: 92245639002** Collected: 04/14/15 11:05 Received: 04/15/15 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		1		04/17/15 01:37	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		04/17/15 01:37	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		04/17/15 01:37	2037-26-5	

Sample: WSW-1 **Lab ID: 92245639003** Collected: 04/14/15 11:20 Received: 04/15/15 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		04/17/15 01:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		04/17/15 01:55	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		04/17/15 01:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		04/17/15 01:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		04/17/15 01:55	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		04/17/15 01:55	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/17/15 01:55	107-06-2	
Diisopropyl ether	**5.0**	ug/L	1.0	0.12	1		04/17/15 01:55	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		04/17/15 01:55	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/17/15 01:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		04/17/15 01:55	637-92-3	
Methyl-tert-butyl ether	**9.1**	ug/L	1.0	0.21	1		04/17/15 01:55	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		04/17/15 01:55	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		04/17/15 01:55	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/17/15 01:55	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/17/15 01:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/17/15 01:55	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-130		1		04/17/15 01:55	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		04/17/15 01:55	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		04/17/15 01:55	2037-26-5	

Sample: Field Blank **Lab ID: 92245639004** Collected: 04/14/15 11:25 Received: 04/15/15 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		04/17/15 01:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		04/17/15 01:00	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		04/17/15 01:00	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		04/17/15 01:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		04/17/15 01:00	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		04/17/15 01:00	762-75-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGills Grocery 19440/50115
Pace Project No.: 92245639

Sample: Field Blank **Lab ID: 92245639004** Collected: 04/14/15 11:25 Received: 04/15/15 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/17/15 01:00	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		04/17/15 01:00	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		04/17/15 01:00	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/17/15 01:00	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		04/17/15 01:00	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		04/17/15 01:00	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		04/17/15 01:00	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		04/17/15 01:00	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/17/15 01:00	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/17/15 01:00	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/17/15 01:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	117	%	70-130		1		04/17/15 01:00	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		04/17/15 01:00	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		04/17/15 01:00	2037-26-5	

Sample: WSW-7 **Lab ID: 92245639005** Collected: 04/14/15 11:35 Received: 04/15/15 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		04/17/15 02:32	75-85-4	M1
tert-Amylmethyl ether	**0.20J**	ug/L	10.0	0.10	1		04/17/15 02:32	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		04/17/15 02:32	71-43-2	M1
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		04/17/15 02:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		04/17/15 02:32	75-65-0	M1
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		04/17/15 02:32	762-75-4	M1
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/17/15 02:32	107-06-2	M1
Diisopropyl ether	**23.2**	ug/L	1.0	0.12	1		04/17/15 02:32	108-20-3	M1
Ethanol	ND	ug/L	200	33.0	1		04/17/15 02:32	64-17-5	M1
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/17/15 02:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		04/17/15 02:32	637-92-3	M1
Methyl-tert-butyl ether	**38.3**	ug/L	1.0	0.21	1		04/17/15 02:32	1634-04-4	M1
Naphthalene	ND	ug/L	1.0	0.24	1		04/17/15 02:32	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		04/17/15 02:32	108-88-3	M1
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/17/15 02:32	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/17/15 02:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/17/15 02:32	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	114	%	70-130		1		04/17/15 02:32	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-130		1		04/17/15 02:32	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		04/17/15 02:32	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGills Grocery 19440/50115
Pace Project No.: 92245639

Sample: WSW-7 Dup **Lab ID: 92245639006** Collected: 04/14/15 11:35 Received: 04/15/15 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		04/17/15 02:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		04/17/15 02:50	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		04/17/15 02:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		04/17/15 02:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		04/17/15 02:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		04/17/15 02:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/17/15 02:50	107-06-2	
Diisopropyl ether	**22.8**	ug/L	1.0	0.12	1		04/17/15 02:50	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		04/17/15 02:50	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/17/15 02:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		04/17/15 02:50	637-92-3	
Methyl-tert-butyl ether	**37.2**	ug/L	1.0	0.21	1		04/17/15 02:50	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		04/17/15 02:50	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		04/17/15 02:50	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/17/15 02:50	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/17/15 02:50	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		04/17/15 02:50	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	114	%	70-130		1		04/17/15 02:50	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130		1		04/17/15 02:50	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		04/17/15 02:50	2037-26-5	

Sample: Trip Blank **Lab ID: 92245639007** Collected: 04/14/15 00:00 Received: 04/15/15 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/17/15 02:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/17/15 02:42	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/17/15 02:42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/17/15 02:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/17/15 02:42	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/17/15 02:42	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/17/15 02:42	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/17/15 02:42	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/17/15 02:42	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/17/15 02:42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/17/15 02:42	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/17/15 02:42	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/17/15 02:42	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/17/15 02:42	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/17/15 02:42	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/17/15 02:42	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/17/15 02:42	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGills Grocery 19440/50115
Pace Project No.: 92245639

Sample: Trip Blank **Lab ID: 92245639007** Collected: 04/14/15 00:00 Received: 04/15/15 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Surrogates									
4-Bromofluorobenzene (S)	116	%	70-130		1		04/17/15 02:42	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%	70-130		1		04/17/15 02:42	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		04/17/15 02:42	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGills Grocery 19440/50115
Pace Project No.: 92245639

QC Batch: MSV/31231 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92245639001, 92245639002, 92245639003, 92245639004, 92245639005, 92245639006

METHOD BLANK: 1436728 Matrix: Water
Associated Lab Samples: 92245639001, 92245639002, 92245639003, 92245639004, 92245639005, 92245639006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	04/16/15 18:35	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	04/16/15 18:35	
Benzene	ug/L	ND	1.0	04/16/15 18:35	
Diisopropyl ether	ug/L	ND	1.0	04/16/15 18:35	
Ethanol	ug/L	ND	200	04/16/15 18:35	
Ethyl-tert-butyl ether	ug/L	ND	10.0	04/16/15 18:35	
Ethylbenzene	ug/L	ND	1.0	04/16/15 18:35	
m&p-Xylene	ug/L	ND	2.0	04/16/15 18:35	
Methyl-tert-butyl ether	ug/L	ND	1.0	04/16/15 18:35	
Naphthalene	ug/L	ND	1.0	04/16/15 18:35	
o-Xylene	ug/L	ND	1.0	04/16/15 18:35	
tert-Amyl Alcohol	ug/L	ND	100	04/16/15 18:35	
tert-Amylmethyl ether	ug/L	ND	10.0	04/16/15 18:35	
tert-Butyl Alcohol	ug/L	ND	100	04/16/15 18:35	
tert-Butyl Formate	ug/L	ND	50.0	04/16/15 18:35	
Toluene	ug/L	ND	1.0	04/16/15 18:35	
Xylene (Total)	ug/L	ND	2.0	04/16/15 18:35	
1,2-Dichloroethane-d4 (S)	%	108	70-130	04/16/15 18:35	
4-Bromofluorobenzene (S)	%	99	70-130	04/16/15 18:35	
Toluene-d8 (S)	%	106	70-130	04/16/15 18:35	

LABORATORY CONTROL SAMPLE: 1436729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.2	100	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1070	107	70-130	
Benzene	ug/L	50	51.0	102	70-130	
Diisopropyl ether	ug/L	50	50.3	101	70-130	
Ethanol	ug/L	2000	2300	115	70-130	
Ethyl-tert-butyl ether	ug/L	100	108	108	70-130	
Ethylbenzene	ug/L	50	46.9	94	70-130	
m&p-Xylene	ug/L	100	94.1	94	70-130	
Methyl-tert-butyl ether	ug/L	50	47.9	96	70-130	
Naphthalene	ug/L	50	51.0	102	70-130	
o-Xylene	ug/L	50	46.0	92	70-130	
tert-Amyl Alcohol	ug/L	1000	1140	114	70-130	
tert-Amylmethyl ether	ug/L	100	98.2	98	70-130	
tert-Butyl Alcohol	ug/L	500	583	117	70-130	
tert-Butyl Formate	ug/L	400	453	113	70-130	
Toluene	ug/L	50	49.4	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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGills Grocery 19440/50115
Pace Project No.: 92245639

LABORATORY CONTROL SAMPLE: 1436729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	140	93	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 1436731

Parameter	Units	92245639005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	29.9	150	70-130	M1
3,3-Dimethyl-1-Butanol	ug/L	ND	400	354	89	70-130	
Benzene	ug/L	ND	20	28.2	141	70-130	M1
Diisopropyl ether	ug/L	23.2	20	53.4	151	70-130	M1
Ethanol	ug/L	ND	800	1320	166	70-130	M1
Ethyl-tert-butyl ether	ug/L	ND	40	59.4	149	70-130	M1
Ethylbenzene	ug/L	ND	20	21.5	108	70-130	
m&p-Xylene	ug/L	ND	40	42.4	106	70-130	
Methyl-tert-butyl ether	ug/L	38.3	20	66.8	143	70-130	M1
Naphthalene	ug/L	ND	20	18.9	94	70-130	
o-Xylene	ug/L	ND	20	20.5	103	70-130	
tert-Amyl Alcohol	ug/L	ND	400	549	137	70-130	M1
tert-Amylmethyl ether	ug/L	0.20J	40	48.9	122	70-130	
tert-Butyl Alcohol	ug/L	ND	200	479	240	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	M1
Toluene	ug/L	ND	20	26.9	134	70-130	M1
1,2-Dichloroethane-d4 (S)	%				111	70-130	
4-Bromofluorobenzene (S)	%				115	70-130	
Toluene-d8 (S)	%				107	70-130	

SAMPLE DUPLICATE: 1436730

Parameter	Units	92245639003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	5.0	5.4	7	30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	9.1	8.9	2	30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGills Grocery 19440/50115
Pace Project No.: 92245639

SAMPLE DUPLICATE: 1436730

Parameter	Units	92245639003 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	108	115	6		
4-Bromofluorobenzene (S)	%	113	113	0		
Toluene-d8 (S)	%	112	111	1		

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGills Grocery 19440/50115
Pace Project No.: 92245639

QC Batch: MSV/31224 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92245639007

METHOD BLANK: 1436478 Matrix: Water
Associated Lab Samples: 92245639007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	04/17/15 02:08	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	04/17/15 02:08	
Benzene	ug/L	ND	5.0	04/17/15 02:08	
Diisopropyl ether	ug/L	ND	5.0	04/17/15 02:08	
Ethanol	ug/L	ND	200	04/17/15 02:08	
Ethyl-tert-butyl ether	ug/L	ND	10.0	04/17/15 02:08	
Ethylbenzene	ug/L	ND	5.0	04/17/15 02:08	
m&p-Xylene	ug/L	ND	10.0	04/17/15 02:08	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/17/15 02:08	
Naphthalene	ug/L	ND	5.0	04/17/15 02:08	
o-Xylene	ug/L	ND	5.0	04/17/15 02:08	
tert-Amyl Alcohol	ug/L	ND	100	04/17/15 02:08	
tert-Amylmethyl ether	ug/L	ND	10.0	04/17/15 02:08	
tert-Butyl Alcohol	ug/L	ND	100	04/17/15 02:08	
tert-Butyl Formate	ug/L	ND	50.0	04/17/15 02:08	
Toluene	ug/L	ND	5.0	04/17/15 02:08	
Xylene (Total)	ug/L	ND	10.0	04/17/15 02:08	
1,2-Dichloroethane-d4 (S)	%	109	70-130	04/17/15 02:08	
4-Bromofluorobenzene (S)	%	110	70-130	04/17/15 02:08	
Toluene-d8 (S)	%	99	70-130	04/17/15 02:08	

LABORATORY CONTROL SAMPLE: 1436479

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.9	96	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1020	102	70-130	
Benzene	ug/L	50	49.7	99	70-130	
Diisopropyl ether	ug/L	50	46.9	94	70-130	
Ethanol	ug/L	2000	2200	110	70-130	
Ethyl-tert-butyl ether	ug/L	100	102	102	70-130	
Ethylbenzene	ug/L	50	53.0	106	70-130	
m&p-Xylene	ug/L	100	110	110	70-130	
Methyl-tert-butyl ether	ug/L	50	48.3	97	70-130	
Naphthalene	ug/L	50	53.8	108	70-130	
o-Xylene	ug/L	50	55.8	112	70-130	
tert-Amyl Alcohol	ug/L	1000	967	97	70-130	
tert-Amylmethyl ether	ug/L	100	100	100	70-130	
tert-Butyl Alcohol	ug/L	500	470	94	70-130	
tert-Butyl Formate	ug/L	400	380	95	70-130	
Toluene	ug/L	50	47.3	95	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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGills Grocery 19440/50115
Pace Project No.: 92245639

LABORATORY CONTROL SAMPLE: 1436479

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	165	110	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE SAMPLE: 1436480

Parameter	Units	92245361012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	19.4	97	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	452	113	70-130	
Benzene	ug/L	ND	20	21.3	106	70-130	
Diisopropyl ether	ug/L	ND	20	18.1	91	70-130	
Ethanol	ug/L	ND	800	1090	136	70-130	M1
Ethyl-tert-butyl ether	ug/L	ND	40	38.9	97	70-130	
Ethylbenzene	ug/L	ND	20	22.6	113	70-130	
m&p-Xylene	ug/L	ND	40	48.6	122	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	19.3	97	70-130	
Naphthalene	ug/L	ND	20	22.9	114	70-130	
o-Xylene	ug/L	ND	20	24.2	121	70-130	
tert-Amyl Alcohol	ug/L	ND	400	441	110	70-130	
tert-Amylmethyl ether	ug/L	ND	40	37.0	92	70-130	
tert-Butyl Alcohol	ug/L	ND	200	299	149	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	M1
Toluene	ug/L	ND	20	19.7	99	70-130	
1,2-Dichloroethane-d4 (S)	%				99	70-130	
4-Bromofluorobenzene (S)	%				104	70-130	
Toluene-d8 (S)	%				93	70-130	

SAMPLE DUPLICATE: 1436481

Parameter	Units	92245361013 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGills Grocery 19440/50115
Pace Project No.: 92245639

SAMPLE DUPLICATE: 1436481

Parameter	Units	92245361013 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	121	123	2		
4-Bromofluorobenzene (S)	%	113	114	1		
Toluene-d8 (S)	%	97	98	1		

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: McGills Grocery 19440/50115
Pace Project No.: 92245639

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.

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.

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, Styrene, and Vinyl chloride.

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.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McGills Grocery 19440/50115
Pace Project No.: 92245639

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92245639001	WSW-8	EPA 8260	MSV/31231		
92245639002	WSW-10	EPA 8260	MSV/31231		
92245639003	WSW-1	EPA 8260	MSV/31231		
92245639004	Field Blank	EPA 8260	MSV/31231		
92245639005	WSW-7	EPA 8260	MSV/31231		
92245639006	WSW-7 Dup	EPA 8260	MSV/31231		
92245639007	Trip Blank	EPA 8260	MSV/31224		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: September 22, 2014 Page 1 of 2
	Document Number: F-CHR-CS-003-rev.15	Issuing Authority: Pace Huntersville Quality Office

Client Name: SCDHEC

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals Intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1401 Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor T1401 No Correction

Corrected Cooler Temp.: 0.1 °C Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Date and initials of person examining contents: 4/15/15

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

SCURF Review: TC Date: 4/15/15

SRF Review: AMB Date: 4/16/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92245639

92245639

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1906799

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: SCDHEC	Report To: John Bryant	Attention: Angela Baioni
Address: 2600 Bull St Columbia SC 29210	Copy To:	Company Name: PACE
Email To: bryantjc@dhec.sc.gov	Purchase Order No.:	Address:
Phone: (803) 898 0607 Fax:	Project Name: McGills Grocery	Pace Quote Reference:
Requested Due Date/TAT:	Project Number: UST#10440 / CA#50115	Pace Project Manager:
		Pace Profile #: 836-4 5

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☒ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N): BTEX, MN, DCA, DXYS	Residual Chlorine (Y/N)	Pace Project No / Lab I.D.
1	WSW-8	DW	G			4/14	10:55		3				X					X	X		92245639
2	WSW-10	DW	G			4/14	11:05		3				X					X	X		
3	WSW-1	DW	G			4/14	11:22		3				X					X	X		
4	Field Blank	DW	G			4/14	11:25		2				X					X	X		
5	WSW-7	DW	G			4/14	11:35		2				X					X	X		
6	WSW-7 MP	DW	G			4/14	11:35		2				X					X	X		
7	Trip blank	DW	G			4/14			2				X					X	X		
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp In °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
24 hr Quickturn		4/15/15	940		04-15-15	09:40				
		04-15-15	16:20		4/15	1620	0.1	Y	Y	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ashleigh Thrash

SIGNATURE of SAMPLER: Ashleigh Thrash DATE Signed (MM/DD/YY): 4/14/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

GAC Unit Installation and Maintenance

Date: 5/8/15

Facility Name: McGill Grocery

UST Permit Number: 19440

GAC Address: 2859 Lake Secession Rd., Iva, SC (WSW-10 Burton Residence)

GAC Unit Serial Number: Model - Canature 565 Series

UST Ashleigh MAY 2 1 2015 DIVISION

NEW INSTALLATION

Date Installation Completed: 5/8/2015

UST 48 tec DOCKETING

Attachments Required
- ■ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

☐ FILTER CHANGE

Filter Disposal Method: _____

Condition of GAC Unit _____ In Need of Repair* X Good

Condition of GAC Housing _____ In Need of Repair* X Good

*Repairs Needed:

■ SERVICE/REPAIR CALL

Service or Repair Provided: GAC unit Install

☐ SAMPLE COLLECTION
- ☐ Pre-GAC
- ☐ Pre-GAC DUP
- ☐ Mid-GAC
- ☐ Post-GAC

Comments: Installation of GAC Unit on WSW-10 for the Burton residence. This well also supplies water for the Former McGill Grocery business. Plumbing work provided by Barwick Plumbing.

GAC Unit Installation and Maintenance

Date: 5/8/15

Facility Name: McGill Grocery

UST Permit Number: 19440

GAC Address: 2797 Lake Secession Rd., Iva, SC (WSW-1 Vol. Fire Dept.)

GAC Unit Serial Number: Model - Canature 565 Series

NEW INSTALLATION

Date Installation Completed: 5/8/2015

Attachments Required
- ■ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

☐ FILTER CHANGE

Filter Disposal Method: _____

Condition of GAC Unit _____ In Need of Repair* X Good

Condition of GAC Housing _____ In Need of Repair* X Good

*Repairs Needed:

■ SERVICE/REPAIR CALL

Service or Repair Provided: GAC unit Install

☐ SAMPLE COLLECTION
- ☐ Pre-GAC
- ☐ Pre-GAC DUP
- ☐ Mid-GAC
- ☐ Post-GAC

Comments: Installation of GAC Unit on WSW-1 for the Abbeville County Volunteer Fire Department's building. GAC Unit filters water for inside of bulding only while the outside spigots were not included to GAC filter at the Fire Department's request. Fire department personnel were concerned that the GAC unit would restrict the water flow used to fill fire trucks. Plumbing work provided by Barwick Plumbing.

GAC Unit Installation and Maintenance

Date: 5/8/15

Facility Name: McGill Grocery

UST Permit Number: 19440

GAC Address: 2801 Lake Secession Rd., Iva, SC (WSW-7 Adams Residence)

GAC Unit Serial Number: Model - Canature 565 Series

NEW INSTALLATION

Date Installation Completed: 5/8/2015

Attachments Required
- ■ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

☐ FILTER CHANGE

Filter Disposal Method: _____

Condition of GAC Unit _____ In Need of Repair* __X__ Good

Condition of GAC Housing _____ In Need of Repair* __X__ Good

*Repairs Needed:

■ SERVICE/REPAIR CALL

Service or Repair Provided: GAC unit Install

☐ SAMPLE COLLECTION
- ☐ Pre-GAC
- ☐ Pre-GAC DUP
- ☐ Mid-GAC
- ☐ Post-GAC

Comments: Installation of GAC Unit on WSW-7 for the Adams residence. Plumbing work provided by Barwick Plumbing.

GAC Maintenance Report

Permit # 19440

Emerald Job # 131

Address	Serial #	Model	Date Serviced	Condition of Unit	Samples Collected
2859 Lake Secession Rd., Iva, SC (WSW-10 Burton Residence)		Fleck Style	5/8/15	Needs Repairs ☐ Good ■	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
2797 Lake Secession Rd., Iva, SC (WSW-1 Vol. Fire Dept.)		Fleck Style	5/8/15	Needs Repairs ☐ Good ■	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
2801 Lake Secession Rd., Iva, SC (WSW-7 Adams Residence)		Fleck Style	5/8/15	Needs Repairs ☐ Good ■	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC

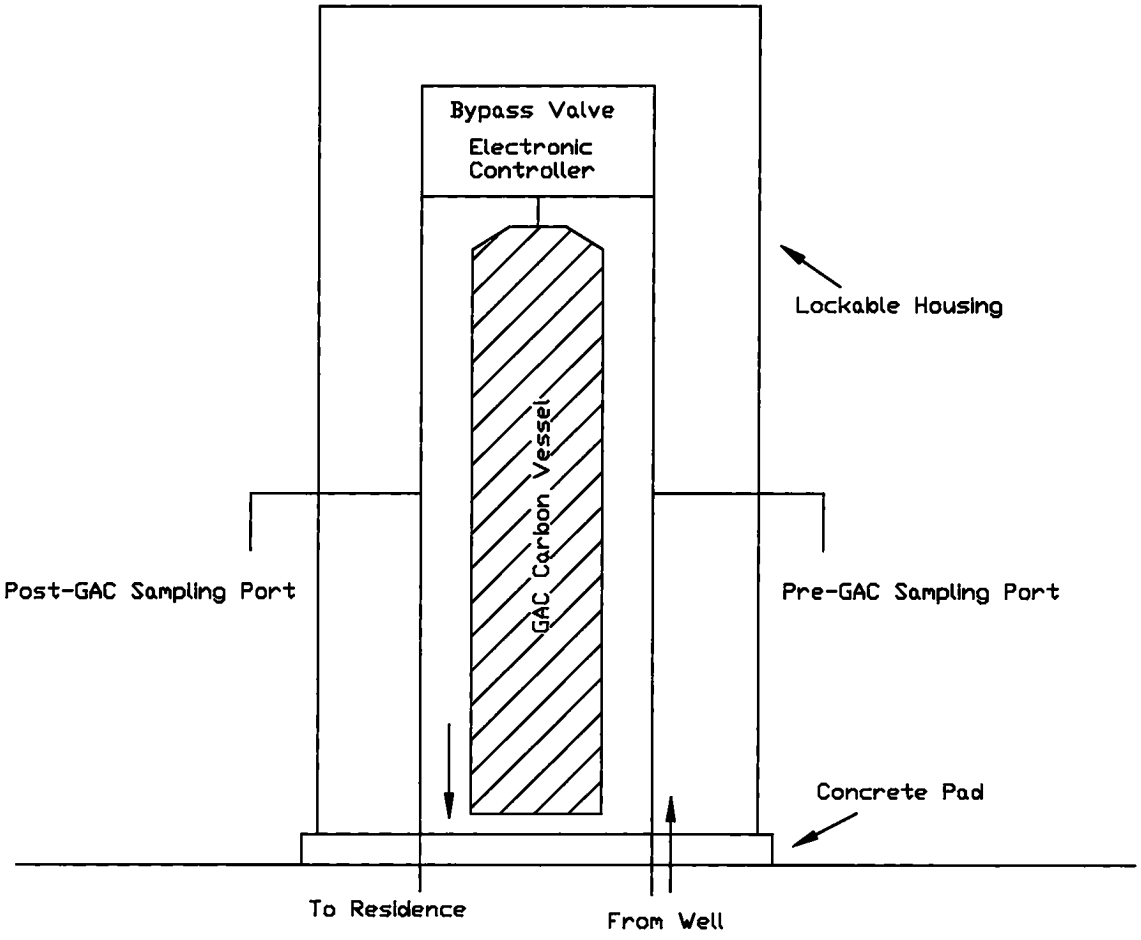
Notes:

Filter Disposal Method: _____

Service/Repairs: Installation of GAC Units on WSW-1, WSW-7 & WSW-10. Plumbing work provided by Barwick Plumbing.

Comments:

GAC Installation

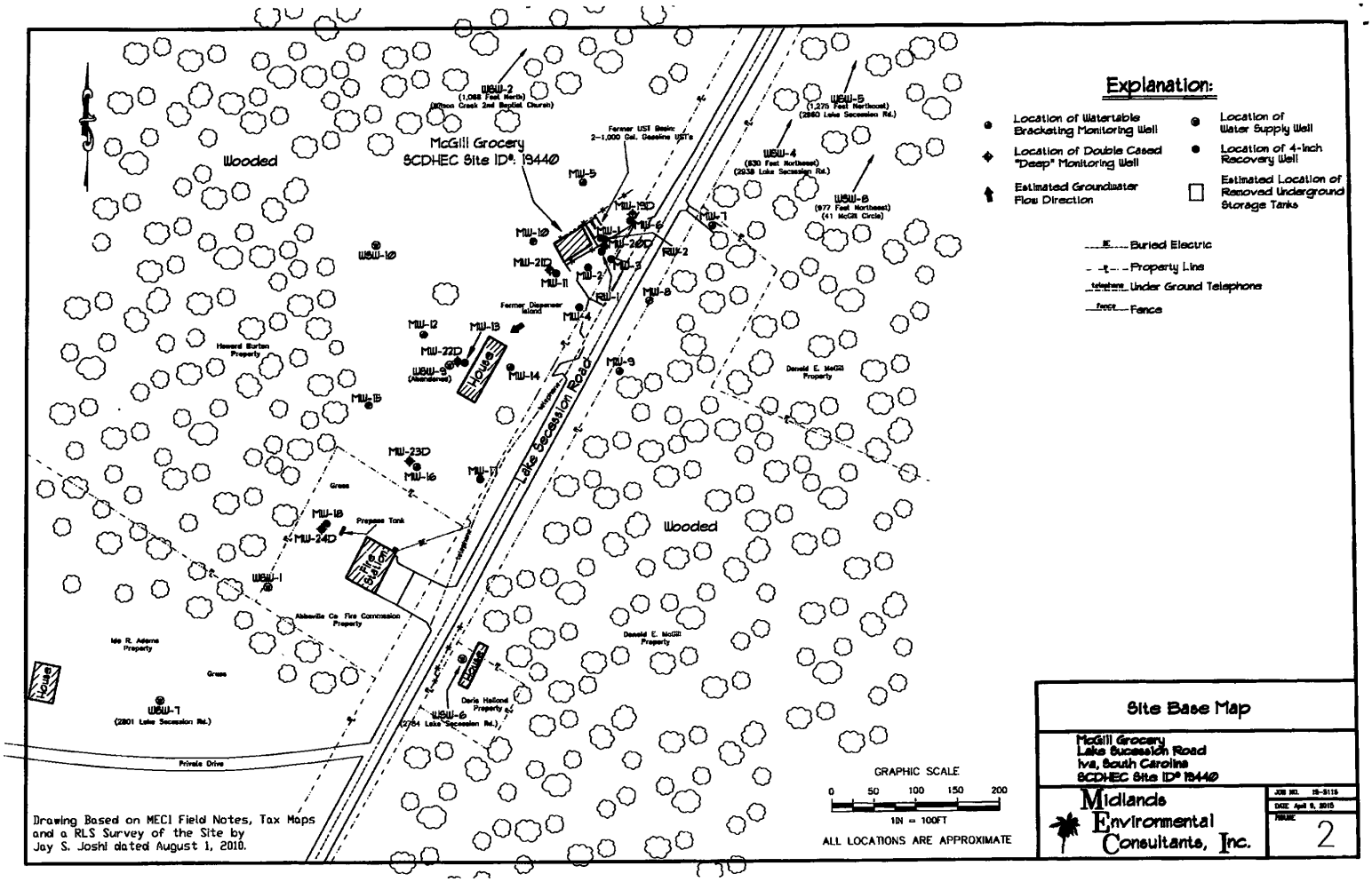


GAC Information

GAC Type - Canature 565 Series

Representative GAC Installation for WSW-1, WSW-7 and WSW-10

PROJECT:	SHEET TITLE:	
McGill Grocery Lake Secession Road Iva, SC Permit #19440	Figure 1 GAC Installation Schematic	EMERALD, INC. Sumter, SC


Explanation:
Location of Watertable Bracketing Monitoring Well
Location of Double Cased "Deep" Monitoring Well
Estimated Groundwater Flow Direction
Location of Water Supply Well
Location of 4-Inch Recovery Well
Estimated Location of Removed Underground Storage Tanks
Buried Electric
Property Line
Under Ground Telephone
Fence
McGill Grocery
SCDHEC Site ID#: 19440
Wooded
Wooded
Lake Secession Road
Former UST Basin: 2-1,000 Gal. Gasoline UST's
Former Dispenser Island
Prepass Tank
Fire Station
House
House
House
Howard Burton Property
Abbeville Co. Fire Commission Property
Ide R. Adams Property
Donald E. McGill Property
Donald E. McGill Property
Doris Holland Property
Private Drive
Grass
Grass
WSW-1
WSW-2
WSW-4
WSW-5
WSW-6
WSW-7
WSW-8
WSW-9
WSW-10
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7
MW-8
MW-9
MW-10
MW-11
MW-12
MW-13
MW-14
MW-15
MW-16
MW-17
MW-18
MW-19D
MW-20D
MW-21D
MW-22D
MW-23D
MW-24D
RW-1
RW-2
GRAPHIC SCALE
0 50 100 150 200
1IN = 100FT
ALL LOCATIONS ARE APPROXIMATE
Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.
Site Base Map
McGill Grocery
Lake Sucession Road
Iva, South Carolina
SCDHEC Site ID# 19440
Midlands Environmental Consultants, Inc.
2

Canature™

NORTH AMERICA

CAN 565 Series

Softener Manual

WQA Tested and Certified according to NSF/ANSI 44 for effective reduction of hardness (calcium and magnesium) as verified and substantiated by test data.

Tested and Certified by the Water Quality Association to CSA B483.1.

Note:

1. **Read all instructions carefully before operation.**
2. **Avoid pinched o-rings during installation by applying (provided with install kit) NSF certified lubricant to all seals.**
3. **Unit is factory set for "Clean Water" application. See factory settings for "Problem Water" on page 10.**
4. **This system is not intended for treating water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.**

Canadian Head Office
655 Park St.
Regina, SK S4N 5N1

Eastern Sales & Distribution
20 Steckle Place, Unit 21
Kitchener ON N2E 2C3

80150307
Rev 1, May 28, 2012

TABLE OF CONTENTS

System Specifications 3
How Your Water Conditioner Works 3
Main Valve Functions 4
General Installation 5
Start-up Instructions 6
Level I User Programming 6
Level II User Programming 8
System Configuration 10
Maintenance 11
Valve Drive Assembly Exploded View 14
Control Valve Assembly Exploded View 15
Troubleshooting 16
Guarantee 17

Efficiency Statement

This product is efficiency rated according to NSF/ANSI 44. The stated efficiencies are valid only at the specified salt dosages and maximum service flow rate.

Product Data Sheet							
Model Number	565-75C	565-100C	565-75	565-100	565-150	565-200	565-300
Qty High Capacity Resin	0.75 ft^3	1.0 ft^3	0.75 ft^3	1.0 ft^3	1.5 ft^3	2.0 ft^3	3.0 ft^3
Rated Service Flow (gpm)	7.5	12.1	7.5	11.0	11.2	12.4	12.9
Pressure Drop at Rated Service Flow (psi)	7.0	15.0	9.0	15.0.	15.0	15.0	15.0
Rated Softening Capacity (grains)	9,609 @ 2.25lbs	13,269 @ 3lbs	10,222 @3lbs	13,269 @ 3lbs	20,443 @ 4.5lbs	27,258 @ 6lbs	40,887 @ 9lbs
Efficiency (grains/lb salt)	4,271	4,543	4,543	4,543	4,543	4,543	4,543
Max. Flow Rate to Drain (gpm)	2.0	2.4	1.5	2.0	2.4	3.5	5.0
Working Pressure	Min. 20 - Max. 125 psi						
Operating Temperature	Min 39 - Max. 100 degrees Fahrenheit						

These softeners conform to NSF/ANSI 44 for the specific performance claims as verified and substantiated by test data. These models are efficiency rated. The efficiency rating is valid only at the stated salt dose and maximum service flow rate. They have a demand initiated regeneration (D.I.R.) feature that complies with specific performance specifications intended to minimize the amount of regenerant brine and water used in their operation. These softeners have a rated softener efficiency of not less than 3350 grains of total hardness exchange per pound of salt (based on sodium chloride) and shall not deliver more salt than their listed ratings. The rated salt efficiency is measured by laboratory tests described in NSF/ANSI Standard 44. These tests represent the maximum possible efficiency that the systems can achieve. Operational efficiency is the actual efficiency after the system has been installed. It is typically less than the efficiency due to individual application factors including water hardness, water usage, and other contaminants that reduce the softener's capacity. These systems are not intended for use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. For best results, use plain, white block salt. Refer to Installation/operation manual and warranty for further details on installation, parts and service, maintenance and further restrictions or limitations to the use of the product.

C

WQA Tested and Certified according to NSF/ANSI 44 for effective reduction of hardness (calcium and magnesium) as verified and substantiated by test data.

Tested and Certified by the Water Quality Association to CSA B483.1.

System Specifications

Item #	Model	System Capacity Grains			Flow Rate		Regeneration Water		Mineral Tank Size	Resin Cu. Ft.	Brine Tank / Cabinet Size Inches	Salt Capacity (Lbs)	Ship Weight (Lbs)
		@ 10 lbs/cu ft	@ 6 lbs/cu ft (Factory Setting)	@ 3 lbs/cu ft	Service USGPM	Backwash USGPM	Clean Water (Factory Setting)	Problem Water					
15010007	CAN565-75	21,000	**18,750**	11,550	8.0	1.5	**29.5**	37.0	8 x 44	0.75	15.0 x 15.0 x 34.7	230	105
15010008	CAN565-100	28,000	**25,000**	15,400	10.0	2.0	**38.0**	48.0	9 x 48	1.00	15.0 x 15.0 x 34.7	230	122
15010009	CAN565-150	42,000	**37,500**	23,100	12.0	2.4	**48.5**	60.5	10 x 54	1.50	15.0 x 15.0 x 34.7	230	155
15010010	CAN565-200	56,000	**50,000**	30,800	15.0	3.5	**80.5**	95.5	12 x 52	2.00	20.3 x 37.4	385	158
15010024	CAN565-250	70,000	**62,500**	38,500	15.0	4.0	**92.5**	112.5	13 X 54	2.50	20.3 x 37.4	385	198
15010019	CAN565-300	84,000	**75,000**	46,200	15.0	5.0	**116.5**	141.5	14 x 65	3.00	23.0 x 40.5	550	244
15010011	CAN565-75C	21,000	**18,750**	11,550	8.0	2.0	**29.5**	37.0	9 x 35	0.75	13.8 x 23.6 x 43.3	225	93
15010012	CAN565-100C	28,000	**25,000**	15,400	10.0	2.4	**38.0**	48.0	10 x 35	1.00	13.8 x 23.6 x 43.3	225	110

Figure 1. Specifications

- C indicates cabinet Models
- Water Temperature = Min 39°F / Max 110°F
- Operating Pressure = Min 20 PSI / Max 125 PSI
- Voltage = 110 volts standard
- Units contain 8% Super Capacity Ion Exchange Resin
- At the stated service flow rates, the pressure drop through these devices will not exceed 15 psig.
- Units are factory set for "Clean Water" applications. For installations with problem water (Iron, Manganese, turbidity, etc.) please refer to Figure 12 on page 10 for "Problem Water" valve settings.
- The manufacturer reserves the right to make product improvements which may deviate from the specifications and descriptions stated herein, without obligation to change previously manufactured products or to note the change.
- The above capacity and flow rate specifications have not been validated by WQA.

How Your Water Conditioner Works

The principle behind water softening is simple chemistry. A water softener contains resin beads which hold electrically charged ions. When hard water passes through the softener, calcium and magnesium ions are attracted to the charged resin beads. It's the resulting removal of calcium and magnesium ions that produces soft water.

This valve is controlled with simple, user-friendly electronics displayed on a large LCD screen. The main page displays the current date and time. In addition, the main page also shows key valve information and statistics including; current capacity setting, volume remaining, date of last regeneration, current flow rate, and peak flow rate.

MAY 8, 2009 9:05 AM	CAPACITY 1,350 GAL	VOLUME REMAINING 1,125 GAL
REGEN DAYS 7 DAYS	REMAINING DAYS 5 DAYS	REGENERATION TIME 2:00 AM
LAST REGEN MAY 4, 2009	CURRENT FLOW 1.5 GPM	PEAK FLOW 5.8 GPM

Figure 2. Main Page Displays

NOTE: REGEN DAYS and REMAINING DAYS are only shown in the CALENDAR CLOCK more or METER OVERRIDE mode.

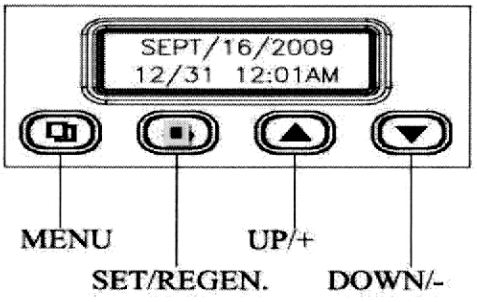


Figure 3. Key Pad Configuration

MENU BUTTON "▣": The function of this key is to enter the level one programming mode where the valve settings can be adjusted.

SET / REGEN BUTTON "□": This button has two functions. The first is to initiate a manual regeneration by holding the button for 3 or more seconds. The second function is while in programming mode, pressing this key allows the user to change the value of each setting.

UP / DOWN "▲▼": These buttons are used to increase or decrease the value of the settings while in the programming mode.

System Initialization

When power is first supplied, the valve may take up to two minutes to initialize the valve. During this time the valve will show "INTIALIZING WAIT PLEASE". Do not touch any buttons at this time. When the valve reaches the service position, it will display the current date and time.

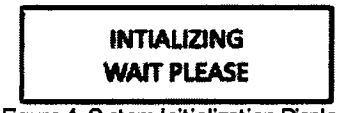


Figure 4. System Initialization Display

Main Valve Functions

Regeneration Mode: 1. METER DELAYED (FACTORY SETTING) 2. METER IMMEDIATE 3. CALENDAR CLOCK 4. METER OVERRIDE

Capacity Calculation: 1. AUTOMATIC (FACTORY SETTING) 2. MANUAL

Adjustable Cycles: All of the valve cycles are fully adjustable.
1. BACKWASH 2. BRINE / RINSE 3. RINSE 4. REFILL

NOTE: Refer to Level Two User Programming for description of each mode.

During a regeneration cycle, the valve will display what position it is advancing to. Once in the correct position, the valve will display the current position along with the time remaining for that cycle. On the bottom row, the time remaining is also graphically displayed.

Figure 5. Regeneration Cycle Valve Display

Manual Regeneration (Delayed or Immediate)

If screen is locked, press "▣ MENU" for 3 seconds to unlock. To initiate an immediate regeneration, press the SET / REGEN button for 3 seconds, an option for delayed or immediate regeneration will appear. Press the SET / REGEN button again and delayed will begin flashing, press the down arrow button to have immediate flash, press the SET / REGEN button and then press the menu button and the valve will immediately start into manual regeneration.

To initiate a delayed regeneration, press the SET / REGEN button for 3 seconds, then press the menu button and a regeneration will be queued to the next pre-set regeneration time (2:00 a.m.).

Control Operation During A Power Failure

In the event of a power failure, the valve will keep track of the time and day for 48 hours. The programmed settings are stored in a non-volatile memory and will not be lost during a power failure. If power fails while the unit is in regeneration, the valve will finish regeneration from the point it is at once power is restored. If the valve misses a scheduled regeneration due to a power failure, it will queue a regeneration at the next regeneration time once power is restored.

General Installation

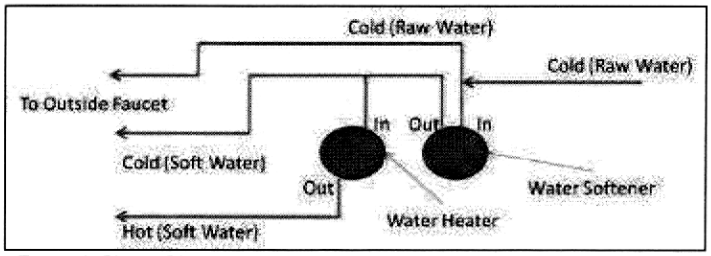
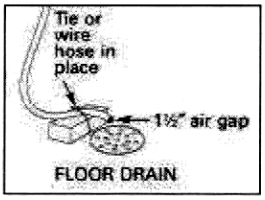


Figure 6. Piping Diagram

1) Locate the softener tank and brine tank close to a drain where the system will be installed. The surface should be clean and level.
2) Perform all plumbing according to local plumbing codes.
   a) Use a ½" minimum pipe or tubing size for the drain line
   b) Use a ¾" pipe or tubing for backwash flow rates that exceed 7 gpm or length that exceeds 20ft (6 m)
   c) ON COPPER PLUMBING SYSTEMS BE SURE TO INSTALL A GROUNDING WIRE BETWEEN THE INLET AND OUTLET PIPING TO MAINTAIN GROUNDING.
3) Any solder joints near the valve must be done before connecting any piping to the valve. Always leave at least 6" (152 mm) between the valve and joints when soldering pipes that are connected to the valve. Failure to do this could cause damage to the valve.
4) If the valve is not installed on the tank, cut the 1" central pipe flush with top of each tank. Lubricate the large o-ring on the valve that seals against the tank. Screw the valve on to the tank. Be careful to not cross thread the valve into the tank. Only use silicone lubricant.
5) Connect the drain hose to the valve and secure it with a hose clamp. Run the drain hose to the nearest laundry tub or drain pipe. This can be ran up overhead or down along the floor. If running the drain line more than 20 ft overhead, it is recommended to increase the hose size to 3/4". NEVER MAKE A DIRECT CONNECTION INTO A WASTE DRAIN. A PHYSICAL AIR GAP OF AT LEAST 1.5" SHOULD BE USED TO AVOID BACTERIA AND WASTEWATER TRAVELLING BACK THROUGH THE DRAIN LINE INTO THE SOFTENER.



6) Connect the brine line from the valve to the air check / safety elbow as per figure 7. Double check to make sure all connections are assembled correctly and the brass and plastic nuts are tight and secure to prevent leaks.
7) Add water until there is approximately 1" (25 mm) of water above the grid plate. If the tank does not have a grid, add water until it is above the air check in the brine tank. Do not add salt to the brine tank at this time.
8) Place the unit in the bypass position.
9) Slowly turn on the main water supply.
10) At the nearest cold treated water tap nearby remove the faucet screen, open the faucet and let water run a few minutes or until the system is free of any air or foreign material resulting from the plumbing work. Close the water tap when water runs clean, then proceed to start up instructions.

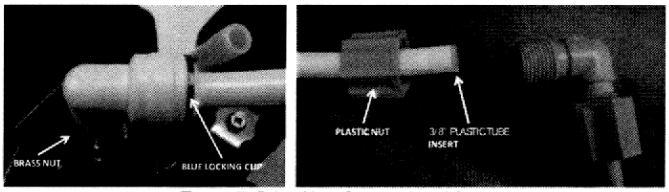


Figure 7. Brine Line Connections View

Start-Up Instructions

1. Plug the valve into an approved power source.
2. When power is supplied to the control, the screen will display "INITIALIZING WAIT PLEASE" while it finds the service position.
3. If screen is locked, press "▣ MENU" for 3 seconds to unlock. Press "□SET/REGEN" and hold for 3 seconds to initiate a manual regeneration and advance the valve to the Backwash position. Open the inlet on the bypass valve slowly and allow water to enter the unit. Allow all air to escape from the unit before turning the water on fully then allow water to run to drain for 3-4 minutes or until all media fines are washed out of the softener.
4. Press any button to advance to the BRINE position. Check the water level in the brine tank to insure the valve is drawing brine properly.
5. Press any button to advance to the RINSE position. Check the drain line flow. Allow the water to run for 3-4 minutes or until the water is clear.
6. Press any button to advance to the REFILL position. Check that the valve is filling water into the brine tank. Allow the valve to refill for the correct amount of time as displayed on the screen to insure a proper brine solution for the next regeneration.
7. Press any button to advance to the SERVICE position. Open the outlet valve on the bypass, then open the nearest treated water faucet and allow the water to run until clear, close the tap and replace the faucet screen.
8. Add salt into the brine tank.
9. Program hardness and people into controller using Level One Programming Instructions.

Level I User Programming

Setting Current Time

1. If screen is locked, press "▣ MENU" for 3 seconds to unlock. Press "▣ MENU" again to enter level one programming mode and adjust CURRENT TIME.
2. Press "□SET/REGEN" to adjust hours. When you have entered the change value mode, the curser will blink. Press "▲ or ▼ UP OR DOWN" arrows to change the hour values. Press "□SET/REGEN" again to accept the hour value and advance to change the minutes value. Press ""▲ or ▼ UP OR DOWN" arrows to change the minute values. Press "□ SET/REGEN" again to accept the minute values and advance to adjust the AM/PM values. Press "▲ or ▼ UP OR DOWN" to change the AM/PM value. Press "□SET/REGEN" again to accept the AM/PM value and exit. When you have exited the change value mode, the curser will stop flashing.

Setting Current Date

1. Press "▼ DOWN" to advance to CURRENT DATE.
2. Using the same procedure as setting the time, press "□SET/REGEN" to enter value change mode.

Setting Number of People

1. Press "▼ DOWN" to advance to NUMBER OF PEOPLE.
2. Press the "□SET/REGEN" to change the value. Press up or down arrows to change the values.

Setting Water Hardness

1. Press "▼ DOWN" to advance to WATER HARDNESS.
2. Press the "□SET/REGEN" to change the value. Press "▲ or ▼ UP OR DOWN" to change the values.

Setting Vacation Mode

1. Press "▼ DOWN" to advance to VACATION MODE.
2. Press the "□SET/REGEN" to change the value. Press "▲ or ▼ UP OR DOWN" to change the values.

Exiting Level One User Program Mode

At any time, press the "⧉ MENU" to accept all changes and return to main page display.

Level I User Program Mode			
PARAMETER		OPTIONS	DESCRIPTION
1	CURRENT TIME		This option is the current time of day.
2	CURRENT DATE		This option is the current date. The date is used to track the last time the system regenerated.
3	NUMBER PEOPLE		This value is the number of people living in the home. It is used to calculate the amount of water needed for daily use and the reserve capacity of the system.
4	WATER HARDNESS		This value is the maximum water hardness in grains per gallon of the raw water supply. It is used to calculate the system capacity.
5	VACATION MODE	Yes	This function may be activated by the user during a prolonged absence such as vacation. The system will perform a brief backwash and rinse based on the advanced setting. The purpose is to keep the water fresh in the softener tank and plumbing system.
		No	

Figure 8. Level I Program Options

Level I User Programming Flow Chart

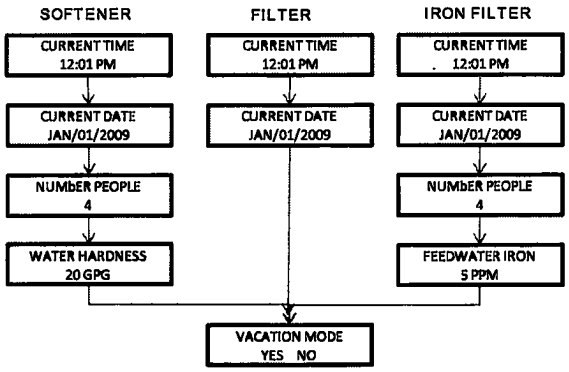


Figure 9. Level I User Program Flow Chart

Level II User Programming

When the Level Two Master Programming Mode is entered, all available option setting displays may be viewed and set as needed. Depending on current option settings, some parameters cannot be viewed or set.

1. If screen is locked, press "MENU" for 3 seconds to unlock.
2. Press and hold "▲▼ UP AND DOWN" for three seconds to enter Level Two Master Programming.

Level II Master Program Mode			
PARAMETER		OPTIONS	DESCRIPTION
1	SYSTEM LANGUAGE	ENGLISH	This option controls which language should be used in the valve display.
		FRENCH	
		SPANISH	
2	VALVE OPERATION	SOFTENER	There are three basic operating modes to choose depending on the system application.
		FILTER	
		IRON FILTER	
3	REGEN. MODE	METER DELAYED	This is the most common setting. When the volume remaining reaches zero gallons, the system will initiate a regeneration at the next pre-set regeneration time.
		METER IMMEDIATE	The unit will initiate a regeneration immediately after the volume remaining reaches zero.
		CALENDAR CLOCK	The unit will initiate a regeneration at the next pre-set regeneration time based on the interval of days between regeneration days.
		METER OVERRIDE	When the volume remaining reaches zero gallons, the system will initiate a regeneration at the next pre-set regeneration time. If the days between regeneration is reached before the remaining volume reaches zero, the system will override the meter setting and initiate a regeneration.
4	REGENERATION TIME		This setting controls the time of day when a regeneration cycle will start.
5	CAPACITY CALC.	AUTOMATIC	This option automatically calculates the capacity (in gallons for meter units), refill time (in minutes), or regeneration day intervals (days for calendar clock mode).
		MANUAL	The user can manually enter values for capacity, refill time, or regeneration day intervals.
6	RESIN VOLUME		This value should be the amount of resin in cubic feet that is loaded in to the tank. The value is used to calculate the system capacity and refill time.
7	SALT SETTING		This value is the salt dosage (pounds per cubic foot) to be used when regenerating the system.
8	REFILL FLOW RATE		This value is the flow rate(gallons per minute) of the brine line flow control (BLFC) button installed in the valve and is used to calculate the refill time to precisely measure the amount of water into the brine tank. (Note: This value is factory preset and should not be changed unless the BLFC button has been changed to a different size.)
9	UNIT CAPACITY		This value (GRAINS for softeners, PPM for IRON FILTERS) is the total capacity of the system. It is used to calculate the capacity of the system in gallons.
10	CAPACITY		In MANUAL CAPACITY CALC. mode, the CAPACITY can be adjusted by the user. In AUTOMATIC CAPACITY CALC. mode, the current calculated value is displayed but cannot be adjusted.
		FORMULA	CAPACITY = (UNIT CAPACITY / WATER HARDNESS) – (NUMBER PEOPLE * DAILY USAGE)
11	DAILY USAGE		This value is the average amount of water used per person per day. It is used to calculate the REGEN. DAYS for calendar clocks.
12	RESERVE CAPACITY		This value is the amount of water per person in gallons to be saved for a reserve capacity. It is used to calculate the CAPACITY of the system.
13	REGEN. DAYS		This value is the interval (days) between regenerations. It is used to determine how many days between regenerations in the CALENDAR CLOCK mode. It is also used as the value for the METER OVERRIDE mode. It can be set by the user in MANUAL CALC. MODE. In AUTOMATIC CAPACITY CALC. mode, the current calculated value is displayed but cannot be adjusted.
		FORMULA	REGEN. DAYS = ((UNIT CAPACITY / WATER HARDNESS) / (NUMBER PEOPLE * DAILY USAGE)) - 1
14	BACKWASH		This option controls the length of time in minutes for the unit to clean the bed by reversing the flow of water upwards through the bed and out to the drain.
15	BRINE / RINSE		This option controls the length if time in minutes for the unit to draw regenerant (brine for softeners) from the second tank and slowly rinse it from the top to bottom of the tank.
16	RINSE		This option controls the length of time to give the tank a final rinse from the top to the bottom in order remove any last traces of the regenerant (brine) from the tank.
17	REFILL		This option controls the length of time the brine valve will open to refill the second tank (brine tank for softeners) with water in order to produce the regenerate solution (brine for softeners) for the next regeneration cycle. The water is accurately measured through the valves brine line flow control to make a precise quantity of regenerant solution. In MANUAL CAPACITY CALC. mode, the REFILL time can be adjusted by the user. In AUTOMATIC CAPACITY CALC. mode, the current calculated value is displayed but cannot be adjusted.
		FORMULA	REFILL = SALT SETTING * RESIN VOLUME / 3 / REFILL FLOW RATE
18	RESTORE DEFAULT	YES	This option allows the current settings to be erased and changed back to the default settings.
		NO	

Figure 10. Level II Program Options

Level II User Programming Softener Flow Chart

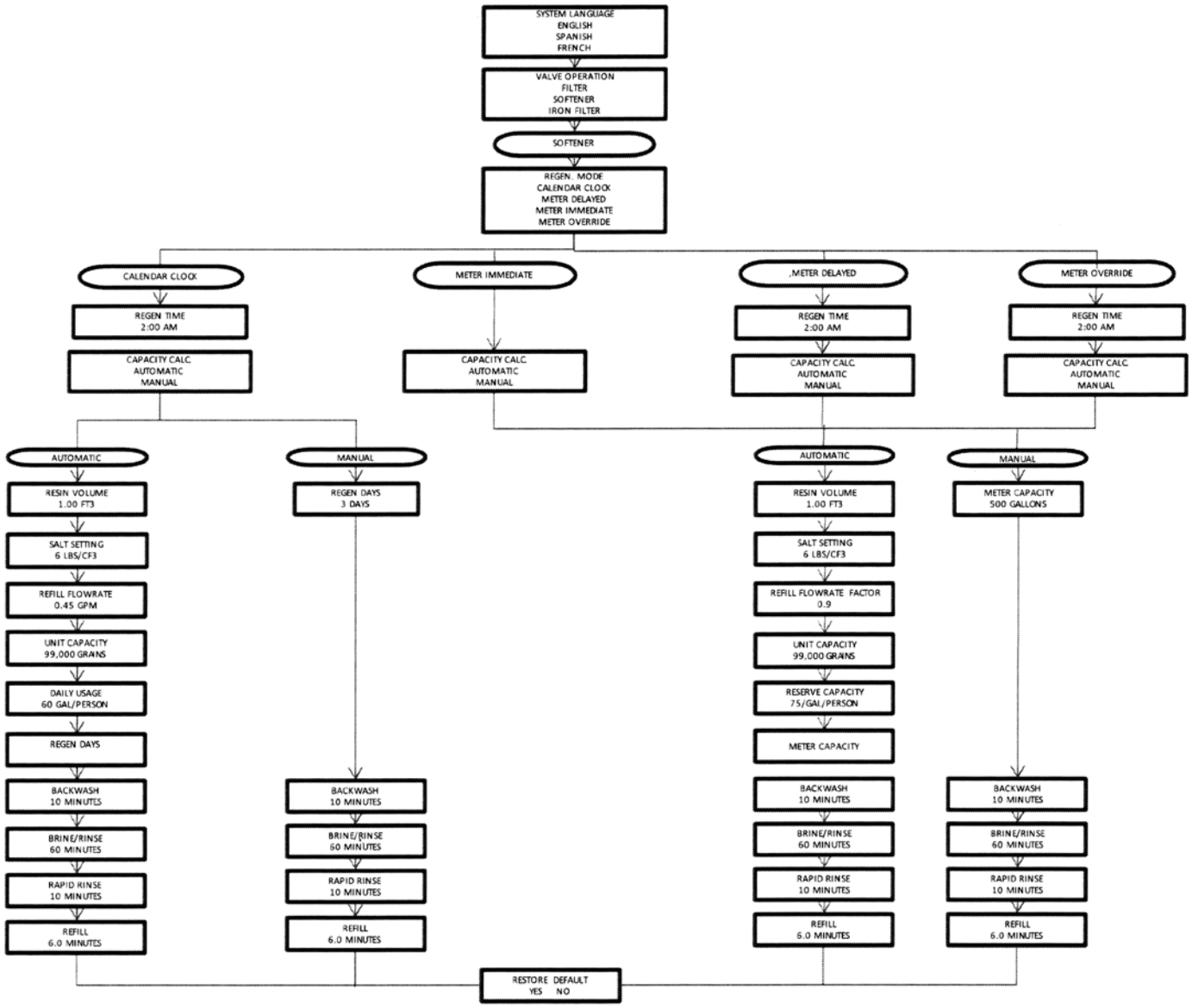


Figure 11. Level II User Program Flow Chart

Diagnostics Mode

1. If screen is locked, press "MENU" for 3 seconds to unlock.
2. Press and hold the "▼" DOWN button for three seconds to enter Level Diagnostics Mode.
   In this mode, key diagnostics can be viewed for trouble shooting and problem solving. In addition, the values can be reset to zero individually by pressing "SET/REGEN" for 3 seconds

Vacation Settings Mode

1. If screen is locked, press "▣ MENU" for 3 seconds to unlock.
2. Press "▼" to advance to VACATION MODE.
3. Press and hold the "▲ UP" for three seconds to enter the Vacation Settings Mode. In this mode the length of time for backwash and rinse along with the frequency are set while the valve is in vacation mode.

PARAMETER	DESCRIPTION
REGEN. DAYS	This value is the frequency of how often the unit should perform a brief backwash and rinse.
BACKWASH	This option controls the length of time in minutes for the unit to briefly clean the bed by reversing the flow of water upwards through the bed and out to the drain.
RINSE	This option controls the length of time to give the tank a brief rinse from the top to the bottom in order to remove any stale or stagnant water from the tank.

Figure 12. Vacation Mode Settings

System Configuration

Valve Set Up

RESIN VOLUME	VALVE CYCLE SETTINGS (MINUTES)					
	CLEAN WATER			PROBLEM WATER		
	BACKWASH	BRINE/RINSE	RINSE	BACKWASH	BRINE/RINSE	RINSE
0.75	5.0	50.0	5.0	10.0	60.0	10.0
1.00	5.0	50.0	5.0	10.0	60.0	10.0
1.50	5.0	50.0	5.0	10.0	60.0	10.0
2.00	5.0	50.0	5.0	10.0	60.0	10.0
2.50	5.0	50.0	5.0	10.0	60.0	10.0
3.00	5.0	50.0	5.0	10.0	60.0	10.0

Figure 13. Valve Set Up

Changing Valve Cycle Settings

1. If screen is locked, press "▣ MENU" for 3 seconds to unlock.
2. Press and hold "▲▼ UP AND DOWN" for three seconds to enter Level Two Master Programming.
3. Press the "▼ DOWN" and advance to the BACKWASH menu option. Press "□ SET/REGEN" to edit the BACKWASH minutes. Press "▲ or ▼ UP OR DOWN" arrows to change the BACKWASH minute values. Press "□SET/REGEN" again to accept the new value.
4. Press the "▼ DOWN" twice to advance to the RINSE menu option. Press "□ SET/REGEN" to edit the RINSE minutes. Press "▲ or ▼ UP OR DOWN" arrows to change the RINSE minute values. Press "□SET/REGEN" again to accept the new value.
5. Press "▣ MENU" to exit programming mode.

Automatic Bypass The regeneration cycle lasts approximately 70 minutes, after which soft water service will be restored. During regeneration, hard water is automatically bypassed for use in the household. Hot water should be used as little as possible during this time to prevent hard water from filling the water heater. This is why automatic regeneration is set for sometime during the night and manual regenerations should be performed when little or no water will be used in the household.

Safety Float The brine tank is equipped with a safety float which prevents your brine tank from overfilling as a result of a malfunction such as a power failure.

New Sounds

You may notice new sounds as your water softener operates. The regeneration cycle lasts approximately 2 hours. During this time, you may hear water running intermittently to the drain.

Manual Bypass

In the case of emergency, such as an overflowing brine tank, you can isolate your water softener from the water supply using the bypass valve located at the back of the control. In normal operation the bypass is open with the on/off knobs in line with the inlet and outlet pipes. To isolate the softener, simply rotate the knobs clockwise (as indicated by the word BYPASS and arrow) until they lock. You can use your water related fixtures and appliances as the water supply is bypassing the softener. However, the water you use will be hard. To resume soft water service, open bypass valve by rotating the knobs counterclockwise.

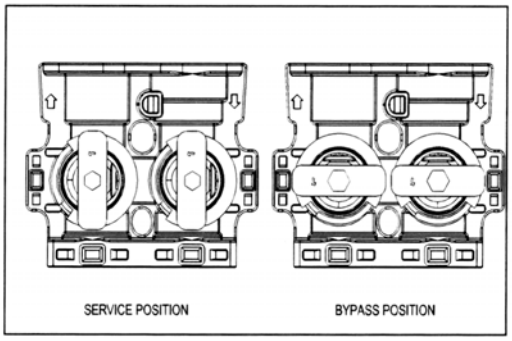


Figure 14. Bypass Installation View

Maintenance

Adding Salt

Use only crystal water softener salt. Check the salt level monthly. It is important to maintain the salt level above the water level. To add salt, simply lift the salt lid and add the salt directly into the brine tank. Be sure the brine well cover is on and fill only to the height of the brine well.

Bridging

Humidity or wrong type of salt may create a cavity between the water and the salt. This action, known as "bridging", prevents the brine solution from being made, leading to your water supply being hard.

If you suspect salt bridging, carefully pound on the outside of the brine tank or pour some warm water over the salt to break up the bridge. This should always be followed up by allowing the unit to use up any remaining salt and then thoroughly cleaning out the brine tank. Allow four hours to produce a brine solution, then manually regenerate the softener.

Care of Your Softener

To retain the attractive appearance of your new water softener, clean occasionally with mild soap solution. Do not use abrasive cleaners, ammonia or solvents. Never subject your softener to freezing or to temperatures above 120°F.

Cleaning the Injector Assembly

Sediment, salt and silt will restrict or clog the injector. A clean water supply and pure salt will prevent this from happening.

The injector assembly is located on the right side of the control valve. This assembly is easy to clean.

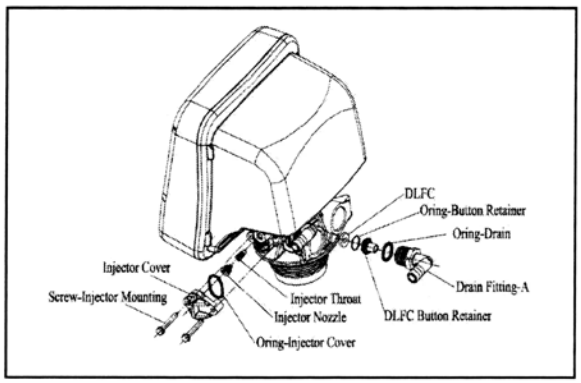


Figure 15. Injector Assembly View

Shut off the water supply to your softener and reduce the pressure by opening a cold soft water faucet. Using a screwdriver, remove the two screws holding the injector cover to the control valve body. Carefully remove the assembly and disassemble as shown in Figure 6. The injector orifice is removed from the valve body by carefully turning it out with a large screwdriver. Remove the injector throat the same way. Carefully flush all parts including the screen. Use a mild acid such as vinegar or Pro-Rust Out to clean the small holes in the orifice and throat.

Reassemble using the reverse procedure.

Resin Cleaner

An approved resin cleaner **must** be used on a regular basis if your water supply contains iron. The amount of resin cleaner and frequency of use is determined by the quantity of iron in your water (consult your local representative or follow the directions on the resin package).

Sanitizing Procedure

Care is taken at the factory to keep your water softener clean and sanitary. Materials used to make the softener will not infect or contaminate your water supply, and will not cause bacteria to form or grow. However, during shipping, storage, installing and operating, bacteria could get into the softener. For this reason, sanitizing as follows is suggested when installing.

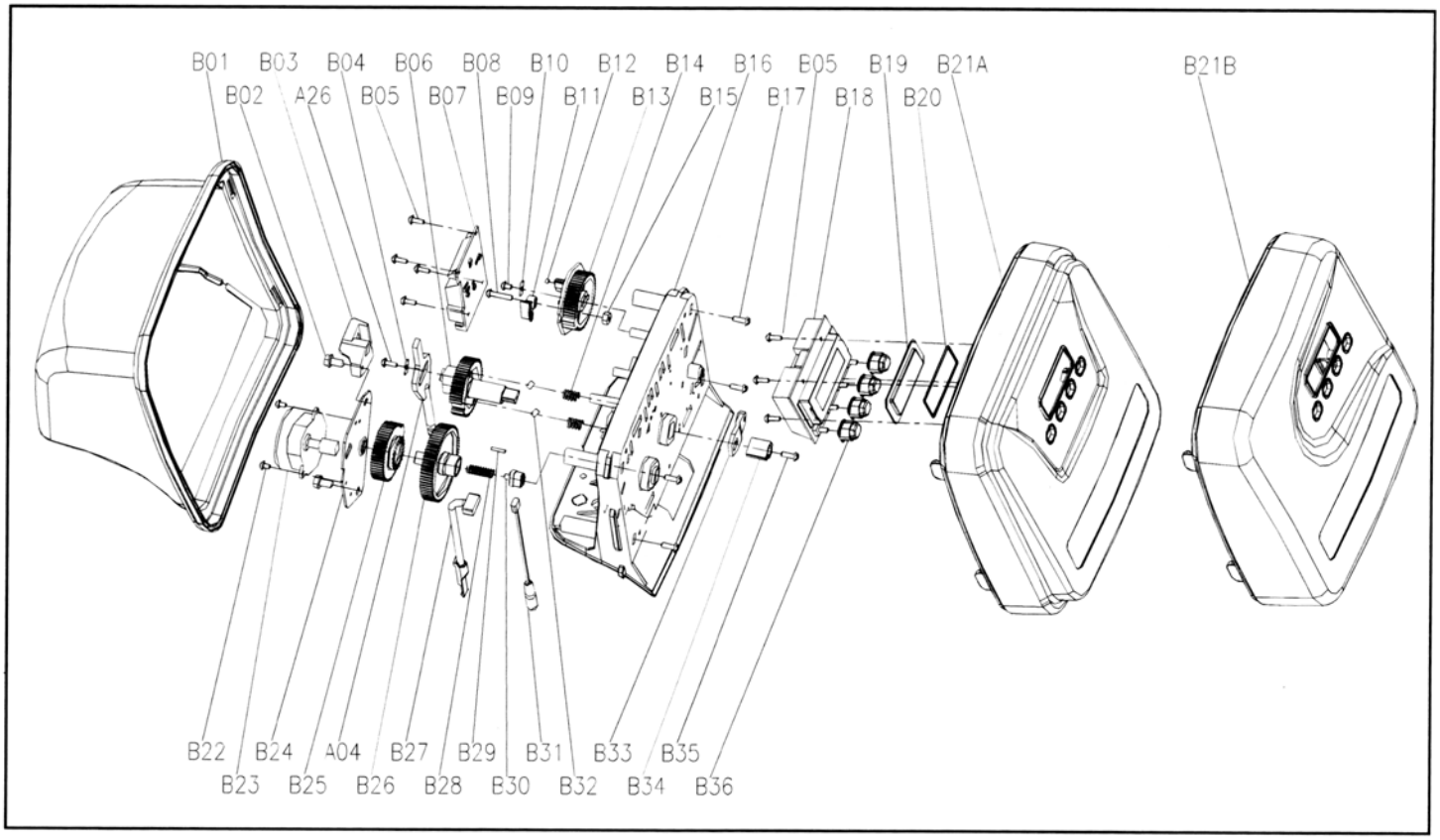
Sani-System Liquid Sanitizer Concentrate

Item# 80030021—Softener Sanitizer 0.25 fl.oz (24 Pack)

1. Be sure to complete all installation steps, including programming.
2. For effective and complete sanitization, EcoSmart recommends Sani-System Liquid Sanitizer Concentrate. Pour one 0.25 fl. Oz. package into the brine well located in the cabinet tank. (Alternative use 3/4 oz of common 5.25% household bleach)
3. Start an immediate regeneration. If screen is locked, press MENU for 3 seconds to unlock. To initiate an Immediate Regeneration, press the SET / REGEN button for 3 seconds, an option for Delayed or Immediate Regeneration will appear. Press the SET / REGEN button again and delayed will begin flashing, press the down arrow button to have Immediate flash, press the SET / REGEN button and then press the MENU button and the valve will immediately start into manual regeneration.
4. The Softener Sanitizer Solution is drawn into and through the water softener to sanitize it. This sanitizing regeneration is over in about two hours. Then, soft water is available for your use.

NOTE: Sanitizing is recommended by the Water Quality Association for disinfecting. On some water supplies, they suggest periodic sanitizing.

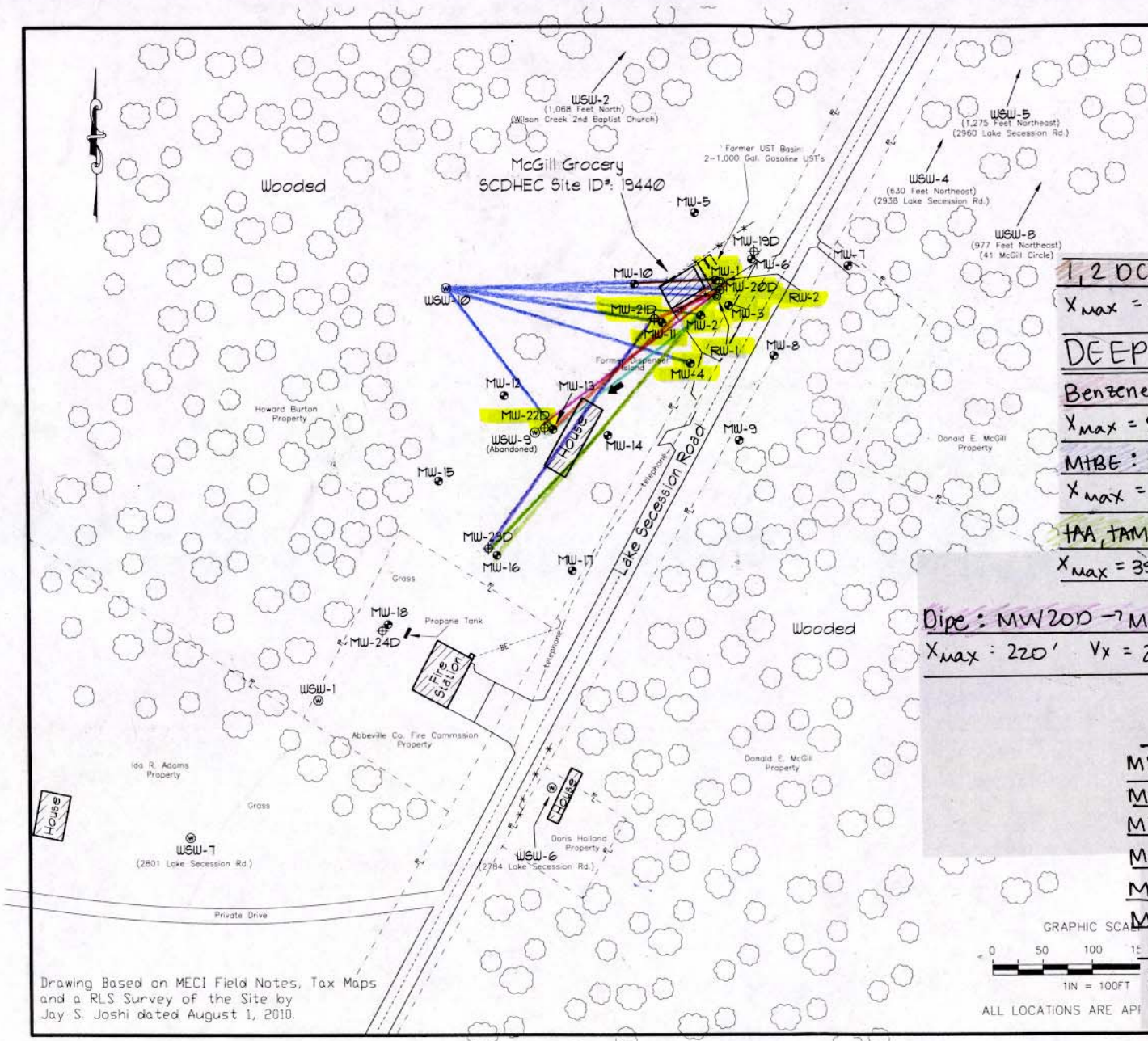
Valve Drive Assembly Exploded View



Item No.	Part No.	Part Discription	Quantity
B01	05056523	BNT365 Cover	1
B02	05056136	Screw-ST3.5×13(Hexagon with Washer)	2
B03	05010045	Piston Stem Holder	1
A26	13000426	Screw-ST2.9×13(Large Wafer)	1
B04	05056139	Washer-3x13	1
B05	05010037	Screw-ST2.9×10	8
B06	05056005	Main Gear	1
B07	05030010	Bnt85 Main Pcb	1
B08	05056083	Screw-M4x14	1
B09	05056166	Screw-ST4.2×12(Large Wafer)	1
B10	05056141	Washer-4x12	1
B11	05056016	Brine Regulator	1
B12	05010023	Magnet-φ3×2.7	1
B13	05056015	Brine Gear	1
B14	05056095	Spring Detent	2
B15	05056089	Nut-M4	1
B16	05056522	Bnt365 Housing	1
B17	05056084	Screw-ST3.5x13	4
B18	05030020	Bnt85-Display(NOVO)	1
	05056536	Bnt465 Wiring Harness	1
B19	05056528	Pcb Cover	1
B20	26010047	O-Ring-φ40×1.8	1

Item No.	Part No.	Part Discription	Quantity
B21A	05056527	Bnt465 Front Cover	1
B21B	05056531	Bnt565 Front Cover	1
B22	05056082	Screw-M3×5	2
B23	05056510	Motor-12v/2rpm	1
	05030014	Motor Power Cable	1
	11700005	Wire Connector	2
B24	05056045	Motor Mounting Plate	1
B25	05056501	Drive Gear	1
A04	05010081	Bnt65 Piston Rod	1
B26	05056002	Idler Gear	1
B27	05010031	Meter Assembly	1
	05010046	Meter Strain Relief	1
B28	05056094	Spring Idler	1
B29	05056098	Motor Pin	1
B30	05056502	Spring Retainer	1
B31	05010029	Power Cable	1
	05056013	Power Strain Relief	1
B32	05056092	Ball-1/4inch	2
B33	05056503	Magnet Holder	1
B34	05056554	Locking Knob	1
B35	05056561	Screw-ST3.5×15(CSK)	1
B36	05056529	Bnt465 Button	4

To order replacement parts contact your dealer. For help in locating your dealer please call 1-877-444-3348.



Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 1, 2010.

SHALLOW $\rho = 1.5$ $V_x = 1.78$ ft/yr (Tier II) plume length = 400'

BTEX, EDB, Oxys : MW-1 → MW-13

$X_{max} = 220'$ V_x: *used 18 ft/yr for BTEX, EDB
*used 10 ft/yr for oxys

Napth, MtBE : MW-2 → MW-13

$X_{max} = 185'$ V_x: 10 ft/yr *increased for calibration

1,2 DCA : MW-1 → MW-10

$X_{max} = 80'$ V_x: 15 ft/yr *increased for calibration

DEEP $\rho = 1.6$ $V_x = 1.73$ ft/yr (Tier II) plume length = 350'

Benzene, Toluene : MW-20D → MW-21D

$X_{max} = 80'$ $V_x = 20$ ft/yr *increased for calibration

MtBE : MW-21D → MW-23D

$X_{max} = 280'$ $V_x = 20$ ft/yr *increased for calibration

~~tAA, TAME, TBA~~ : MW-20D → 23D

$X_{max} = 350'$ $V_x = 30$ ft/yr *increased for calibration

Dipe : MW20D → MW22D

$X_{max} = 220'$ $V_x = 20$ ft/yr *increased for calibration

Distance to receptors (WSW-10)

well	distance (ft)	well	distance (ft)
MW-1	270	RW-1	270
MW-2	255	RW-2	275
MW-3	280		
MW-4	250		
MW-11	220		
MW-20D	270		
MW-21D	210		
MW-22D	170		

UST DOCKETING

SSTLs t 1000 yrs

UST Permit # 19440
Site Name: McGill Grocery

Shallow BTEX, EDB Model

SSTLs in mg/L		RBSLs (mg/L):		0.005	1.000	0.700	10.000			0.00005	
MW #	x (ft)	y (ft)	z (ft)	Benzene SSTL	Toluene SSTL	Ethylbenzene SSTL	Xylenes SSTL			EDB SSTL	
MW-1	270	0	0	42.339	>99999	2146.774	>99999			0.02891	
MW-2	255	0	0	26.299	93574.552	1410.874	72031.966			0.02085	
MW-3	280	0	0	58.116	>99999	2837.942	>99999			0.03593	
MW-4	250	0	0	22.432	75435.368	1226.273	61063.045			0.01869	
MW-11	220	0	0	8.607	20629.002	526.721	22578.612			0.00966	
RW-1	270	0	0	42.339	>99999	2146.774	>99999			0.02891	
RW-2	275	0	0	49.608	>99999	2468.454	>99999			0.03223	
			λ (yr^{-1}):	0.729	1.066	0.554	0.478			0.462	
			R:	1.097	1.160	1.211	1.767			1.034	
			Pure Substance Solubility:	1750	526	169	175			4321	
			Effective Solubility:	44.39	26.54	3.7	21.68			1.9	

Used 7/31/09 Sampling Data

Domenico Model

UST # 19440
Site Name: McGill Grocery
Modeler: Ashleigh Thrash
Date: 5/13/2015

Groundwater Flow Parameters

K	70	ft/yr
dh/dx	0.1	
θ	0.25	dec. %
v_x	18	ft/yr

Transport Parameters

x_{max}	220	ft
y_{max}	0	ft
z	0	ft
Source Width	30	ft
Source Thickness	15	ft
Plume Length	400	ft
α_x	16.06461	ft
α_y	1.606461	ft
α_z	1.00E-99	ft

Simulation Time

t_{sim} 15 yrs

Aquifer Characteristics

ρ_d	1.5	kg/L
f_{oc}	0.0002	

Source Area CoC Data

CoC	C_{source} (mg/L)	K_{oc} (L/kg)
Benzene	8.63	81
Toluene	96.4	133
Ethylbenzene	3.98	176
Xylenes	24.9	639
Naphthalene		1543
MtBE		11
EDB	0.002	28
1,2-DCA		17.5

Retarded Velocity (ft/yr)

CoC	R	v_R
Benzene	1.097	16.41
Toluene	1.160	15.52
Ethylbenzene	1.211	14.86
Xylenes	1.767	10.19
Naphthalene	2.852	6.31
MtBE	1.013	17.77
EDB	1.034	17.41
1,2-DCA	1.021	17.63

Simulation Points for Breakthrough Curves

x	0	ft
y	0	ft
z	0	ft

x	0	ft
y	0	ft
z	0	ft

$$C(x,y,z,t) = \left(\frac{C_0}{8}\right)\exp\left[\left(\frac{x}{2\alpha_x}\right)\left(1-\sqrt{1+\frac{4\lambda\alpha_x}{v}}\right)\right] erfc\left[\frac{x-vt\sqrt{1+\frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}}\right]\left\{erf\left[\frac{y+\frac{Y}{2}}{2\sqrt{\alpha_y x}}\right]-erf\left[\frac{y-\frac{Y}{2}}{2\sqrt{\alpha_y x}}\right]\right\}\left\{erf\left[\frac{z+Z}{2\sqrt{\alpha_z x}}\right]-erf\left[\frac{z-Z}{2\sqrt{\alpha_z x}}\right]\right\}$$

Benzene Calibration

Spatial Calibration Data

(centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	8.63	8.63
22		4.128
44		1.828
66		0.830
88		0.386
110		0.183
132		0.088
154		0.042
176		0.021
198		0.010
220	0.005	0.005

Temporal Calibration Data

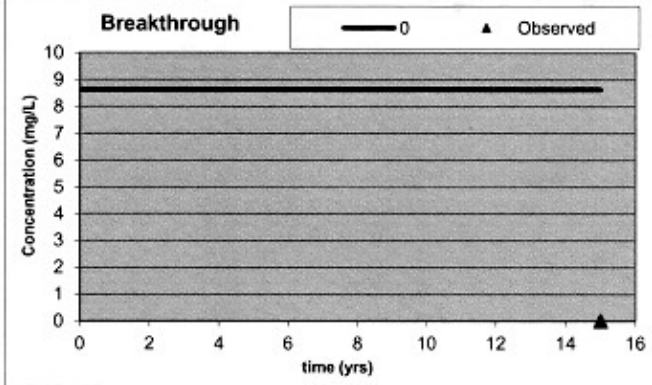
		0		0
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
0		8.63		8.63
1.5		8.630		8.630
3		8.630		8.630
4.5		8.630		8.630
6		8.630		8.630
7.5		8.630		8.630
9		8.630		8.630
10.5		8.630		8.630
12		8.630		8.630
13.5		8.630		8.630
15	0.0091	8.630		8.630

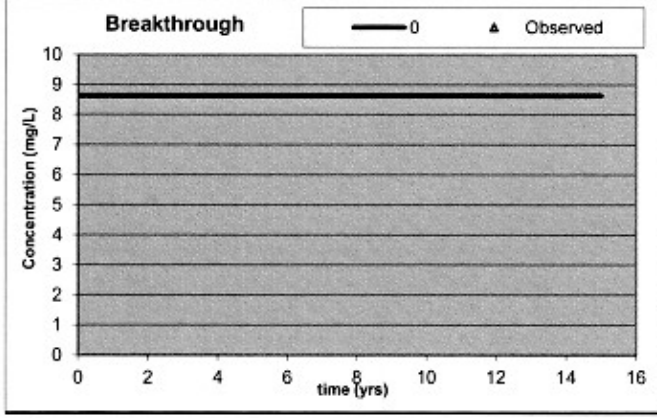
Site ID 19440

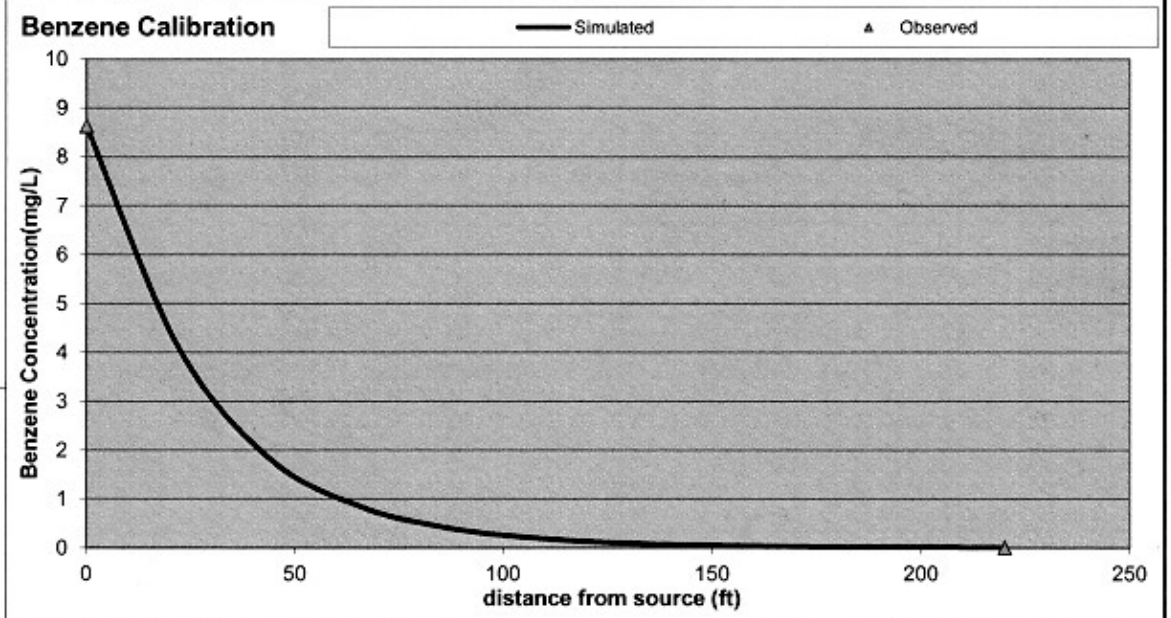
Site Name McGill Grocery

Model Calibration Parameters

$t_{1/2}$	0.95	yrs	λ	0.72947	yr^{-1}
v_x	18	ft/yr			
R	1.097				
v_R	16.405	ft/yr	C_{source}	8.63	mg/L
L_p	400	ft			
α_x	16.06461	ft	t_{sim}	15	yrs
α_y	1.606461	ft			
α_z	1E-99	ft			







Source	22	44	66	88	110	132	154	176	198	220
0	4.12823058	1.82763321	0.83032633	0.38640559	0.18296748	0.0877409	0.042478	0.020716	0.010161	0.005006
0	4.12823058	1.82763321	0.83032633	0.38640559	0.18296748	0.0877409	0.042478	0.020716	0.010161	0.005006
0	4.12823058	1.82763321	0.83032633	0.38640559	0.18296748	0.0877409	0.042478	0.020716	0.010161	0.005006
0	4.12823058	1.82763321	0.83032633	0.38640559	0.18296748	0.0877409	0.042478	0.020716	0.010161	0.005006
0	4.12823058	1.82763321	0.83032633	0.38640559	0.18296748	0.0877409	0.042478	0.020716	0.010161	0.005006

Toluene Calibration

Spatial Calibration Data

(centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	96.4	96.4
22		35.973
44		12.423
66		4.403
88		1.598
110		0.590
132		0.221
154		0.083
176		0.032
198		0.012
220	0.005	0.005

Temporal Calibration Data

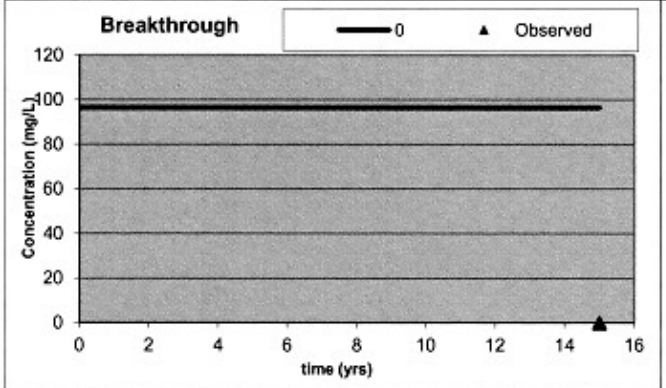
	0		0	
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
0		96.4		96.4
1.5		96.400		96.400
3		96.400		96.400
4.5		96.400		96.400
6		96.400		96.400
7.5		96.400		96.400
9		96.400		96.400
10.5		96.400		96.400
12		96.400		96.400
13.5		96.400		96.400
15	0.005	96.400		96.400

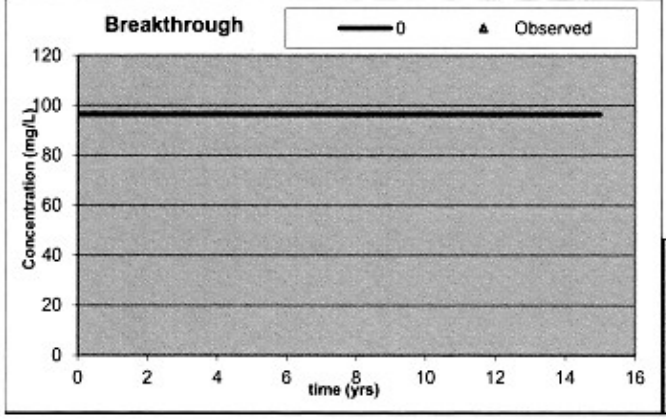
Site ID 19440

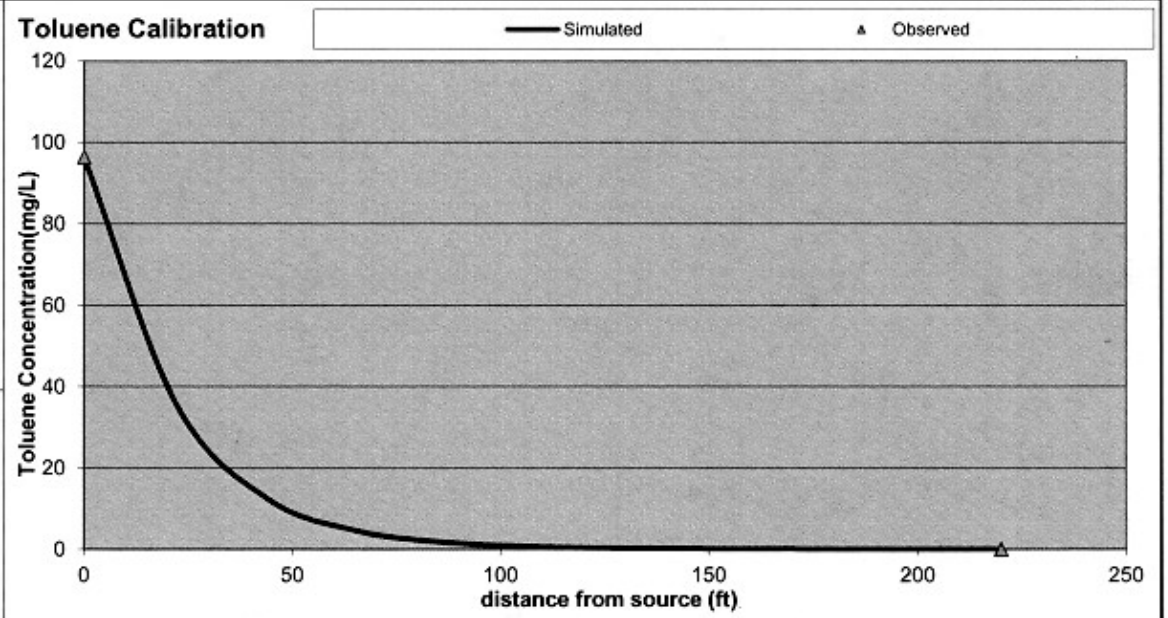
Site Name McGill Grocery

Model Calibration Parameters

$t_{1/2}$	0.65	yrs	λ	1.06615	yr^{-1}
v_x	18	ft/yr			
R	1.160				
v_R	15.523	ft/yr	C_{source}	96.4	mg/L
L_p	400	ft			
α_x	16.06461	ft	t_{sim}	15	yrs
α_y	1.606461	ft			
α_z	1E-99	ft			







Source	22	44	66	88	110	132	154	176	198	220
0	35.9725372	12.4233044	4.40289311	1.59836097	0.59040503	0.2208665	0.083418	0.031741	0.012149	0.004673
0	35.9725372	12.4233044	4.40289311	1.59836097	0.59040503	0.2208665	0.083418	0.031741	0.012149	0.004673
0	35.9725372	12.4233044	4.40289311	1.59836097	0.59040503	0.2208665	0.083418	0.031741	0.012149	0.004673
0	35.9725372	12.4233044	4.40289311	1.59836097	0.59040503	0.2208665	0.083418	0.031741	0.012149	0.004673
0	35.9725372	12.4233044	4.40289311	1.59836097	0.59040503	0.2208665	0.083418	0.031741	0.012149	0.004673

Ethylbenzene Calibration

Spatial Calibration Data (centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	3.98	3.98
22		2.068
44		0.995
66		0.491
88		0.248
110		0.128
132		0.066
154		0.035
176		0.018
198		0.010
220	0.005	0.005

Temporal Calibration Data

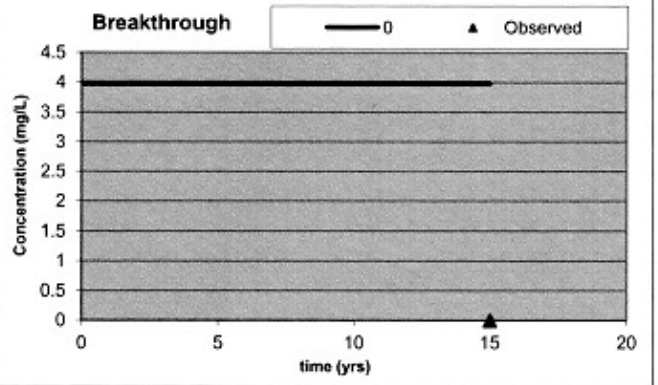
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
	0		0	
0		3.98		3.98
1.5		3.980		3.980
3		3.980		3.980
4.5		3.980		3.980
6		3.980		3.980
7.5		3.980		3.980
9		3.980		3.980
10.5		3.980		3.980
12		3.980		3.980
13.5		3.980		3.980
15	0.0011	3.980		3.980

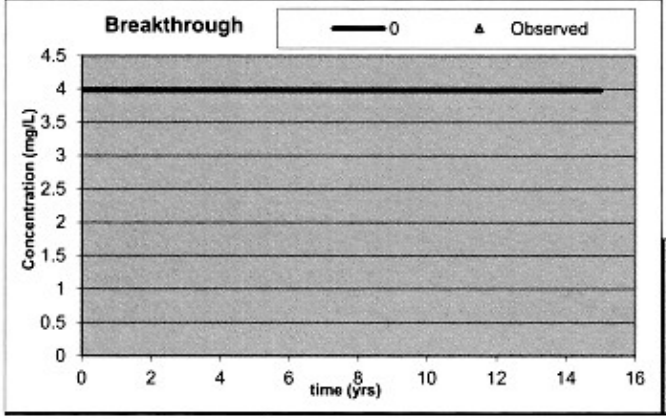
Site ID 19440

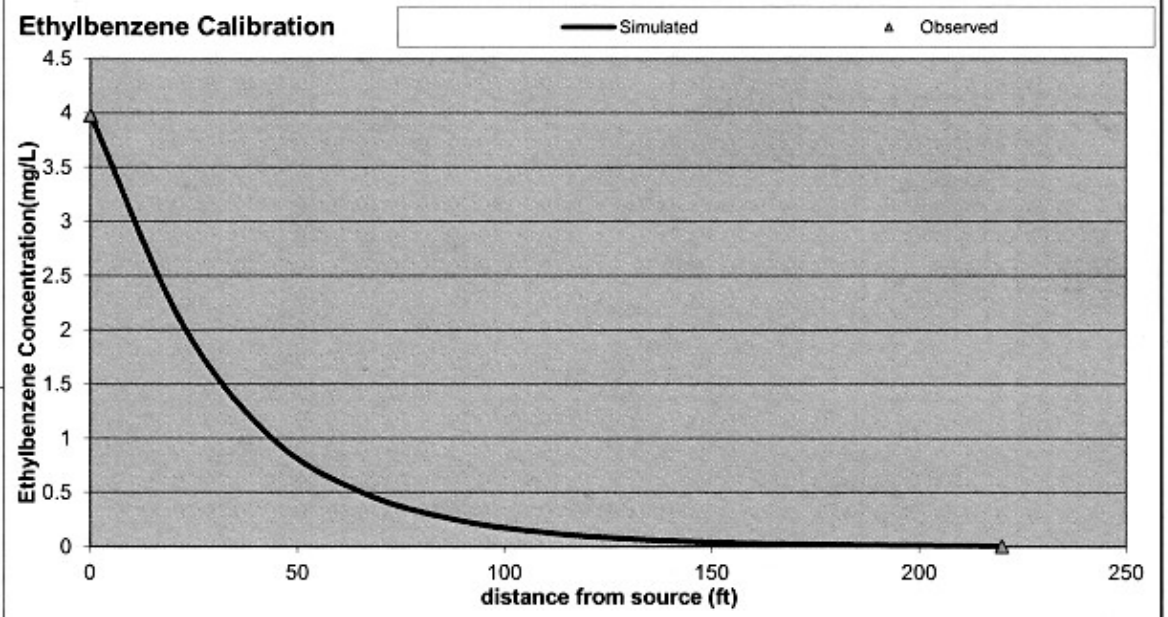
Site Name McGill Grocery

Model Calibration Parameters

$t_{1/2}$	1.25	yrs	λ	0.5544	yr^{-1}
v_x	18	ft/yr			
R	1.211				
v_R	14.861	ft/yr	C_{source}	3.98	mg/L
L_p	400	ft			
α_x	16.06461	ft	t_{sim}	15	yrs
α_y	1.606461	ft			
α_z	1E-99	ft			







Source	22	44	66	88	110	132	154	176	198	220
0	2.06811998	0.99457863	0.49083202	0.24811306	0.12760626	0.0664538	0.034926	0.018477	0.009817	0.005226
0	2.06811998	0.99457863	0.49083202	0.24811306	0.12760626	0.0664538	0.034926	0.018477	0.009817	0.005226
0	2.06811998	0.99457863	0.49083202	0.24811306	0.12760626	0.0664538	0.034926	0.018477	0.009817	0.005226
0	2.06811998	0.99457863	0.49083202	0.24811306	0.12760626	0.0664538	0.034926	0.018477	0.009817	0.005226
0	2.06811998	0.99457863	0.49083202	0.24811306	0.12760626	0.0664538	0.034926	0.018477	0.009817	0.005226

Xylenes Calibration

Spatial Calibration Data (centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	24.9	24.9
22		11.592
44		4.994
66		2.208
88		0.999
110		0.460
132		0.214
154		0.100
176		0.047
198		0.022
220	0.01	0.010

Temporal Calibration Data

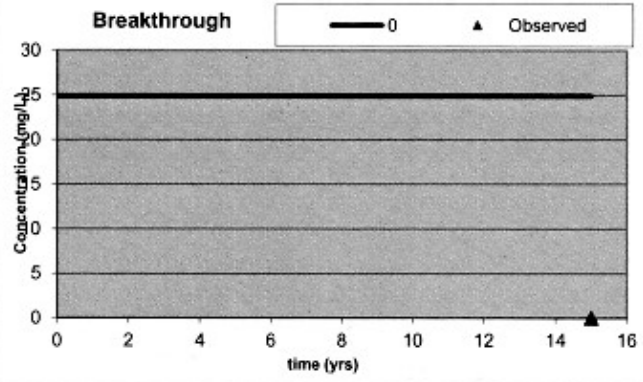
	0		0	
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
0		24.9		24.9
1.5		24.900		24.900
3		24.900		24.900
4.5		24.900		24.900
6		24.900		24.900
7.5		24.900		24.900
9		24.900		24.900
10.5		24.900		24.900
12		24.900		24.900
13.5		24.900		24.900
15	0.0188	24.900		24.900

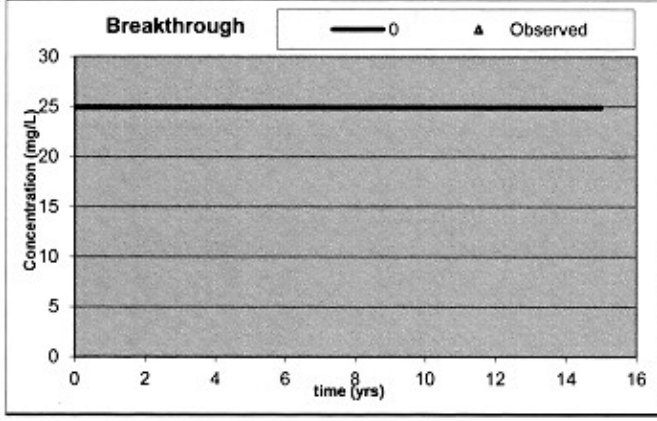
Site ID 19440

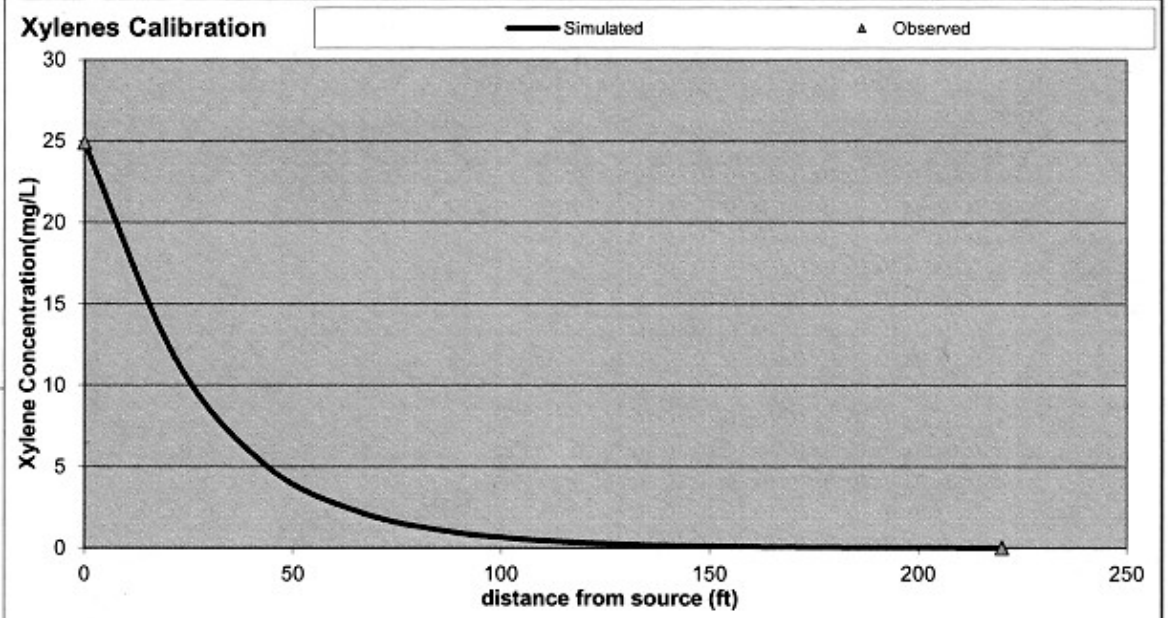
Site Name McGill Grocery

Model Calibration Parameters

$t_{1/2}$	1.45	yrs	λ	0.47793	yr^{-1}
v_x	18	ft/yr			
R	1.767				
v_R	10.188	ft/yr	C_{source}	24.9	mg/L
L_p	400	ft			
α_x	16.06461	ft	t_{sim}	15	yrs
α_y	1.606461	ft			
α_z	1E-99	ft			







Source	22	44	66	88	110	132	154	176	198	220
0	11.5920602	4.99431527	2.20781461	0.9993288	0.45978142	0.2137499	0.099861	0.046605	0.021573	0.009822
0	11.5920602	4.99431527	2.20781461	0.9993288	0.45978142	0.2137499	0.099861	0.046605	0.021573	0.009822
0	11.5920602	4.99431527	2.20781461	0.9993288	0.45978142	0.2137499	0.099861	0.046605	0.021573	0.009822
0	11.5920602	4.99431527	2.20781461	0.9993288	0.45978142	0.2137499	0.099861	0.046605	0.021573	0.009822
0	11.5920602	4.99431527	2.20781461	0.9993288	0.45978142	0.2137499	0.099861	0.046605	0.021573	0.009822

EDB Calibration

Spatial Calibration Data (centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	0.002	0.00200
22		0.00119
44		0.00066
66		0.00037
88		0.00021
110		0.00013
132		0.00008
154		0.00005
176		0.00003
198		0.00002
220	0.000019	0.00001

Temporal Calibration Data

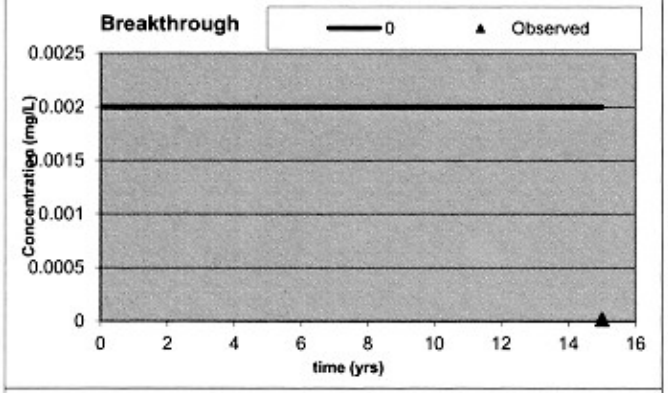
	0		0	
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
0		0.00200		0.00200
1.5		0.00200		0.00200
3		0.00200		0.00200
4.5		0.00200		0.00200
6		0.00200		0.00200
7.5		0.00200		0.00200
9		0.00200		0.00200
10.5		0.00200		0.00200
12		0.00200		0.00200
13.5		0.00200		0.00200
15	0.000019	0.00200		0.00200

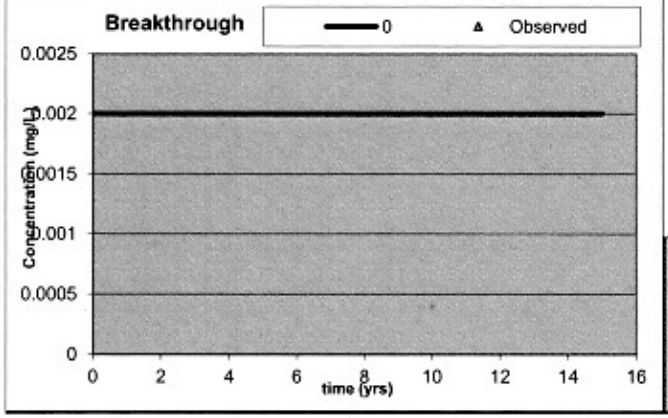
Site ID 19440

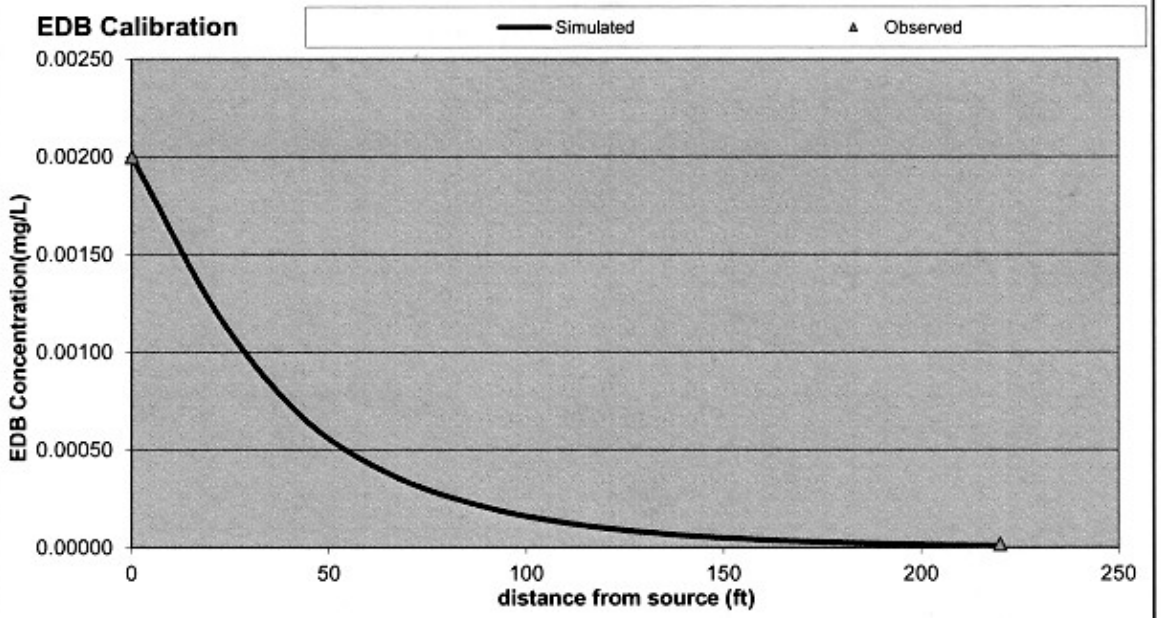
Site Name McGill Grocery

Model Calibration Parameters

$t_{1/2}$	1.5	yrs	λ	0.462	yr^{-1}
v_x	18	ft/yr			
R	1.034				
v_R	17.415	ft/yr	C_{source}	0.002	mg/L
L_p	400	ft			
α_x	16.06461	ft	t_{sim}	15	yrs
α_y	1.606461	ft			
α_z	1E-99	ft			







Source	22	44	66	88	110	132	154	176	198	220
0	0.00119059	0.00065594	0.00037085	0.00021476	0.00012653	7.549E-05	4.54E-05	2.75E-05	1.68E-05	1.02E-05
0	0.00119059	0.00065594	0.00037085	0.00021476	0.00012653	7.549E-05	4.54E-05	2.75E-05	1.68E-05	1.02E-05
0	0.00119059	0.00065594	0.00037085	0.00021476	0.00012653	7.549E-05	4.54E-05	2.75E-05	1.68E-05	1.02E-05
0	0.00119059	0.00065594	0.00037085	0.00021476	0.00012653	7.549E-05	4.54E-05	2.75E-05	1.68E-05	1.02E-05
0	0.00119059	0.00065594	0.00037085	0.00021476	0.00012653	7.549E-05	4.54E-05	2.75E-05	1.68E-05	1.02E-05

UST Permit # 19440
Site Name: McGill Grocery

SSTLs t 1000 yrs

Shallow DCA Model

SSTLs in mg/L		RBSLs (mg/L):									0.005
MW #	x (ft)	y (ft)	z (ft)								1,2-DCA SSTL
MW-1	270	0	0								14377.233
MW-2	255	0	0								6460.483
MW-3	280	0	0								24488.779
MW-4	250	0	0								4946.826
MW-11	220	0	0								993.336
RW-1	270	0	0								14377.233
RW-2	275	0	0								18765.119
			λ (yr^{-1}):								1.386
			R:								1.021
			Pure Substance Solubility:								8520
			Effective Solubility:								3.7

Used 5/5/09 Sampling Data

Domenico Model

UST # 19440
Site Name: McGill Grocery
Modeler: Ashleigh Thrash
Date: 5/13/2015

Groundwater Flow Parameters

K	70	ft/yr
dh/dx	0.1	
θ	0.25	dec. %
v_x	15	ft/yr

Transport Parameters

x_{max}	80	ft
y_{max}	0	ft
z	0	ft
Source Width	30	ft
Source Thickness	15	ft
Plume Length	400	ft
α_x	16.06461	ft
α_y	1.606461	ft
α_z	1.00E-99	ft

Simulation Time

t_{sim} 15 yrs

Aquifer Characteristics

ρ_d	1.5	kg/L
f_{oc}	0.0002	

Source Area CoC Data

CoC	C_{source} (mg/L)	K_{oc} (L/kg)
Benzene		81
Toluene		133
Ethylbenzene		176
Xylenes		639
Naphthalene		1543
MtBE		11
EDB		28
1,2-DCA	0.5	17.5

Retarded Velocity (ft/yr)

CoC	R	v_R
Benzene	1.097	13.67
Toluene	1.160	12.94
Ethylbenzene	1.211	12.38
Xylenes	1.767	8.49
Naphthalene	2.852	5.26
MtBE	1.013	14.80
EDB	1.034	14.51
1,2-DCA	1.021	14.69

Simulation Points for Breakthrough Curves

x	0	ft
y	0	ft
z	0	ft

x	0	ft
y	0	ft
z	0	ft

$$C(x,y,z,t) = \left(\frac{C_0}{8}\right)\exp\left[\left(\frac{x}{2\alpha_x}\right)\left(1-\sqrt{1+\frac{4\lambda\alpha_x}{v}}\right)\right] erfc\left[\frac{x-vt\sqrt{1+\frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}}\right]\left\{erf\left[\frac{y+\frac{Y}{2}}{2\sqrt{\alpha_y x}}\right]-erf\left[\frac{y-\frac{Y}{2}}{2\sqrt{\alpha_y x}}\right]\right\}\left\{erf\left[\frac{z+Z}{2\sqrt{\alpha_z x}}\right]-erf\left[\frac{z-Z}{2\sqrt{\alpha_z x}}\right]\right\}$$

1,2-DCA Calibration

Spatial Calibration Data

(centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	0.5	0.5
8		0.330
16		0.211
24		0.132
32		0.083
40		0.052
48		0.032
56		0.020
64		0.013
72		0.008
80	0.005	0.005

Temporal Calibration Data

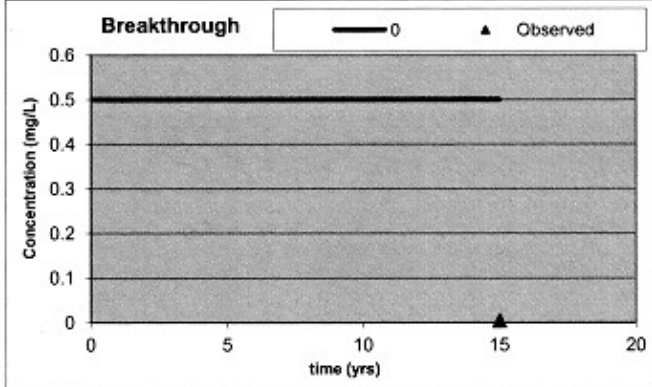
	0		0	
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
0		0.5		0.5
1.5		0.500		0.500
3		0.500		0.500
4.5		0.500		0.500
6		0.500		0.500
7.5		0.500		0.500
9		0.500		0.500
10.5		0.500		0.500
12		0.500		0.500
13.5		0.500		0.500
15	0.005	0.500		0.500

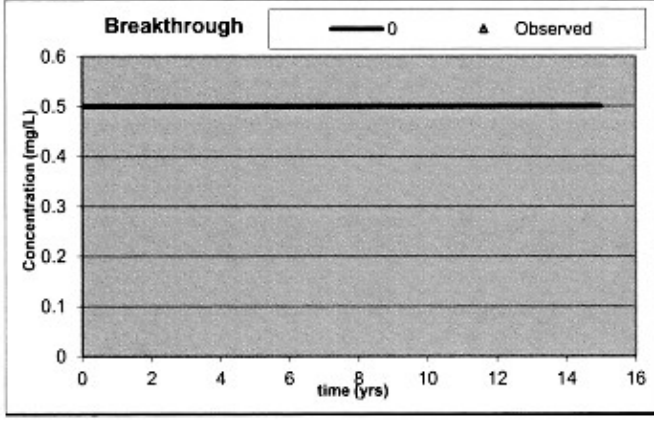
Site ID 19440

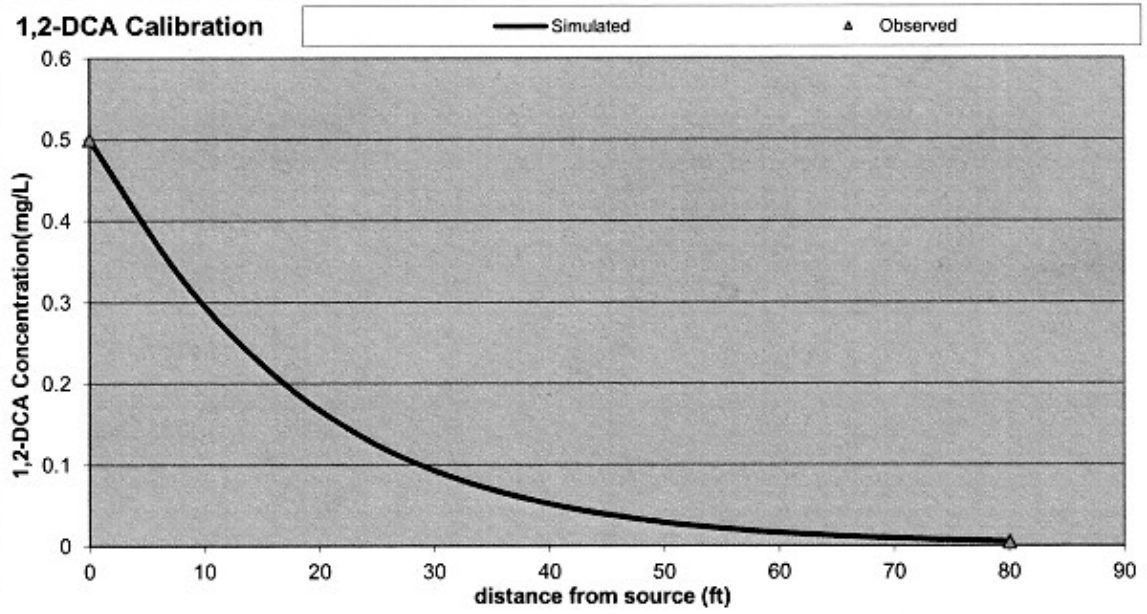
Site Name McGill Grocery

Model Calibration Parameters

$t_{1/2}$	0.5	yrs	λ	1.386	yr^{-1}
v_x	15	ft/yr			
R	1.021				
v_R	14.691	ft/yr	C_{source}	0.5	mg/L
L_p	400	ft			
α_x	16.06461	ft	t_{sim}	15	yrs
α_y	1.606461	ft			
α_z	1E-99	ft			







Source	8	16	24	32	40	48	56	64	72	80
0	0.3299073	0.21104978	0.13226717	0.08260583	0.05170579	0.0324855	0.02049	0.01297	0.008237	0.005247
0	0.3299073	0.21104978	0.13226717	0.08260583	0.05170579	0.0324855	0.02049	0.01297	0.008237	0.005247
0	0.3299073	0.21104978	0.13226717	0.08260583	0.05170579	0.0324855	0.02049	0.01297	0.008237	0.005247
0	0.3299073	0.21104978	0.13226717	0.08260583	0.05170579	0.0324855	0.02049	0.01297	0.008237	0.005247
0	0.3299073	0.21104978	0.13226717	0.08260583	0.05170579	0.0324855	0.02049	0.01297	0.008237	0.005247

SSTLs t 1000 yrs

UST Permit # 19440
Site Name: McGill Grocery

Shallow MtBE + Napth Model

SSTLs in mg/L		RBSLs (mg/L):						0.040	0.025		
MW #	x (ft)	y (ft)	z (ft)					MtBE SSTL	Naphthalene SSTL		
MW-1	270	0	0					5777.021	1962.204		
MW-2	255	0	0					3065.235	1077.004		
MW-3	280	0	0					8808.103	2924.918		
MW-4	250	0	0					2480.745	881.536		
MW-11	220	0	0					694.531	264.105		
RW-1	270	0	0					5777.021	1962.204		
RW-2	275	0	0					7133.839	2395.847		
			λ (yr^{-1}):					0.660	0.217		
			R:					1.013	2.852		
			Pure Substance Solubility:					5110	31		
			Effective Solubility:					173	6.7		

Used 7/28/10 Sampling Data

Domenico Model

UST # 19440
Site Name: McGill Grocery
Modeler: Ashleigh Thrash
Date: 5/13/2015

Groundwater Flow Parameters

K	70	ft/yr
dh/dx	0.1	
θ	0.25	dec. %
v_x	10	ft/yr

Transport Parameters

x_{max}	185	ft
y_{max}	0	ft
z	0	ft
Source Width	30	ft
Source Thickness	15	ft
Plume Length	400	ft
α_x	16.06461	ft
α_y	1.606461	ft
α_z	1.00E-99	ft

Simulation Time

t_{sim} 15 yrs

Aquifer Characteristics

ρ_d	1.5	kg/L
f_{oc}	0.0002	

Source Area CoC Data

CoC	C_{source} (mg/L)	K_{oc} (L/kg)
Benzene		81
Toluene		133
Ethylbenzene		176
Xylenes		639
Naphthalene	253	1543
MtBE	32.7	11
EDB		28
1,2-DCA		17.5

Retarded Velocity (ft/yr)

CoC	R	v_R
Benzene	1.097	9.11
Toluene	1.160	8.62
Ethylbenzene	1.211	8.26
Xylenes	1.767	5.66
Naphthalene	2.852	3.51
MtBE	1.013	9.87
EDB	1.034	9.67
1,2-DCA	1.021	9.79

Simulation Points for Breakthrough Curves

x	0	ft
y	0	ft
z	0	ft

x	0	ft
y	0	ft
z	0	ft

$$C(x,y,z,t) = \left(\frac{C_0}{8}\right)\exp\left[\left(\frac{x}{2\alpha_x}\right)\left(1-\sqrt{1+\frac{4\lambda\alpha_x}{v}}\right)\right] erfc\left[\frac{x-vt\sqrt{1+\frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}}\right]\left\{erf\left[\frac{y+\frac{Y}{2}}{2\sqrt{\alpha_y x}}\right]-erf\left[\frac{y-\frac{Y}{2}}{2\sqrt{\alpha_y x}}\right]\right\}\left\{erf\left[\frac{z+Z}{2\sqrt{\alpha_z x}}\right]-erf\left[\frac{z-Z}{2\sqrt{\alpha_z x}}\right]\right\}$$

MtBE Calibration

Spatial Calibration Data

(centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	32.7	32.7
18.5		14.656
37		6.071
55.5		2.550
74		1.092
92.5		0.475
111		0.209
129.5		0.093
148		0.041
166.5		0.018
185	0.008	0.008

Temporal Calibration Data

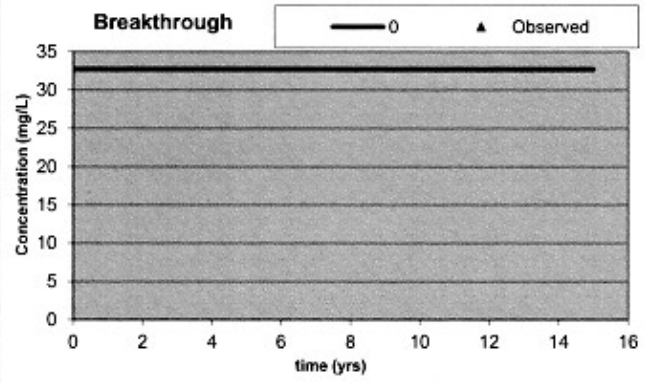
		0		0
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
0		32.7		32.7
1.5		32.700		32.700
3		32.700		32.700
4.5		32.700		32.700
6		32.700		32.700
7.5		32.700		32.700
9		32.700		32.700
10.5		32.700		32.700
12		32.700		32.700
13.5		32.700		32.700
15		32.700		32.700

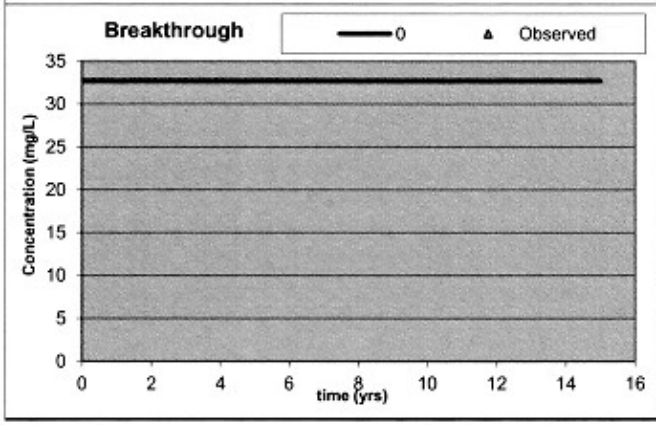
Site ID 19440

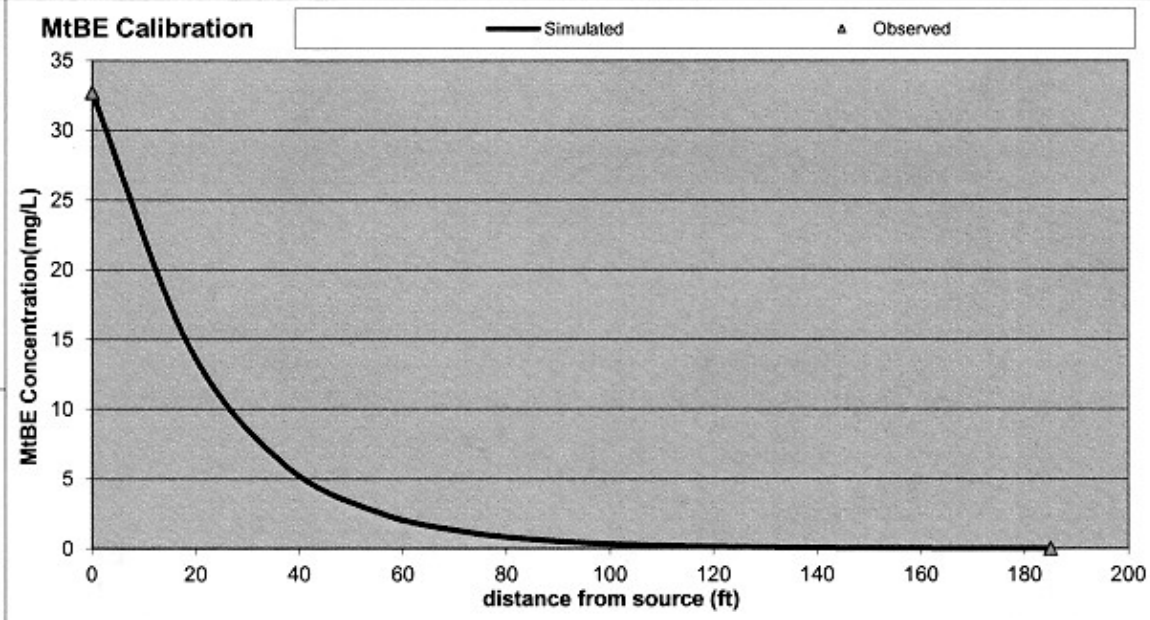
Site Name McGill Grocery

Model Calibration Parameters

$t_{1/2}$	1.05	yrs	λ	0.66	yr^{-1}
v_x	10	ft/yr			
R	1.013				
v_R	9.870	ft/yr	C_{source}	32.7	mg/L
L_p	400	ft			
α_x	16.06461	ft	t_{sim}	15	yrs
α_y	1.606461	ft			
α_z	1E-99	ft			







Source	18.5	37	55.5	74	92.5	111	129.5	148	166.5	185
0	14.6562466	6.07101257	2.55031437	1.09219381	0.47483265	0.2087754	0.092571	0.041298	0.018496	0.008297
0	14.6562466	6.07101257	2.55031437	1.09219381	0.47483265	0.2087754	0.092571	0.041298	0.018496	0.008297
0	14.6562466	6.07101257	2.55031437	1.09219381	0.47483265	0.2087754	0.092571	0.041298	0.018496	0.008297
0	14.6562466	6.07101257	2.55031437	1.09219381	0.47483265	0.2087754	0.092571	0.041298	0.018496	0.008297
0	14.6562466	6.07101257	2.55031437	1.09219381	0.47483265	0.2087754	0.092571	0.041298	0.018496	0.008297

Naphthalene Calibration

Spatial Calibration Data

(centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	253	253
18.5		117.270
37		49.765
55.5		20.879
74		8.526
92.5		3.289
111		1.164
129.5		0.368
148		0.102
166.5		0.024
185	0.005	0.005

Temporal Calibration Data

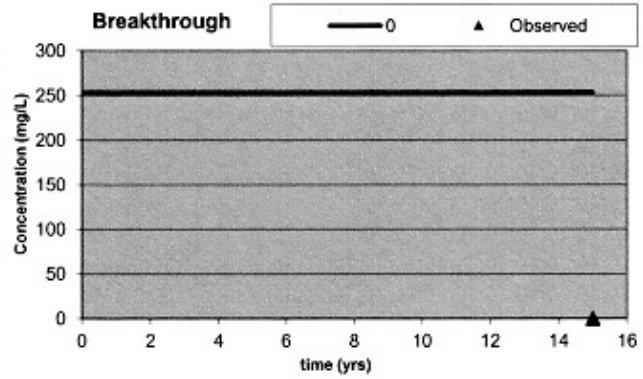
	0		0	
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
0		253		253
1.5		253.000		253.000
3		253.000		253.000
4.5		253.000		253.000
6		253.000		253.000
7.5		253.000		253.000
9		253.000		253.000
10.5		253.000		253.000
12		253.000		253.000
13.5		253.000		253.000
15	0.0033	253.000		253.000

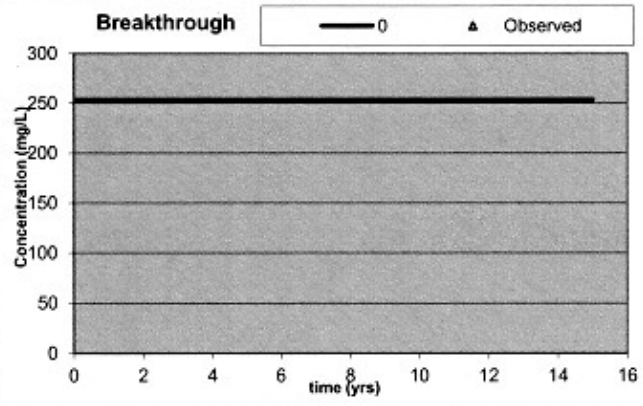
Site ID 19440

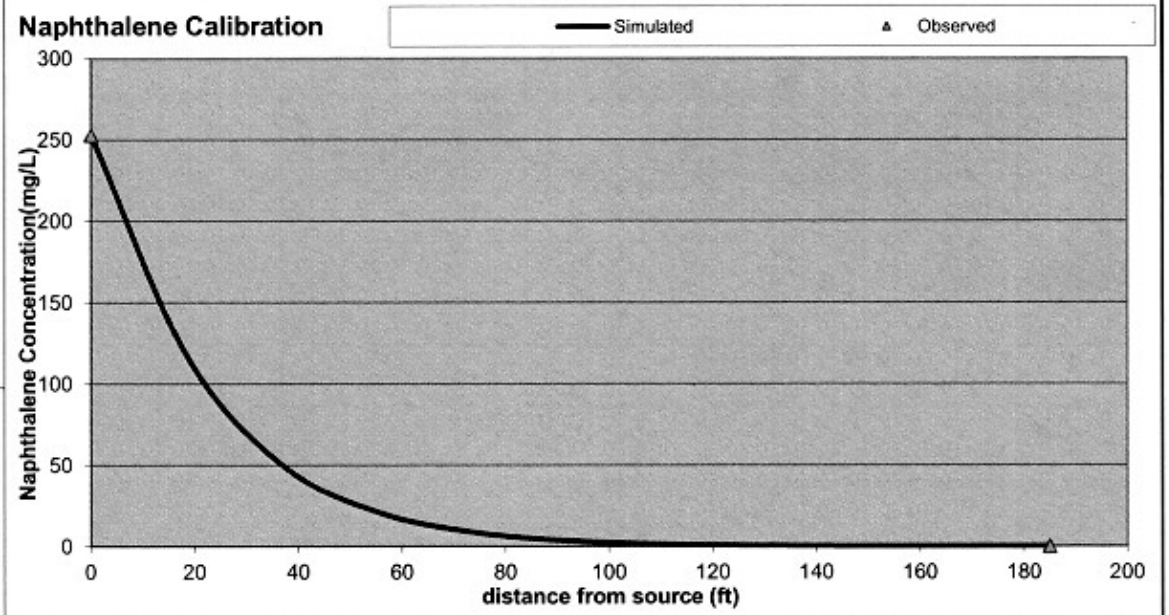
Site Name McGill Grocery

Model Calibration Parameters

$t_{1/2}$	3.2	yrs	λ	0.21656	yr^{-1}
v_x	10	ft/yr			
R	2.852				
v_R	3.507	ft/yr	C_{source}	253	mg/L
L_p	400	ft			
α_x	16.06461	ft	t_{sim}	15	yrs
α_y	1.606461	ft			
α_z	1E-99	ft			







Source	18.5	37	55.5	74	92.5	111	129.5	148	166.5	185
0	117.270176	49.7651208	20.8788014	8.52582354	3.28924647	1.1636339	0.367765	0.101683	0.024204	0.004901
0	117.270176	49.7651208	20.8788014	8.52582354	3.28924647	1.1636339	0.367765	0.101683	0.024204	0.004901
0	117.270176	49.7651208	20.8788014	8.52582354	3.28924647	1.1636339	0.367765	0.101683	0.024204	0.004901
0	117.270176	49.7651208	20.8788014	8.52582354	3.28924647	1.1636339	0.367765	0.101683	0.024204	0.004901
0	117.270176	49.7651208	20.8788014	8.52582354	3.28924647	1.1636339	0.367765	0.101683	0.024204	0.004901

SSTLs t 1000 yrs

UST Permit # 19440
Site Name: McGill Grocer

Shallow Oxys

SSTLs in mg/L			RBSLs (mg/L):	1.400	0.240	0.150	0.128	10.000	0.047
MW #	x (ft)	y (ft)	z (ft)	tBA SSTL	tAA SSTL	DIPE SSTL	tAME SSTL	Ethanol SSTL	EtBE SSTL
MW-1	270	0	0	4623.096	792.531	2532.253	405.511	32913.188	148.898
MW-2	255	0	0	3025.871	518.721	1513.761	266.024	21546.025	97.681
MW-3	280	0	0	6128.293	1050.564	3565.813	536.713	43623.794	197.074
MW-4	250	0	0	2626.362	450.233	1274.791	231.078	18702.427	84.849
MW-11	220	0	0	1118.870	191.806	453.033	98.897	7970.442	36.314
RW-1	270	0	0	4623.096	792.531	2532.253	405.511	32913.188	148.898
RW-2	275	0	0	5323.120	912.535	3005.128	466.554	37894.554	171.313
			λ (yr^{-1}):	0.378	0.378	0.495	0.375	0.378	0.375
			R:	1.001	1.001	1.002	1.002	1.001	1.002

Used 2/23/11 Sampling data

Domenico Model (Oxygenates)

UST # 19440
Site Name: McGill Grocery
Modeler: Ashleigh Thrash
Date: 5/13/2015

Groundwater Flow Parameters

K	500	ft/yr
dh/dx	0.01	
θ	0.25	dec. %
v_x	10	ft/yr

Transport Parameters

x_{max}	220	ft
y_{max}		ft
z	0	ft
Source Width	30	ft
Source Thickness	15	ft
Plume Length	400	ft
α_x	16.06461	ft
α_y	1.606461	ft
α_z	1.00E-99	ft

Simulation Time

t_{sim} 15 yrs

Aquifer Characteristics

ρ_d	1.5	kg/L
f_{oc}	0.0002	

Source Area CoC Data

CoC	C_{source} (mg/L)	K_{oc} (L/kg)
tBA	100	1
tAA	100	1
DIPE	17	1.5
tAME	10	1.5
EtBE	10	1.5
Ethanol	200	0.5

Retarded Velocity (ft/yr)

CoC	R	v_R
tBA	1.001	9.99
tAA	1.001	9.99
DIPE	1.002	9.98
tAME	1.002	9.98
EtBE	1.002	9.98
Ethanol	1.001	9.99

Simulation Points for Breakthrough Curves

x	0	ft
y	0	ft
z	0	ft

x	0	ft
y	0	ft
z	0	ft

$$C(x,y,z,t) = \left(\frac{C_0}{8}\right)\exp\left[\left(\frac{x}{2\alpha_x}\right)\left(1-\sqrt{1+\frac{4\lambda\alpha_x}{v}}\right)\right] erfc\left[\frac{x-vt\sqrt{1+\frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}}\right]\left\{erf\left[\frac{y+\frac{Y}{2}}{2\sqrt{\alpha_y x}}\right]-erf\left[\frac{y-\frac{Y}{2}}{2\sqrt{\alpha_y x}}\right]\right\}\left\{erf\left[\frac{z+Z}{2\sqrt{\alpha_z x}}\right]-erf\left[\frac{z-Z}{2\sqrt{\alpha_z x}}\right]\right\}$$

tBA Calibration

Spatial Calibration Data

(centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	100	100
22		51.645
44		24.681
66		12.098
88		6.067
110		3.087
132		1.582
154		0.811
176		0.412
198		0.205
220	0.1	0.100

Temporal Calibration Data

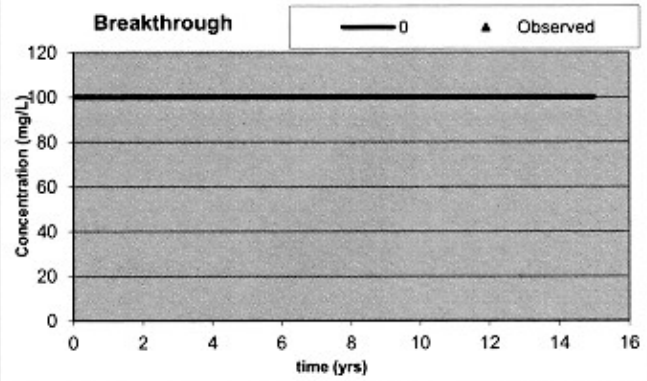
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	0 C_{obs} (mg/L)	0 C_{sim} (mg/L)
0		100		100
1.5		100.000		100.000
3		100.000		100.000
4.5		100.000		100.000
6		100.000		100.000
7.5		100.000		100.000
9		100.000		100.000
10.5		100.000		100.000
12		100.000		100.000
13.5		100.000		100.000
15		100.000		100.000

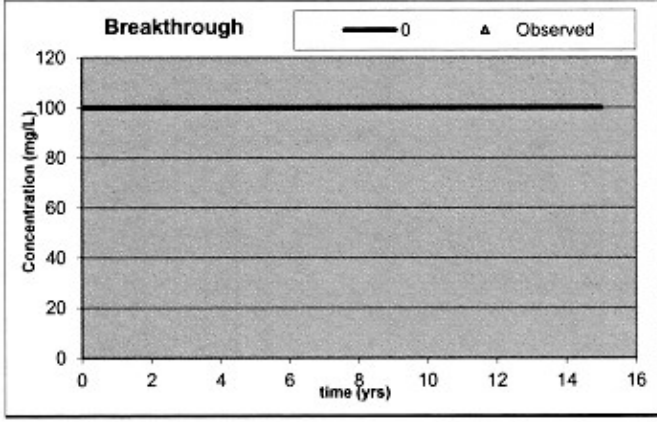
Site ID 19440

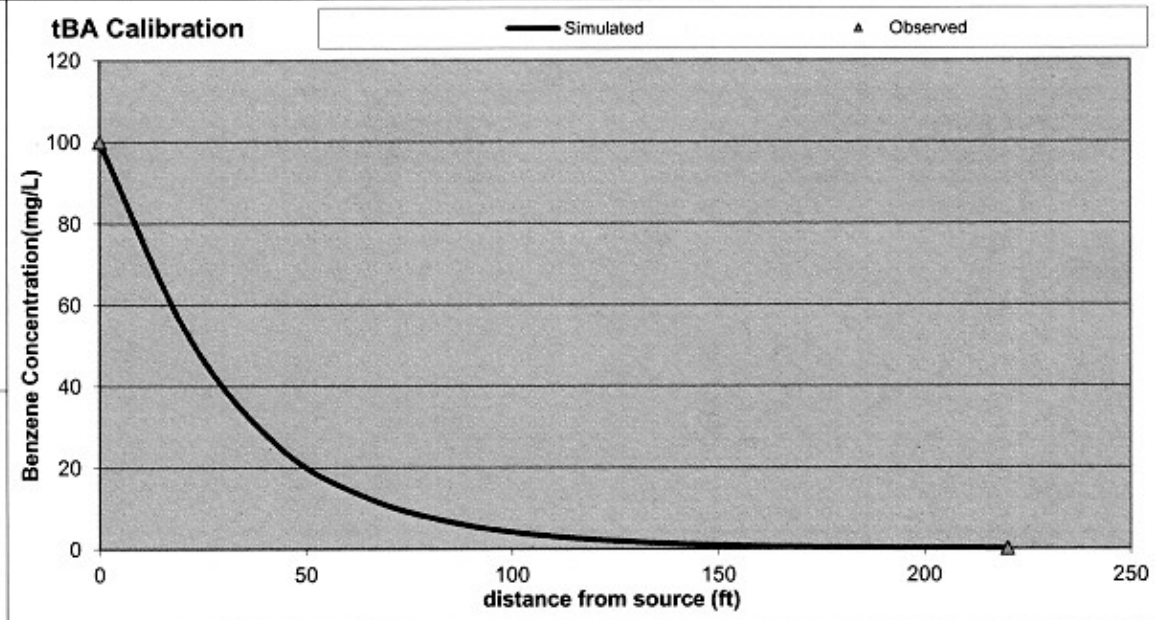
Site Name McGill Grocery

Model Calibration Parameters

$t_{1/2}$	1.835	yrs	λ	0.37766	yr^{-1}
v_x	10	ft/yr			
R	1.001				
v_R	9.988	ft/yr	C_{source}	100	mg/L
L_p	400	ft			
α_x	16.06461	ft	t_{sim}	15	yrs
α_y	1.606461	ft			
α_z	1E-99	ft			







Source	22	44	66	88	110	132	154	176	198	220
0	51.6447819	24.6807936	12.097852	6.06672154	3.08704587	1.5821692	0.810637	0.411753	0.205405	0.099627
0	51.6447819	24.6807936	12.097852	6.06672154	3.08704587	1.5821692	0.810637	0.411753	0.205405	0.099627
0	51.6447819	24.6807936	12.097852	6.06672154	3.08704587	1.5821692	0.810637	0.411753	0.205405	0.099627
0	51.6447819	24.6807936	12.097852	6.06672154	3.08704587	1.5821692	0.810637	0.411753	0.205405	0.099627
0	51.6447819	24.6807936	12.097852	6.06672154	3.08704587	1.5821692	0.810637	0.411753	0.205405	0.099627

tAA Calibration

Spatial Calibration Data (centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	100	100
22		51.645
44		24.681
66		12.098
88		6.067
110		3.087
132		1.582
154		0.811
176		0.412
198		0.205
220	0.1	0.100

Temporal Calibration Data

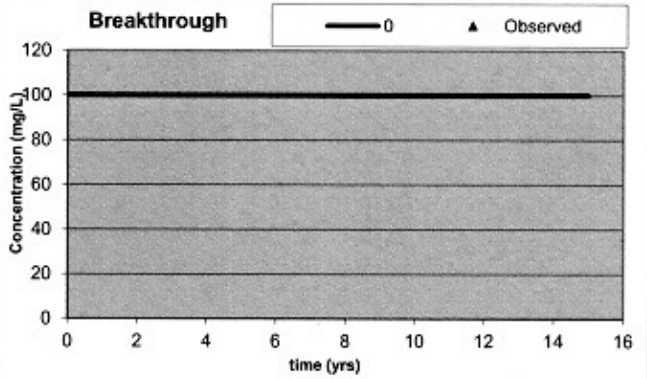
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	0 C_{obs} (mg/L)	0 C_{sim} (mg/L)
0		100		100
1.5		100.000		100.000
3		100.000		100.000
4.5		100.000		100.000
6		100.000		100.000
7.5		100.000		100.000
9		100.000		100.000
10.5		100.000		100.000
12		100.000		100.000
13.5		100.000		100.000
15		100.000		100.000

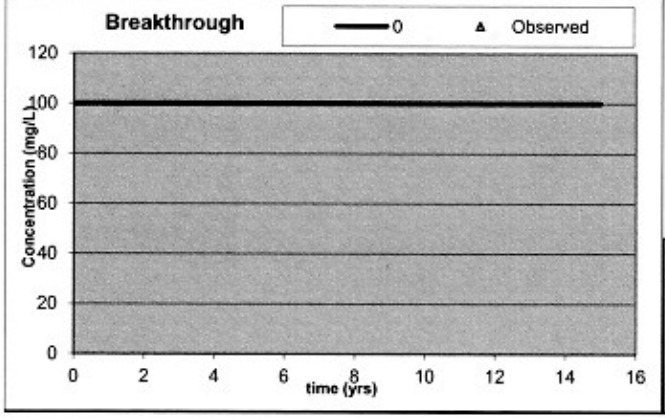
Site ID 19440

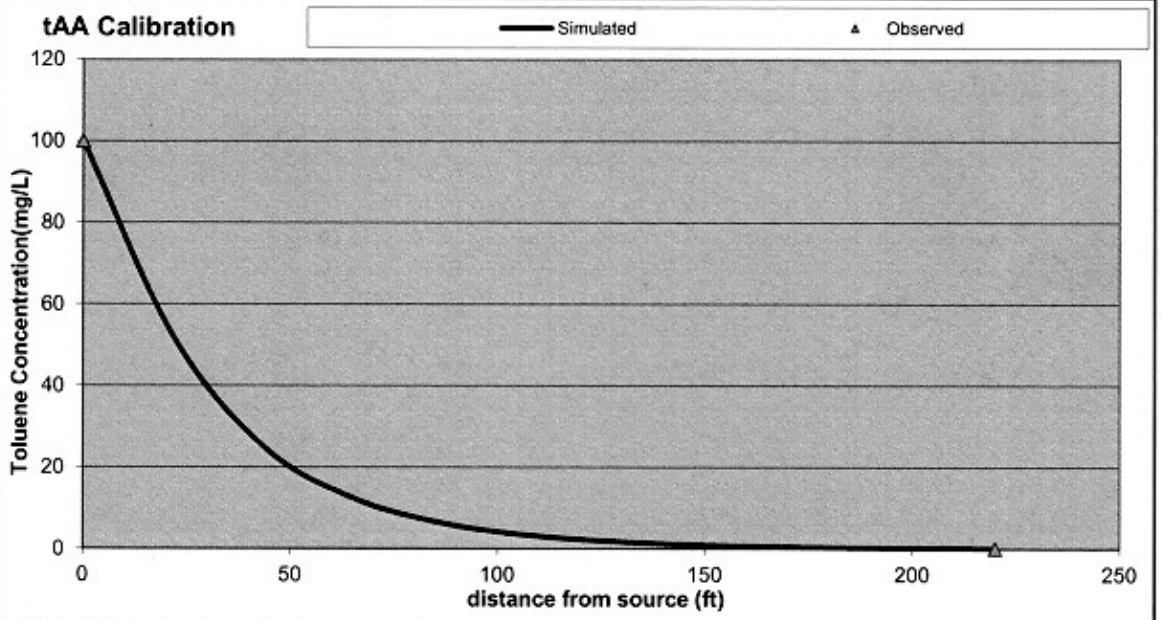
Site Name McGill Grocery

Model Calibration Parameters

$t_{1/2}$	1.835	yrs	λ	0.37766	yr^{-1}
v_x	10	ft/yr			
R	1.001				
v_R	9.988	ft/yr	C_{source}	100	mg/L
L_p	400	ft			
α_x	16.06461	ft	t_{sim}	15	yrs
α_y	1.606461	ft			
α_z	1E-99	ft			







Source	22	44	66	88	110	132	154	176	198	220
0	51.6447819	24.6807936	12.097852	6.06672154	3.08704587	1.5821692	0.810637	0.411753	0.205405	0.099627
0	51.6447819	24.6807936	12.097852	6.06672154	3.08704587	1.5821692	0.810637	0.411753	0.205405	0.099627
0	51.6447819	24.6807936	12.097852	6.06672154	3.08704587	1.5821692	0.810637	0.411753	0.205405	0.099627
0	51.6447819	24.6807936	12.097852	6.06672154	3.08704587	1.5821692	0.810637	0.411753	0.205405	0.099627
0	51.6447819	24.6807936	12.097852	6.06672154	3.08704587	1.5821692	0.810637	0.411753	0.205405	0.099627

DIPE Calibration

Spatial Calibration Data (centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	17	17
22		7.687
44		3.217
66		1.381
88		0.607
110		0.271
132		0.123
154		0.056
176		0.025
198		0.011
220	0.005	0.005

Temporal Calibration Data

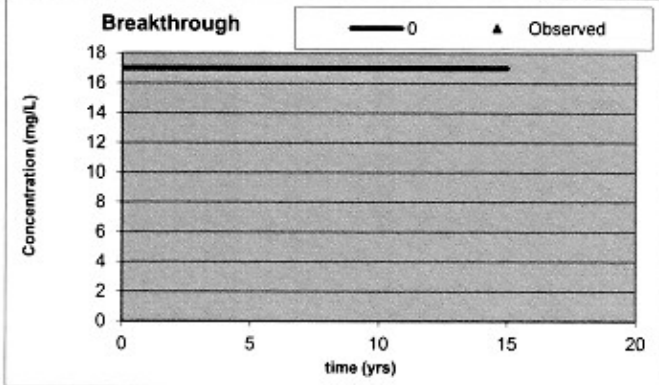
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
		0		0
0		17		17
1.5		17.000		17.000
3		17.000		17.000
4.5		17.000		17.000
6		17.000		17.000
7.5		17.000		17.000
9		17.000		17.000
10.5		17.000		17.000
12		17.000		17.000
13.5		17.000		17.000
15		17.000		17.000

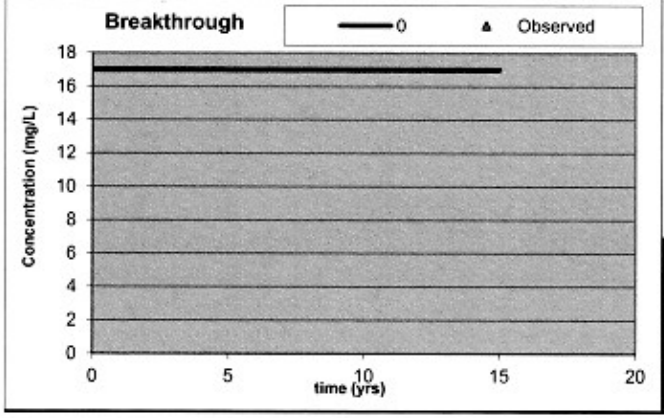
Site ID 19440

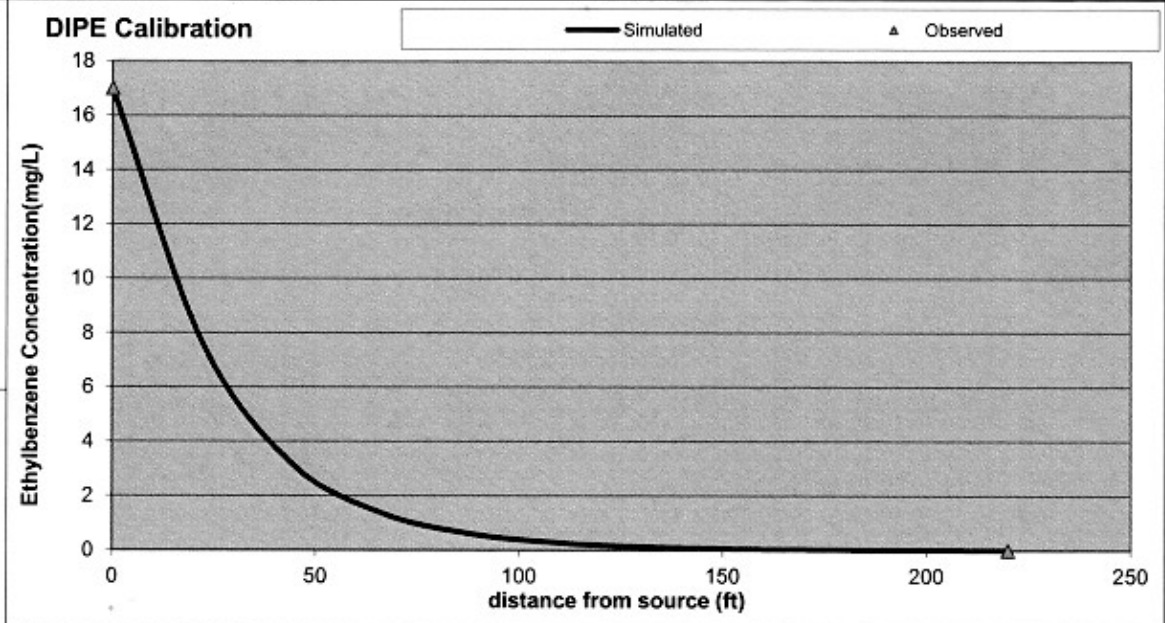
Site Name McGill Grocery

Model Calibration Parameters

$t_{1/2}$	1.4	yrs	λ	0.495	yr^{-1}
v_x	10	ft/yr			
R	1.002				
v_R	9.982	ft/yr	C_{source}	17	mg/L
L_p	400	ft			
α_x	16.06461	ft	t_{sim}	15	yrs
α_y	1.606461	ft			
α_z	1E-99	ft			







Source	22	44	66	88	110	132	154	176	198	220
0	7.68737327	3.21709064	1.38142418	0.60738767	0.2714773	0.1226212	0.055669	0.025251	0.011362	0.005029
0	7.68737327	3.21709064	1.38142418	0.60738767	0.2714773	0.1226212	0.055669	0.025251	0.011362	0.005029
0	7.68737327	3.21709064	1.38142418	0.60738767	0.2714773	0.1226212	0.055669	0.025251	0.011362	0.005029
0	7.68737327	3.21709064	1.38142418	0.60738767	0.2714773	0.1226212	0.055669	0.025251	0.011362	0.005029
0	7.68737327	3.21709064	1.38142418	0.60738767	0.2714773	0.1226212	0.055669	0.025251	0.011362	0.005029

tAME Calibration

Spatial Calibration Data

(centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	10	10
22		5.182
44		2.485
66		1.222
88		0.615
110		0.314
132		0.161
154		0.083
176		0.042
198		0.021
220	0.01	0.010

Temporal Calibration Data

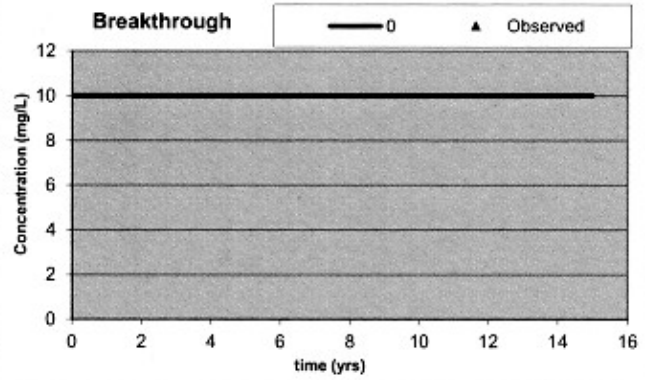
		0	0	
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
0		10		10
1.5		10.000		10.000
3		10.000		10.000
4.5		10.000		10.000
6		10.000		10.000
7.5		10.000		10.000
9		10.000		10.000
10.5		10.000		10.000
12		10.000		10.000
13.5		10.000		10.000
15		10.000		10.000

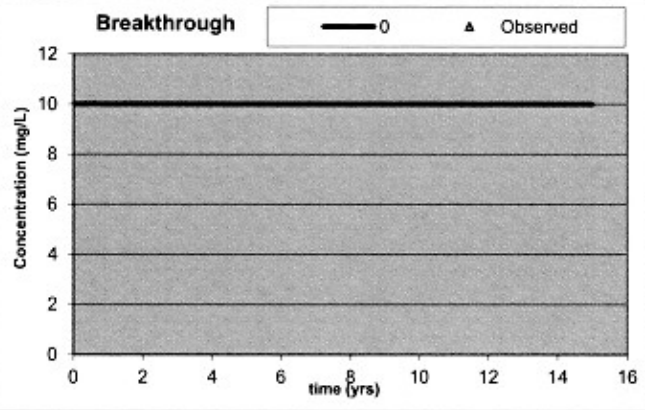
Site ID 19440

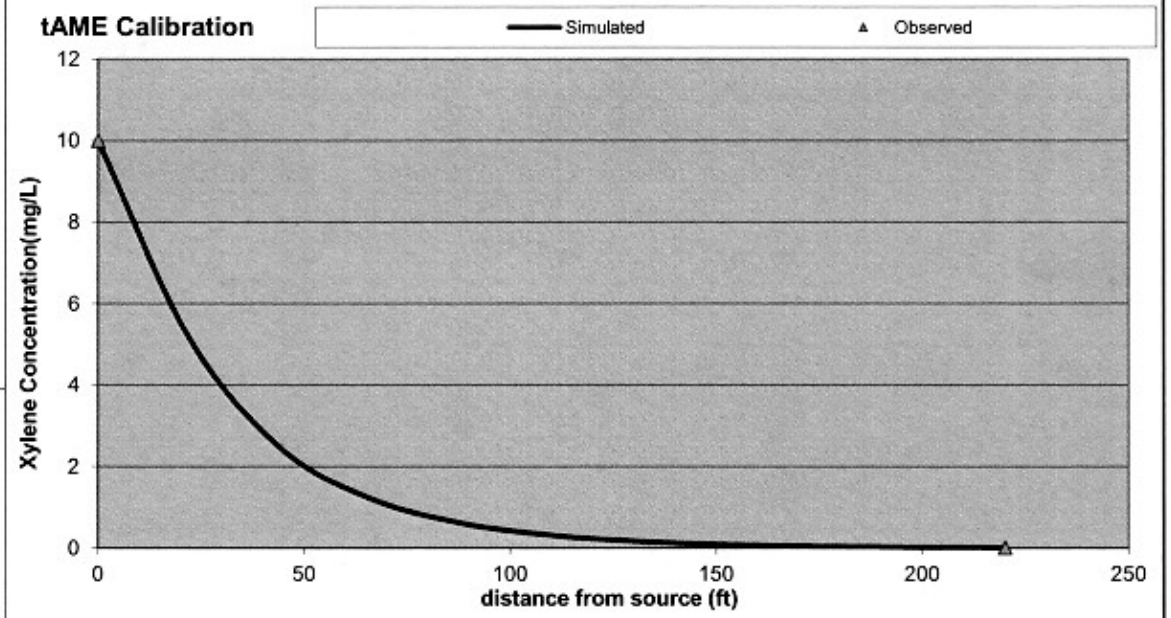
Site Name McGill Grocery

Model Calibration Parameters

$t_{1/2}$	1.85	yrs	λ	0.37459	yr^{-1}
v_x	10	ft/yr			
R	1.002				
v_R	9.982	ft/yr	C_{source}	10	mg/L
L_p	400	ft			
α_x	16.06461	ft	t_{sim}	15	yrs
α_y	1.606461	ft			
α_z	1E-99	ft			







Source	22	44	66	88	110	132	154	176	198	220
0	5.18193208	2.48477499	1.2220548	0.61485515	0.31387936	0.1613661	0.082915	0.042224	0.021111	0.010258
0	5.18193208	2.48477499	1.2220548	0.61485515	0.31387936	0.1613661	0.082915	0.042224	0.021111	0.010258
0	5.18193208	2.48477499	1.2220548	0.61485515	0.31387936	0.1613661	0.082915	0.042224	0.021111	0.010258
0	5.18193208	2.48477499	1.2220548	0.61485515	0.31387936	0.1613661	0.082915	0.042224	0.021111	0.010258
0	5.18193208	2.48477499	1.2220548	0.61485515	0.31387936	0.1613661	0.082915	0.042224	0.021111	0.010258

Ethanol Calibration

Spatial Calibration Data (centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	200	200
22		103.317
44		49.388
66		24.215
88		12.147
110		6.183
132		3.170
154		1.624
176		0.825
198		0.412
220	0.2	0.200

Temporal Calibration Data

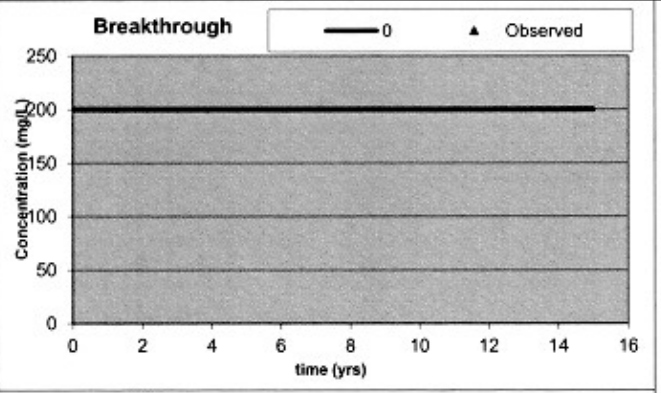
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
	0		0	
0		200		200
1.5		200.000		200.000
3		200.000		200.000
4.5		200.000		200.000
6		200.000		200.000
7.5		200.000		200.000
9		200.000		200.000
10.5		200.000		200.000
12		200.000		200.000
13.5		200.000		200.000
15		200.000		200.000

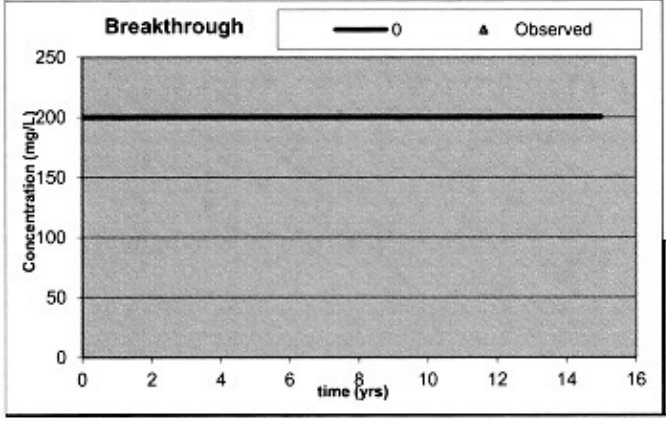
Site ID 19440

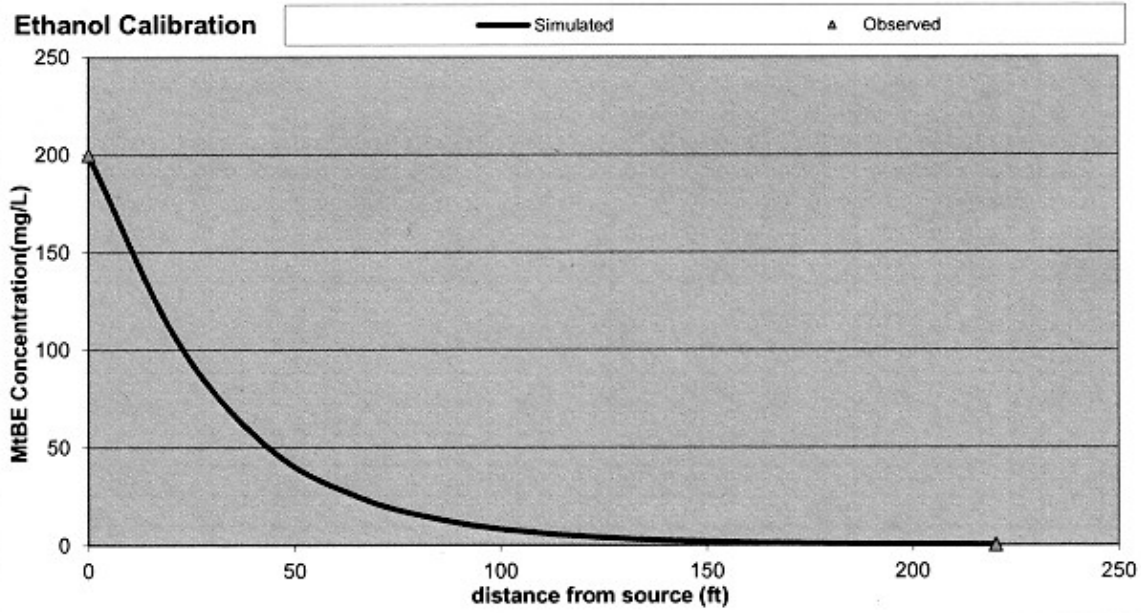
Site Name McGill Grocery

Model Calibration Parameters

$t_{1/2}$	1.835	yrs	λ	0.37766	yr^{-1}
v_x	10	ft/yr			
R	1.001				
v_R	9.994	ft/yr	C_{source}	200	mg/L
L_p	400	ft			
α_x	16.06461	ft	t_{sim}	15	yrs
α_y	1.606461	ft			
α_z	1E-99	ft			







Source	22	44	66	88	110	132	154	176	198	220
0	103.317395	49.3882086	24.2153119	12.146601	6.18251924	3.1695852	1.624472	0.825417	0.411925	0.199883
0	103.317395	49.3882086	24.2153119	12.146601	6.18251924	3.1695852	1.624472	0.825417	0.411925	0.199883
0	103.317395	49.3882086	24.2153119	12.146601	6.18251924	3.1695852	1.624472	0.825417	0.411925	0.199883
0	103.317395	49.3882086	24.2153119	12.146601	6.18251924	3.1695852	1.624472	0.825417	0.411925	0.199883
0	103.317395	49.3882086	24.2153119	12.146601	6.18251924	3.1695852	1.624472	0.825417	0.411925	0.199883

EtBE Calibration

Spatial Calibration Data

(centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	10	10
22		5.182
44		2.485
66		1.222
88		0.615
110		0.314
132		0.161
154		0.083
176		0.042
198		0.021
220	0.01	0.010

Temporal Calibration Data

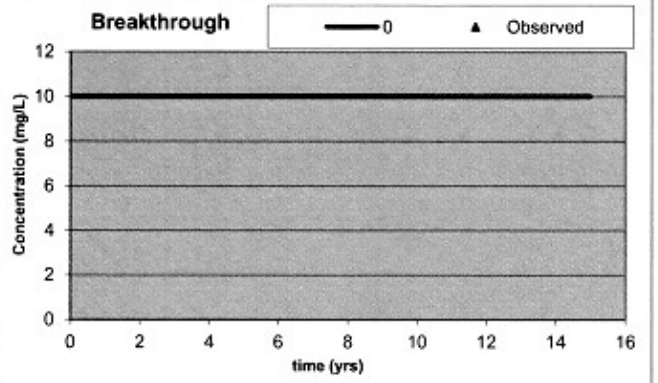
		0		0
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
0		10		10
1.5		10.000		10.000
3		10.000		10.000
4.5		10.000		10.000
6		10.000		10.000
7.5		10.000		10.000
9		10.000		10.000
10.5		10.000		10.000
12		10.000		10.000
13.5		10.000		10.000
15		10.000		10.000

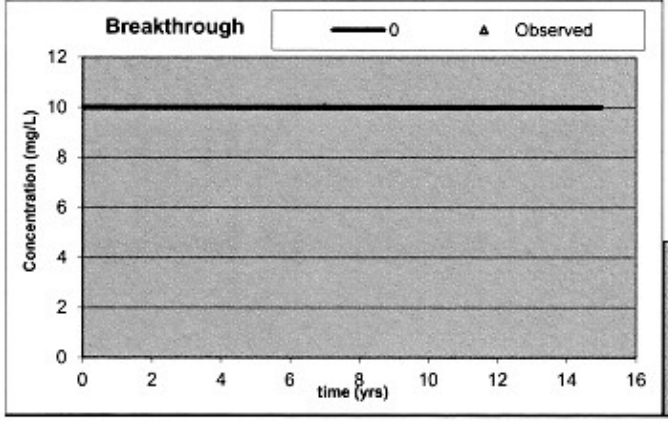
Site ID 19440

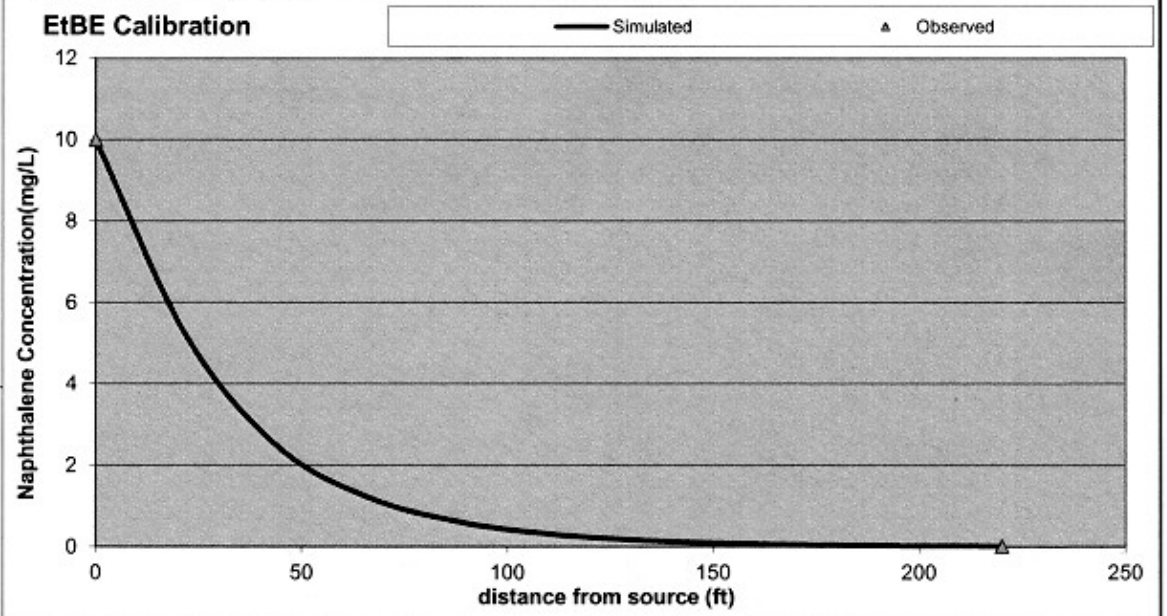
Site Name McGill Grocery

Model Calibration Parameters

$t_{1/2}$	1.85	yrs	λ	0.37459	yr^{-1}
v_x	10	ft/yr			
R	1.002				
v_R	9.982	ft/yr	C_{source}	10	mg/L
L_p	400	ft			
α_x	16.06461	ft	t_{sim}	15	yrs
α_y	1.606461	ft			
α_z	1E-99	ft			







Source	22	44	66	88	110	132	154	176	198	220
0	5.18193208	2.48477499	1.2220548	0.61485515	0.31387936	0.1613661	0.082915	0.042224	0.021111	0.010258
0	5.18193208	2.48477499	1.2220548	0.61485515	0.31387936	0.1613661	0.082915	0.042224	0.021111	0.010258
0	5.18193208	2.48477499	1.2220548	0.61485515	0.31387936	0.1613661	0.082915	0.042224	0.021111	0.010258
0	5.18193208	2.48477499	1.2220548	0.61485515	0.31387936	0.1613661	0.082915	0.042224	0.021111	0.010258
0	5.18193208	2.48477499	1.2220548	0.61485515	0.31387936	0.1613661	0.082915	0.042224	0.021111	0.010258

SSTLs t 1000 yrs

UST Permit # 19440
Site Name: McGill Grocery

Deep Benzene + Toluene Model

SSTLs in mg/L			RBSLs (mg/L):	0.005	1.000						
MW #	x (ft)	y (ft)	z (ft)	Benzene SSTL	Toluene SSTL						
MW-20D	270	0	0	3826.787	>99999						
MW-21D	210	0	0	206.182	>99999						
MW-22D	170	0	0	28.915	29260.145						
			λ (yr^{-1}):	1.444	1.777						
			R:	1.104	1.170						
			Pure Substance Solubility:	1750	526						
			Effective Solubility:	44.39	26.54						

Used 7/28/10 sampling data

Domenico Model

UST # 19440
Site Name: McGill Grocery
Modeler: Ashleigh Thrash
Date: 5/13/2015

Groundwater Flow Parameters

K	24.9	ft/yr
dh/dx	0.0174	
θ	0.25	dec. %
v_x	20	ft/yr

Transport Parameters

x_{max}	80	ft
y_{max}	0	ft
z	0	ft
Source Width	30	ft
Source Thickness	15	ft
Plume Length	350	ft
α_x	15.00771	ft
α_y	1.500771	ft
α_z	1.00E-99	ft

Simulation Time

t_{sim} 15 yrs

Aquifer Characteristics

ρ_d	1.6	kg/L
f_{oc}	0.0002	

Source Area CoC Data

CoC	C_{source} (mg/L)	K_{oc} (L/kg)
Benzene	0.23	81
Toluene	0.573	133
Ethylbenzene		176
Xylenes		639
Naphthalene		1543
MtBE		11
EDB		28
1,2-DCA		17.5

Retarded Velocity (ft/yr)

CoC	R	v_R
Benzene	1.104	18.12
Toluene	1.170	17.09
Ethylbenzene	1.225	16.32
Xylenes	1.818	11.00
Naphthalene	2.975	6.72
MtBE	1.014	19.72
EDB	1.036	19.31
1,2-DCA	1.022	19.56

Simulation Points for Breakthrough Curves

x	0	ft
y	0	ft
z	0	ft

x	0	ft
y	0	ft
z	0	ft

$$C(x,y,z,t) = \left(\frac{C_0}{8}\right)\exp\left[\left(\frac{x}{2\alpha_x}\right)\left(1-\sqrt{1+\frac{4\lambda\alpha_x}{v}}\right)\right] erfc\left[\frac{x-vt\sqrt{1+\frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}}\right]\left\{erf\left[\frac{y+\frac{Y}{2}}{2\sqrt{\alpha_y x}}\right]-erf\left[\frac{y-\frac{Y}{2}}{2\sqrt{\alpha_y x}}\right]\right\}\left\{erf\left[\frac{z+Z}{2\sqrt{\alpha_z x}}\right]-erf\left[\frac{z-Z}{2\sqrt{\alpha_z x}}\right]\right\}$$

Benzene Calibration

Spatial Calibration Data (centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	0.23	0.23
8		0.158
16		0.105
24		0.069
32		0.045
40		0.029
48		0.019
56		0.013
64		0.008
72		0.005
80	0.0036	0.004

Temporal Calibration Data

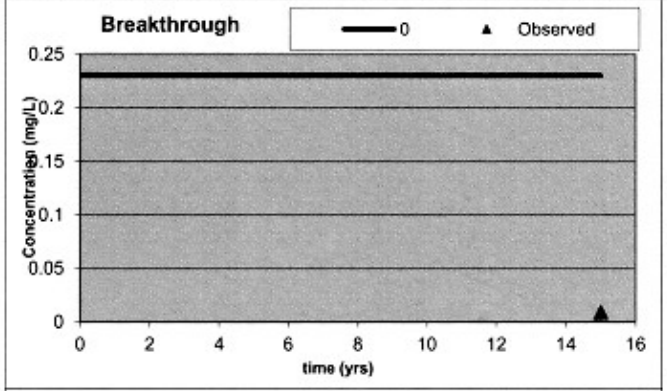
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
	0		0	
0		0.23		0.23
1.5		0.230		0.230
3		0.230		0.230
4.5		0.230		0.230
6		0.230		0.230
7.5		0.230		0.230
9		0.230		0.230
10.5		0.230		0.230
12		0.230		0.230
13.5		0.230		0.230
15	0.0091	0.230		0.230

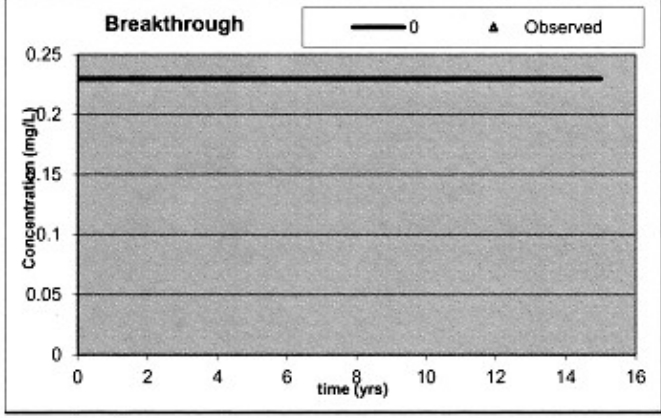
Site ID 19440

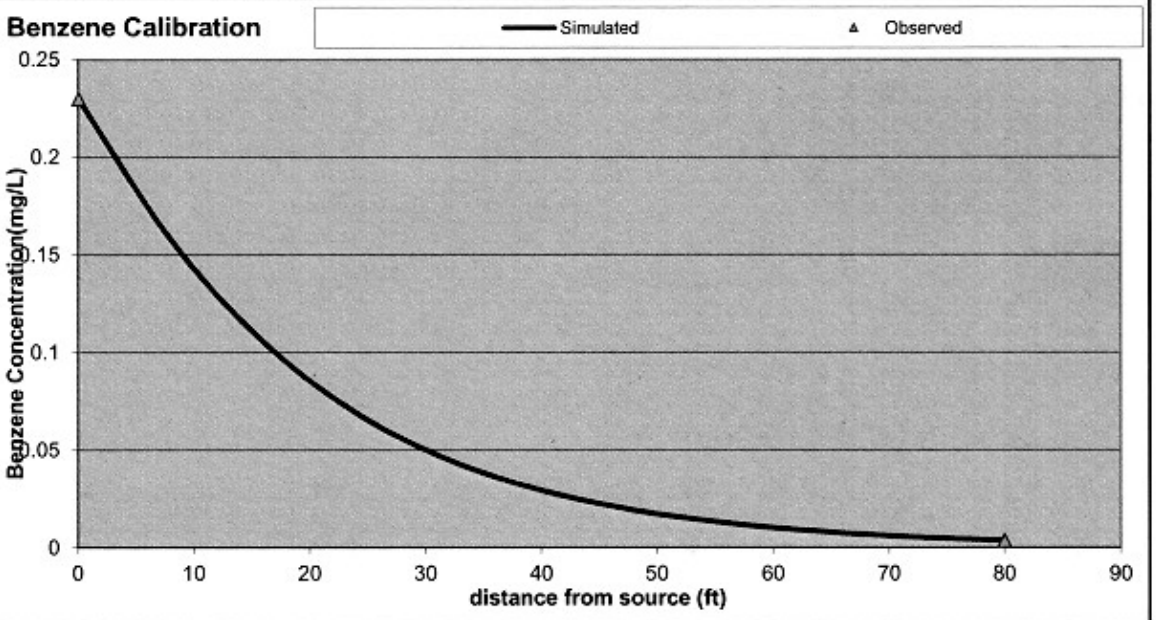
Site Name McGill Grocery

Model Calibration Parameters

$t_{1/2}$	0.48	yrs	λ	1.44375	yr^{-1}
v_x	20	ft/yr			
R	1.104				
v_R	18.121	ft/yr	C_{source}	0.23	mg/L
L_p	350	ft			
α_x	15.00771	ft	t_{sim}	15	yrs
α_y	1.500771	ft			
α_z	1E-99	ft			







Source	8	16	24	32	40	48	56	64	72	80
0	0.15782183	0.10546424	0.06903051	0.04496654	0.02932687	0.0191851	0.012594	0.008294	0.005479	0.003629
0	0.15782183	0.10546424	0.06903051	0.04496654	0.02932687	0.0191851	0.012594	0.008294	0.005479	0.003629
0	0.15782183	0.10546424	0.06903051	0.04496654	0.02932687	0.0191851	0.012594	0.008294	0.005479	0.003629
0	0.15782183	0.10546424	0.06903051	0.04496654	0.02932687	0.0191851	0.012594	0.008294	0.005479	0.003629
0	0.15782183	0.10546424	0.06903051	0.04496654	0.02932687	0.0191851	0.012594	0.008294	0.005479	0.003629

Toluene Calibration

Spatial Calibration Data (centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	0.573	0.573
8		0.364
16		0.226
24		0.137
32		0.083
40		0.050
48		0.030
56		0.018
64		0.011
72		0.007
80	0.0042	0.004

Temporal Calibration Data

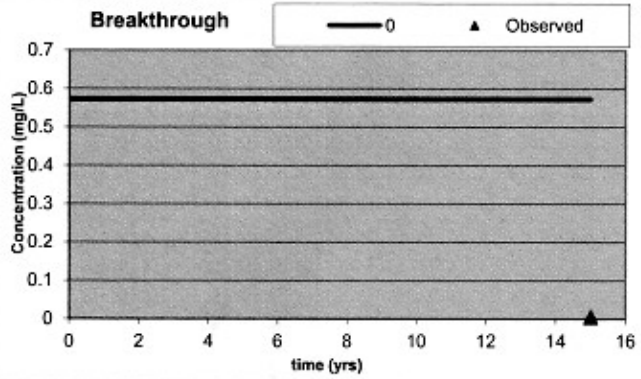
	0		0	
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
0		0.573		0.573
1.5		0.573		0.573
3		0.573		0.573
4.5		0.573		0.573
6		0.573		0.573
7.5		0.573		0.573
9		0.573		0.573
10.5		0.573		0.573
12		0.573		0.573
13.5		0.573		0.573
15	0.005	0.573		0.573

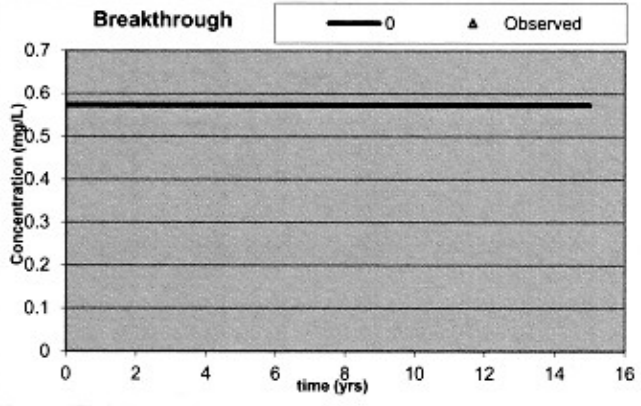
Site ID 19440

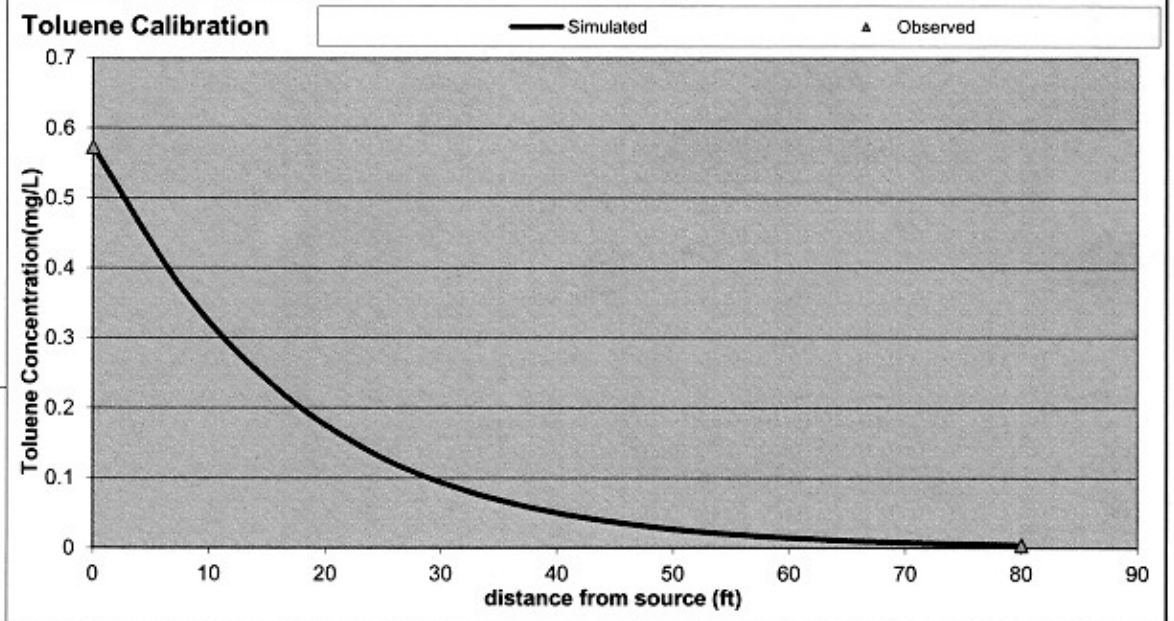
Site Name McGill Grocery

Model Calibration Parameters

$t_{1/2}$	0.39	yrs	λ	1.77692	yr^{-1}
v_x	20	ft/yr			
R	1.170				
v_R	17.091	ft/yr	C_{source}	0.573	mg/L
L_p	350	ft			
α_x	15.00771	ft	t_{sim}	15	yrs
α_y	1.500771	ft			
α_z	1E-99	ft			







Source	8	16	24	32	40	48	56	64	72	80
0	0.36429935	0.22555949	0.13679225	0.0825609	0.0498902	0.0302397	0.018392	0.011223	0.006869	0.004216
0	0.36429935	0.22555949	0.13679225	0.0825609	0.0498902	0.0302397	0.018392	0.011223	0.006869	0.004216
0	0.36429935	0.22555949	0.13679225	0.0825609	0.0498902	0.0302397	0.018392	0.011223	0.006869	0.004216
0	0.36429935	0.22555949	0.13679225	0.0825609	0.0498902	0.0302397	0.018392	0.011223	0.006869	0.004216
0	0.36429935	0.22555949	0.13679225	0.0825609	0.0498902	0.0302397	0.018392	0.011223	0.006869	0.004216

UST Permit # 19440
Site Name: McGill Grocer

SSTLs t 1000 yrs

Deep DIPE Model

SSTLs in mg/L		RBSLs (mg/L):				0.150			
MW #	x (ft)	y (ft)	z (ft)			DIPE SSTL			
MW-20D	270	0	0			1.779			
MW-21D	210	0	0			1.123			
MW-22D	170	0	0			0.812			
			λ (yr^{-1}):			0.125			
			R:			1.002			

Used 2/23/11 Sampling data

Domenico Model (Oxygenates)

UST # 19440
Site Name: McGill Grocery
Modeler: Ashleigh Thrash
Date: 5/13/2015

Groundwater Flow Parameters

K	500	ft/yr
dh/dx	0.01	
θ	0.25	dec. %
v_x	20	ft/yr

Transport Parameters

x_{max}	220	ft
y_{max}	0	ft
z	0	ft
Source Width	30	ft
Source Thickness	15	ft
Plume Length	350	ft
α_x	15.00771	ft
α_y	1.500771	ft
α_z	1.00E-99	ft

Simulation Time

t_{sim}	15	yrs

Aquifer Characteristics

ρ_d	1.6	kg/L
f_{oc}	0.0002	

Source Area CoC Data

CoC	C_{source} (mg/L)	K_{oc} (L/kg)
tBA	1.3	1
tAA		1
DIPE		1.5
tAME		1.5
EtBE		1.5
Ethanol		0.5

Retarded Velocity (ft/yr)

CoC	R	v_R
tBA	1.001	19.97
tAA	1.001	19.97
DIPE	1.002	19.96
tAME	1.002	19.96
EtBE	1.002	19.96
Ethanol	1.001	19.99

Simulation Points for Breakthrough Curves

x	0	ft
y	0	ft
z	0	ft

x	0	ft
y	0	ft
z	0	ft

$$C(x,y,z,t) = \left(\frac{C_0}{8}\right)\exp\left[\left(\frac{x}{2\alpha_x}\right)\left(1-\sqrt{1+\frac{4\lambda\alpha_x}{v}}\right)\right] erfc\left[\frac{x-vt\sqrt{1+\frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}}\right]\left\{erf\left[\frac{y+\frac{Y}{2}}{2\sqrt{\alpha_y x}}\right]-erf\left[\frac{y-\frac{Y}{2}}{2\sqrt{\alpha_y x}}\right]\right\}\left\{erf\left[\frac{z+Z}{2\sqrt{\alpha_z x}}\right]-erf\left[\frac{z-Z}{2\sqrt{\alpha_z x}}\right]\right\}$$

DIPE Calibration

Spatial Calibration Data

(centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	1.3	1.3
22		1.070
44		0.814
66		0.632
88		0.502
110		0.404
132		0.329
154		0.269
176		0.221
198		0.181
220	0.147	0.147

Temporal Calibration Data

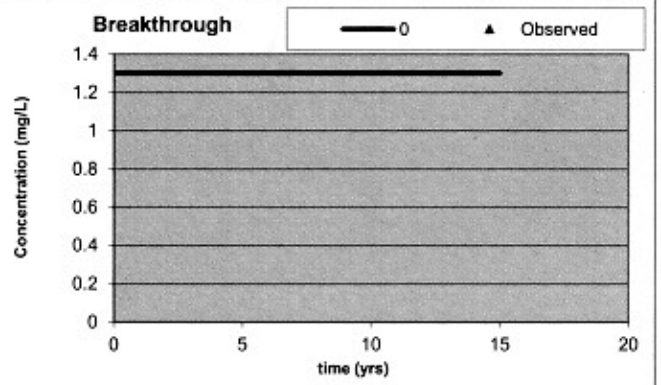
		0	0	
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
0		1.3		1.3
1.5		1.300		1.300
3		1.300		1.300
4.5		1.300		1.300
6		1.300		1.300
7.5		1.300		1.300
9		1.300		1.300
10.5		1.300		1.300
12		1.300		1.300
13.5		1.300		1.300
15		1.300		1.300

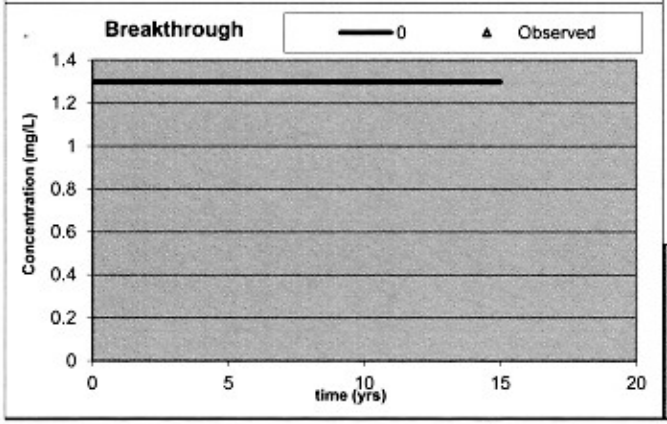
Site ID 19440

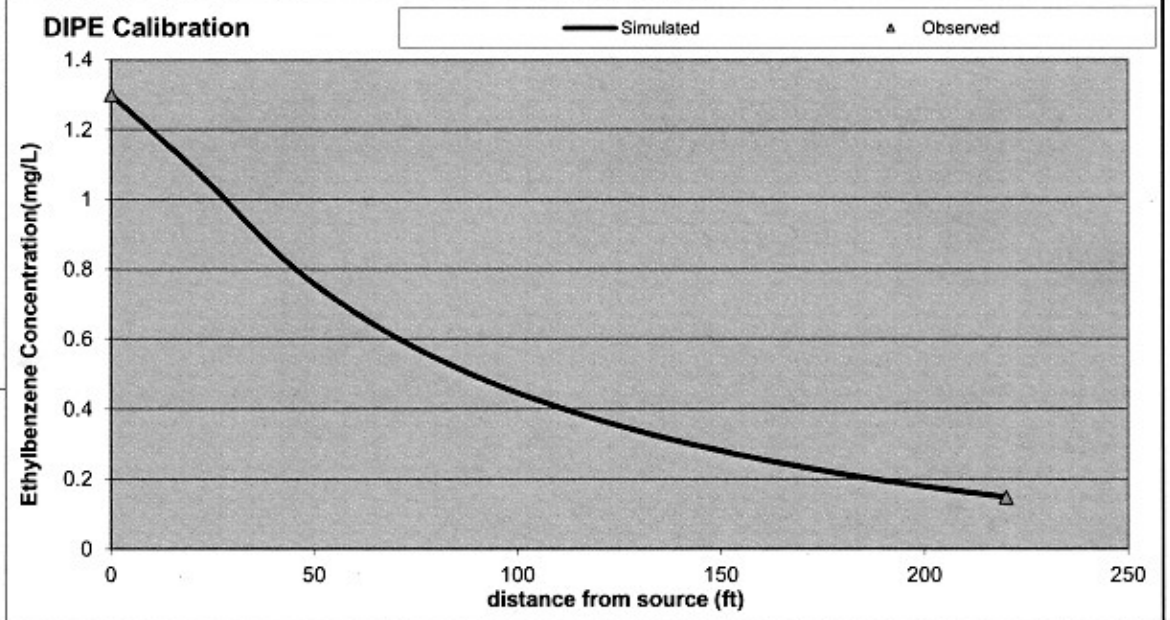
Site Name McGill Grocery

Model Calibration Parameters

$t_{1/2}$	5.525	yrs	λ	0.12543	yr^{-1}
v_x	20	ft/yr			
R	1.002				
v_R	19.962	ft/yr	C_{source}	1.3	mg/L
L_p	350	ft			
α_x	15.00771	ft	t_{sim}	15	yrs
α_y	1.500771	ft			
α_z	1E-99	ft			







Source	22	44	66	88	110	132	154	176	198	220
0	1.07014987	0.81417028	0.63243389	0.50193641	0.40447145	0.3292109	0.269497	0.221028	0.180924	0.147225
0	1.07014987	0.81417028	0.63243389	0.50193641	0.40447145	0.3292109	0.269497	0.221028	0.180924	0.147225
0	1.07014987	0.81417028	0.63243389	0.50193641	0.40447145	0.3292109	0.269497	0.221028	0.180924	0.147225
0	1.07014987	0.81417028	0.63243389	0.50193641	0.40447145	0.3292109	0.269497	0.221028	0.180924	0.147225
0	1.07014987	0.81417028	0.63243389	0.50193641	0.40447145	0.3292109	0.269497	0.221028	0.180924	0.147225

SSTLs t 1000 yrs

UST Permit # 19440
Site Name: McGill Grocery

Deep MtBE Model

SSTLs in mg/L		RBSLs (mg/L):						0.040			
MW #	x (ft)	y (ft)	z (ft)					MtBE SSTL			
MW-20D	270	0	0					0.246			
MW-21D	210	0	0					0.180			
MW-22D	170	0	0					0.143			
			λ (yr^{-1}):					0.069			
			R:					1.014			
			Pure Substance Solubility:					5110			
			Effective Solubility:					173			

Used 12/2/13 sampling data

Domenico Model

UST # 19440
Site Name: McGill Grocery
Modeler: Ashleigh Thrash
Date: 5/13/2015

Groundwater Flow Parameters

K	70	ft/yr
dh/dx	0.1	
θ	0.25	dec. %
v_x	20	ft/yr

Transport Parameters

x_{max}	280	ft
y_{max}	0	ft
z	0	ft
Source Width	30	ft
Source Thickness	15	ft
Plume Length	350	ft
α_x	15.00771	ft
α_y	1.500771	ft
α_z	1.00E-99	ft

Simulation Time

t_{sim} 15 yrs

Aquifer Characteristics

ρ_d	1.6	kg/L
f_{oc}	0.0002	

Source Area CoC Data

CoC	C_{source} (mg/L)	K_{oc} (L/kg)
Benzene		81
Toluene		133
Ethylbenzene		176
Xylenes		639
Naphthalene		1543
MtBE	0.05	11
EDB		28
1,2-DCA		17.5

Retarded Velocity (ft/yr)

CoC	R	v_R
Benzene	1.104	18.12
Toluene	1.170	17.09
Ethylbenzene	1.225	16.32
Xylenes	1.818	11.00
Naphthalene	2.975	6.72
MtBE	1.014	19.72
EDB	1.036	19.31
1,2-DCA	1.022	19.56

Simulation Points for Breakthrough Curves

x	0	ft
y	0	ft
z	0	ft

x	0	ft
y	0	ft
z	0	ft

$$C(x,y,z,t) = \left(\frac{C_0}{8}\right)\exp\left[\left(\frac{x}{2\alpha_x}\right)\left(1-\sqrt{1+\frac{4\lambda\alpha_x}{v}}\right)\right] erfc\left[\frac{x-vt\sqrt{1+\frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}}\right]\left\{erf\left[\frac{y+\frac{Y}{2}}{2\sqrt{\alpha_y x}}\right]-erf\left[\frac{y-\frac{Y}{2}}{2\sqrt{\alpha_y x}}\right]\right\}\left\{erf\left[\frac{z+Z}{2\sqrt{\alpha_z x}}\right]-erf\left[\frac{z-Z}{2\sqrt{\alpha_z x}}\right]\right\}$$

MtBE Calibration

Spatial Calibration Data (centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	0.05	0.05
28		0.041
56		0.031
84		0.025
112		0.020
140		0.016
168		0.013
196		0.011
224		0.009
252		0.007
280	0.005	0.005

Temporal Calibration Data

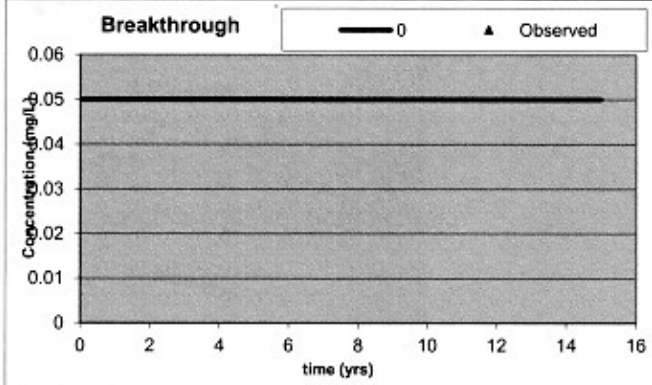
	0		0	
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
0		0.05		0.05
1.5		0.050		0.050
3		0.050		0.050
4.5		0.050		0.050
6		0.050		0.050
7.5		0.050		0.050
9		0.050		0.050
10.5		0.050		0.050
12		0.050		0.050
13.5		0.050		0.050
15		0.050		0.050

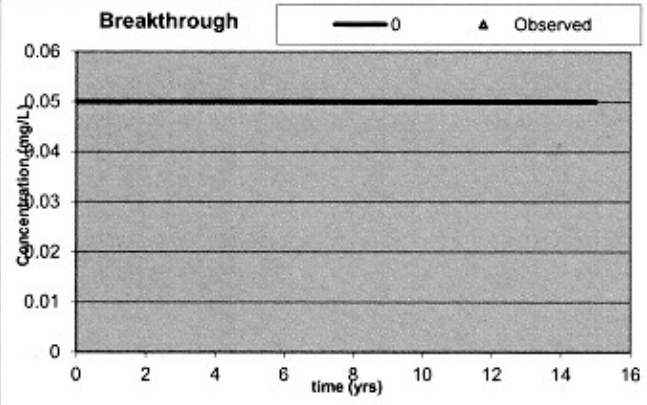
Site ID 19440

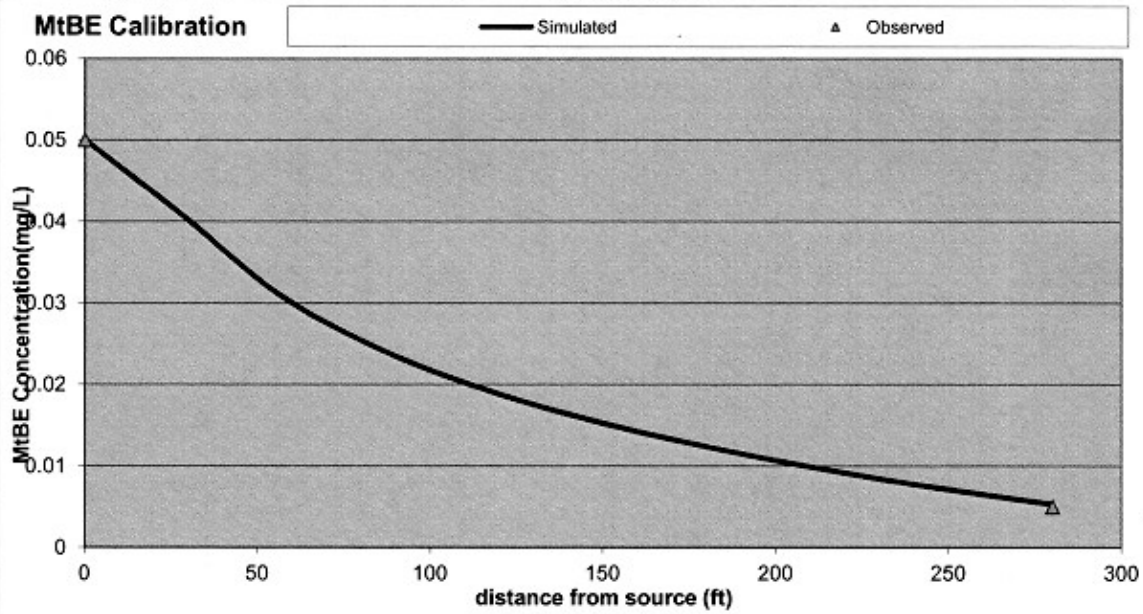
Site Name McGill Grocery

Model Calibration Parameters

$t_{1/2}$	10	yrs	λ	0.0693	yr^{-1}
v_x	20	ft/yr			
R	1.014				
v_R	19.722	ft/yr	C_{source}	0.05	mg/L
L_p	350	ft			
α_x	15.00771	ft	t_{sim}	15	yrs
α_y	1.500771	ft			
α_z	1E-99	ft			







Source	28	56	84	112	140	168	196	224	252	280
0	0.04086151	0.03113951	0.02460431	0.01993087	0.01635605	0.0134641	0.011016	0.008876	0.006979	0.005308
0	0.04086151	0.03113951	0.02460431	0.01993087	0.01635605	0.0134641	0.011016	0.008876	0.006979	0.005308
0	0.04086151	0.03113951	0.02460431	0.01993087	0.01635605	0.0134641	0.011016	0.008876	0.006979	0.005308
0	0.04086151	0.03113951	0.02460431	0.01993087	0.01635605	0.0134641	0.011016	0.008876	0.006979	0.005308
0	0.04086151	0.03113951	0.02460431	0.01993087	0.01635605	0.0134641	0.011016	0.008876	0.006979	0.005308

UST Permit # 19440
Site Name: McGill Grocer

SSTLs t 1000 yrs

Deep tAA, tBA, Tame

SSTLs in mg/L			RBSLs (mg/L):	1.400	0.240		0.128		
MW #	x (ft)	y (ft)	z (ft)	tBA SSTL	tAA SSTL		tAME SSTL		
MW-20D	270	0	0	18.041	2.020		0.622		
MW-21D	210	0	0	11.182	1.377		0.479		
MW-22D	170	0	0	7.991	1.048		0.395		
			λ (yr^{-1}):	0.199	0.144		0.077		
			R:	1.001	1.001		1.002		

Used 7/28/10 Sampling data for tAA & tAME
Used 2/23/11 Sampling data for tBA

Domenico Model (Oxygenates)

UST # 19440
Site Name: McGill Grocery
Modeler: Ashleigh Thrash
Date: 5/13/2015

Groundwater Flow Parameters

K	500	ft/yr
dh/dx	0.01	
θ	0.25	dec. %
v_x	30	ft/yr

Transport Parameters

x_{max}	350	ft
y_{max}	0	ft
z	0	ft
Source Width	30	ft
Source Thickness	15	ft
Plume Length	350	ft
α_x	15.00771	ft
α_y	1.500771	ft
α_z	1.00E-99	ft

Simulation Time

t_{sim} 15 yrs

Aquifer Characteristics

ρ_d	1.6	kg/L
f_{oc}	0.0002	

Source Area CoC Data

CoC	C_{source} (mg/L)	K_{oc} (L/kg)
tBA	2.5	1
tAA	1.49	1
DIPE		1.5
tAME	0.0777	1.5
EtBE		1.5
Ethanol		0.5

Retarded Velocity (ft/yr)

CoC	R	v_R
tBA	1.001	29.96
tAA	1.001	29.96
DIPE	1.002	29.94
tAME	1.002	29.94
EtBE	1.002	29.94
Ethanol	1.001	29.98

Simulation Points for Breakthrough Curves

x	0	ft
y	0	ft
z	0	ft

x	0	ft
y	0	ft
z	0	ft

$$C(x,y,z,t) = \left(\frac{C_0}{8}\right)\exp\left[\left(\frac{x}{2\alpha_x}\right)\left(1-\sqrt{1+\frac{4\lambda\alpha_x}{v}}\right)\right] erfc\left[\frac{x-vt\sqrt{1+\frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}}\right]\left\{erf\left[\frac{y+\frac{Y}{2}}{2\sqrt{\alpha_y x}}\right]-erf\left[\frac{y-\frac{Y}{2}}{2\sqrt{\alpha_y x}}\right]\right\}\left\{erf\left[\frac{z+Z}{2\sqrt{\alpha_z x}}\right]-erf\left[\frac{z-Z}{2\sqrt{\alpha_z x}}\right]\right\}$$

tBA Calibration

Spatial Calibration Data

(centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	2.5	2.5
35		1.731
70		1.141
105		0.794
140		0.571
175		0.419
210		0.312
245		0.234
280		0.177
315		0.133
350	0.1	0.100

Temporal Calibration Data

		0		0
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
0		2.5		2.5
1.5		2.500		2.500
3		2.500		2.500
4.5		2.500		2.500
6		2.500		2.500
7.5		2.500		2.500
9		2.500		2.500
10.5		2.500		2.500
12		2.500		2.500
13.5		2.500		2.500
15		2.500		2.500

Site ID 19440

Site Name McGill Grocery

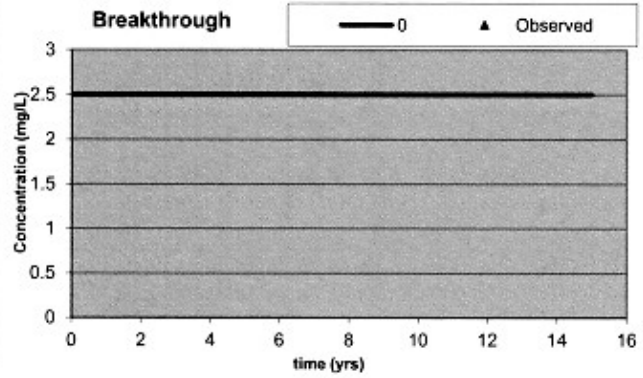
Model Calibration Parameters

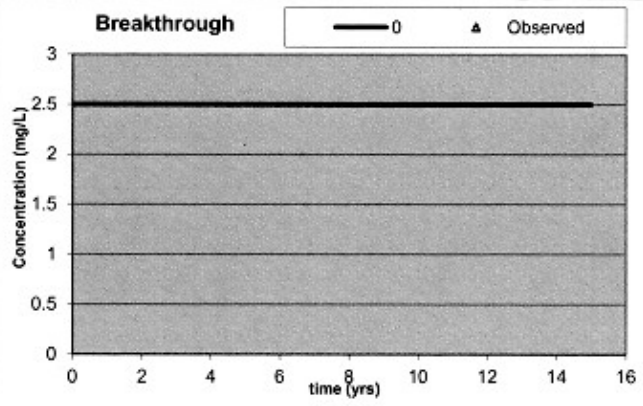
$t_{1/2}$	3.48	yrs
v_x	30	ft/yr
R	1.001	
v_R	29.962	ft/yr
L_p	350	ft
α_x	15.00771	ft
α_y	1.500771	ft
α_z	1E-99	ft

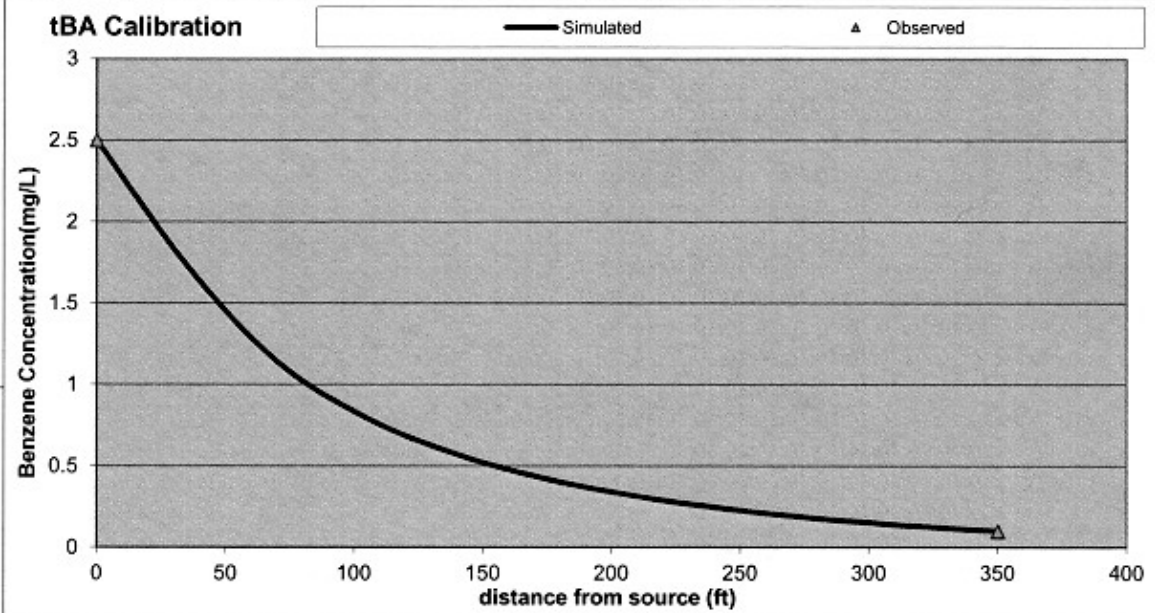
λ 0.19914 yr^{-1}

C_{source} 2.5 mg/L

t_{sim} 15 yrs







Source	35	70	105	140	175	210	245	280	315	350
0	1.73052528	1.14136266	0.79373668	0.57069682	0.41912678	0.3121265	0.234465	0.176812	0.133154	0.099518
0	1.73052528	1.14136266	0.79373668	0.57069682	0.41912678	0.3121265	0.234465	0.176812	0.133154	0.099518
0	1.73052528	1.14136266	0.79373668	0.57069682	0.41912678	0.3121265	0.234465	0.176812	0.133154	0.099518
0	1.73052528	1.14136266	0.79373668	0.57069682	0.41912678	0.3121265	0.234465	0.176812	0.133154	0.099518
0	1.73052528	1.14136266	0.79373668	0.57069682	0.41912678	0.3121265	0.234465	0.176812	0.133154	0.099518

tAA Calibration

Spatial Calibration Data (centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	1.49	1.49
35		1.090
70		0.760
105		0.558
140		0.424
175		0.329
210		0.259
245		0.205
280		0.162
315		0.128
350	0.1	0.100

Temporal Calibration Data

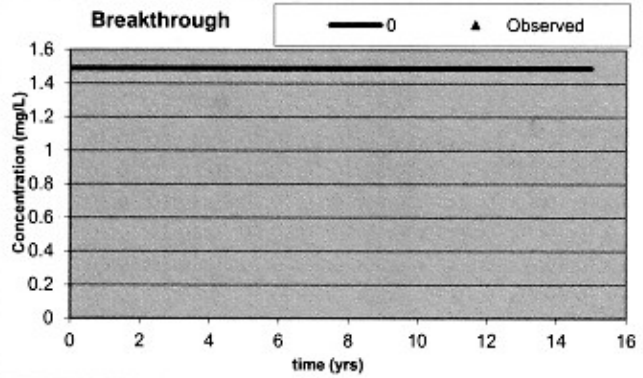
	0		0	
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
0		1.49		1.49
1.5		1.490		1.490
3		1.490		1.490
4.5		1.490		1.490
6		1.490		1.490
7.5		1.490		1.490
9		1.490		1.490
10.5		1.490		1.490
12		1.490		1.490
13.5		1.490		1.490
15		1.490		1.490

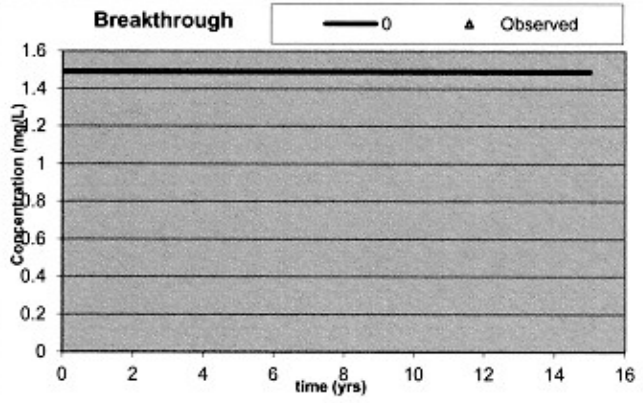
Site ID 19440

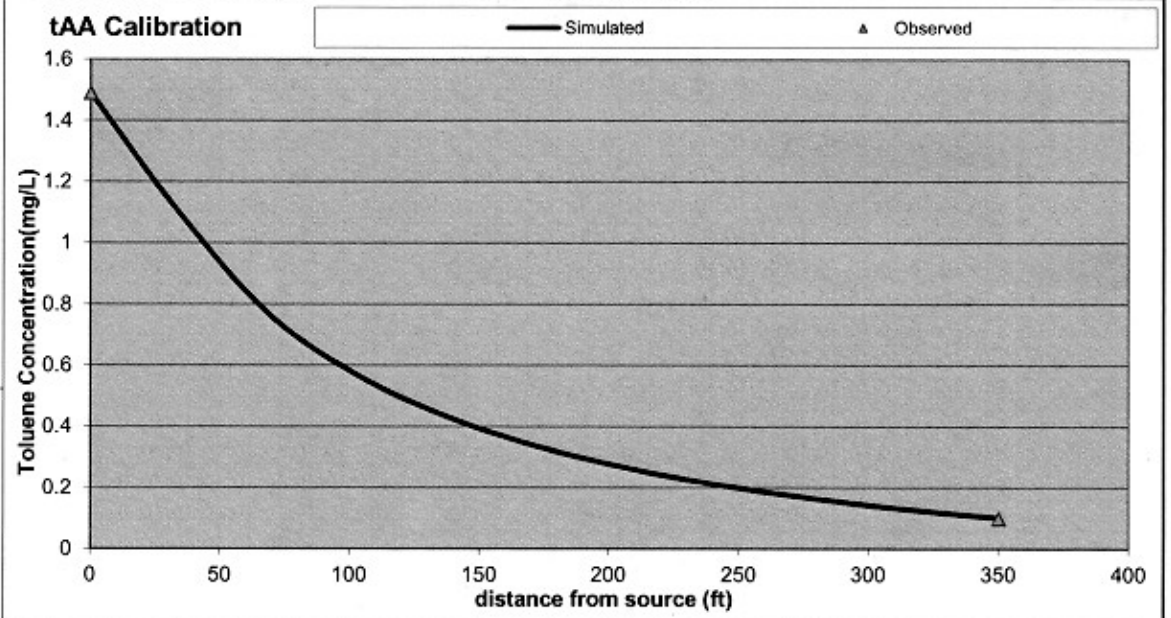
Site Name McGill Grocery

Model Calibration Parameters

$t_{1/2}$	4.8	yrs	λ	0.14438	yr^{-1}
v_x	30	ft/yr			
R	1.001				
v_R	29.962	ft/yr	C_{source}	1.49	mg/L
L_p	350	ft			
α_x	15.00771	ft	t_{sim}	15	yrs
α_y	1.500771	ft			
α_z	1E-99	ft			







Source	35	70	105	140	175	210	245	280	315	350
0	1.08990266	0.75960872	0.5581818	0.42401163	0.3288927	0.2585213	0.204733	0.162453	0.128364	0.100288
0	1.08990266	0.75960872	0.5581818	0.42401163	0.3288927	0.2585213	0.204733	0.162453	0.128364	0.100288
0	1.08990266	0.75960872	0.5581818	0.42401163	0.3288927	0.2585213	0.204733	0.162453	0.128364	0.100288
0	1.08990266	0.75960872	0.5581818	0.42401163	0.3288927	0.2585213	0.204733	0.162453	0.128364	0.100288
0	1.08990266	0.75960872	0.5581818	0.42401163	0.3288927	0.2585213	0.204733	0.162453	0.128364	0.100288

tAME Calibration

Spatial Calibration Data

(centerline)

x	C_{obs} (mg/L)	C_{sim} (mg/L)
0	0.0777	0.0777
35		0.061
70		0.046
105		0.036
140		0.029
175		0.024
210		0.021
245		0.017
280		0.015
315		0.012
350	0.01	0.010

Temporal Calibration Data

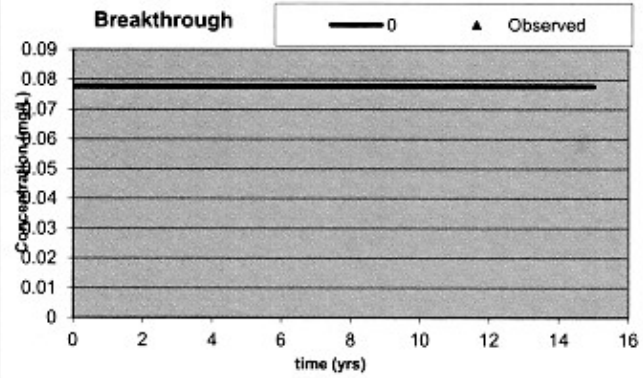
	0		0	
t (yrs)	C_{obs} (mg/L)	C_{sim} (mg/L)	C_{obs} (mg/L)	C_{sim} (mg/L)
0		0.0777		0.0777
1.5		0.078		0.078
3		0.078		0.078
4.5		0.078		0.078
6		0.078		0.078
7.5		0.078		0.078
9		0.078		0.078
10.5		0.078		0.078
12		0.078		0.078
13.5		0.078		0.078
15		0.078		0.078

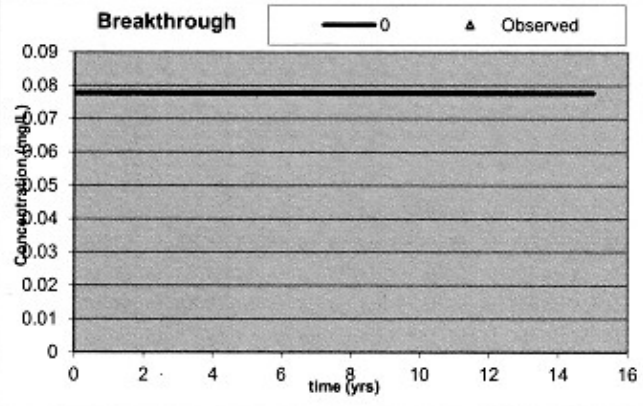
Site ID 19440

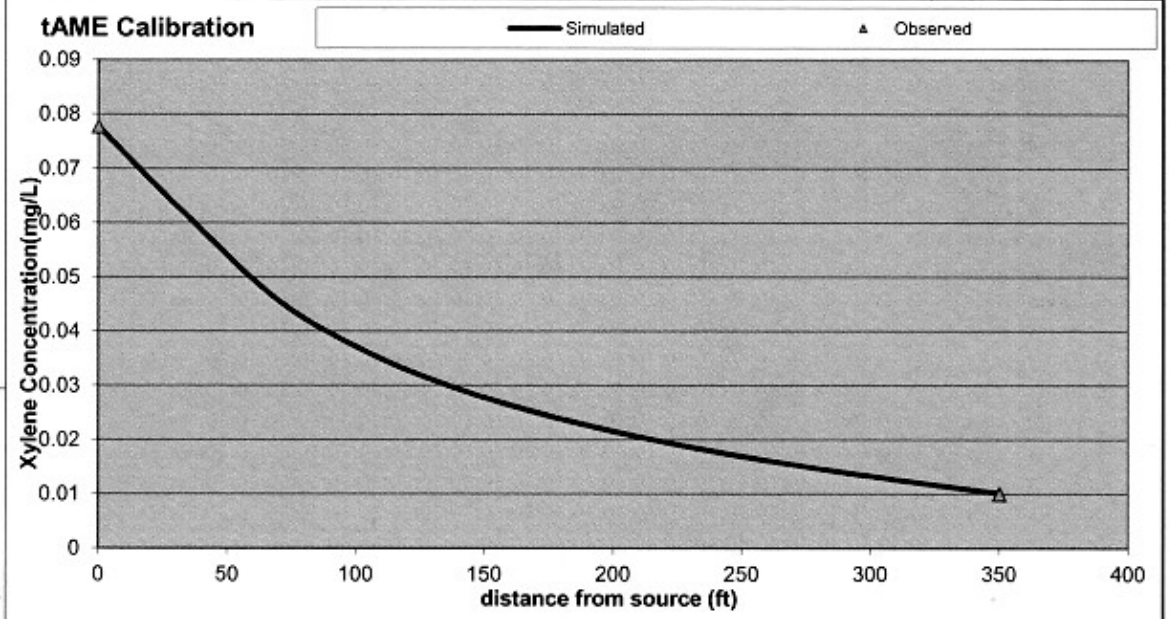
Site Name McGill Grocery

Model Calibration Parameters

$t_{1/2}$	9	yrs	λ	0.077	yr^{-1}
v_x	30	ft/yr			
R	1.002				
v_R	29.943	ft/yr	C_{source}	0.0777	mg/L
L_p	350	ft			
α_x	15.00771	ft	t_{sim}	15	yrs
α_y	1.500771	ft			
α_z	1E-99	ft			







Source	35	70	105	140	175	210	245	280	315	350
0	0.06102654	0.04566664	0.03602491	0.02936854	0.02443085	0.0205682	0.017408	0.014713	0.012327	0.010156
0	0.06102654	0.04566664	0.03602491	0.02936854	0.02443085	0.0205682	0.017408	0.014713	0.012327	0.010156
0	0.06102654	0.04566664	0.03602491	0.02936854	0.02443085	0.0205682	0.017408	0.014713	0.012327	0.010156
0	0.06102654	0.04566664	0.03602491	0.02936854	0.02443085	0.0205682	0.017408	0.014713	0.012327	0.010156
0	0.06102654	0.04566664	0.03602491	0.02936854	0.02443085	0.0205682	0.017408	0.014713	0.012327	0.010156

Midlands
Environmental
Consultants, Inc.

UST
V. Chong
SEP 0 2 2009
PROGRAM

TIER I ASSESSMENT REPORT

Site Name/Address

McGill Grocery
Iva, South Carolina
Site ID# 19440
MECI Project No. 09-2340

Submitted to:
Underground Storage Tank Program
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

UST
DOCKET
5Tcw

This report has been reviewed by:

Name William C. McClary — Registered Professional | SC2368 — Registration # | 21-Aug-09 — Date

Signature _____ — Date 8-21-09

REGISTERED
PROFESSIONAL SEAL

SCDHEC Certificate # 9

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

TIER I ASSESSMENT REPORT OF FINDINGS

I INTRODUCTION

A. Owner/Operator Information

Facility name McGill Grocery UST Permit # 19440

Name Estate of Donald McGill

Address 2784 Lake Secession Road, Iva, SC 29655

Telephone Number (include area code) NA

B. Property Owner Information

Name (if different from above) Donald E. McGill

Address P.O. Box 41, Iva, SC 29655

Telephone Number (include area code) 706-868-7204

C. Contractor Information

Name Midlands Environmental Consultants Inc. SCDHEC Certification # 9

Address P. O. Box 854, Lexington, SC 29071

Telephone Number (include area code) (803) 808-2043

D. Facility Information

Address Lake Secession Road, Iva, SC 29655

Description of Adjacent Land Use (Commercial, residential, rural, etc.) Include documentation (e.g. zoning regulations) as appropriate.

The site is located outside the city limits of Iva, South Carolina. The site is currently an abandoned store. The surrounding properties are primarily rural residential. A church is located north of the site, along Flat Rock Road. East and West of the site are wooded. South of the site is a fire station and rural residential properties.

Predicted Future Land Use (site and adjacent area)

The site is located in a rural residential area outside the city limits of Iva, SC. The property is currently unoccupied. An abandoned building still remains and is surrounded by a fence. There are no indications of change in property usage.

E. Facility History

Date Release Reported to SCDHEC 1/28/2009

Estimated Quantity of Product Released Unknown

Cause of Release UST system

UST #	Product	Date Installed	Currently in use (Yes or No)	If not in use, Date Removed
1	1,000 Gallon Gasoline	unknown	No	12/2/2008
1	1,000 Gallon Gasoline	unknown	No	12/2/2008

Other Releases at this site? Yes _____ No X

If yes, Date Release Reported to SCDHEC N/A
Status of Release N/A
No Further Action Date N/A

II. SITE CHARACTERISTICS

A. Site Geography

Describe the topography of the site and surrounding area (slope, vegetation, bodies of water, major land features, etc.) The site is located on a rideline with a slope to the east and west. The site is located in a rural residential area. Site drainage and topography slope to the west. The site is covered with gravel, dirt, and grass. A metal fence surrounds the abandoned building. Lake Secession Road acts as the eastern property boundary .

Mean Elevation of Site 650 feet

Additional Comments _____

B. Exposure Analysis

Describe all potential receptors and preferential pathways within a 1000-foot radius of the site.

Description of Receptor	Distance/Direction from Site
Unnamed Tributary Wilson Creek	500 feet North and West of site
Unnamed Tributary Wilson Creek	1,000 feet West of site
Water Supply Well (WSW-1)	580 feet Southwest of site
Water Supply Well (WSW-2)	880 feet North of site
Water Supply Well (WSW-4)	630 feet Northeast of site
Water Supply Well (WSW-5)	1,100 feet Northeast of site
Water Supply Well (WSW-6)	570 feet South of site
Water Supply Well (WSW-7)	750 feet Southwest of site
Water Supply Well (WSW-8)	1,000 feet Northeast of site

Provide any additional comments necessary to complete the exposure analysis

Water supply wells WSW-1 and WSW-6 were intially sampled on July 28, 2009. MTBE concentrations was detected in WSW-1 at 16.1 ug/l and in WSW-7 at 2.2J ug/l. On August 7, 2009, additional samples were obtained from WSW-1 and WSW-7 for confimation of petroleum impact. MTBE concentrations were detected in WSW-1 at 3.9J ug/l and in WSW-7 at 2.2J ug/l. Samples collected from WSW-4, WSW-5, WSW-6, and WSW-8 were below detection limits.

C. Utilities Survey

List the utilities on site, and adjacent to the site within a 250-foot radius, that could serve as exposure points or as preferential pathways.

Utility	On-site or Distance/Direction from site	Depth to Utility
Buried Telephone	Adjacent to southern and eastern border of site	3-6 ft.

* Public water is not available is this area.

Additional Comments

Groundwater was encountered at the site at a depth of 44.72 to 49.31. Given the difference between the depth to groundwater and the depth of utilities, it is unlikely that underground utilities would serve as receptors or preferential pathways.

D. Site Geology

Provide a brief description of the regional geology and hydrogeology

The site is located in the Piedmont Physiographic Province of South Carolina, an area underlain by ancient igneous and metamorphic rocks. The soils encountered in this area are the product of in-place weathering of rocks similar to those rocks underlying the site. In areas not altered by erosion or disturbed by the activities of man, the typical residual soil profile consists of near-surface clayey soils and underlaying sandy silts, silts and silty sands. The boundary between soil and rock is gradational. A transitional zone termed "weathered rock" is normally found overlaying the parent bedrock. This zone (weathered rock) is typically the most transmissive zone for groundwater movement. The topography of the bedrock surface is uneven, even over short horizontal distances. It is not unusual to find lenses and boulders of hard rock and zones of weathered rock within the soil mantle well above the general bedrock level.

Provide a brief description of the site specific geology and stratigraphy

Piedmont residual soils were encountered during drilling activities conducted at the site. The soils encountered were Sands, Silts and Clays. Test Boring Records which depict the soils encountered in each boring advanced are located in Appendix A.

E. Soil Boring Data

Drilling Dates July 28-30, 2009

Provide a brief justification for the location of the soil borings

GPS-1	Delineation of horizontal extent of contamination
GPS-2	Delineation of horizontal extent of contamination
GPS-3	Delineation of horizontal extent of contamination
GPS-4	Delineation of horizontal extent of contamination
GPS-5	Delineation of horizontal extent of contamination
GPS-6	Delineation of horizontal extent of contamination
GPS-7	Delineation of horizontal extent of contamination
GPS-8	Background Boring

Complete the table below for each soil boring.

UST Area Borings -

Borehole GPS-1 **Sampling Date- 7/28/09** **Sample Depth: 20-25 Ft.**

Interval (ft.)	Field Screening Results	Lithology (soil type, color, rocks/ minerals present	Soil Conditions (dry, moist, etc; petroleum odor)
0-5 Ft.	ND	Fill: Sampled as Red and White, Micaceous Medium to Coarse Sandy SILT	Dry, No Petroleum Odor
5-10 Ft.	ND	Fill: Sample as White and Orange, Micaceous Fine to Medium Sandy SILT	Dry, No Petroleum Odor
10-15 Ft.	ND	White, SAA	Dry, No Petroleum Odor
15-20 Ft.	ND	Brown, Micaceous SILT	Dry, No Petroleum Odor
20-25 Ft.	9.9	SAA	Dry, No Petroleum Odor

Borehole GPS-2 **Sampling Date- 7/29/09** **Sample Depth: 20-25 Ft.**

Interval (ft.)	Field Screening Results	Lithology (soil type, color, rocks/ minerals present	Soil Conditions (dry, moist, etc; petroleum odor)
0-5 Ft.	ND	Red, Micaceous SILT	Dry, No Petroleum Odor
5-10 Ft.	ND	SAA	Dry, No Petroleum Odor
10-15 Ft.	ND	Orange, SAA	Dry, No Petroleum Odor
15-20 Ft.	ND	Brown, SAA	Dry, No Petroleum Odor
20-25 Ft.	ND	SAA	Dry, No Petroleum Odor

Borehole GPS-3 **Sampling Date- 7/29/09** **Sample Depth: 8-10 Ft.**

Interval (ft.)	Field Screening Results	Lithology (soil type, color, rocks/ minerals present	Soil Conditions (dry, moist, etc; petroleum odor)
0-2 Ft.	ND	Red, Micaceous SILT	Dry, No Petroleum Odor
2-4 Ft.	ND	SAA	Dry, No Petroleum Odor
4-6 Ft.	ND	Orange, SAA	Dry, No Petroleum Odor
6-8 Ft.	7.2	SAA	Dry, No Petroleum Odor
8-10 Ft.	19.6	Brown, SAA	Dry, Slight Petroleum Odor

UST Area Borings -

Borehole GPS-4 **Sampling Date- 7/29/09** **Sample Depth: 8-10 Ft.**

Interval (ft.)	Field Screening Results (mg/kg)	Lithology (soil type, color, rocks/ minerals present	Soil Conditions (dry, moist, etc; petroleum odor)
0-2 Ft.	250	Red, Micaceous SILT	Dry, Petroleum Odor
2-4 Ft.	3,908	SAA	Dry, Petroleum Odor
4-6 Ft.	9,999+	SAA	Dry, Strong Petroleum Odor
6-8 Ft.	9,999+	Orange, SAA	Dry, Strong Petroleum Odor
8-10 Ft.	9,999+	Brown, SAA	Dry, Strong Petroleum Odor

Borehole GPS-5 **Sampling Date- 7/29/09** **Sample Depth: 8-10 Ft.**

Interval (ft.)	Field Screening Results (mg/kg)	Lithology (soil type, color, rocks/ minerals present	Soil Conditions (dry, moist, etc; petroleum odor)
0-2 Ft.	5.8	Red, Micaceous SILT	Dry, No Petroleum Odor
2-4 Ft.	31.6	SAA	Dry, Slight Petroleum Odor
4-6 Ft.	30.6	SAA	Dry, Slight Petroleum Odor
6-8 Ft.	38.0	SAA	Dry, Slight Petroleum Odor
8-10 Ft.	64.3	Brown, SAA	Dry, Slight Petroleum Odor

Borehole GPS-6 **Sampling Date- 7/29/09** **Sample Depth: 0-2 Ft.**

Interval (ft.)	Field Screening Results (mg/kg)	Lithology (soil type, color, rocks/ minerals present	Soil Conditions (dry, moist, etc; petroleum odor)
0-2 Ft.	41.5	Red, Micaceous SILT	Dry, Slight Petroleum Odor
2-4 Ft.	5.8	SAA	Dry, No Petroleum Odor
4-6 Ft.	11.4	SAA	Dry, No Petroleum Odor
6-8 Ft.	7.2	SAA	Dry, No Petroleum Odor
8-10 Ft.	5.7	Brown, SAA	Dry, No Petroleum Odor

UST Area Borings -

Borehole GPS-7 **Sampling Date-7/29/09** **Sample Depth: 0-2 Ft.**

Interval (ft.)	Field Screening Results (mg/kg)	Lithology (soil type, color, rocks/ minerals present	Soil Conditions (dry, moist, etc; petroleum odor)
0-2 Ft.	9.3	Red, Micaceous SILT	Dry, No Petroleum odor
2-4 Ft.	ND	SAA	Dry, No Petroleum odor
4-6 Ft.	ND	SAA	Dry, No Petroleum odor
6-8 Ft.	6.8	SAA	Dry, No Petroleum odor
8-10 Ft.	5.1	Brown, Micaceous SILT	Dry, No Petroleum odor

Background Boring

Borehole GPS-8 **Sampling Date-7/29/09** **Sample Depth: 6-8 Ft.**

Interval (ft.)	Field Screening Results (mg/kg)	Lithology (soil type, color, rocks/ minerals present	Soil Conditions (dry, moist, etc; petroleum odor)
0-2 Ft.	ND	Red, Micaceous SILT	Dry, No Petroleum odor
2-4Ft.	6.0	Orange, SAA	Dry, No Petroleum odor
4-6 Ft.	9.3	SAA	Dry, No Petroleum odor
6-8 Ft.	12.4	SAA	Dry, No Petroleum odor
8-10 Ft.	12.2	SAA	Dry, No Petroleum odor

Enter the soil analytical data for each soil boring for all COC in the table below and on the following page. Enter the appropriate RBSL for the soil type from Tables 4 through 8 in SCDHEC Risk-Based Corrective Action (RBCA) for Petroleum Releases Guidance Document.

CoC	RBSL	Units	GPS-1	GPS-2	GPS-3	GPS-4	GPS-5	GPS-6	GPS-7	GPS-8
Benzene	7	ug/Kg	<5.6	<5.0	<5.5	<2,700	<7.3	<8.2	<6.2	NT
Toluene	1450	ug/Kg	**2.7J**	**19.6**	**5.4J**	**208,000**	**15.4**	<8.2	**9.7**	NT
Ethylbenzene	1150	ug/Kg	**4.7J**	**10.5**	**4.9J**	**209,000**	**6.8J**	<8.2	**5.2J**	NT
Total Xylenes	14500	ug/Kg	**34.0**	**65.2**	**35.6**	**1,620,000**	**50.8**	**19.6**	**33.0**	NT
Total BTEX	n/a	ug/Kg	**41.4**	**95.3**	**45.9**	**2,037,000**	**73.0**	**19.6**	**47.9**	NT
Naphthalene	36	ug/Kg	**2.5J**	**1.4J**	**8.1**	**147,000**	**44.1**	**4.7J**	**2.7J**	NT
Benzo(a)anthracene	66	ug/Kg	<431	<418	<432	<391	<421	<420	<421	NT
Benzo(b)flouranthene	66	ug/Kg	<431	<418	<432	<391	<421	<420	<421	NT
Benzo(k)flouranthene	66	ug/Kg	<431	<418	<432	<391	<421	<420	<421	NT
Chrysene	66	ug/Kg	<431	<418	<432	<391	<421	<420	<421	NT
Dibenz(a,h)anthracene	66	ug/Kg	<431	<418	<432	<391	<421	<420	<421	NT
TPH (EPA 3550)	n/a	ug/Kg	NT	NT	NT	**940**	NT	NT	NT	NT
TOC (Background boring)	n/a	mg/Kg	NT	NT	NT	NT	NT	NT	NT	<500

Discuss the horizontal and vertical extent of COC in the soil

Soil sample analytical data for borings GPS-4 and GPS-5 indicated CoC concentrations above RBSL's.

Additional Comments

Chemicals of Concern - Groundwater

Provide well installation information in the table below

MW#	Installation Date	Development Date	Sampling Date
MW-1	5/1/2009	5/5/2009	5/5/2009
MW-2	7/30/2009	7/31/2009	7/31/2009
MW-3	7/30/2009	7/31/2009	7/31/2009
MW-4	7/30/2009	7/31/2009	7/31/2009

Enter the soil analytical data for each monitoring well for all CoC in the table below.

CoC	MW-2(GPS-4)	MW-3	MW-4(GPS-8)
Depth of sample	8-10 Feet	20-25 Feet	6-8 Feet
Benzene	<2,700	<7.2	NT
Toluene	**208,000**	<7.2	NT
Ethylbenzene	**209,000**	<7.2	NT
Total Xylenes	**1,620,000**	**11.4J**	NT
Total BTEX	**2,037,000**	**11.4**	NT
Naphthalene	**147,000**	<7.2	NT
Benzo(a)anthracene	<391	<449	NT
Benzo(b)flouranthene	<391	<449	NT
Benzo(k)flouranthene	<391	<449	NT
Chrysene	<391	<449	NT
Dibenz(a,h)anthracene	<391	<449	NT
TOC	NT	NT	<500

Summarize the monitoring well and groundwater data in the table below.

MW #	TOC Elevation (ft)	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Water Table Elevation (ft)
MW-1	96.57	40-50	NA	44.72	51.85
MW-2	96.95	41-51	NA	45.52	51.43
MW-3	96.97	41-51	NA	45.23	51.74
MW-4	99.71	42-52	NA	49.31	50.40

Enter field data measurements (temperature, pH, conductivity) taken during well purging on the form provided. Complete for each well.

Monitoring Well #	MW-1	MW-2	MW-3	MW-4
PH (final)	NT	6.16	5.89	6.18
Conductivity (final)	NT	139.7	143.4	166.0
Temperature (final)	NT	20.5	18.9	24.1

Enter dissolved oxygen measurements for each well in the table below.

Monitoring Well #	MW-1	MW-2	MW-3	MW-4
Dissolved Oxygen (mg/l)	NT	5.93	5.53	3.46

Enter the groundwater analytical data for each monitoring well for all CoC in the table below. If free product is percent, indicate the measured thickness to the nearest 0.01 feet.

CoC	RBSL (ug/l)	MW-1	MW-2	MW-3	MW-4
Free Product Thickness	None	None	None	None	None
Benzene	5	**8,630**	**854**	**2,680**	**956**
Toluene	1,000	**96,400**	**1,430**	**20,100**	**4,440**
Ethylbenzene	700	**3,980**	**335J**	**362J**	**174**
Total Xylenes	10,000	**24,900**	**3,470**	**8,110**	**1,860**
Total BTEX	N/A	**133,910**	**6,089**	**31,252**	**7,430**
MTBE	40	**33,700**	**7,090**	**24,400**	**6,130**
Naphthalene	25	<1,000	**145**	**145**	**24.9**
Benzo(a)anthracene	10	NT	<14.3	<20.0	<16.1
Benzo(b)flouranthene	10	NT	<14.3	<20.0	<16.1
Benzo(k)flouranthene	10	NT	<14.3	<20.0	<16.1
Chrysene	10	NT	<14.3	<20.0	<16.1
Dibenz(a,h)anthracene	10	NT	<14.3	<20.0	<16.1
Ferrous Iron	N/A	NT	<0.2	<0.2	<0.2
EDB	0.05	**2.0**	**0.039**	**0.10**	<0.019
Methane	N/A	NT	<10.0	<10.0	<10.0
Total Lead (ug/l)	15	NT	**6.6**	**5.8**	<5.0
Dissolved Lead (ug/l)	15	NT	<5.0	<5.0	<5.0
Nitrates (mg/l)	N/A	NT	<0.10	<0.10	<0.10
Sulfates (mg/l)	N/A	NT	**4.5**	**2.6**	**7.4**

Water supply well analytical:

CoC	RBSL (ug/l)	WSW-1	WSW-4	WSW-5	WSW-6	WSW-7	WSW-8
Benzene	5	<5.0/<5.0	<5.0	<5.0	<5.0/<5.0	<5.0/<5.0	<5.0
Toluene	1,000	<5.0/<5.0	<5.0	<5.0	<5.0/<5.0	<5.0/<5.0	<5.0
Ethylbenzene	700	<5.0/<5.0	<5.0	<5.0	<5.0/<5.0	<5.0/<5.0	<5.0
Total Xylenes	10,000	<10.0/<10.0	<5.0	<5.0	<10.0/<10.0	<10.0/<10.0	<5.0
Total BTEX	N/A	BDL/BDL	BDL	BDL	BDL/BDL	BDL/BDL	BDL
MTBE	40	**16.1/3.9J**	<5.0	<5.0	<5.0/<5.0	**2.2J/2.2J**	<5.0
Naphthalene	25	<5.0/<5.0	<5.0	<5.0	<5.0/<5.0	<5.0/<5.0	<5.0

Additional Comments: Analyitcal data indicates chemicals of concern are above RBSL's in monitoring wells MW-1, MW-2, MW-3, and MW-4.

Water supply wells WSW-1, WSW-6 , and WSW-7 sampled on July 28 and August 7, 2009.

G. Aquifer Characteristics

Hydraulic Conductivity 1.15 E-01 ft/day

Hydraulic Gradient 7.36 E-02 ft./ft.

Porosity 30 percent for Clayey SILT

Estimated Seepage Velocity 10 feet per year

Complete the slug test form and include in Appendix D of the report. Include all data, graphs, and equations used to derive the aquifer characteristics and hydrologic parameters (hydraulic conductivity, seepage velocity, hydraulic gradient, etc.) in Appendix D.

III. Tier I Evaluation

A. CURRENT LAND USE - Identify any potential receptors or human exposure pathways (e.g. basements, contaminated soils from UST closures, etc.) within a 1000-foot radius for current land use. Complete the table below. Additional sheets may be attached if necessary.

Media (for exposure)	Exposure Route	Pathway Selected for Evaluation? (Yes or No)	Exposure point or Reason for Non-Selection	Data Requirements (IF pathway selected)
Air	Inhalation	No	Buried Structures not identified in search radius	
	Explosion Hazard	No		
Groundwater	Ingestion	Yes	Water supply wells identified in search radius. MTBE concentrations detected in WSW-1 and WSW-7.	Tier II Evaluation to determine horizontal and vertical extent of contamination
	Dermal Contact	Yes		
	Volatile Inhalation	Yes		
Surface Water	Ingestion	Yes	Surface waters located within search radius.	Tier II Evaluation to determine horizontal and vertical extent of contamination
	Dermal contact	Yes		
	Volatile Inhalation	Yes		
Surficial Soil	Ingestion	Yes	Soil impacted by contamination not covered by pavement.	Tier II Evaluation to determine horizontal and vertical extent of contamination.
	Dermal Contact	Yes		
	Volatile Inhalation	Yes		
	Leaching to Groundwater	Yes		
Subsurface Soil	Ingestion	Yes	Soil impacted by contamination not covered by pavement.	Tier II Evaluation to determine horizontal and vertical extent of contamination.
	Dermal Contact	Yes		
	Volatile Inhalation	Yes		
	Leaching to Groundwater	Yes		

B. FUTURE LAND USE - Identify any potential receptors or human exposure pathways (e.g. basements, contaminated soils from UST closures, etc.) within a 1000-foot radius for projected future land use. Complete the table below. Additional sheets may be attached if necessary.

Media (for exposure)	Exposure Route	Pathway Selected for Evaluation? (Yes or No)	Exposure point or Reason for Non-Selection	Data Requirements (IF pathway selected)
Air	Inhalation	No	Buried Structures not identified in search radius	
	Explosion Hazard	No		
Groundwater	Ingestion	Yes	Water supply wells identified in search radius. MTBE concentrations detected in WSW-1 and WSW-7.	Tier II Evaluation to determine horizontal and vertical extent of contamination
	Dermal Contact	Yes		
	Volatile Inhalation	Yes		
Surface Water	Ingestion	Yes	Surface waters located within search radius.	Tier II Evaluation to determine horizontal and vertical extent of contamination
	Dermal contact	Yes		
	Volatile Inhalation	Yes		
Surficial Soil	Ingestion	Yes	Soil impacted by contamination not covered by pavement.	Tier II Evaluation to determine horizontal and vertical extent of contamination.
	Dermal Contact	Yes		
	Volatile Inhalation	Yes		
	Leaching to Groundwater	Yes		
Subsurface Soil	Ingestion	Yes	Soil impacted by contamination not covered by pavement.	Tier II Evaluation to determine horizontal and vertical extent of contamination .
	Dermal Contact	Yes		
	Volatile Inhalation	Yes		
	Leaching to Groundwater	Yes		

Recommendations for further action Tier II Assessment to determine the vertical and horizontal extent of contamination.

IV. Maps and Figures

Complete and attach all maps and appendices as outlined below.

A. Figures

All maps must include the following :

- the facility name,
- address,
- site id number,
- date
- bar scale
- north arrow.

1 Figure 1 - Topographic Map
Prepare a copy of the relevant portion of the appropriate United States Geological Survey 7.5 minute topographic map. Indicate the location of the site and location of any receptors (e.g., marsh, groundwater well, city water well, etc.).

2 Figure 2- Scaled Site Location Map
Prepare a site location map identifying the site and any pertinent property boundaries (residential and commercial), streets, receptors, etc. within a 500 foot radius.

3 Figure 3- Surveyed Site Map
Prepare a site base map to scale and plot all the utilities. This map will include:

a. Location of property lines.
b. Streets and highways (indicate names).
c. Location of buildings.
d. Paved areas on or adjacent to site.
e. Location of all present and former above ground and underground storage tanks and associated lines, pumps, and dispensers.
f. Underground utilities on or adjacent to site (sewer, water, telephone, gas, electric, etc.).
g. Location of any other potential receptors.
h. Eight soil boring locations.
j. Survey datum location.

4 Figure 4- Soil COC Site Map
Prepare a COC site map from a copy of Figure 3. Add all accompanying soil data. The soil analytical data will be plotted adjacent to each soil boring (SB) using the following format:

SB#	
Sample Depth (ft)	
Benzene (mg/kg)	
Toluene (mg/kg)	
Ethylbenzene (mg/kg)	
Xylenes (mg/kg)	
PAHs (mg/kg)	

5 Figure 5- Groundwater COC Site Map
Prepare a COC site map from a copy of Figure 3. Add potentiometric surface (elevation) data, an arrow indicating groundwater flow direction, and accompanying groundwater data. The groundwater data should be plotted adjacent to the monitoring wells (MW) using the following format:

MW #	
Groundwater	
elevation	
Benzene (ug/l)	
Toluene (ug/l)	
Ethylbenzene (ug/l)	
Xylenes (ug/l)	
PAHs (ug/l)	

B. Appendices

1 Appendix A - Soil Boring Logs
The soil boring logs should indicate lithology, water level (if encountered), split-spoon sample intervals and field screening results. Also, the presence of hydrocarbon odors and qualitative indication of soil conditions (dry, moist, wet, saturated, etc.) should be noted on the logs.

2 Appendix B - Monitoring Well Construction Logs
The monitoring well construction logs must include all information as outlined in the S.C. Well Standards and Regulations R.61-71.11E(2). Additionally, a copy of DHEC Form 1903 (Water Well Record) should be included for each monitoring well installed.

3 Appendix C - Laboratory Data
A copy of the completed chain of custody, certificates of analysis and field sampling logs should be attached. The sampling logs should note the location and type of each sample submitted for analysis. The laboratory certificates of analysis should include the analytical results, the reporting limit, the analytical method utilized, and the laboratory certification number.

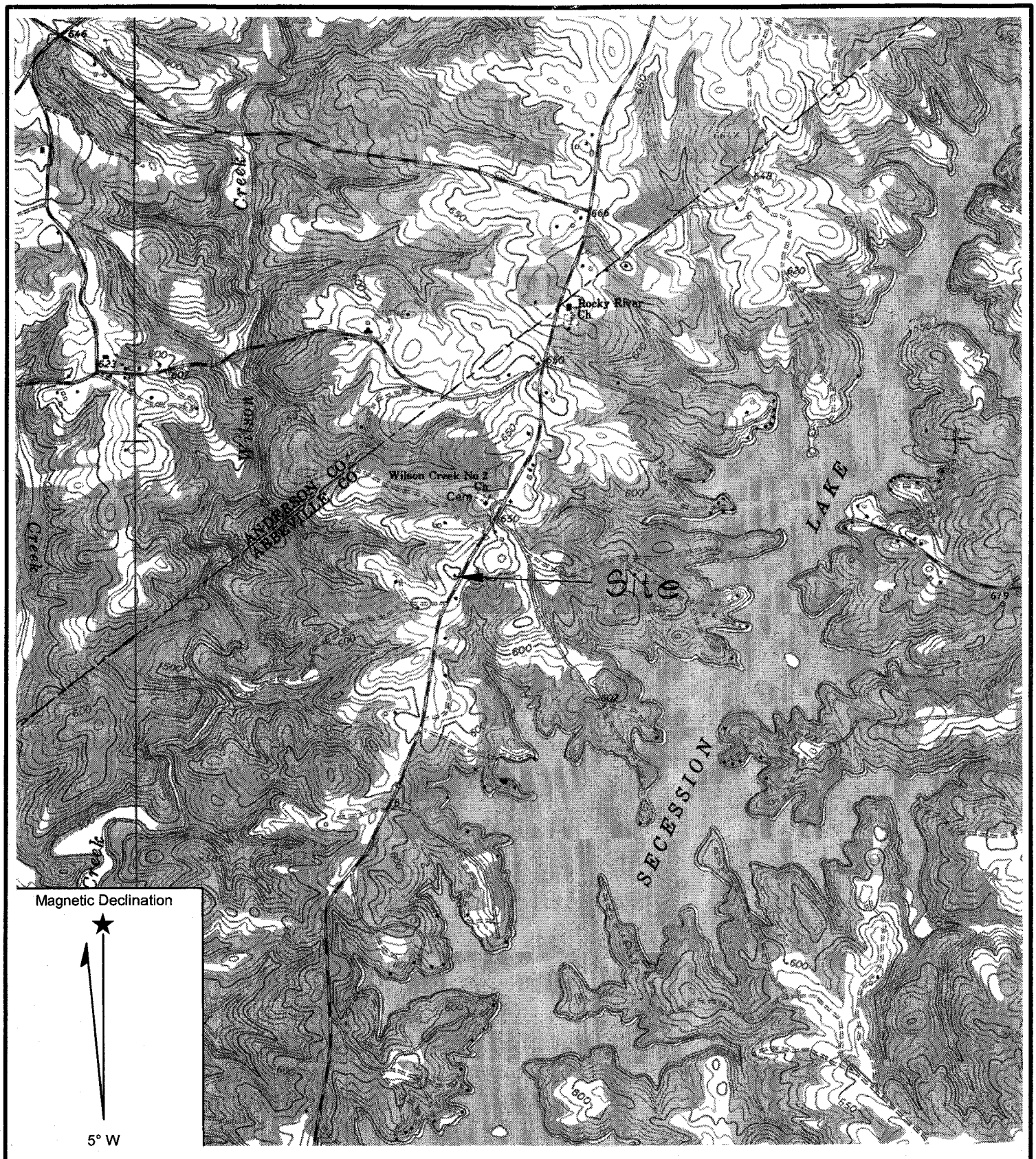
4 Appendix D - Slug Test Data Form
The slug test summary forms, and all data, graphs, and equations that were used to derive the aquifer characteristics and hydrologic parameters should be included.

5 Appendix E - Soil and water disposal manifests.

6 Appendix F - Copy of Zoning Regulations.

7 Appendix G - Copy of Tax Map
The tax map should be accompanied by the list of names and addresses of adjacent property owners.

FIGURES



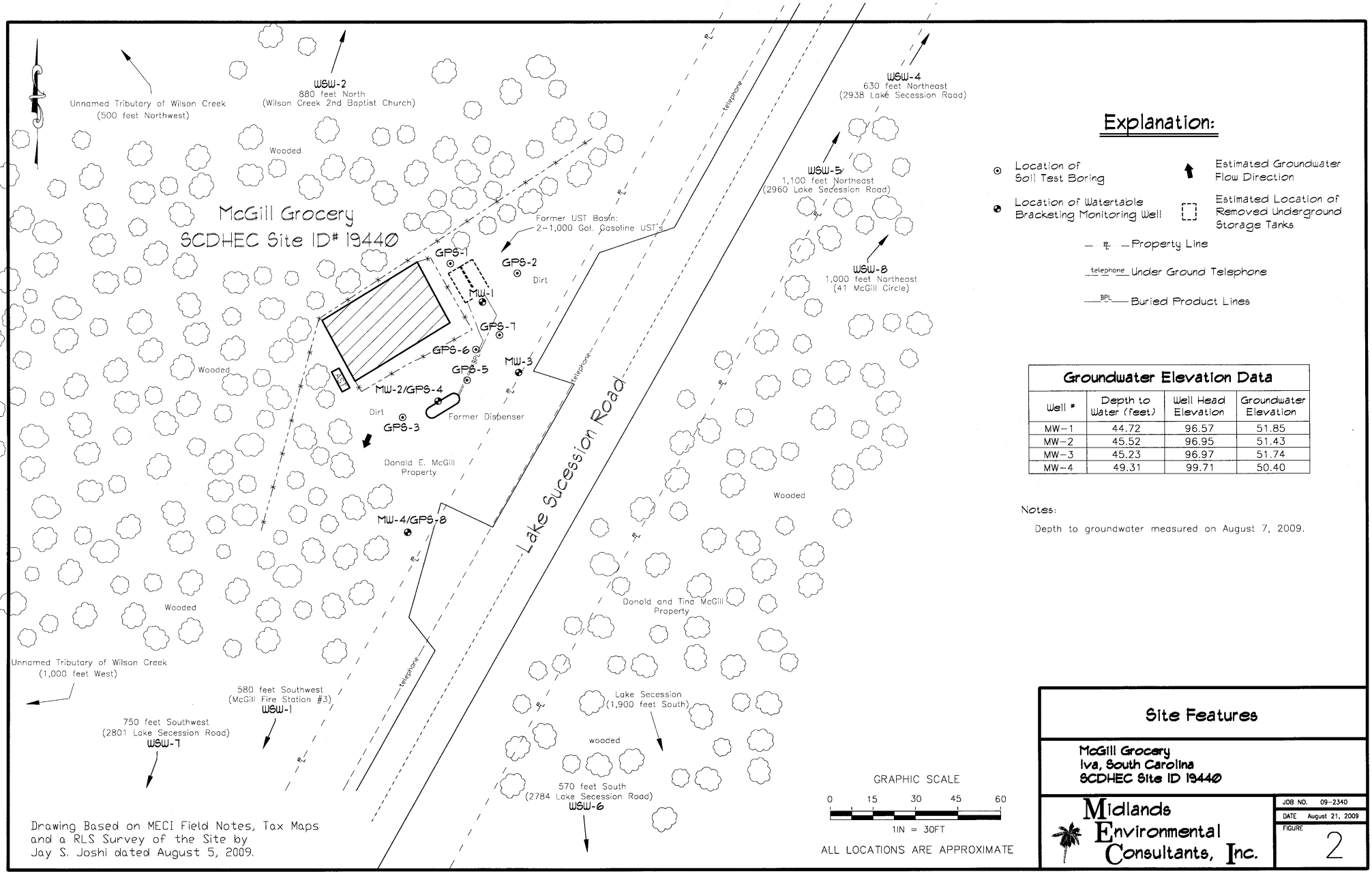
GRAPHIC SCALE

0 1000 2000 4000

1IN = 2000FT

Reference: Antreville, South Carolina
Contour Interval–10 Feet
USGS 7.5 Min. Quad

Midlands Environmental Consultants, Inc.	Site Location
McGill's Grocery Iva, SC SCDHEC Site ID# 19440	
Figure 1	MECI 09-2340



Explanation:

- Location of Soil Test Boring
- Location of Watertable Bracketing Monitoring Well
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- —℄— Property Line
- telephone Under Ground Telephone
- BPL Buried Product Lines

Groundwater Elevation Data

Well #	Depth to Water (feet)	Well Head Elevation	Groundwater Elevation
MW-1	44.72	96.57	51.85
MW-2	45.52	96.95	51.43
MW-3	45.23	96.97	51.74
MW-4	49.31	99.71	50.40

Notes:

Depth to groundwater measured on August 7, 2009.

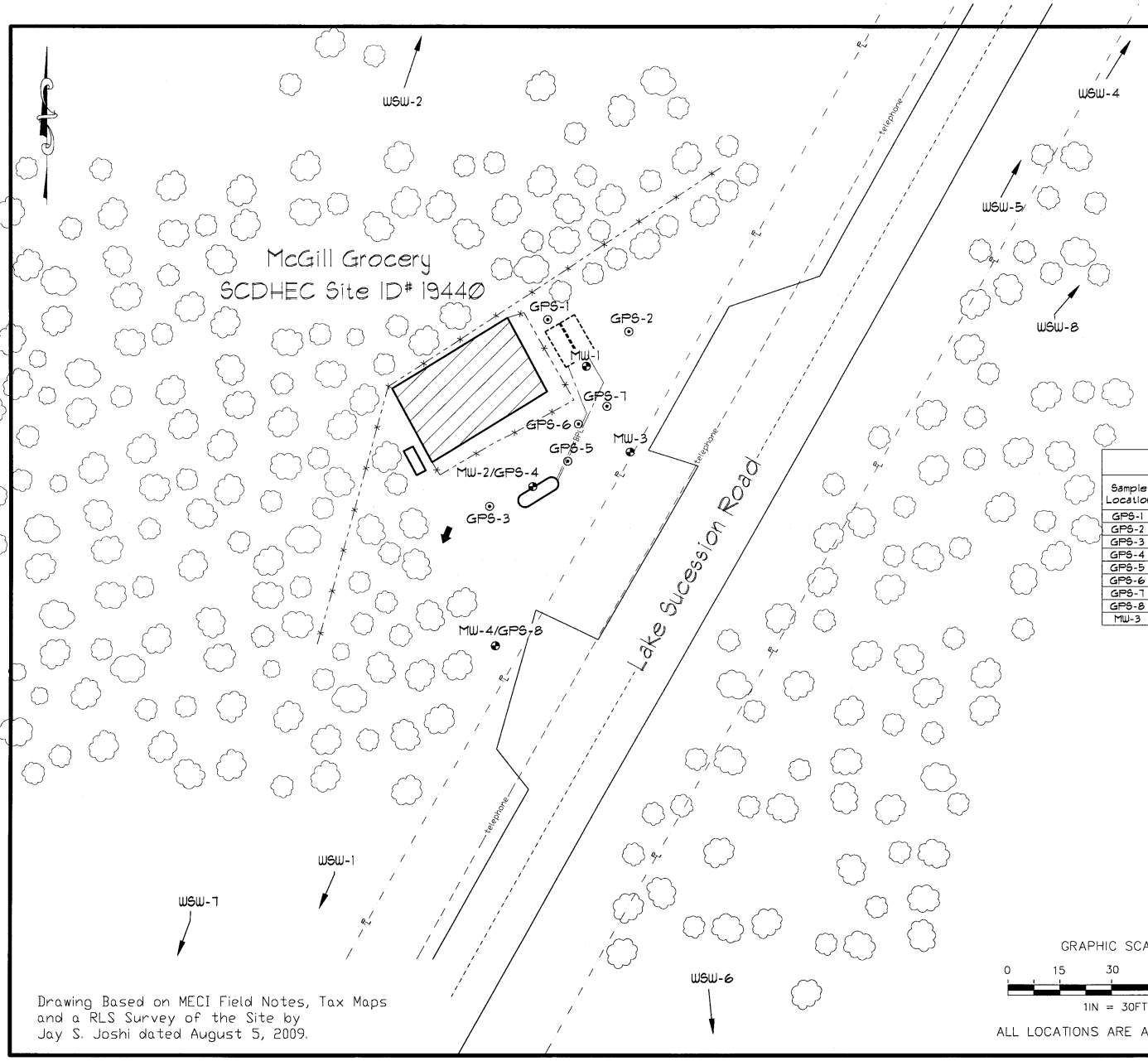
Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 5, 2009.

Site Features

McGill Grocery
Iva, South Carolina
SCDHEC Site ID 19440

Midlands Environmental Consultants, Inc.

JOB NO. 09-2340
DATE August 21, 2009
FIGURE 2



Explanation:

- Location of Soil Test Boring
- Location of Watertable Bracketing Monitoring Well
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks

Soil Analytical Data •

Sample Location	Sample Date	Depth (feet)	Benzene (ug/kg)	Toluene (ug/kg)	Ethylbenzene (ug/kg)	Total Xylenes (ug/kg)	Naphthalene (ug/kg)	TOC (mg/kg)	TPH 3550 (mg/kg)
GPS-1	7/28/09	20-25	<5.6	2.7J	4.7J	34.0	2.5J	NT	NT
GPS-2	7/29/09	20-25	<5.0	19.6	10.5	65.2	1.4J	NT	NT
GPS-3	7/29/09	8-10	<5.5	5.4J	4.9J	35.6	8.1	NT	NT
GPS-4	7/29/09	8-10	<2,700	208,000	147,000	1,620,000	147,000	NT	940
GPS-5	7/29/09	8-10	<7.3	15.4	6.8J	50.8	44.1	NT	NT
GPS-6	7/29/09	0-2	<8.2	<8.2	<8.2	19.6	4.7J	NT	NT
GPS-7	7/29/09	0-2	<6.2	9.7	5.2J	33.0	2.7J	NT	NT
GPS-8	7/29/09	6-8	NT	NT	NT	NT	NT	<500	NT
MW-3	7/29/09	20-25	<7.2	<7.2	<7.2	11.4J	<7.2	NT	NT

Notes:

BDL = Below Detection Limits

NT = Not Tested

See Appendix for Detection Limits

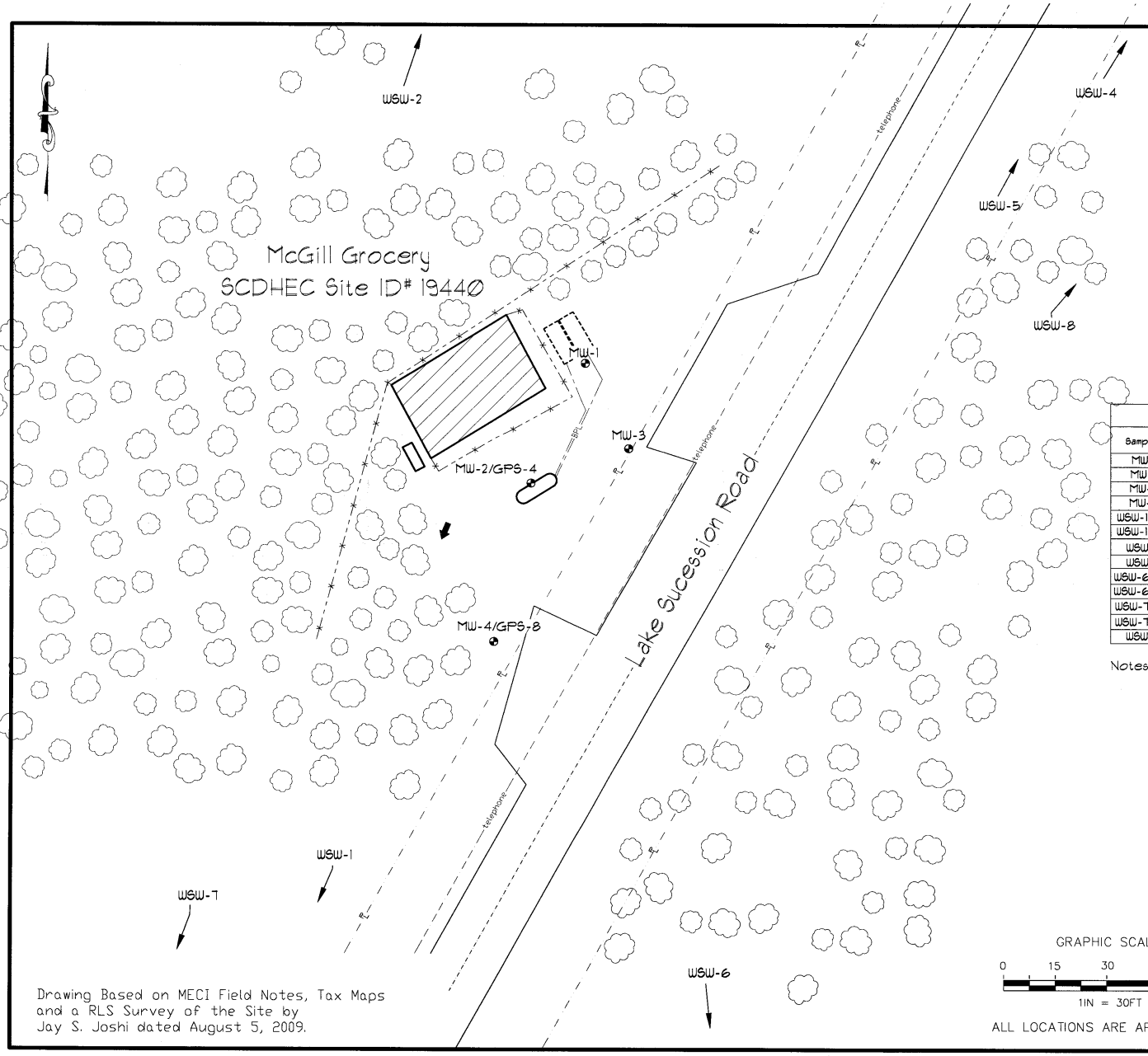
Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 5, 2009.

Soil COC Site Map

McGill Grocery
Iva, South Carolina
SCDHEC Site ID 19440

Midlands Environmental Consultants, Inc.

JOB NO. 09-2340
DATE August 21, 2009
FIGURE 3



Explanation:

- Location of Watertable Bracketing Monitoring Well
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks

COC Concentration Data

Sample *	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	MTBE (ug/l)	EDB (ug/l)	Napthalene (ug/l)
MW-1	8,630	96,400	3,980	24,900	133,910	33,700	2.0	<1,000
MW-2	854	1,430	335J	3,470	6,089	7,090	0.039	145
MW-3	2,680	20,100	362J	8,110	31,252	24,400	0.10	145
MW-4	956	4,440	174	1,860	7,430	6,130	<0.019	24.9
WSW-1 (A)	<5.0	<5.0	<5.0	<10.0	BDL	16.1	NT	<5.0
WSW-1 (B)	<5.0	<5.0	<5.0	<10.0	BDL	3.9J	NT	<5.0
WSW-4	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	NT	<5.0
WSW-5	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	NT	<5.0
WSW-6 (A)	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	NT	<5.0
WSW-6 (B)	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	NT	<5.0
WSW-7 (A)	<5.0	<5.0	<5.0	<10.0	BDL	2.2J	NT	<5.0
WSW-7 (B)	<5.0	<5.0	<5.0	<10.0	BDL	2.2J	NT	<5.0
WSW-8	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	NT	<5.0

Notes: Groundwater samples collected on July 28, July 31, and August 7, 2009.

BDL = Below Detection Limits

NT = Not Tested

Water Supply Wells Samples labeled (A) were collected on July 28, 2009.
Water Supply Wells Samples labeled (B) were collected on August 7, 2009.

"J" Values used in Total BTEX Calculation

GRAPHIC SCALE
0 15 30 45 60
1IN = 30FT

ALL LOCATIONS ARE APPROXIMATE

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated August 5, 2009.

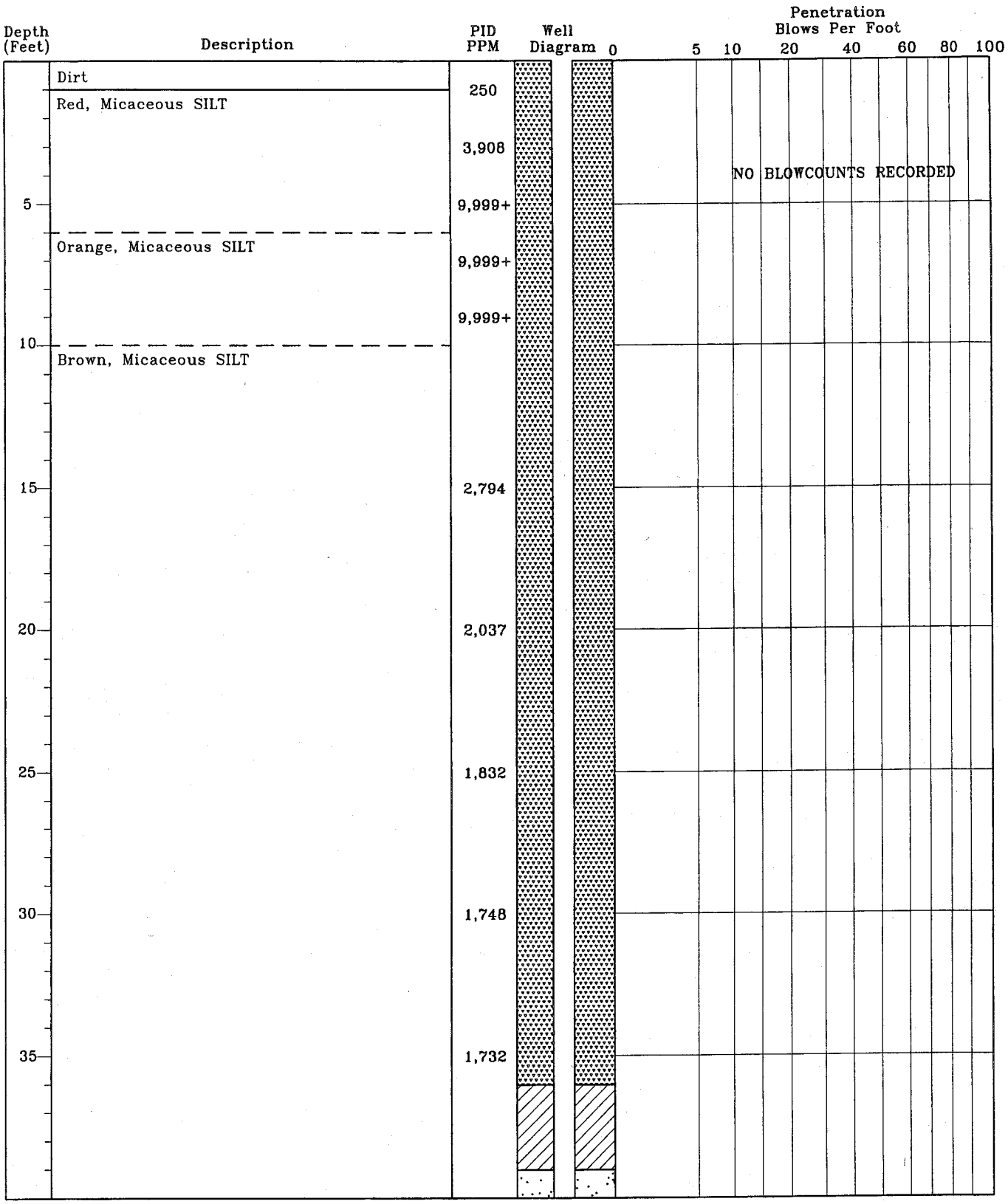
Groundwater COC Site Map

McGill Grocery
Iva, South Carolina
SCDHEC Site ID 19440

Midlands Environmental Consultants, Inc.

JOB NO. 09-2340
DATE August 21, 2009
FIGURE 4

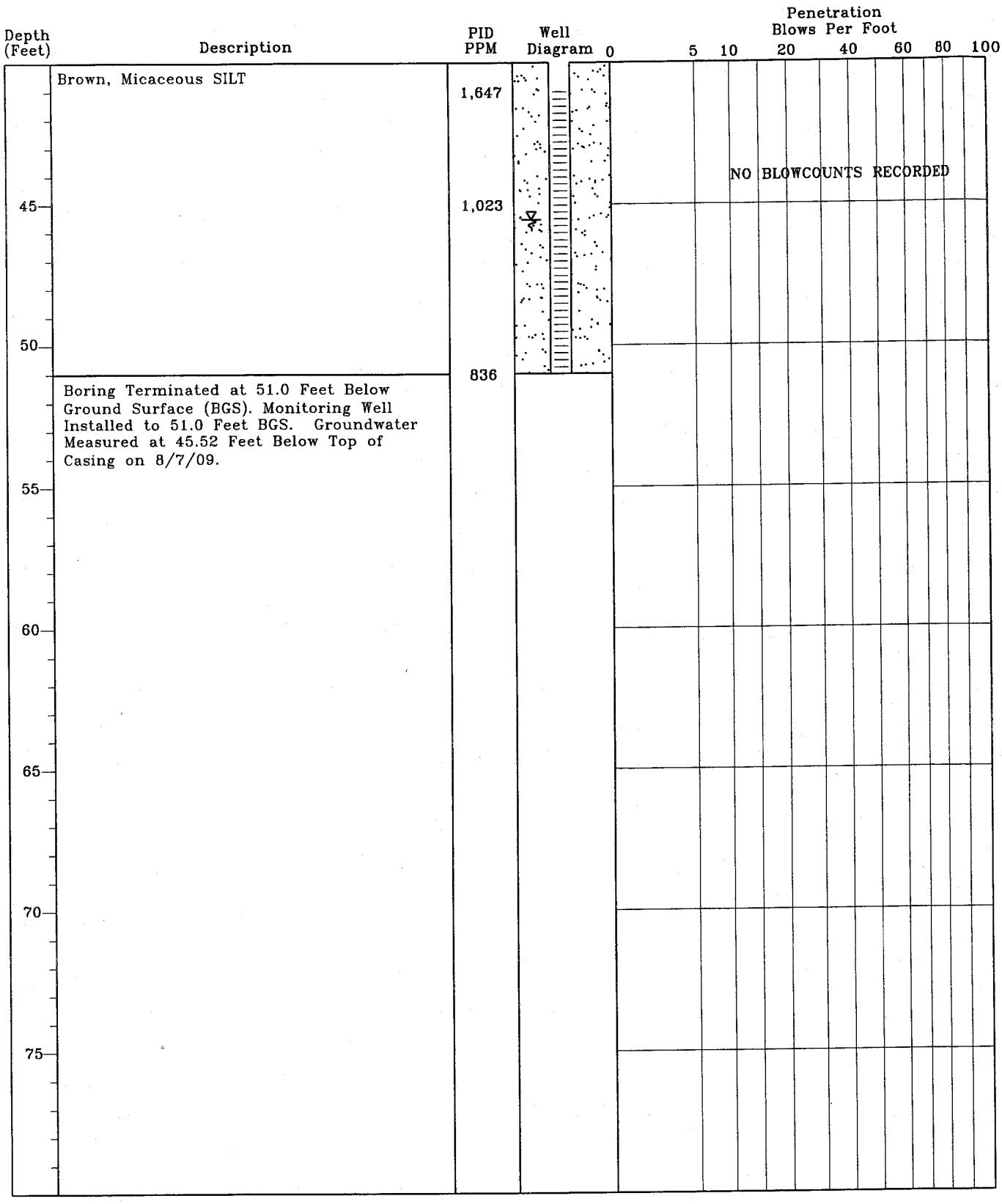
APPENDIX A
BORING LOGS



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 09-2340

Boring Number:	MW-2
Date Drilled:	7/30/09
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



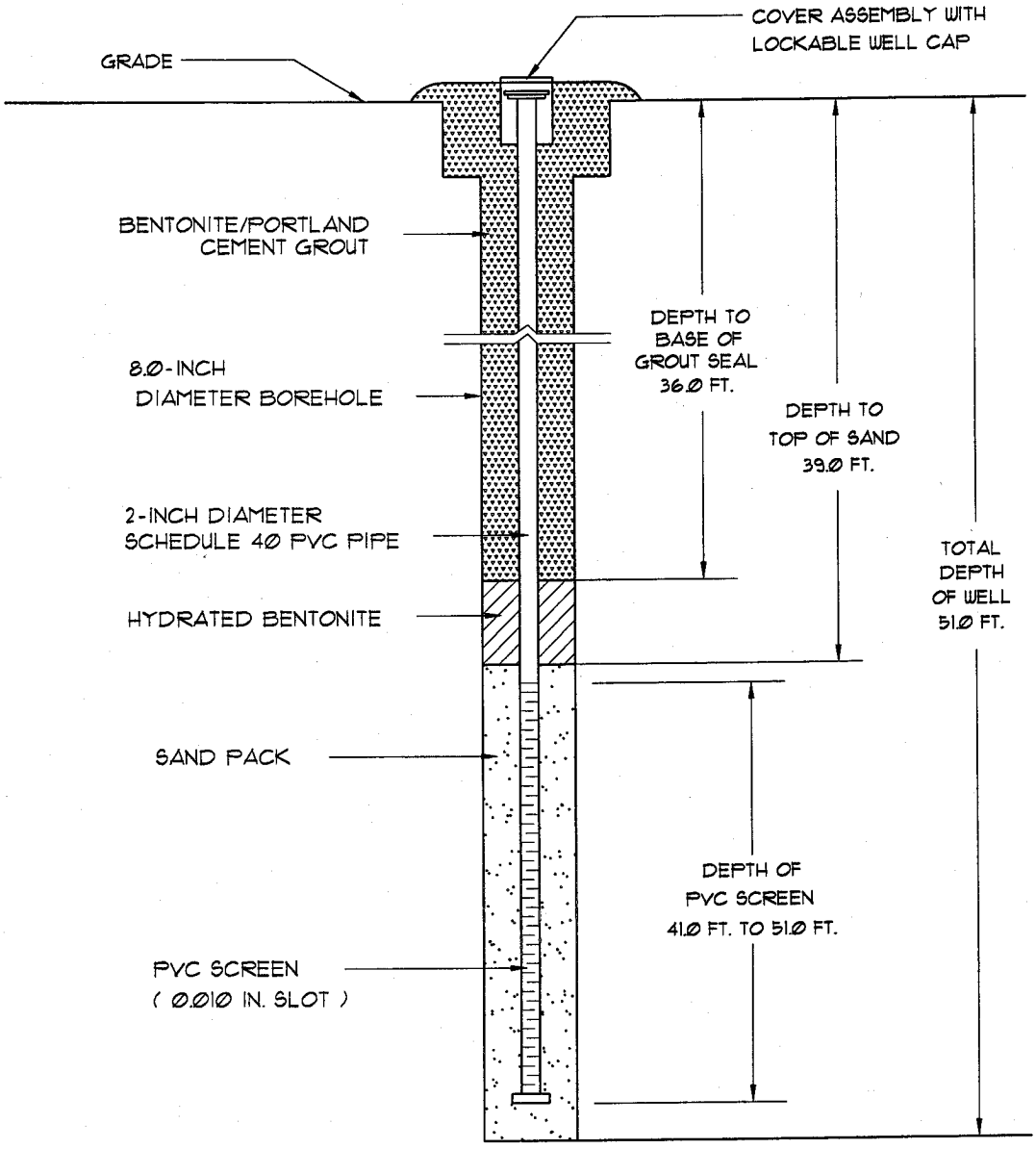
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 09-2304

Boring Number:	MW-2
Date Drilled:	7/30/09
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

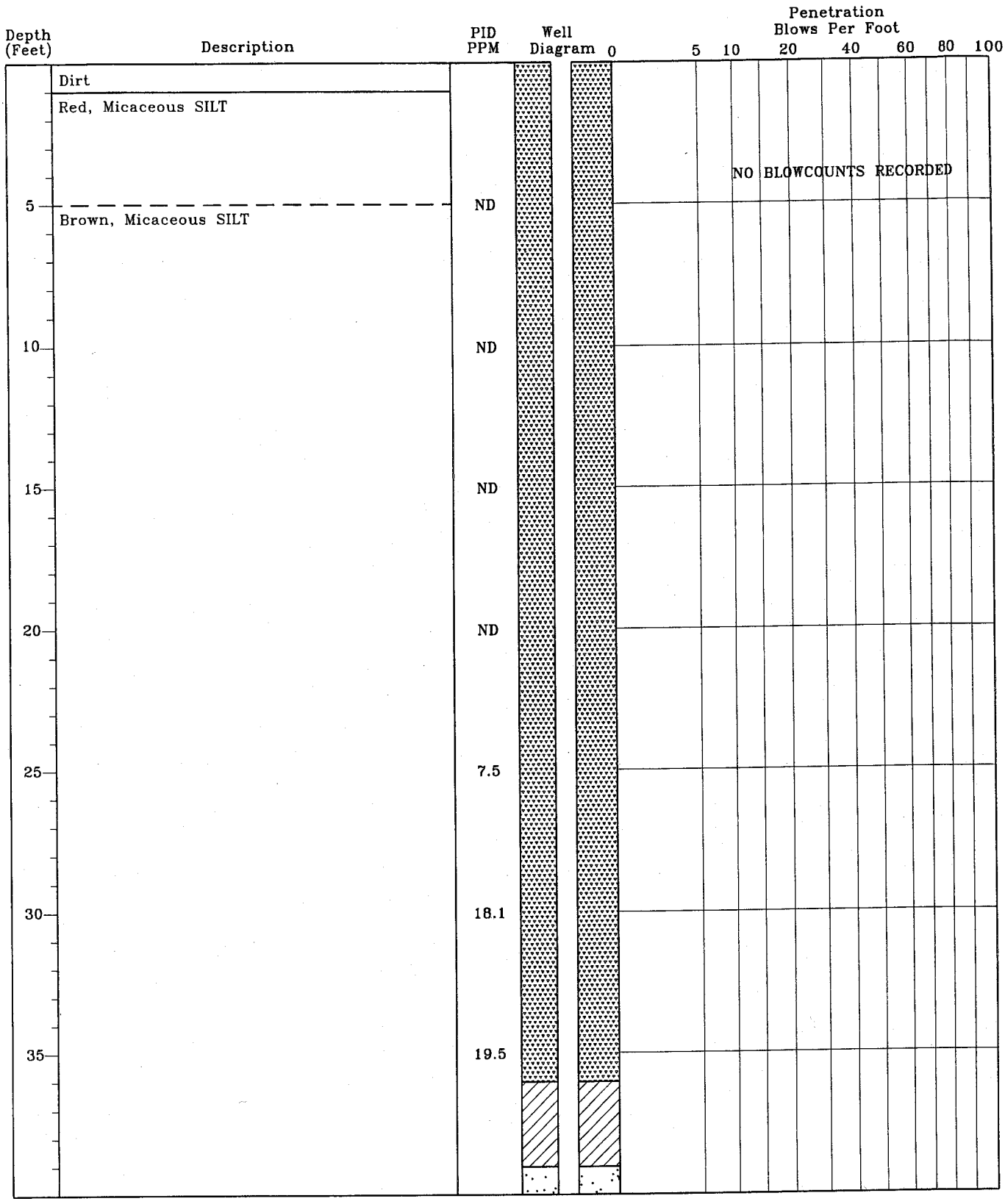
MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 09-2340



Well Number:	MW-2
Date Drilled:	7/30/09
Drilled By:	Geologic Exploration Inc.
Driller: N. Hayes	S.C. I.D. #: D 01983
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 09-2340

Boring Number:	MW-3
Date Drilled:	7/30/09
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

Depth (Feet)	Description	PID PPM	Well Diagram	Penetration Blows Per Foot 0 5 10 20 40 60 80 100
45	Brown, Micaceous SILT	19.1		NO BLOWCOUNTS RECORDED
		21.2		
50				
	Boring Terminated at 51.0 Feet Below Ground Surface (BGS). Monitoring Well Installed to 51.0 Feet BGS. Groundwater Measured at 45.23 Feet Below Top of Casing on 8/7/09.	20.3		
55				
60				
65				
70				
75				

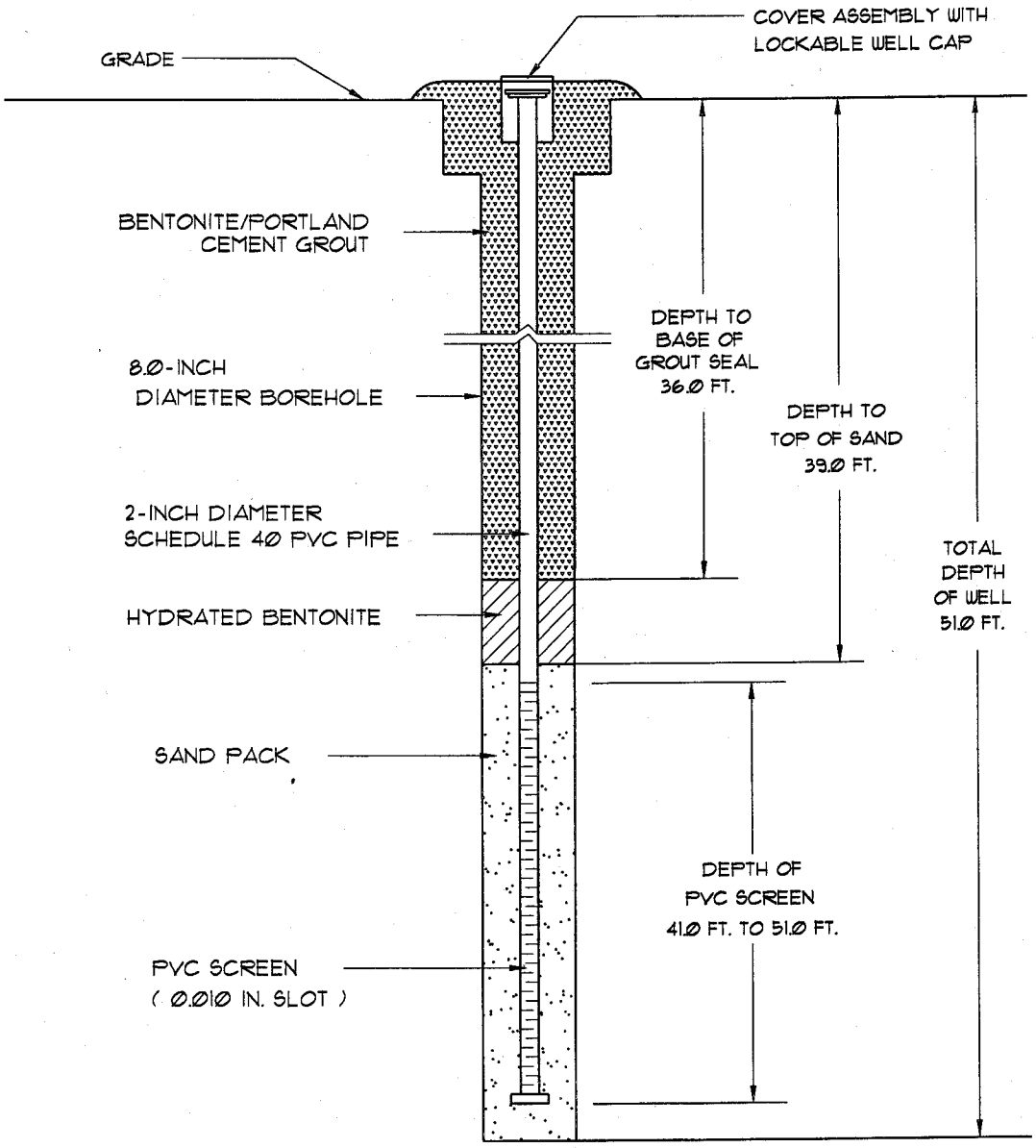
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 09-2304

Boring Number:	MW-3
Date Drilled:	7/30/09
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

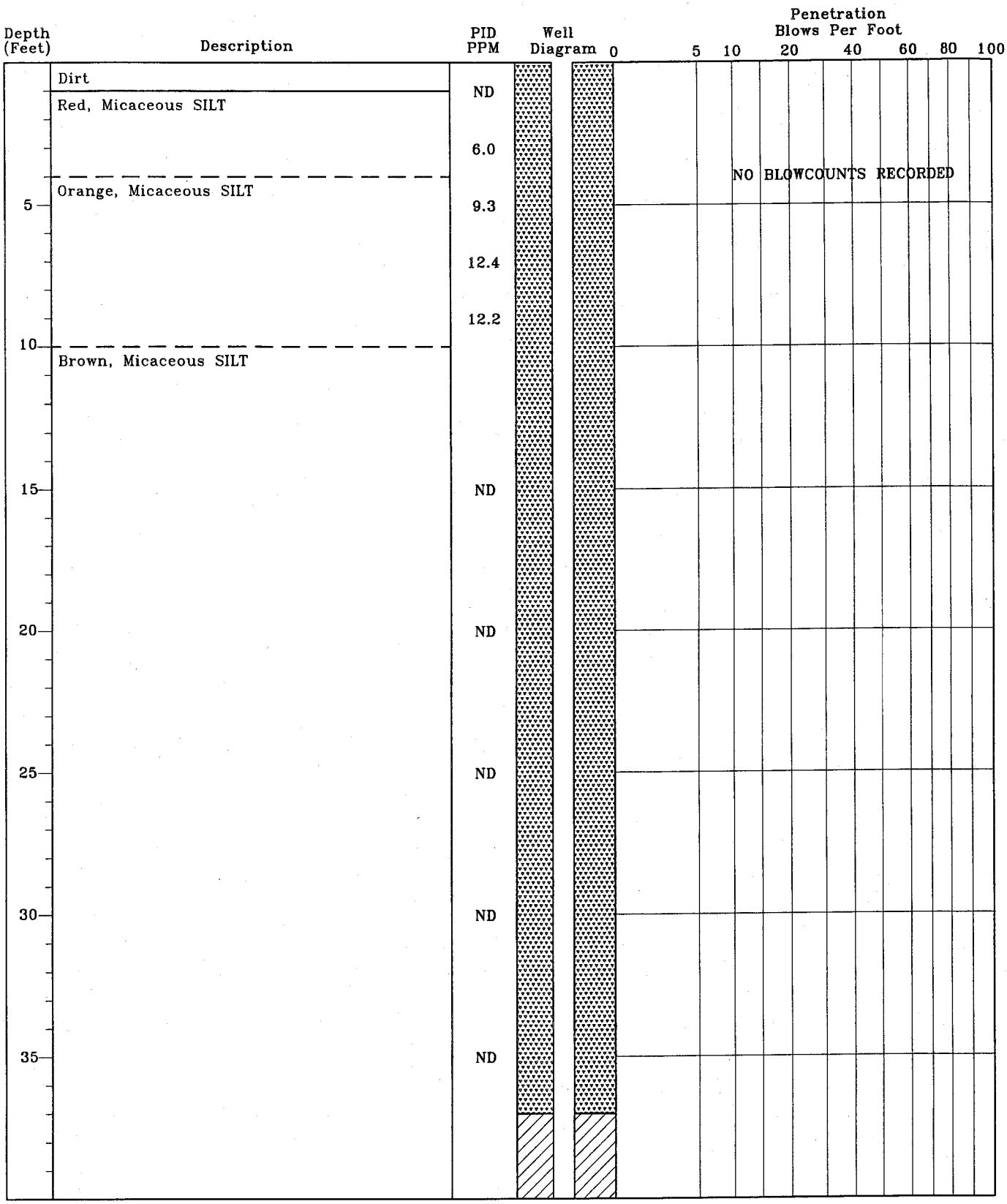
MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 09-2340



Well Number:	MW-3
Date Drilled:	7/30/09
Drilled By:	Geologic Exploration Inc.
Driller: N. Hayes	S.C. I.D. #: D 01983
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048



TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 09-2340

Boring Number:	MW-4
Date Drilled:	7/30/09
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

Depth (Feet)	Description	PID PPM	Well Diagram	Penetration Blows Per Foot 0 5 10 20 40 60 80 100
45	Brown, Micaceous SILT	ND		NO BLOWCOUNTS RECORDED
		ND		
50		27.8		
	Boring Terminated at 52.0 Feet Below Ground Surface (BGS). Monitoring Well Installed to 52.0 Feet BGS. Groundwater Measured at 49.31 Feet Below Top of Casing on 8/7/09.			
55				
60				
65				
70				
75				

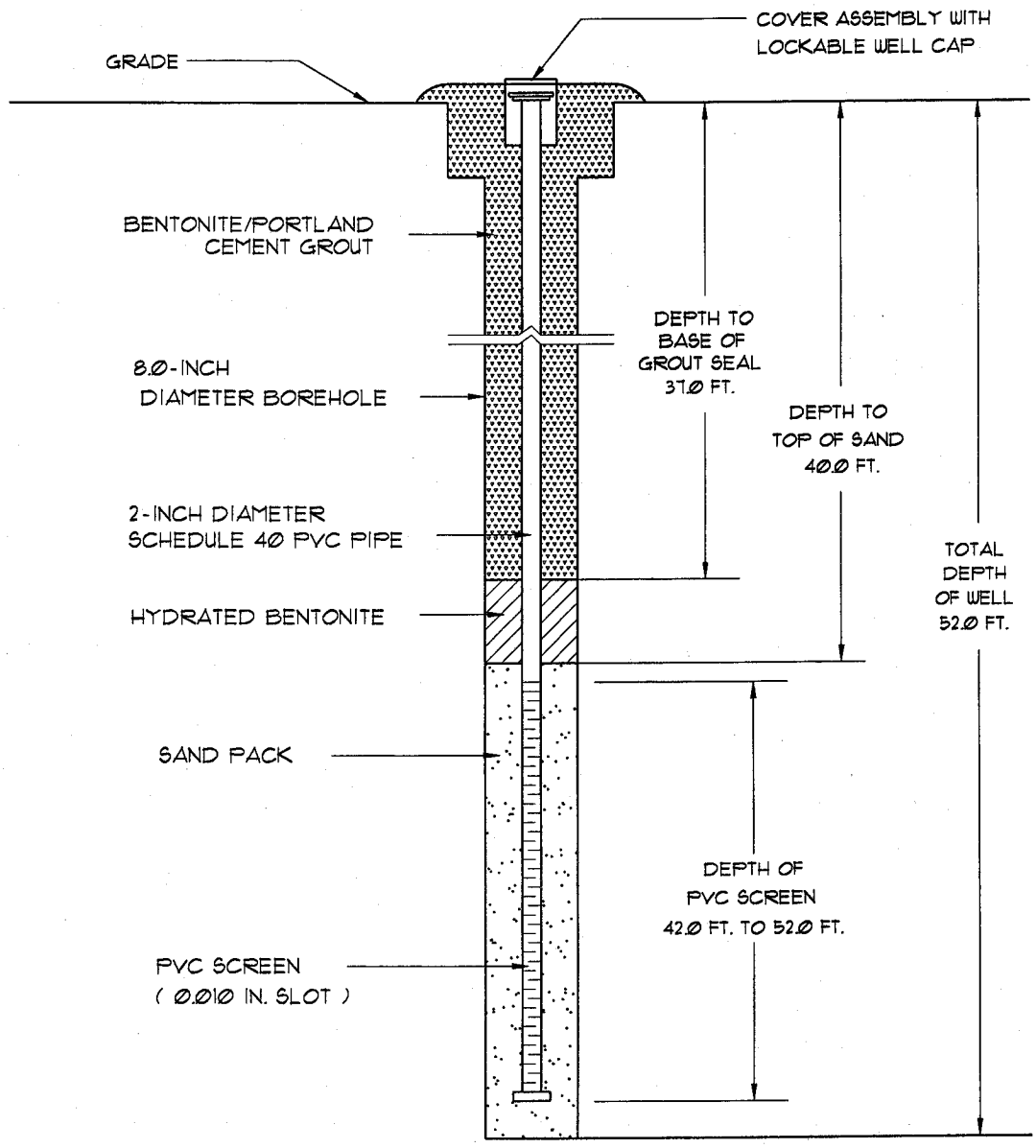
TEST BORING RECORD
McGill Grocery
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Project Number 09-2304

Boring Number:	MW-4
Date Drilled:	7/30/09
Drilled By:	Geologic Exploration Inc.
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

MONITORING WELL INSTALLATION RECORD

McGill Grocery
Iva, South Carolina
SCDHEC Site ID* 19440
MECI Project Number 09-2340



Well Number:	MW-4
Date Drilled:	7/30/09
Drilled By:	Geologic Exploration Inc.
Driller: N. Hayes	S.C. I.D. #: D 01983
Logged By:	B. Kelly

Prepared By:
Midlands Environmental Consultants, Inc.
235-B Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: ESTATE OF DONALD MCGILL (last) (first)
Address: 4520 DERRYCLARE LANE
City: EVANS State: GA Zip: 30809
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: ANDERSON
Name: MCGILLS GROCERY
Street Address: 2856 LAKE SUCESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
RED CLAYEY SILT	8.0	8.0
BROWN SILT	43.0	51.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-2 BENTONITE SEAL FROM 36.0 TO 39.0 FT.

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

7. PERMIT NUMBER:

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

9. WELL DEPTH (completed) 51.0 ft. Date Started: 07/30/09 Date Completed: 07/30/09

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 41.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 41.0 ft. and 51.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 44.0 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 39.0 ft. to 51.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 36.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: NICHOLAS HAYES CERT. NO.: 01983
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: 07/31/09
Well Driller

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: ESTATE OF DONALD MCGILL (last) (first)
Address: 4520 DERRYCLARE LANE
City: EVANS State: GA Zip: 30809
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** ANDERSON
Name: MCGILLS GROCERY
Street Address: 2856 LAKE SUCESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

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

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
RED CLAYEY SILT	8.0	8.0
BROWN SILT	43.0	51.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-3 BENTONITE SEAL FROM 36.0 TO 39.0 FT.

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

7. PERMIT NUMBER:

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

9. WELL DEPTH (completed) 51.0 ft. Date Started: 07/29/09 Date Completed: 07/30/09

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 41.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 41.0 ft. and 51.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 44.0 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 39.0 ft. to 51.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 36.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date Installed: _____ Not Installed ☐
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: NICHOLAS HAYES **CERT. NO.:** 01983
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: N. Nicholas Hayes Well Driller Date: 07/31/09

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: ESTATE OF DONALD MCGILL (last) (first)
Address: 4520 DERRYCLARE LANE
City: EVANS State: GA Zip: 30809
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** ANDERSON
Name: MCGILLS GROCERY
Street Address: 2856 LAKE SUCESSION ROAD
City: IVA Zip: 29655
Latitude: Longitude:

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

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
RED CLAYEY SILT	8.0	8.0
BROWN SILT	44.0	52.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-4 BENTONITE SEAL FROM 37.0 TO 40.0 FT.

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

7. PERMIT NUMBER:

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

9. WELL DEPTH (completed) 52.0 ft. Date Started: 07/29/09 Date Completed: 07/30/09

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 42.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 42.0 ft. and 52.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 44.0 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 40.0 ft. to 52.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 37.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: NICHOLAS HAYES CERT. NO.: 01983
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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: _____ (Well Driller) Date: 07/31/09

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

APPENDIX B
ANALYTICAL DATA

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

August 07, 2009

Mr. Bryan Shane
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

Dear Mr. Shane:
Enclosed are the analytical results for sample(s) received by the laboratory on July 30, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Renee Spencer

Renee Spencer

renee.spencer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

Charlotte Certification IDs

Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
West Virginia Certification #: 357
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 990060001
South Carolina Drinking Water Cert. #: 990060003
Tennessee Certification #: 04010
Virginia Certification #: 00213
North Carolina Field Services Certification #: 5342

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9249831001	**GPS-1 (25')**	Solid	07/28/09 09:50	07/30/09 15:45
9249831002	**GPS-2 (25')**	Solid	07/29/09 10:00	07/30/09 15:45
9249831003	**GPS-3 (10')**	Solid	07/29/09 10:40	07/30/09 15:45
9249831004	**GPS-5 (10')**	Solid	07/29/09 11:22	07/30/09 15:45
9249831005	**GPS-6 (2')**	Solid	07/29/09 12:00	07/30/09 15:45
9249831006	**GPS-7 (2')**	Solid	07/29/09 12:10	07/30/09 15:45
9249831007	**MW-3 (25')**	Solid	07/29/09 13:45	07/30/09 15:45
9249831008	**GPS-4 (10')/MW-2**	Solid	07/29/09 11:02	07/30/09 15:45
9249831009	**GPS-8 (8')/MW-8**	Solid	07/29/09 15:16	07/30/09 15:45
9249831010	**WSW-1**	Water	07/28/09 12:25	07/30/09 15:45
9249831011	**WSW-6**	Water	07/28/09 12:40	07/30/09 15:45
9249831012	**WSW-7**	Water	07/28/09 12:45	07/30/09 15:45

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9249831001	GPS-1 (25')	ASTM D2974-87	TNM	1
		EPA 8260	DLK	11
		EPA 8270	BET	21
9249831002	GPS-2 (25')	ASTM D2974-87	TNM	1
		EPA 8260	DLK	11
		EPA 8270	BET	21
9249831003	GPS-3 (10')	ASTM D2974-87	TNM	1
		EPA 8260	DLK	11
		EPA 8270	BET	21
9249831004	GPS-5 (10')	ASTM D2974-87	TNM	1
		EPA 8260	DLK	11
		EPA 8270	BET	21
9249831005	GPS-6 (2')	ASTM D2974-87	TNM	1
		EPA 8260	DLK	11
		EPA 8270	BET	21
9249831006	GPS-7 (2')	ASTM D2974-87	TNM	1
		EPA 8260	DLK	11
		EPA 8270	BET	21
9249831007	MW-3 (25')	ASTM D2974-87	TNM	1
		EPA 8260	DLK	11
		EPA 8270	BET	21
9249831008	GPS-4 (10')/MW-2	ASTM D2974-87	TNM	1
		EPA 8260	DLK	11
		EPA 8270	BET	21
9249831010	WSW-1	EPA 8260	MCK	12
9249831011	WSW-6	EPA 8260	MCK	12
9249831012	WSW-7	EPA 8260	MCK	12

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

Sample: GPS-1 (25') **Lab ID: 9249831001** Collected: 07/28/09 09:50 Received: 07/30/09 15:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	431	99.2	1	08/03/09 14:00	08/06/09 19:26	83-32-9	
Acenaphthylene	ND	ug/kg	431	102	1	08/03/09 14:00	08/06/09 19:26	208-96-8	
Anthracene	ND	ug/kg	431	96.6	1	08/03/09 14:00	08/06/09 19:26	120-12-7	
Benzo(a)anthracene	ND	ug/kg	431	79.6	1	08/03/09 14:00	08/06/09 19:26	56-55-3	
Benzo(a)pyrene	ND	ug/kg	431	82.2	1	08/03/09 14:00	08/06/09 19:26	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	431	74.4	1	08/03/09 14:00	08/06/09 19:26	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	431	110	1	08/03/09 14:00	08/06/09 19:26	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	431	84.8	1	08/03/09 14:00	08/06/09 19:26	207-08-9	
Chrysene	ND	ug/kg	431	57.4	1	08/03/09 14:00	08/06/09 19:26	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	431	91.3	1	08/03/09 14:00	08/06/09 19:26	53-70-3	
Fluoranthene	ND	ug/kg	431	62.6	1	08/03/09 14:00	08/06/09 19:26	206-44-0	
Fluorene	ND	ug/kg	431	88.7	1	08/03/09 14:00	08/06/09 19:26	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	431	88.7	1	08/03/09 14:00	08/06/09 19:26	193-39-5	
1-Methylnaphthalene	ND	ug/kg	431	112	1	08/03/09 14:00	08/06/09 19:26	90-12-0	
2-Methylnaphthalene	ND	ug/kg	431	92.6	1	08/03/09 14:00	08/06/09 19:26	91-57-6	
Naphthalene	ND	ug/kg	431	106	1	08/03/09 14:00	08/06/09 19:26	91-20-3	
Phenanthrene	ND	ug/kg	431	71.8	1	08/03/09 14:00	08/06/09 19:26	85-01-8	
Pyrene	ND	ug/kg	431	73.1	1	08/03/09 14:00	08/06/09 19:26	129-00-0	
Nitrobenzene-d5 (S)	39	%	30-150		1	08/03/09 14:00	08/06/09 19:26	4165-60-0	
2-Fluorobiphenyl (S)	47	%	46-120		1	08/03/09 14:00	08/06/09 19:26	321-60-8	
Terphenyl-d14 (S)	74	%	38-108		1	08/03/09 14:00	08/06/09 19:26	1718-51-0	
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Benzene	ND	ug/kg	5.6	1.8	1		07/31/09 19:41	71-43-2	
Ethylbenzene	**4.7J**	ug/kg	5.6	2.0	1		07/31/09 19:41	100-41-4	
Naphthalene	**2.5J**	ug/kg	5.6	1.3	1		07/31/09 19:41	91-20-3	
Toluene	**2.7J**	ug/kg	5.6	2.0	1		07/31/09 19:41	108-88-3	
Xylene (Total)	**34.0**	ug/kg	11.2	4.0	1		07/31/09 19:41	1330-20-7	
m&p-Xylene	**22.6**	ug/kg	11.2	4.0	1		07/31/09 19:41	1330-20-7	
o-Xylene	**11.4**	ug/kg	5.6	2.1	1		07/31/09 19:41	95-47-6	
Dibromofluoromethane (S)	98	%	79-116		1		07/31/09 19:41	1868-53-7	
Toluene-d8 (S)	102	%	88-110		1		07/31/09 19:41	2037-26-5	
4-Bromofluorobenzene (S)	96	%	74-115		1		07/31/09 19:41	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	69-121		1		07/31/09 19:41	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.4**	%	0.10	0.10	1		07/31/09 13:23		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

Sample: GPS-2 (25') **Lab ID: 9249831002** Collected: 07/29/09 10:00 Received: 07/30/09 15:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	418	96.4	1	08/03/09 14:00	08/06/09 19:48	83-32-9	
Acenaphthylene	ND	ug/kg	418	98.9	1	08/03/09 14:00	08/06/09 19:48	208-96-8	
Anthracene	ND	ug/kg	418	93.8	1	08/03/09 14:00	08/06/09 19:48	120-12-7	
Benzo(a)anthracene	ND	ug/kg	418	77.3	1	08/03/09 14:00	08/06/09 19:48	56-55-3	
Benzo(a)pyrene	ND	ug/kg	418	79.9	1	08/03/09 14:00	08/06/09 19:48	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	418	72.3	1	08/03/09 14:00	08/06/09 19:48	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	418	107	1	08/03/09 14:00	08/06/09 19:48	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	418	82.4	1	08/03/09 14:00	08/06/09 19:48	207-08-9	
Chrysene	ND	ug/kg	418	55.8	1	08/03/09 14:00	08/06/09 19:48	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	418	88.8	1	08/03/09 14:00	08/06/09 19:48	53-70-3	
Fluoranthene	ND	ug/kg	418	60.9	1	08/03/09 14:00	08/06/09 19:48	206-44-0	
Fluorene	ND	ug/kg	418	86.2	1	08/03/09 14:00	08/06/09 19:48	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	418	86.2	1	08/03/09 14:00	08/06/09 19:48	193-39-5	
1-Methylnaphthalene	ND	ug/kg	418	109	1	08/03/09 14:00	08/06/09 19:48	90-12-0	
2-Methylnaphthalene	ND	ug/kg	418	90.0	1	08/03/09 14:00	08/06/09 19:48	91-57-6	
Naphthalene	ND	ug/kg	418	103	1	08/03/09 14:00	08/06/09 19:48	91-20-3	
Phenanthrene	ND	ug/kg	418	69.7	1	08/03/09 14:00	08/06/09 19:48	85-01-8	
Pyrene	ND	ug/kg	418	71.0	1	08/03/09 14:00	08/06/09 19:48	129-00-0	
Nitrobenzene-d5 (S)	39	%	30-150		1	08/03/09 14:00	08/06/09 19:48	4165-60-0	
2-Fluorobiphenyl (S)	46	%	46-120		1	08/03/09 14:00	08/06/09 19:48	321-60-8	
Terphenyl-d14 (S)	82	%	38-108		1	08/03/09 14:00	08/06/09 19:48	1718-51-0	
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Benzene	ND	ug/kg	5.0	1.6	1		07/31/09 19:59	71-43-2	
Ethylbenzene	**10.5**	ug/kg	5.0	1.8	1		07/31/09 19:59	100-41-4	
Naphthalene	**1.4J**	ug/kg	5.0	1.2	1		07/31/09 19:59	91-20-3	
Toluene	**19.6**	ug/kg	5.0	1.8	1		07/31/09 19:59	108-88-3	
Xylene (Total)	**65.2**	ug/kg	9.9	3.6	1		07/31/09 19:59	1330-20-7	
m&p-Xylene	**47.1**	ug/kg	9.9	3.6	1		07/31/09 19:59	1330-20-7	
o-Xylene	**18.1**	ug/kg	5.0	1.9	1		07/31/09 19:59	95-47-6	
Dibromofluoromethane (S)	103	%	79-116		1		07/31/09 19:59	1868-53-7	
Toluene-d8 (S)	101	%	88-110		1		07/31/09 19:59	2037-26-5	
4-Bromofluorobenzene (S)	102	%	74-115		1		07/31/09 19:59	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	69-121		1		07/31/09 19:59	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.1**	%	0.10	0.10	1		07/31/09 13:24		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

Sample: GPS-3 (10') **Lab ID: 9249831003** Collected: 07/29/09 10:40 Received: 07/30/09 15:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	432	99.6	1	08/03/09 14:00	08/06/09 20:10	83-32-9	
Acenaphthylene	ND	ug/kg	432	102	1	08/03/09 14:00	08/06/09 20:10	208-96-8	
Anthracene	ND	ug/kg	432	97.0	1	08/03/09 14:00	08/06/09 20:10	120-12-7	
Benzo(a)anthracene	ND	ug/kg	432	79.9	1	08/03/09 14:00	08/06/09 20:10	56-55-3	
Benzo(a)pyrene	ND	ug/kg	432	82.6	1	08/03/09 14:00	08/06/09 20:10	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	432	74.7	1	08/03/09 14:00	08/06/09 20:10	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	432	110	1	08/03/09 14:00	08/06/09 20:10	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	432	85.2	1	08/03/09 14:00	08/06/09 20:10	207-08-9	
Chrysene	ND	ug/kg	432	57.7	1	08/03/09 14:00	08/06/09 20:10	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	432	91.7	1	08/03/09 14:00	08/06/09 20:10	53-70-3	
Fluoranthene	ND	ug/kg	432	62.9	1	08/03/09 14:00	08/06/09 20:10	206-44-0	
Fluorene	ND	ug/kg	432	89.1	1	08/03/09 14:00	08/06/09 20:10	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	432	89.1	1	08/03/09 14:00	08/06/09 20:10	193-39-5	
1-Methylnaphthalene	ND	ug/kg	432	113	1	08/03/09 14:00	08/06/09 20:10	90-12-0	
2-Methylnaphthalene	ND	ug/kg	432	93.0	1	08/03/09 14:00	08/06/09 20:10	91-57-6	
Naphthalene	ND	ug/kg	432	106	1	08/03/09 14:00	08/06/09 20:10	91-20-3	
Phenanthrene	ND	ug/kg	432	72.1	1	08/03/09 14:00	08/06/09 20:10	85-01-8	
Pyrene	ND	ug/kg	432	73.4	1	08/03/09 14:00	08/06/09 20:10	129-00-0	
Nitrobenzene-d5 (S)	76	%	30-150		1	08/03/09 14:00	08/06/09 20:10	4165-60-0	
2-Fluorobiphenyl (S)	85	%	46-120		1	08/03/09 14:00	08/06/09 20:10	321-60-8	
Terphenyl-d14 (S)	101	%	38-108		1	08/03/09 14:00	08/06/09 20:10	1718-51-0	
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Benzene	ND	ug/kg	5.5	1.8	1		07/31/09 20:36	71-43-2	
Ethylbenzene	**4.9J**	ug/kg	5.5	2.0	1		07/31/09 20:36	100-41-4	
Naphthalene	**8.1**	ug/kg	5.5	1.3	1		07/31/09 20:36	91-20-3	
Toluene	**5.4J**	ug/kg	5.5	2.0	1		07/31/09 20:36	108-88-3	
Xylene (Total)	**35.6**	ug/kg	11.0	4.0	1		07/31/09 20:36	1330-20-7	
m&p-Xylene	**23.9**	ug/kg	11.0	4.0	1		07/31/09 20:36	1330-20-7	
o-Xylene	**11.7**	ug/kg	5.5	2.1	1		07/31/09 20:36	95-47-6	
Dibromofluoromethane (S)	101	%	79-116		1		07/31/09 20:36	1868-53-7	
Toluene-d8 (S)	102	%	88-110		1		07/31/09 20:36	2037-26-5	
4-Bromofluorobenzene (S)	101	%	74-115		1		07/31/09 20:36	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	69-121		1		07/31/09 20:36	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.7**	%	0.10	0.10	1		07/31/09 13:24		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

Sample: GPS-4 (10')/MW-2 **Lab ID: 9249831008** Collected: 07/29/09 11:02 Received: 07/30/09 15:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	391	90.0	1	08/03/09 14:00	08/06/09 22:00	83-32-9	
Acenaphthylene	ND	ug/kg	391	92.4	1	08/03/09 14:00	08/06/09 22:00	208-96-8	
Anthracene	ND	ug/kg	391	87.6	1	08/03/09 14:00	08/06/09 22:00	120-12-7	
Benzo(a)anthracene	ND	ug/kg	391	72.2	1	08/03/09 14:00	08/06/09 22:00	56-55-3	
Benzo(a)pyrene	ND	ug/kg	391	74.6	1	08/03/09 14:00	08/06/09 22:00	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	391	67.5	1	08/03/09 14:00	08/06/09 22:00	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	391	99.5	1	08/03/09 14:00	08/06/09 22:00	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	391	77.0	1	08/03/09 14:00	08/06/09 22:00	207-08-9	
Chrysene	ND	ug/kg	391	52.1	1	08/03/09 14:00	08/06/09 22:00	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	391	82.9	1	08/03/09 14:00	08/06/09 22:00	53-70-3	
Fluoranthene	**106J**	ug/kg	391	56.8	1	08/03/09 14:00	08/06/09 22:00	206-44-0	
Fluorene	ND	ug/kg	391	80.5	1	08/03/09 14:00	08/06/09 22:00	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	391	80.5	1	08/03/09 14:00	08/06/09 22:00	193-39-5	
1-Methylnaphthalene	**6340**	ug/kg	3910	1020	10	08/03/09 14:00	08/07/09 09:56	90-12-0	
2-Methylnaphthalene	**14100**	ug/kg	3910	841	10	08/03/09 14:00	08/07/09 09:56	91-57-6	
Naphthalene	**28100**	ug/kg	3910	959	10	08/03/09 14:00	08/07/09 09:56	91-20-3	
Phenanthrene	**104J**	ug/kg	391	65.1	1	08/03/09 14:00	08/06/09 22:00	85-01-8	
Pyrene	**115J**	ug/kg	391	66.3	1	08/03/09 14:00	08/06/09 22:00	129-00-0	
Nitrobenzene-d5 (S)	67	%	30-150		1	08/03/09 14:00	08/06/09 22:00	4165-60-0	
2-Fluorobiphenyl (S)	49	%	46-120		1	08/03/09 14:00	08/06/09 22:00	321-60-8	
Terphenyl-d14 (S)	62	%	38-108		1	08/03/09 14:00	08/06/09 22:00	1718-51-0	
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Benzene	ND	ug/kg	2700	864	500		07/31/09 21:12	71-43-2	
Ethylbenzene	**209000**	ug/kg	27000	9720	5000		08/01/09 11:12	100-41-4	
Naphthalene	**147000**	ug/kg	27000	6480	5000		08/01/09 11:12	91-20-3	
Toluene	**208000**	ug/kg	27000	9720	5000		08/01/09 11:12	108-88-3	
Xylene (Total)	**1620000**	ug/kg	54000	19400	5000		08/01/09 11:12	1330-20-7	
m&p-Xylene	**1100000**	ug/kg	54000	19400	5000		08/01/09 11:12	1330-20-7	
o-Xylene	**514000**	ug/kg	27000	10300	5000		08/01/09 11:12	95-47-6	
Dibromofluoromethane (S)	104	%	79-116		500		07/31/09 21:12	1868-53-7	
Toluene-d8 (S)	102	%	88-110		500		07/31/09 21:12	2037-26-5	
4-Bromofluorobenzene (S)	106	%	74-115		500		07/31/09 21:12	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	69-121		500		07/31/09 21:12	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.5**	%	0.10	0.10	1		07/31/09 13:25		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

Sample: GPS-5 (10') **Lab ID: 9249831004** Collected: 07/29/09 11:22 Received: 07/30/09 15:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	421	96.9	1	08/03/09 14:00	08/06/09 20:32	83-32-9	
Acenaphthylene	ND	ug/kg	421	99.5	1	08/03/09 14:00	08/06/09 20:32	208-96-8	
Anthracene	ND	ug/kg	421	94.4	1	08/03/09 14:00	08/06/09 20:32	120-12-7	
Benzo(a)anthracene	ND	ug/kg	421	77.8	1	08/03/09 14:00	08/06/09 20:32	56-55-3	
Benzo(a)pyrene	ND	ug/kg	421	80.4	1	08/03/09 14:00	08/06/09 20:32	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	421	72.7	1	08/03/09 14:00	08/06/09 20:32	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	421	107	1	08/03/09 14:00	08/06/09 20:32	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	421	82.9	1	08/03/09 14:00	08/06/09 20:32	207-08-9	
Chrysene	ND	ug/kg	421	56.1	1	08/03/09 14:00	08/06/09 20:32	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	421	89.3	1	08/03/09 14:00	08/06/09 20:32	53-70-3	
Fluoranthene	ND	ug/kg	421	61.2	1	08/03/09 14:00	08/06/09 20:32	206-44-0	
Fluorene	ND	ug/kg	421	86.7	1	08/03/09 14:00	08/06/09 20:32	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	421	86.7	1	08/03/09 14:00	08/06/09 20:32	193-39-5	
1-Methylnaphthalene	ND	ug/kg	421	110	1	08/03/09 14:00	08/06/09 20:32	90-12-0	
2-Methylnaphthalene	ND	ug/kg	421	90.6	1	08/03/09 14:00	08/06/09 20:32	91-57-6	
Naphthalene	ND	ug/kg	421	103	1	08/03/09 14:00	08/06/09 20:32	91-20-3	
Phenanthrene	ND	ug/kg	421	70.2	1	08/03/09 14:00	08/06/09 20:32	85-01-8	
Pyrene	ND	ug/kg	421	71.4	1	08/03/09 14:00	08/06/09 20:32	129-00-0	
Nitrobenzene-d5 (S)	63	%	30-150		1	08/03/09 14:00	08/06/09 20:32	4165-60-0	
2-Fluorobiphenyl (S)	70	%	46-120		1	08/03/09 14:00	08/06/09 20:32	321-60-8	
Terphenyl-d14 (S)	90	%	38-108		1	08/03/09 14:00	08/06/09 20:32	1718-51-0	
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Benzene	ND	ug/kg	7.3	2.3	1		07/31/09 20:54	71-43-2	
Ethylbenzene	**6.8J**	ug/kg	7.3	2.6	1		07/31/09 20:54	100-41-4	
Naphthalene	**44.1**	ug/kg	7.3	1.8	1		07/31/09 20:54	91-20-3	
Toluene	**15.4**	ug/kg	7.3	2.6	1		07/31/09 20:54	108-88-3	
Xylene (Total)	**50.8**	ug/kg	14.6	5.3	1		07/31/09 20:54	1330-20-7	
m&p-Xylene	**34.9**	ug/kg	14.6	5.3	1		07/31/09 20:54	1330-20-7	
o-Xylene	**16.0**	ug/kg	7.3	2.8	1		07/31/09 20:54	95-47-6	
Dibromofluoromethane (S)	101	%	79-116		1		07/31/09 20:54	1868-53-7	
Toluene-d8 (S)	102	%	88-110		1		07/31/09 20:54	2037-26-5	
4-Bromofluorobenzene (S)	100	%	74-115		1		07/31/09 20:54	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	69-121		1		07/31/09 20:54	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.6**	%	0.10	0.10	1		07/31/09 13:24		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

Sample: GPS-6 (2') **Lab ID: 9249831005** Collected: 07/29/09 12:00 Received: 07/30/09 15:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	420	96.8	1	08/03/09 14:00	08/06/09 20:54	83-32-9	
Acenaphthylene	ND	ug/kg	420	99.4	1	08/03/09 14:00	08/06/09 20:54	208-96-8	
Anthracene	ND	ug/kg	420	94.3	1	08/03/09 14:00	08/06/09 20:54	120-12-7	
Benzo(a)anthracene	ND	ug/kg	420	77.7	1	08/03/09 14:00	08/06/09 20:54	56-55-3	
Benzo(a)pyrene	ND	ug/kg	420	80.2	1	08/03/09 14:00	08/06/09 20:54	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	420	72.6	1	08/03/09 14:00	08/06/09 20:54	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	420	107	1	08/03/09 14:00	08/06/09 20:54	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	420	82.8	1	08/03/09 14:00	08/06/09 20:54	207-08-9	
Chrysene	ND	ug/kg	420	56.0	1	08/03/09 14:00	08/06/09 20:54	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	420	89.2	1	08/03/09 14:00	08/06/09 20:54	53-70-3	
Fluoranthene	ND	ug/kg	420	61.1	1	08/03/09 14:00	08/06/09 20:54	206-44-0	
Fluorene	ND	ug/kg	420	86.6	1	08/03/09 14:00	08/06/09 20:54	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	420	86.6	1	08/03/09 14:00	08/06/09 20:54	193-39-5	
1-Methylnaphthalene	ND	ug/kg	420	110	1	08/03/09 14:00	08/06/09 20:54	90-12-0	
2-Methylnaphthalene	ND	ug/kg	420	90.4	1	08/03/09 14:00	08/06/09 20:54	91-57-6	
Naphthalene	ND	ug/kg	420	103	1	08/03/09 14:00	08/06/09 20:54	91-20-3	
Phenanthrene	ND	ug/kg	420	70.1	1	08/03/09 14:00	08/06/09 20:54	85-01-8	
Pyrene	ND	ug/kg	420	71.3	1	08/03/09 14:00	08/06/09 20:54	129-00-0	
Nitrobenzene-d5 (S)	37	%	30-150		1	08/03/09 14:00	08/06/09 20:54	4165-60-0	
2-Fluorobiphenyl (S)	47	%	46-120		1	08/03/09 14:00	08/06/09 20:54	321-60-8	
Terphenyl-d14 (S)	84	%	38-108		1	08/03/09 14:00	08/06/09 20:54	1718-51-0	
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Benzene	ND	ug/kg	8.2	2.6	1		08/01/09 16:24	71-43-2	
Ethylbenzene	ND	ug/kg	8.2	3.0	1		08/01/09 16:24	100-41-4	
Naphthalene	**4.7J**	ug/kg	8.2	2.0	1		08/01/09 16:24	91-20-3	
Toluene	ND	ug/kg	8.2	3.0	1		08/01/09 16:24	108-88-3	
Xylene (Total)	**19.6**	ug/kg	16.4	5.9	1		08/01/09 16:24	1330-20-7	
m&p-Xylene	**12.6J**	ug/kg	16.4	5.9	1		08/01/09 16:24	1330-20-7	
o-Xylene	**7.0J**	ug/kg	8.2	3.1	1		08/01/09 16:24	95-47-6	
Dibromofluoromethane (S)	98	%	79-116		1		08/01/09 16:24	1868-53-7	
Toluene-d8 (S)	102	%	88-110		1		08/01/09 16:24	2037-26-5	
4-Bromofluorobenzene (S)	102	%	74-115		1		08/01/09 16:24	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	69-121		1		08/01/09 16:24	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.5**	%	0.10	0.10	1		07/31/09 13:24		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

Sample: GPS-7 (2') **Lab ID: 9249831006** Collected: 07/29/09 12:10 Received: 07/30/09 15:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	421	97.0	1	08/03/09 14:00	08/06/09 21:16	83-32-9	
Acenaphthylene	ND	ug/kg	421	99.6	1	08/03/09 14:00	08/06/09 21:16	208-96-8	
Anthracene	ND	ug/kg	421	94.5	1	08/03/09 14:00	08/06/09 21:16	120-12-7	
Benzo(a)anthracene	ND	ug/kg	421	77.9	1	08/03/09 14:00	08/06/09 21:16	56-55-3	
Benzo(a)pyrene	ND	ug/kg	421	80.4	1	08/03/09 14:00	08/06/09 21:16	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	421	72.8	1	08/03/09 14:00	08/06/09 21:16	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	421	107	1	08/03/09 14:00	08/06/09 21:16	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	421	83.0	1	08/03/09 14:00	08/06/09 21:16	207-08-9	
Chrysene	ND	ug/kg	421	56.2	1	08/03/09 14:00	08/06/09 21:16	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	421	89.4	1	08/03/09 14:00	08/06/09 21:16	53-70-3	
Fluoranthene	ND	ug/kg	421	61.3	1	08/03/09 14:00	08/06/09 21:16	206-44-0	
Fluorene	ND	ug/kg	421	86.8	1	08/03/09 14:00	08/06/09 21:16	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	421	86.8	1	08/03/09 14:00	08/06/09 21:16	193-39-5	
1-Methylnaphthalene	ND	ug/kg	421	110	1	08/03/09 14:00	08/06/09 21:16	90-12-0	
2-Methylnaphthalene	ND	ug/kg	421	90.7	1	08/03/09 14:00	08/06/09 21:16	91-57-6	
Naphthalene	ND	ug/kg	421	103	1	08/03/09 14:00	08/06/09 21:16	91-20-3	
Phenanthrene	ND	ug/kg	421	70.2	1	08/03/09 14:00	08/06/09 21:16	85-01-8	
Pyrene	ND	ug/kg	421	71.5	1	08/03/09 14:00	08/06/09 21:16	129-00-0	
Nitrobenzene-d5 (S)	75	%	30-150		1	08/03/09 14:00	08/06/09 21:16	4165-60-0	
2-Fluorobiphenyl (S)	81	%	46-120		1	08/03/09 14:00	08/06/09 21:16	321-60-8	
Terphenyl-d14 (S)	103	%	38-108		1	08/03/09 14:00	08/06/09 21:16	1718-51-0	
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Benzene	ND	ug/kg	6.2	2.0	1		08/01/09 16:42	71-43-2	
Ethylbenzene	**5.2J**	ug/kg	6.2	2.2	1		08/01/09 16:42	100-41-4	
Naphthalene	**2.7J**	ug/kg	6.2	1.5	1		08/01/09 16:42	91-20-3	
Toluene	**9.7**	ug/kg	6.2	2.2	1		08/01/09 16:42	108-88-3	
Xylene (Total)	**33.0**	ug/kg	12.3	4.4	1		08/01/09 16:42	1330-20-7	
m&p-Xylene	**23.3**	ug/kg	12.3	4.4	1		08/01/09 16:42	1330-20-7	
o-Xylene	**9.8**	ug/kg	6.2	2.3	1		08/01/09 16:42	95-47-6	
Dibromofluoromethane (S)	102	%	79-116		1		08/01/09 16:42	1868-53-7	
Toluene-d8 (S)	102	%	88-110		1		08/01/09 16:42	2037-26-5	
4-Bromofluorobenzene (S)	100	%	74-115		1		08/01/09 16:42	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	69-121		1		08/01/09 16:42	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.7**	%	0.10	0.10	1		07/31/09 13:25		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

Sample: MW-3 (25') **Lab ID: 9249831007** Collected: 07/29/09 13:45 Received: 07/30/09 15:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	449	103	1	08/03/09 14:00	08/06/09 21:38	83-32-9	
Acenaphthylene	ND	ug/kg	449	106	1	08/03/09 14:00	08/06/09 21:38	208-96-8	
Anthracene	ND	ug/kg	449	101	1	08/03/09 14:00	08/06/09 21:38	120-12-7	
Benzo(a)anthracene	ND	ug/kg	449	82.9	1	08/03/09 14:00	08/06/09 21:38	56-55-3	
Benzo(a)pyrene	ND	ug/kg	449	85.6	1	08/03/09 14:00	08/06/09 21:38	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	449	77.5	1	08/03/09 14:00	08/06/09 21:38	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	449	114	1	08/03/09 14:00	08/06/09 21:38	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	449	88.4	1	08/03/09 14:00	08/06/09 21:38	207-08-9	
Chrysene	ND	ug/kg	449	59.8	1	08/03/09 14:00	08/06/09 21:38	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	449	95.2	1	08/03/09 14:00	08/06/09 21:38	53-70-3	
Fluoranthene	ND	ug/kg	449	65.3	1	08/03/09 14:00	08/06/09 21:38	206-44-0	
Fluorene	ND	ug/kg	449	92.4	1	08/03/09 14:00	08/06/09 21:38	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	449	92.4	1	08/03/09 14:00	08/06/09 21:38	193-39-5	
1-Methylnaphthalene	ND	ug/kg	449	117	1	08/03/09 14:00	08/06/09 21:38	90-12-0	
2-Methylnaphthalene	ND	ug/kg	449	96.5	1	08/03/09 14:00	08/06/09 21:38	91-57-6	
Naphthalene	ND	ug/kg	449	110	1	08/03/09 14:00	08/06/09 21:38	91-20-3	
Phenanthrene	ND	ug/kg	449	74.8	1	08/03/09 14:00	08/06/09 21:38	85-01-8	
Pyrene	ND	ug/kg	449	76.1	1	08/03/09 14:00	08/06/09 21:38	129-00-0	
Nitrobenzene-d5 (S)	59	%	30-150		1	08/03/09 14:00	08/06/09 21:38	4165-60-0	
2-Fluorobiphenyl (S)	65	%	46-120		1	08/03/09 14:00	08/06/09 21:38	321-60-8	
Terphenyl-d14 (S)	96	%	38-108		1	08/03/09 14:00	08/06/09 21:38	1718-51-0	
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Benzene	ND	ug/kg	7.2	2.3	1		08/01/09 17:01	71-43-2	
Ethylbenzene	ND	ug/kg	7.2	2.6	1		08/01/09 17:01	100-41-4	
Naphthalene	ND	ug/kg	7.2	1.7	1		08/01/09 17:01	91-20-3	
Toluene	ND	ug/kg	7.2	2.6	1		08/01/09 17:01	108-88-3	
Xylene (Total)	**11.4J**	ug/kg	14.4	5.2	1		08/01/09 17:01	1330-20-7	
m&p-Xylene	**7.9J**	ug/kg	14.4	5.2	1		08/01/09 17:01	1330-20-7	
o-Xylene	**3.5J**	ug/kg	7.2	2.7	1		08/01/09 17:01	95-47-6	
Dibromofluoromethane (S)	101	%	79-116		1		08/01/09 17:01	1868-53-7	
Toluene-d8 (S)	101	%	88-110		1		08/01/09 17:01	2037-26-5	
4-Bromofluorobenzene (S)	101	%	74-115		1		08/01/09 17:01	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	69-121		1		08/01/09 17:01	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**26.4**	%	0.10	0.10	1		07/31/09 13:25		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

Sample: WSW-1 **Lab ID: 9249831010** Collected: 07/28/09 12:25 Received: 07/30/09 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		08/05/09 16:36	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/05/09 16:36	100-41-4	
Methyl-tert-butyl ether	**16.1**	ug/L	5.0	2.0	1		08/05/09 16:36	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		08/05/09 16:36	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		08/05/09 16:36	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		08/05/09 16:36	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/05/09 16:36	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		08/05/09 16:36	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		08/05/09 16:36	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		08/05/09 16:36	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	79-120		1		08/05/09 16:36	17060-07-0	
Toluene-d8 (S)	97	%	70-120		1		08/05/09 16:36	2037-26-5	

Sample: WSW-6 **Lab ID: 9249831011** Collected: 07/28/09 12:40 Received: 07/30/09 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		08/05/09 16:54	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/05/09 16:54	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		08/05/09 16:54	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		08/05/09 16:54	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		08/05/09 16:54	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		08/05/09 16:54	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/05/09 16:54	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		08/05/09 16:54	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		08/05/09 16:54	460-00-4	
Dibromofluoromethane (S)	96	%	85-115		1		08/05/09 16:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	79-120		1		08/05/09 16:54	17060-07-0	
Toluene-d8 (S)	96	%	70-120		1		08/05/09 16:54	2037-26-5	

Sample: WSW-7 **Lab ID: 9249831012** Collected: 07/28/09 12:45 Received: 07/30/09 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		08/05/09 17:12	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/05/09 17:12	100-41-4	
Methyl-tert-butyl ether	**2.2J**	ug/L	5.0	2.0	1		08/05/09 17:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		08/05/09 17:12	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		08/05/09 17:12	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		08/05/09 17:12	1330-20-7	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

Sample: WSW-7 **Lab ID: 9249831012** Collected: 07/28/09 12:45 Received: 07/30/09 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/05/09 17:12	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		08/05/09 17:12	95-47-6	
4-Bromofluorobenzene (S)	102	%	87-109		1		08/05/09 17:12	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		08/05/09 17:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	79-120		1		08/05/09 17:12	17060-07-0	
Toluene-d8 (S)	97	%	70-120		1		08/05/09 17:12	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

QC Batch: MSV/7827 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 9249831005, 9249831006, 9249831007

METHOD BLANK: 316837 Matrix: Solid
Associated Lab Samples: 9249831005, 9249831006, 9249831007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	08/01/09 10:54	
Ethylbenzene	ug/kg	ND	5.0	08/01/09 10:54	
m&p-Xylene	ug/kg	ND	10.0	08/01/09 10:54	
Naphthalene	ug/kg	2.2J	5.0	08/01/09 10:54	
o-Xylene	ug/kg	ND	5.0	08/01/09 10:54	
Toluene	ug/kg	ND	5.0	08/01/09 10:54	
Xylene (Total)	ug/kg	ND	10.0	08/01/09 10:54	
1,2-Dichloroethane-d4 (S)	%	89	69-121	08/01/09 10:54	
4-Bromofluorobenzene (S)	%	99	74-115	08/01/09 10:54	
Dibromofluoromethane (S)	%	100	79-116	08/01/09 10:54	
Toluene-d8 (S)	%	102	88-110	08/01/09 10:54	

LABORATORY CONTROL SAMPLE: 316838

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	50	60.2	120	71-140	
Ethylbenzene	ug/kg	50	61.8	124	69-141	
m&p-Xylene	ug/kg	100	126	126	72-138	
Naphthalene	ug/kg	50	56.3	113	61-138	
o-Xylene	ug/kg	50	63.5	127	74-137	
Toluene	ug/kg	50	60.0	120	69-139	
Xylene (Total)	ug/kg	150	189	126	73-138	
1,2-Dichloroethane-d4 (S)	%			83	69-121	
4-Bromofluorobenzene (S)	%			101	74-115	
Dibromofluoromethane (S)	%			97	79-116	
Toluene-d8 (S)	%			102	88-110	

MATRIX SPIKE SAMPLE: 316933

Parameter	Units	9249849001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	ND	57	41.7	70	46-143	
Toluene	ug/kg	ND	57	35.8	61	38-145	
1,2-Dichloroethane-d4 (S)	%				114	69-121	
4-Bromofluorobenzene (S)	%				91	74-115	
Dibromofluoromethane (S)	%				108	79-116	
Toluene-d8 (S)	%				98	88-110	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

SAMPLE DUPLICATE: 316932

Parameter	Units	9249917001 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	
m&p-Xylene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	1.6J		30	
o-Xylene	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	88	107	30		
4-Bromofluorobenzene (S)	%	97	95	8		
Dibromofluoromethane (S)	%	99	100	12		
Toluene-d8 (S)	%	102	101	10		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

QC Batch: MSV/7869 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 9249831010, 9249831011, 9249831012

METHOD BLANK: 318028 Matrix: Water
Associated Lab Samples: 9249831010, 9249831011, 9249831012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	5.0	08/05/09 10:53	
Ethylbenzene	ug/L	ND	5.0	08/05/09 10:53	
m&p-Xylene	ug/L	ND	10.0	08/05/09 10:53	
Methyl-tert-butyl ether	ug/L	ND	5.0	08/05/09 10:53	
Naphthalene	ug/L	ND	5.0	08/05/09 10:53	
o-Xylene	ug/L	ND	5.0	08/05/09 10:53	
Toluene	ug/L	ND	5.0	08/05/09 10:53	
Xylene (Total)	ug/L	ND	10.0	08/05/09 10:53	
1,2-Dichloroethane-d4 (S)	%	98	79-120	08/05/09 10:53	
4-Bromofluorobenzene (S)	%	100	87-109	08/05/09 10:53	
Dibromofluoromethane (S)	%	96	85-115	08/05/09 10:53	
Toluene-d8 (S)	%	97	70-120	08/05/09 10:53	

LABORATORY CONTROL SAMPLE: 318029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	49.5	99	78-128	
Ethylbenzene	ug/L	50	51.0	102	80-127	
m&p-Xylene	ug/L	100	104	104	82-127	
Methyl-tert-butyl ether	ug/L	50	49.2	98	71-130	
Naphthalene	ug/L	50	50.2	100	52-136	
o-Xylene	ug/L	50	52.2	104	83-124	
Toluene	ug/L	50	50.3	101	76-126	
Xylene (Total)	ug/L	150	157	104	83-125	
1,2-Dichloroethane-d4 (S)	%			97	79-120	
4-Bromofluorobenzene (S)	%			104	87-109	
Dibromofluoromethane (S)	%			97	85-115	
Toluene-d8 (S)	%			98	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 318030 318031

Parameter	Units	9249756010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	2.6J	50	50	63.5	56.2	122	107	74-136	12	30	
Toluene	ug/L	ND	50	50	61.0	54.5	121	108	73-131	11	30	
1,2-Dichloroethane-d4 (S)	%						95	96	79-120			
4-Bromofluorobenzene (S)	%						102	104	87-109			
Dibromofluoromethane (S)	%						95	96	85-115			
Toluene-d8 (S)	%						96	98	70-120			

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

QC Batch: PMST/2623 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9249831001, 9249831002, 9249831003, 9249831004, 9249831005, 9249831006, 9249831007, 9249831008

SAMPLE DUPLICATE: 315965

Parameter	Units	9249818001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	30.6	31.4	3	25	

SAMPLE DUPLICATE: 315966

Parameter	Units	9249829006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.5	15.5	.3	25	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

QC Batch: OEXT/7585 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 9249831001, 9249831002, 9249831003, 9249831004, 9249831005, 9249831006, 9249831007, 9249831008

METHOD BLANK: 317143 Matrix: Solid
Associated Lab Samples: 9249831001, 9249831002, 9249831003, 9249831004, 9249831005, 9249831006, 9249831007, 9249831008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	330	08/05/09 19:48	
2-Methylnaphthalene	ug/kg	ND	330	08/05/09 19:48	
Acenaphthene	ug/kg	ND	330	08/05/09 19:48	
Acenaphthylene	ug/kg	ND	330	08/05/09 19:48	
Anthracene	ug/kg	ND	330	08/05/09 19:48	
Benzo(a)anthracene	ug/kg	ND	330	08/05/09 19:48	
Benzo(a)pyrene	ug/kg	ND	330	08/05/09 19:48	
Benzo(b)fluoranthene	ug/kg	ND	330	08/05/09 19:48	
Benzo(g,h,i)perylene	ug/kg	ND	330	08/05/09 19:48	
Benzo(k)fluoranthene	ug/kg	ND	330	08/05/09 19:48	
Chrysene	ug/kg	ND	330	08/05/09 19:48	
Dibenz(a,h)anthracene	ug/kg	ND	330	08/05/09 19:48	
Fluoranthene	ug/kg	ND	330	08/05/09 19:48	
Fluorene	ug/kg	ND	330	08/05/09 19:48	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	08/05/09 19:48	
Naphthalene	ug/kg	ND	330	08/05/09 19:48	
Phenanthrene	ug/kg	ND	330	08/05/09 19:48	
Pyrene	ug/kg	ND	330	08/05/09 19:48	
2-Fluorobiphenyl (S)	%	84	46-120	08/05/09 19:48	
Nitrobenzene-d5 (S)	%	79	30-150	08/05/09 19:48	
Terphenyl-d14 (S)	%	94	38-108	08/05/09 19:48	

LABORATORY CONTROL SAMPLE: 317144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	1670	904	54	50-150	
2-Methylnaphthalene	ug/kg	1670	895	54	50-150	
Acenaphthene	ug/kg	1670	1160	70	50-150	
Acenaphthylene	ug/kg	1670	1290	78	50-150	
Anthracene	ug/kg	1670	1400	84	50-150	
Benzo(a)anthracene	ug/kg	1670	1290	77	50-150	
Benzo(a)pyrene	ug/kg	1670	1140	69	50-150	
Benzo(b)fluoranthene	ug/kg	1670	851	51	50-150	
Benzo(g,h,i)perylene	ug/kg	1670	1410	85	24-117	
Benzo(k)fluoranthene	ug/kg	1670	855	51	50-150	
Chrysene	ug/kg	1670	1390	83	50-150	
Dibenz(a,h)anthracene	ug/kg	1670	1640	98	17-128	
Fluoranthene	ug/kg	1670	1410	84	50-150	
Fluorene	ug/kg	1670	1100	66	50-150	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1620	97	19-128	
Naphthalene	ug/kg	1670	1180	71	50-150	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

LABORATORY CONTROL SAMPLE: 317144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	1670	1270	76	50-150	
Pyrene	ug/kg	1670	1540	92	50-150	
2-Fluorobiphenyl (S)	%			69	46-120	
Nitrobenzene-d5 (S)	%			62	30-150	
Terphenyl-d14 (S)	%			78	38-108	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 317145 317146

Parameter	Units	9249831001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	ND	2180	2180	1240	1370	57	63	50-150	10	30	
2-Methylnaphthalene	ug/kg	ND	2180	2180	1240	1370	57	63	50-150	10	30	
Acenaphthene	ug/kg	ND	2180	2180	1620	1790	75	82	50-150	10	30	
Acenaphthylene	ug/kg	ND	2180	2180	1840	1990	85	91	50-150	8	30	
Anthracene	ug/kg	ND	2180	2180	1910	2120	88	97	50-150	10	30	
Benzo(a)anthracene	ug/kg	ND	2180	2180	1700	1860	78	86	50-150	9	30	
Benzo(a)pyrene	ug/kg	ND	2180	2180	1570	1720	72	79	50-150	9	30	
Benzo(b)fluoranthene	ug/kg	ND	2180	2180	1190	1280	55	59	50-150	7	30	
Benzo(g,h,i)perylene	ug/kg	ND	2180	2180	1660	1780	76	82	50-150	7	30	
Benzo(k)fluoranthene	ug/kg	ND	2180	2180	1270	1400	58	65	50-150	10	30	
Chrysene	ug/kg	ND	2180	2180	1810	2010	83	93	50-150	10	30	
Dibenz(a,h)anthracene	ug/kg	ND	2180	2180	1540	1650	71	76	50-150	7	30	
Fluoranthene	ug/kg	ND	2180	2180	1800	2000	83	92	50-150	11	30	
Fluorene	ug/kg	ND	2180	2180	1530	1670	70	77	50-150	9	30	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	2180	2180	1510	1630	70	75	50-150	8	30	
Naphthalene	ug/kg	ND	2180	2180	1620	1840	74	85	50-150	13	30	
Phenanthrene	ug/kg	ND	2180	2180	1690	1900	78	88	50-150	12	30	
Pyrene	ug/kg	ND	2180	2180	2380	2590	110	119	50-150	8	30	
2-Fluorobiphenyl (S)	%						74	82	46-120			
Nitrobenzene-d5 (S)	%						64	74	30-150			
Terphenyl-d14 (S)	%						92	102	38-108			

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

QC Batch: MSV/7818 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 9249831001, 9249831002, 9249831003, 9249831004, 9249831008

METHOD BLANK: 316154 Matrix: Solid
Associated Lab Samples: 9249831001, 9249831002, 9249831003, 9249831004, 9249831008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	07/31/09 10:48	
Ethylbenzene	ug/kg	ND	5.0	07/31/09 10:48	
m&p-Xylene	ug/kg	ND	10.0	07/31/09 10:48	
Naphthalene	ug/kg	1.7J	5.0	07/31/09 10:48	
o-Xylene	ug/kg	ND	5.0	07/31/09 10:48	
Toluene	ug/kg	ND	5.0	07/31/09 10:48	
Xylene (Total)	ug/kg	ND	10.0	07/31/09 10:48	
1,2-Dichloroethane-d4 (S)	%	90	69-121	07/31/09 10:48	
4-Bromofluorobenzene (S)	%	96	74-115	07/31/09 10:48	
Dibromofluoromethane (S)	%	99	79-116	07/31/09 10:48	
Toluene-d8 (S)	%	104	88-110	07/31/09 10:48	

LABORATORY CONTROL SAMPLE: 316155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	50	59.6	119	71-140	
Ethylbenzene	ug/kg	50	61.1	122	69-141	
m&p-Xylene	ug/kg	100	124	124	72-138	
Naphthalene	ug/kg	50	52.8	106	61-138	
o-Xylene	ug/kg	50	61.9	124	74-137	
Toluene	ug/kg	50	60.0	120	69-139	
Xylene (Total)	ug/kg	150	186	124	73-138	
1,2-Dichloroethane-d4 (S)	%			87	69-121	
4-Bromofluorobenzene (S)	%			98	74-115	
Dibromofluoromethane (S)	%			98	79-116	
Toluene-d8 (S)	%			102	88-110	

MATRIX SPIKE SAMPLE: 316822

Parameter	Units	9249765003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	ND	46.1	48.9	106	46-143	
Toluene	ug/kg	ND	46.1	49.7	108	38-145	
1,2-Dichloroethane-d4 (S)	%				84	69-121	
4-Bromofluorobenzene (S)	%				96	74-115	
Dibromofluoromethane (S)	%				98	79-116	
Toluene-d8 (S)	%				101	88-110	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

SAMPLE DUPLICATE: 316821

Parameter	Units	9249720003 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	
m&p-Xylene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	2.9J	5.8		30	
o-Xylene	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	93	88	9		
4-Bromofluorobenzene (S)	%	96	99	17		
Dibromofluoromethane (S)	%	100	99	13		
Toluene-d8 (S)	%	102	102	14		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: McGill's Grocery 09-2340
Pace Project No.: 9249831

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Analytical Environmental Services, Inc.

Date: *06-Aug-09*

CLIENT:	Pace Analytical Services, Inc.	**Client Sample ID:**	GPS-4(10')/MW-2
Project:	9249831	**Collection Date:**	7/29/2009 11:02:00 AM
Lab ID:	0908008-001	**Matrix:**	SOILD

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS SW8015C				(SW3550C)			Analyst: **AK**
TPH (Diesel Range Organics)	940	88		mg/Kg-dry	116452	10	8/5/2009 6:06 PM
Surr: Dioctylphthalate	97.8	42.4-143		%REC	116452	10	8/5/2009 6:06 PM
PERCENT MOISTURE D2216							Analyst: **MAS**
Percent Moisture	23.9	0		wt%		1	8/4/2009 5:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank	<	Less than Result value
	>	Greater than Result value		

Analytical Environmental Services, Inc.

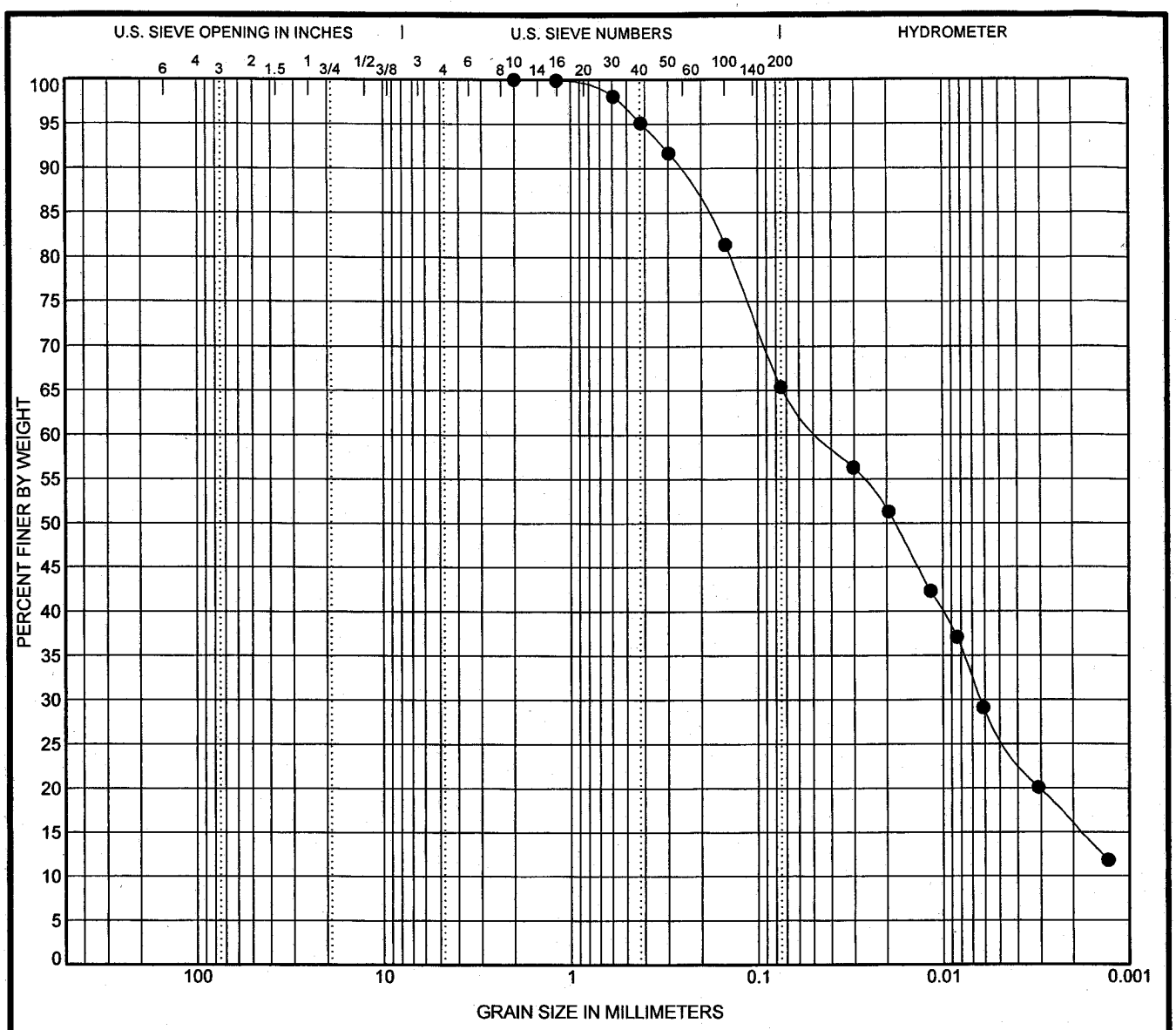
Date: *06-Aug-09*

CLIENT: Pace Analytical Services, Inc.
Project: 9249831
Lab ID: 0908008-002

Client Sample ID: GPS-8(8')/MW-8
Collection Date: 7/29/2009 3:16:00 PM
Matrix: SOILD

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TOTAL ORGANIC CARBON SW9060A MODIFIED					(SW9060 MODIFIED		Analyst: **GAR**
Total Organic Carbon (TOC)	BRL	500		mg/Kg-dry	116589	1	8/5/2009 9:42 AM
PERCENT MOISTURE D2216							Analyst: **MAS**
Percent Moisture	26.4	0		wt%		1	8/4/2009 5:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank	<	Less than Result value
	>	Greater than Result value		



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Specimen Identification		Classification	LL	PL	PI	Cc	Cu
●	76	0.0	**Tan Brown Clayey SILT**					

	Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	76	0.0	2	0.044	0.006		0.0	34.6	38.9	26.5

US GRAIN SIZE 451-90006.GPJ PSI_CORP.GDT 8/7/09

psi

GRAIN SIZE DISTRIBUTION

Client: Pace Analytical
Project: McGill's Grocery W.O. #9249831-008
Location: GPS-4 (10) / MW-2
Number: 451-90006-76

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

1167214

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: MECI	Report To: B. Shane	Attention:
Address: 235-B Dooley Road Lexington, SC 29073	Copy To:	Company Name:
Email To: WCm@meci.net	Purchase Order No.:	Address:
Phone: 803-808-2048 Fax: 808-2048	Project Name: McGill's Grocery	Pace Quote Reference:
Requested Due Date/TAT:	Project Number: 09-2340	Pace Project Manager: R. Spencer
		Pace Profile #: 836-2, 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☒ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil OL
Wipe WP
Air AR
Tissue TS
Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Btex, Napth 8260B	PAH	TPH 3550	TOC	Grain-Size / Hydro	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GPS-1 (25')	SL	G			7/28	9:50		5										X	X					001
2	GPS-2 (25')					7/29	10:00		5										X	X					002
3	GPS-3 (10')					7/29	10:40		5										X	X					003
4	GPS-4 (10') / MW-2					7/29	11:02		6										X	X	X		X		008 not 004
5	GPS-5 (10')					7/29	11:22		5										X	X					004
6	GPS-6 (2')					7/29	12:00		5										X	X					005
7	GPS-7 (2')					7/29	12:10		5										X	X					006
8	GPS-8 (8') / MW-8	↓	↓			7/24	15:16		1													X			009
9	MW-3 (25')	SL	G			7/29	13:45		5										X	X					007
10																									
11																									
12																									

924831

Pace Project No./ Lab I.D.

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Soil from Abbeville County, SC	Brandon Kelly			Shannon Pace	7-30-09	13:35				
	Brandon Kelly	7-30-09	15:45	Shannon Pace	7/30	1545	1.6	4	N	4

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brandon Kelly

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7/29/09

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

August 13, 2009

Mr. Bryan Shane
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: McGill's Grocery 09-2206
Pace Project No.: 9249959

Dear Mr. Shane:
Enclosed are the analytical results for sample(s) received by the laboratory on August 03, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Renee Spencer

Renee Spencer

renee.spencer@pacelabs.com
Project Manager

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: McGill's Grocery 09-2206
Pace Project No.: 9249959

Minnesota Certification IDs
California Certification #: 01155CA
Wisconsin Certification #: 999407970
Alaska Certification #: UST-078
Florida/NELAP Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Maine Certification #: 2007029
Minnesota Certification #: 027-053-137
Montana Certification #: MT CERT0092
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Tennessee Certification #: 02818
Washington Certification #: C754
Arizona Certification #: AZ-0014

Charlotte Certification IDs
Kentucky UST Certification #: 84
Florida/NELAP Certification #: E87627
Connecticut Certification #: PH-0104
Louisiana/LELAP Certification #: 04034
West Virginia Certification #: 357
Virginia Certification #: 00213
Tennessee Certification #: 04010
South Carolina Drinking Water Cert. #: 990060003
South Carolina Certification #: 990060001
Pennsylvania Certification #: 68-00784
North Carolina Wastewater Certification #: 12
North Carolina Field Services Certification #: 5342
North Carolina Drinking Water Certification #: 37706
New Jersey Certification #: NC012

Asheville Certification IDs
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Louisiana/LELAP Certification #: 03095
Virginia Certification #: 00072
Tennessee Certification #: 2980
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Pennsylvania Certification #: 68-03578
North Carolina Wastewater Certification #: 40
North Carolina Drinking Water Certification #: 37712
North Carolina Bioassay Certification #: 9
New Jersey Certification #: NC011
Massachusetts Certification #: M-NC030
South Carolina Bioassay Certification #: 99030002

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: McGill's Grocery 09-2206
Pace Project No.: 9249959

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9249959001	**MW-2**	Water	07/31/09 11:32	08/03/09 08:00
9249959002	**MW-3**	Water	07/31/09 11:41	08/03/09 08:00
9249959003	**MW-4**	Water	07/31/09 11:05	08/03/09 08:00

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: McGill's Grocery 09-2206
Pace Project No.: 9249959

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9249959001	**MW-2**	EPA 6010	SHB	1	PASI-A
		EPA 8011	CAH	2	PASI-C
		EPA 8260	MCK	21	PASI-C
		EPA 8270	BET	21	PASI-C
		RSK 175	CJR	1	PASI-M
9249959002	**MW-3**	EPA 6010	SHB	1	PASI-A
		EPA 8011	CAH	2	PASI-C
		EPA 8260	MCK	21	PASI-C
		EPA 8270	BET	21	PASI-C
		RSK 175	CJR	1	PASI-M
9249959003	**MW-4**	EPA 6010	SHB	1	PASI-A
		EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM, MCK	21	PASI-C
		EPA 8270	BET	21	PASI-C
		RSK 175	CJR	1	PASI-M

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill's Grocery 09-2206
Pace Project No.: 9249959

Sample: MW-2 **Lab ID: 9249959001** Collected: 07/31/09 11:32 Received: 08/03/09 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	ND	ug/L	10.0	5.0	1		08/11/09 16:07	74-82-8	
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.039**	ug/L	0.019	0.019	1	08/06/09 09:26	08/06/09 18:12	106-93-4	
1-Chloro-2-bromopropane (S)	110	%	60-140		1	08/06/09 09:26	08/06/09 18:12	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**6.6**	ug/L	5.0	4.0	1	08/05/09 12:00	08/06/09 03:04	7439-92-1	
8270 MSSV PAH SPE	Analytical Method: EPA 8270 Preparation Method: EPA 3535								
Acenaphthene	ND	ug/L	14.3	0.69	1	08/04/09 15:00	08/06/09 14:17	83-32-9	
Acenaphthylene	ND	ug/L	14.3	0.66	1	08/04/09 15:00	08/06/09 14:17	208-96-8	
Anthracene	ND	ug/L	14.3	0.91	1	08/04/09 15:00	08/06/09 14:17	120-12-7	
Benzo(a)anthracene	ND	ug/L	14.3	1.0	1	08/04/09 15:00	08/06/09 14:17	56-55-3	
Benzo(a)pyrene	ND	ug/L	14.3	0.89	1	08/04/09 15:00	08/06/09 14:17	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	14.3	0.81	1	08/04/09 15:00	08/06/09 14:17	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	14.3	0.97	1	08/04/09 15:00	08/06/09 14:17	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	14.3	0.94	1	08/04/09 15:00	08/06/09 14:17	207-08-9	
Chrysene	ND	ug/L	14.3	1.0	1	08/04/09 15:00	08/06/09 14:17	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	14.3	0.81	1	08/04/09 15:00	08/06/09 14:17	53-70-3	
Fluoranthene	ND	ug/L	14.3	1.0	1	08/04/09 15:00	08/06/09 14:17	206-44-0	
Fluorene	ND	ug/L	14.3	0.91	1	08/04/09 15:00	08/06/09 14:17	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	14.3	0.83	1	08/04/09 15:00	08/06/09 14:17	193-39-5	
1-Methylnaphthalene	ND	ug/L	14.3	14.3	1	08/04/09 15:00	08/06/09 14:17	90-12-0	
2-Methylnaphthalene	**13.3J**	ug/L	14.3	0.44	1	08/04/09 15:00	08/06/09 14:17	91-57-6	
Naphthalene	**42.7**	ug/L	14.3	0.61	1	08/04/09 15:00	08/06/09 14:17	91-20-3	
Phenanthrene	ND	ug/L	14.3	0.97	1	08/04/09 15:00	08/06/09 14:17	85-01-8	
Pyrene	ND	ug/L	14.3	0.94	1	08/04/09 15:00	08/06/09 14:17	129-00-0	
Nitrobenzene-d5 (S)	22	%	10-120		1	08/04/09 15:00	08/06/09 14:17	4165-60-0	
2-Fluorobiphenyl (S)	33	%	10-120		1	08/04/09 15:00	08/06/09 14:17	321-60-8	
Terphenyl-d14 (S)	45	%	10-116		1	08/04/09 15:00	08/06/09 14:17	1718-51-0	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**23500**	ug/L	10000	6200	100		08/09/09 11:04	75-85-4	
tert-Amylmethyl ether	**145**	ug/L	10.0	4.5	1		08/08/09 01:47	994-05-8	
Benzene	**854**	ug/L	500	120	100		08/09/09 11:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		08/08/09 01:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		08/08/09 01:47	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		08/08/09 01:47	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		08/08/09 01:47	107-06-2	
Diisopropyl ether	**3830**	ug/L	500	270	100		08/09/09 11:04	108-20-3	
Ethanol	ND	ug/L	200	170	1		08/08/09 01:47	64-17-5	
Ethylbenzene	**335J**	ug/L	500	110	100		08/09/09 11:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		08/08/09 01:47	637-92-3	
Methyl-tert-butyl ether	**7090**	ug/L	500	200	100		08/09/09 11:04	1634-04-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill's Grocery 09-2206
Pace Project No.: 9249959

Sample: MW-2 **Lab ID: 9249959001** Collected: 07/31/09 11:32 Received: 08/03/09 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Naphthalene	**145**	ug/L	5.0	2.9	1		08/08/09 01:47	91-20-3	
Toluene	**1430**	ug/L	500	180	100		08/09/09 11:04	108-88-3	
Xylene (Total)	**3470**	ug/L	1000	270	100		08/09/09 11:04	1330-20-7	
m&p-Xylene	**2020**	ug/L	1000	270	100		08/09/09 11:04	1330-20-7	
o-Xylene	**1450**	ug/L	500	170	100		08/09/09 11:04	95-47-6	
Dibromofluoromethane (S)	97	%	85-115		1		08/08/09 01:47	1868-53-7	
Toluene-d8 (S)	98	%	70-120		1		08/08/09 01:47	2037-26-5	
4-Bromofluorobenzene (S)	100	%	87-109		1		08/08/09 01:47	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	79-120		1		08/08/09 01:47	17060-07-0	

Sample: MW-3 **Lab ID: 9249959002** Collected: 07/31/09 11:41 Received: 08/03/09 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	ND	ug/L	10.0	5.0	1		08/11/09 16:33	74-82-8	
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.10**	ug/L	0.019	0.019	1	08/06/09 09:26	08/06/09 18:33	106-93-4	
1-Chloro-2-bromopropane (S)	113	%	60-140		1	08/06/09 09:26	08/06/09 18:33	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**5.8**	ug/L	5.0	4.0	1	08/05/09 12:00	08/06/09 03:08	7439-92-1	
8270 MSSV PAH SPE	Analytical Method: EPA 8270 Preparation Method: EPA 3535								
Acenaphthene	ND	ug/L	20.0	0.96	1	08/04/09 15:00	08/06/09 14:39	83-32-9	
Acenaphthylene	ND	ug/L	20.0	0.92	1	08/04/09 15:00	08/06/09 14:39	208-96-8	
Anthracene	ND	ug/L	20.0	1.3	1	08/04/09 15:00	08/06/09 14:39	120-12-7	
Benzo(a)anthracene	ND	ug/L	20.0	1.4	1	08/04/09 15:00	08/06/09 14:39	56-55-3	
Benzo(a)pyrene	ND	ug/L	20.0	1.2	1	08/04/09 15:00	08/06/09 14:39	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	20.0	1.1	1	08/04/09 15:00	08/06/09 14:39	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	20.0	1.4	1	08/04/09 15:00	08/06/09 14:39	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	20.0	1.3	1	08/04/09 15:00	08/06/09 14:39	207-08-9	
Chrysene	ND	ug/L	20.0	1.4	1	08/04/09 15:00	08/06/09 14:39	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	20.0	1.1	1	08/04/09 15:00	08/06/09 14:39	53-70-3	
Fluoranthene	ND	ug/L	20.0	1.4	1	08/04/09 15:00	08/06/09 14:39	206-44-0	
Fluorene	ND	ug/L	20.0	1.3	1	08/04/09 15:00	08/06/09 14:39	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	20.0	1.2	1	08/04/09 15:00	08/06/09 14:39	193-39-5	
1-Methylnaphthalene	ND	ug/L	20.0	20.0	1	08/04/09 15:00	08/06/09 14:39	90-12-0	
2-Methylnaphthalene	**2.4J**	ug/L	20.0	0.62	1	08/04/09 15:00	08/06/09 14:39	91-57-6	
Naphthalene	**33.8**	ug/L	20.0	0.86	1	08/04/09 15:00	08/06/09 14:39	91-20-3	
Phenanthrene	ND	ug/L	20.0	1.4	1	08/04/09 15:00	08/06/09 14:39	85-01-8	
Pyrene	ND	ug/L	20.0	1.3	1	08/04/09 15:00	08/06/09 14:39	129-00-0	
Nitrobenzene-d5 (S)	24	%	10-120		1	08/04/09 15:00	08/06/09 14:39	4165-60-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill's Grocery 09-2206
Pace Project No.: 9249959

Sample: MW-3 **Lab ID: 9249959002** Collected: 07/31/09 11:41 Received: 08/03/09 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH SPE	Analytical Method: EPA 8270 Preparation Method: EPA 3535								
2-Fluorobiphenyl (S)	30	%	10-120		1	08/04/09 15:00	08/06/09 14:39	321-60-8	
Terphenyl-d14 (S)	54	%	10-116		1	08/04/09 15:00	08/06/09 14:39	1718-51-0	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**16800J**	ug/L	25000	15500	250		08/09/09 11:23	75-85-4	
tert-Amylmethyl ether	**295**	ug/L	10.0	4.5	1		08/08/09 02:05	994-05-8	
Benzene	**2680**	ug/L	1250	300	250		08/09/09 11:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		08/08/09 02:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		08/08/09 02:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		08/08/09 02:05	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		08/08/09 02:05	107-06-2	
Diisopropyl ether	**11600**	ug/L	1250	675	250		08/09/09 11:23	108-20-3	
Ethanol	ND	ug/L	200	170	1		08/08/09 02:05	64-17-5	
Ethylbenzene	**362J**	ug/L	1250	275	250		08/09/09 11:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		08/08/09 02:05	637-92-3	
Methyl-tert-butyl ether	**24400**	ug/L	1250	500	250		08/09/09 11:23	1634-04-4	
Naphthalene	**145**	ug/L	5.0	2.9	1		08/08/09 02:05	91-20-3	
Toluene	**20100**	ug/L	1250	450	250		08/09/09 11:23	108-88-3	
Xylene (Total)	**8110**	ug/L	2500	675	250		08/09/09 11:23	1330-20-7	
m&p-Xylene	**4390**	ug/L	2500	675	250		08/09/09 11:23	1330-20-7	
o-Xylene	**3720**	ug/L	1250	425	250		08/09/09 11:23	95-47-6	
Dibromofluoromethane (S)	95	%	85-115		1		08/08/09 02:05	1868-53-7	
Toluene-d8 (S)	74	%	70-120		1		08/08/09 02:05	2037-26-5	
4-Bromofluorobenzene (S)	97	%	87-109		1		08/08/09 02:05	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	79-120		1		08/08/09 02:05	17060-07-0	

Sample: MW-4 **Lab ID: 9249959003** Collected: 07/31/09 11:05 Received: 08/03/09 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	ND	ug/L	10.0	5.0	1		08/11/09 16:58	74-82-8	
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	08/06/09 09:27	08/06/09 18:53	106-93-4	
1-Chloro-2-bromopropane (S)	109	%	60-140		1	08/06/09 09:27	08/06/09 18:53	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	08/05/09 12:00	08/06/09 03:13	7439-92-1	
8270 MSSV PAH SPE	Analytical Method: EPA 8270 Preparation Method: EPA 3535								
Acenaphthene	ND	ug/L	16.1	0.77	1	08/04/09 15:00	08/06/09 15:01	83-32-9	
Acenaphthylene	ND	ug/L	16.1	0.74	1	08/04/09 15:00	08/06/09 15:01	208-96-8	
Anthracene	ND	ug/L	16.1	1.0	1	08/04/09 15:00	08/06/09 15:01	120-12-7	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: McGill's Grocery 09-2206
Pace Project No.: 9249959

Sample: MW-4 **Lab ID: 9249959003** Collected: 07/31/09 11:05 Received: 08/03/09 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH SPE	Analytical Method: EPA 8270 Preparation Method: EPA 3535								
Benzo(a)anthracene	ND	ug/L	16.1	1.1	1	08/04/09 15:00	08/06/09 15:01	56-55-3	
Benzo(a)pyrene	ND	ug/L	16.1	1.0	1	08/04/09 15:00	08/06/09 15:01	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	16.1	0.92	1	08/04/09 15:00	08/06/09 15:01	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	16.1	1.1	1	08/04/09 15:00	08/06/09 15:01	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	16.1	1.1	1	08/04/09 15:00	08/06/09 15:01	207-08-9	
Chrysene	ND	ug/L	16.1	1.1	1	08/04/09 15:00	08/06/09 15:01	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	16.1	0.92	1	08/04/09 15:00	08/06/09 15:01	53-70-3	
Fluoranthene	ND	ug/L	16.1	1.2	1	08/04/09 15:00	08/06/09 15:01	206-44-0	
Fluorene	ND	ug/L	16.1	1.0	1	08/04/09 15:00	08/06/09 15:01	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	16.1	0.94	1	08/04/09 15:00	08/06/09 15:01	193-39-5	
1-Methylnaphthalene	ND	ug/L	16.1	16.1	1	08/04/09 15:00	08/06/09 15:01	90-12-0	
2-Methylnaphthalene	ND	ug/L	16.1	0.50	1	08/04/09 15:00	08/06/09 15:01	91-57-6	
Naphthalene	**6.6J**	ug/L	16.1	0.69	1	08/04/09 15:00	08/06/09 15:01	91-20-3	
Phenanthrene	ND	ug/L	16.1	1.1	1	08/04/09 15:00	08/06/09 15:01	85-01-8	
Pyrene	ND	ug/L	16.1	1.1	1	08/04/09 15:00	08/06/09 15:01	129-00-0	
Nitrobenzene-d5 (S)	26	%	10-120		1	08/04/09 15:00	08/06/09 15:01	4165-60-0	
2-Fluorobiphenyl (S)	44	%	10-120		1	08/04/09 15:00	08/06/09 15:01	321-60-8	
Terphenyl-d14 (S)	58	%	10-116		1	08/04/09 15:00	08/06/09 15:01	1718-51-0	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**7330**	ug/L	2000	1240	20		08/08/09 15:10	75-85-4	
tert-Amylmethyl ether	**70.3**	ug/L	10.0	4.5	1		08/08/09 02:23	994-05-8	
Benzene	**956**	ug/L	100	24.0	20		08/08/09 15:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		08/08/09 02:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		08/08/09 02:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		08/08/09 02:23	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		08/08/09 02:23	107-06-2	
Diisopropyl ether	**3140**	ug/L	100	54.0	20		08/08/09 15:10	108-20-3	
Ethanol	ND	ug/L	200	170	1		08/08/09 02:23	64-17-5	
Ethylbenzene	**174**	ug/L	5.0	1.1	1		08/08/09 02:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		08/08/09 02:23	637-92-3	
Methyl-tert-butyl ether	**6130**	ug/L	500	200	100		08/10/09 11:28	1634-04-4	
Naphthalene	**24.9**	ug/L	5.0	2.9	1		08/08/09 02:23	91-20-3	
Toluene	**4440**	ug/L	500	180	100		08/10/09 11:28	108-88-3	
Xylene (Total)	**1860**	ug/L	200	54.0	20		08/08/09 15:10	1330-20-7	
m&p-Xylene	**1130**	ug/L	200	54.0	20		08/08/09 15:10	1330-20-7	
o-Xylene	**726**	ug/L	100	34.0	20		08/08/09 15:10	95-47-6	
Dibromofluoromethane (S)	92	%	85-115		1		08/08/09 02:23	1868-53-7	
Toluene-d8 (S)	95	%	70-120		1		08/08/09 02:23	2037-26-5	
4-Bromofluorobenzene (S)	103	%	87-109		1		08/08/09 02:23	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	79-120		1		08/08/09 02:23	17060-07-0	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill's Grocery 09-2206
Pace Project No.: 9249959

QC Batch: MPRP/4865 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 9249959001, 9249959002, 9249959003

METHOD BLANK: 317937 Matrix: Water
Associated Lab Samples: 9249959001, 9249959002, 9249959003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	08/06/09 02:40	

LABORATORY CONTROL SAMPLE: 317938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	501	100	80-120	

MATRIX SPIKE SAMPLE: 317939

Parameter	Units	9249386001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	500	483	96	75-125	

SAMPLE DUPLICATE: 317940

Parameter	Units	9249958001 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	13.9	14.4	4	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill's Grocery 09-2206
Pace Project No.: 9249959

QC Batch: OEXT/7615 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9249959001, 9249959002, 9249959003

METHOD BLANK: 318262 Matrix: Water
Associated Lab Samples: 9249959001, 9249959002, 9249959003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	08/06/09 15:09	
1-Chloro-2-bromopropane (S)	%	102	60-140	08/06/09 15:09	

LABORATORY CONTROL SAMPLE & LCSD: 318263 318264

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.29	0.33	0.33	112	114	60-140	.6	20	
1-Chloro-2-bromopropane (S)	%				100	101	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 318265 318266

Parameter	Units	9249957029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.27	.27	0.31	0.32	114	116	60-140	2	20	
1-Chloro-2-bromopropane (S)	%						101	102	60-140			

SAMPLE DUPLICATE: 318267

Parameter	Units	9249957030 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%		116	8		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill's Grocery 09-2206
Pace Project No.: 9249959

QC Batch: OEXT/7592 Analysis Method: EPA 8270
QC Batch Method: EPA 3535 Analysis Description: 8270 Water PAH MSSV
Associated Lab Samples: 9249959001, 9249959002, 9249959003

METHOD BLANK: 317361 Matrix: Water
Associated Lab Samples: 9249959001, 9249959002, 9249959003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	10.0	08/05/09 18:19	
2-Methylnaphthalene	ug/L	ND	10.0	08/05/09 18:19	
Acenaphthene	ug/L	ND	10.0	08/05/09 18:19	
Acenaphthylene	ug/L	ND	10.0	08/05/09 18:19	
Anthracene	ug/L	ND	10.0	08/05/09 18:19	
Benzo(a)anthracene	ug/L	ND	10.0	08/05/09 18:19	
Benzo(a)pyrene	ug/L	ND	10.0	08/05/09 18:19	
Benzo(b)fluoranthene	ug/L	ND	10.0	08/05/09 18:19	
Benzo(g,h,i)perylene	ug/L	ND	10.0	08/05/09 18:19	
Benzo(k)fluoranthene	ug/L	ND	10.0	08/05/09 18:19	
Chrysene	ug/L	ND	10.0	08/05/09 18:19	
Dibenz(a,h)anthracene	ug/L	ND	10.0	08/05/09 18:19	
Fluoranthene	ug/L	ND	10.0	08/05/09 18:19	
Fluorene	ug/L	ND	10.0	08/05/09 18:19	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	08/05/09 18:19	
Naphthalene	ug/L	ND	10.0	08/05/09 18:19	
Phenanthrene	ug/L	ND	10.0	08/05/09 18:19	
Pyrene	ug/L	ND	10.0	08/05/09 18:19	
2-Fluorobiphenyl (S)	%	53	10-120	08/05/09 18:19	
Nitrobenzene-d5 (S)	%	40	10-120	08/05/09 18:19	
Terphenyl-d14 (S)	%	72	10-116	08/05/09 18:19	

LABORATORY CONTROL SAMPLE: 317362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	50	22.4	45	29-108	
2-Methylnaphthalene	ug/L	50	22.4	45	30-104	
Acenaphthene	ug/L	50	31.2	62	39-109	
Acenaphthylene	ug/L	50	35.5	71	41-109	
Anthracene	ug/L	50	37.7	75	45-114	
Benzo(a)anthracene	ug/L	50	36.2	72	45-109	
Benzo(a)pyrene	ug/L	50	32.3	65	47-117	
Benzo(b)fluoranthene	ug/L	50	21.8	44	32-113	
Benzo(g,h,i)perylene	ug/L	50	44.7	89	10-149	
Benzo(k)fluoranthene	ug/L	50	21.8	44	41-104	
Chrysene	ug/L	50	38.9	78	35-116	
Dibenz(a,h)anthracene	ug/L	50	46.7	93	13-139	
Fluoranthene	ug/L	50	36.8	74	43-110	
Fluorene	ug/L	50	29.6	59	40-111	
Indeno(1,2,3-cd)pyrene	ug/L	50	50.0	100	17-135	
Naphthalene	ug/L	50	29.7	59	26-120	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill's Grocery 09-2206
Pace Project No.: 9249959

LABORATORY CONTROL SAMPLE: 317362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	50	33.2	66	45-110	
Pyrene	ug/L	50	41.8	84	38-114	
2-Fluorobiphenyl (S)	%			61	10-120	
Nitrobenzene-d5 (S)	%			43	10-120	
Terphenyl-d14 (S)	%			72	10-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 317363 317364

Parameter	Units	9249685001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	ND	119	119	ND	47.6	31	40	29-108		30	
2-Methylnaphthalene	ug/L	ND	119	119	36.4J	47.2	31	40	30-104		30	
Acenaphthene	ug/L	ND	119	119	56.2	68.2	47	57	17-104	19	30	
Acenaphthylene	ug/L	ND	119	119	63.3	76.1	53	64	10-200	18	30	
Anthracene	ug/L	ND	119	119	75.8	81.3	64	68	10-150	7	30	
Benzo(a)anthracene	ug/L	ND	119	119	72.9	75.8	61	64	10-172	4	30	
Benzo(a)pyrene	ug/L	ND	119	119	65.9	71.4	55	60	10-173	8	30	
Benzo(b)fluoranthene	ug/L	ND	119	119	66.6	59.4	56	50	10-200	11	30	
Benzo(g,h,i)perylene	ug/L	ND	119	119	62.4	54.2	52	45	10-120	14	30	
Benzo(k)fluoranthene	ug/L	ND	119	119	68.3	63.5	57	53	10-145	7	30	
Chrysene	ug/L	ND	119	119	78.7	79.5	66	67	10-146	1	30	
Dibenz(a,h)anthracene	ug/L	ND	119	119	60.5	53.5	51	45	10-120	12	30	
Fluoranthene	ug/L	ND	119	119	73.5	77.2	62	65	20-120	5	30	
Fluorene	ug/L	ND	119	119	54.7	65.2	46	55	10-109	18	30	
Indeno(1,2,3-cd)pyrene	ug/L	ND	119	119	60.3	52.0	51	44	11-120	15	30	
Naphthalene	ug/L	ND	119	119	45.6J	58.7	38	49	10-120		30	
Phenanthrene	ug/L	ND	119	119	65.3	73.7	55	62	10-145	12	30	
Pyrene	ug/L	ND	119	119	100	105	84	88	13-114	4	30	
2-Fluorobiphenyl (S)	%						45	57	10-120			
Nitrobenzene-d5 (S)	%						28	37	10-120			
Terphenyl-d14 (S)	%						75	88	10-116			

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill's Grocery 09-2206
Pace Project No.: 9249959

QC Batch: AIR/8934 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 9249959001, 9249959002, 9249959003

METHOD BLANK: 662059 Matrix: Water
Associated Lab Samples: 9249959001, 9249959002, 9249959003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	10.0	08/11/09 15:42	

LABORATORY CONTROL SAMPLE & LCSD: 662060 662061

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	49.8	56.3	82	93	70-130	12	30	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill's Grocery 09-2206
Pace Project No.: 9249959

QC Batch: MSV/7899 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 9249959001, 9249959002, 9249959003

METHOD BLANK: 319465 Matrix: Water
Associated Lab Samples: 9249959001, 9249959002, 9249959003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	08/07/09 22:09	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	08/07/09 22:09	
Benzene	ug/L	ND	5.0	08/07/09 22:09	
Diisopropyl ether	ug/L	ND	5.0	08/07/09 22:09	
Ethanol	ug/L	ND	200	08/07/09 22:09	
Ethyl-tert-butyl ether	ug/L	ND	10.0	08/07/09 22:09	
Ethylbenzene	ug/L	ND	5.0	08/07/09 22:09	
m&p-Xylene	ug/L	ND	10.0	08/07/09 22:09	
Methyl-tert-butyl ether	ug/L	ND	5.0	08/07/09 22:09	
Naphthalene	ug/L	ND	5.0	08/07/09 22:09	
o-Xylene	ug/L	ND	5.0	08/07/09 22:09	
tert-Amyl Alcohol	ug/L	ND	100	08/07/09 22:09	
tert-Amylmethyl ether	ug/L	ND	10.0	08/07/09 22:09	
tert-Butyl Alcohol	ug/L	ND	100	08/07/09 22:09	
tert-Butyl Formate	ug/L	ND	50.0	08/07/09 22:09	
Toluene	ug/L	ND	5.0	08/07/09 22:09	
Xylene (Total)	ug/L	ND	10.0	08/07/09 22:09	
1,2-Dichloroethane-d4 (S)	%	94	79-120	08/07/09 22:09	
4-Bromofluorobenzene (S)	%	101	87-109	08/07/09 22:09	
Dibromofluoromethane (S)	%	96	85-115	08/07/09 22:09	
Toluene-d8 (S)	%	97	70-120	08/07/09 22:09	

LABORATORY CONTROL SAMPLE: 319466

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.6	99	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	1060	106	55-148	
Benzene	ug/L	50	49.3	99	78-128	
Diisopropyl ether	ug/L	50	49.0	98	74-131	
Ethanol	ug/L	2000	2890	144	53-150	
Ethyl-tert-butyl ether	ug/L	100	99.4	99	77-136	
Ethylbenzene	ug/L	50	47.0	94	80-127	
m&p-Xylene	ug/L	100	95.9	96	82-127	
Methyl-tert-butyl ether	ug/L	50	50.2	100	71-130	
Naphthalene	ug/L	50	50.0	100	52-136	
o-Xylene	ug/L	50	48.2	96	83-124	
tert-Amyl Alcohol	ug/L	1000	1350	135	50-150	
tert-Amylmethyl ether	ug/L	100	96.5	97	50-150	
tert-Butyl Alcohol	ug/L	500	661	132	50-150	
tert-Butyl Formate	ug/L	400	287	72	50-150	
Toluene	ug/L	50	50.2	100	76-126	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: McGill's Grocery 09-2206
Pace Project No.: 9249959

LABORATORY CONTROL SAMPLE: 319466

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	144	96	83-125	
1,2-Dichloroethane-d4 (S)	%			95	79-120	
4-Bromofluorobenzene (S)	%			104	87-109	
Dibromofluoromethane (S)	%			99	85-115	
Toluene-d8 (S)	%			97	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 319467 319468

Parameter	Units	9249957022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	57.1	53.8	114	108	74-136	6	30	
Toluene	ug/L	ND	50	50	58.0	55.5	116	111	73-131	4	30	
1,2-Dichloroethane-d4 (S)	%						95	94	79-120			
4-Bromofluorobenzene (S)	%						108	106	87-109			
Dibromofluoromethane (S)	%						94	94	85-115			
Toluene-d8 (S)	%						96	96	70-120			

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: McGill's Grocery 09-2206
Pace Project No.: 9249959

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-M	Pace Analytical Services - Minneapolis

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1167222

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: MECI	Report To: BRYAN SHANE	Attention:
Address: 235 B Dooley Rd. LEXINGTON, SC 29073	Copy To:	Company Name:
		Address:
Email To:	Purchase Order No.:	Pace Quote Reference:
Phone: 803-808-2043 Fax: 803-808-2048	Project Name: McGill's GROCERY	Pace Project Manager: Renee Spencer
Requested Due Date/TAT:	Project Number: 09-2206	Pace Profile #: 836-5

REGULATORY AGENCY

- [ ] NPDES
- [ ] GROUND WATER
- [ ] DRINKING WATER
- [x] UST
- [ ] RCRA
- [ ] OTHER _____

Site Location STATE: SC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Btex Naphthalene	1,2 DCA, 8-Oxy (8260B)	EDB (8011)	PAH	Total LEAD	Filtered LEAD	NITRATE	SULFATE	METHANE	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9249959
1	MW-2	WT	G			7-31	1132		15	5		1	9						X	X	X	X	X	X	X	X	X		001
2	MW-3	WT	G			7-31	1141		15	5		1	9						X	X	X	X	X	X	X	X	X		002
3	MW-4	WT	G			7-31	1105		15	5		1	9						X	X	X	X	X	X	X	X	X		003
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Report J Values	Brian Owen	7/31/09		[illegible]	8/3/09	08:00	6.0	yes	no	yes

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: BRIAN OWEN

SIGNATURE of SAMPLER: Brian Owen

DATE Signed (MM/DD/YY): 7/31/09

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

August 17, 2009

Mr. Bryan Shane
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: MCGILL'S GROCERY 09-2340
Pace Project No.: 9250459

Dear Mr. Shane:
Enclosed are the analytical results for sample(s) received by the laboratory on August 08, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Renee Spencer

Renee Spencer

renee.spencer@pacelabs.com
Project Manager

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: MCGILL'S GROCERY 09-2340
Pace Project No.: 9250459

Charlotte Certification IDs

Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
West Virginia Certification #: 357
Virginia Certification #: 00213
Tennessee Certification #: 04010
South Carolina Drinking Water Cert. #: 990060003
South Carolina Certification #: 990060001
Pennsylvania Certification #: 68-00784
North Carolina Wastewater Certification #: 12
North Carolina Field Services Certification #: 5342
North Carolina Drinking Water Certification #: 37706
New Jersey Certification #: NC012
Louisiana/LELAP Certification #: 04034
Kentucky UST Certification #: 84

Asheville Certification IDs

Connecticut Certification #: PH-0106
Virginia Certification #: 00072
Tennessee Certification #: 2980
South Carolina Certification #: 99030001
South Carolina Bioassay Certification #: 99030002
Pennsylvania Certification #: 68-03578
West Virginia Certification #: 356
North Carolina Drinking Water Certification #: 37712
North Carolina Bioassay Certification #: 9
New Jersey Certification #: NC011
Massachusetts Certification #: M-NC030
Louisiana/LELAP Certification #: 03095
Florida/NELAP Certification #: E87648
North Carolina Wastewater Certification #: 40

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: MCGILL'S GROCERY 09-2340
Pace Project No.: 9250459

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9250459001	MW-1	Water	08/07/09 11:29	08/08/09 08:30
9250459002	MW-2	Water	08/07/09 11:37	08/08/09 08:30
9250459003	MW-3	Water	08/07/09 11:33	08/08/09 08:30
9250459004	MW-4	Water	08/07/09 11:41	08/08/09 08:30
9250459005	WSW-1	Water	08/07/09 11:47	08/08/09 08:30
9250459006	WSW-4	Water	08/07/09 12:16	08/08/09 08:30
9250459007	WSW-5	Water	08/07/09 12:32	08/08/09 08:30
9250459008	WSW-6	Water	08/07/09 11:55	08/08/09 08:30
9250459009	WSW-7	Water	08/07/09 12:01	08/08/09 08:30
9250459010	WSW-8	Water	08/07/09 12:25	08/08/09 08:30

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: MCGILL'S GROCERY 09-2340
Pace Project No.: 9250459

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9250459001	**MW-1**	EPA 8011	CAH	2
		EPA 8260	KJM	12
9250459002	**MW-2**	EPA 353.2	JDA	1
		EPA 6010	SHB	1
9250459003	**MW-3**	EPA 353.2	JDA	1
		EPA 6010	SHB	1
9250459004	**MW-4**	EPA 353.2	JDA	1
		EPA 6010	SHB	1
9250459005	**WSW-1**	EPA 8260	KJM	12
9250459006	**WSW-4**	EPA 8260	KJM	12
9250459007	**WSW-5**	EPA 8260	KJM	12
9250459008	**WSW-6**	EPA 8260	KJM	12
9250459009	**WSW-7**	EPA 8260	KJM	12
9250459010	**WSW-8**	EPA 8260	KJM	12

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCGILL'S GROCERY 09-2340
Pace Project No.: 9250459

Sample: MW-1 **Lab ID: 9250459001** Collected: 08/07/09 11:29 Received: 08/08/09 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**2.0**	ug/L	0.096	0.096	5	08/10/09 17:00	08/11/09 13:51	106-93-4	
1-Chloro-2-bromopropane (S)	0	%	60-140		5	08/10/09 17:00	08/11/09 13:51	301-79-56	S4
8260 MSV	Analytical Method: EPA 8260								
Benzene	**8630**	ug/L	1000	240	200		08/12/09 19:06	71-43-2	
Ethylbenzene	**3980**	ug/L	1000	220	200		08/12/09 19:06	100-41-4	
Methyl-tert-butyl ether	**33700**	ug/L	1000	400	200		08/12/09 19:06	1634-04-4	
Naphthalene	ND	ug/L	1000	580	200		08/12/09 19:06	91-20-3	
Toluene	**96400**	ug/L	5000	1800	1000		08/13/09 12:04	108-88-3	
Xylene (Total)	**24900**	ug/L	2000	540	200		08/12/09 19:06	1330-20-7	
m&p-Xylene	**16900**	ug/L	2000	540	200		08/12/09 19:06	1330-20-7	
o-Xylene	**7990**	ug/L	1000	340	200		08/12/09 19:06	95-47-6	
4-Bromofluorobenzene (S)	108	%	87-109		200		08/12/09 19:06	460-00-4	
Dibromofluoromethane (S)	98	%	85-115		200		08/12/09 19:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120		200		08/12/09 19:06	17060-07-0	
Toluene-d8 (S)	98	%	70-120		200		08/12/09 19:06	2037-26-5	

Sample: MW-2 **Lab ID: 9250459002** Collected: 08/07/09 11:37 Received: 08/08/09 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead, Dissolved	ND	ug/L	5.0	4.0	1	08/12/09 12:52	08/14/09 17:17	7439-92-1	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.10	1		08/09/09 10:48		

Sample: MW-3 **Lab ID: 9250459003** Collected: 08/07/09 11:33 Received: 08/08/09 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead, Dissolved	ND	ug/L	5.0	4.0	1	08/12/09 12:52	08/14/09 17:25	7439-92-1	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.10	1		08/09/09 10:45		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCGILL'S GROCERY 09-2340
Pace Project No.: 9250459

Sample: MW-4 **Lab ID: 9250459004** Collected: 08/07/09 11:41 Received: 08/08/09 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead, Dissolved	ND	ug/L	5.0	4.0	1	08/12/09 12:52	08/14/09 17:29	7439-92-1	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.10	1		08/09/09 10:50		

Sample: WSW-1 **Lab ID: 9250459005** Collected: 08/07/09 11:47 Received: 08/08/09 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		08/12/09 19:25	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/12/09 19:25	100-41-4	
Methyl-tert-butyl ether	**3.9J**	ug/L	5.0	2.0	1		08/12/09 19:25	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		08/12/09 19:25	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		08/12/09 19:25	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		08/12/09 19:25	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/12/09 19:25	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		08/12/09 19:25	95-47-6	
4-Bromofluorobenzene (S)	103	%	87-109		1		08/12/09 19:25	460-00-4	
Dibromofluoromethane (S)	95	%	85-115		1		08/12/09 19:25	1868-53-7	
1,2-Dichloroethane-d4 (S)	95	%	79-120		1		08/12/09 19:25	17060-07-0	
Toluene-d8 (S)	98	%	70-120		1		08/12/09 19:25	2037-26-5	

Sample: WSW-4 **Lab ID: 9250459006** Collected: 08/07/09 12:16 Received: 08/08/09 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		08/12/09 19:43	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/12/09 19:43	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		08/12/09 19:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		08/12/09 19:43	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		08/12/09 19:43	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		08/12/09 19:43	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/12/09 19:43	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		08/12/09 19:43	95-47-6	
4-Bromofluorobenzene (S)	109	%	87-109		1		08/12/09 19:43	460-00-4	
Dibromofluoromethane (S)	98	%	85-115		1		08/12/09 19:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	79-120		1		08/12/09 19:43	17060-07-0	
Toluene-d8 (S)	98	%	70-120		1		08/12/09 19:43	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCGILL'S GROCERY 09-2340
Pace Project No.: 9250459

Sample: WSW-5 **Lab ID: 9250459007** Collected: 08/07/09 12:32 Received: 08/08/09 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		08/12/09 20:01	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/12/09 20:01	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		08/12/09 20:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		08/12/09 20:01	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		08/12/09 20:01	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		08/12/09 20:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/12/09 20:01	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		08/12/09 20:01	95-47-6	
4-Bromofluorobenzene (S)	103	%	87-109		1		08/12/09 20:01	460-00-4	
Dibromofluoromethane (S)	100	%	85-115		1		08/12/09 20:01	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	79-120		1		08/12/09 20:01	17060-07-0	
Toluene-d8 (S)	98	%	70-120		1		08/12/09 20:01	2037-26-5	

Sample: WSW-6 **Lab ID: 9250459008** Collected: 08/07/09 11:55 Received: 08/08/09 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		08/12/09 20:19	71-43-2	pH
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/12/09 20:19	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		08/12/09 20:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		08/12/09 20:19	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		08/12/09 20:19	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		08/12/09 20:19	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/12/09 20:19	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		08/12/09 20:19	95-47-6	
4-Bromofluorobenzene (S)	108	%	87-109		1		08/12/09 20:19	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		08/12/09 20:19	1868-53-7	
1,2-Dichloroethane-d4 (S)	94	%	79-120		1		08/12/09 20:19	17060-07-0	
Toluene-d8 (S)	97	%	70-120		1		08/12/09 20:19	2037-26-5	

Sample: WSW-7 **Lab ID: 9250459009** Collected: 08/07/09 12:01 Received: 08/08/09 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		08/12/09 20:38	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/12/09 20:38	100-41-4	
Methyl-tert-butyl ether	**2.2J**	ug/L	5.0	2.0	1		08/12/09 20:38	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		08/12/09 20:38	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		08/12/09 20:38	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		08/12/09 20:38	1330-20-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MCGILL'S GROCERY 09-2340
Pace Project No.: 9250459

Sample: WSW-7 **Lab ID: 9250459009** Collected: 08/07/09 12:01 Received: 08/08/09 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/12/09 20:38	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		08/12/09 20:38	95-47-6	
4-Bromofluorobenzene (S)	106	%	87-109		1		08/12/09 20:38	460-00-4	
Dibromofluoromethane (S)	99	%	85-115		1		08/12/09 20:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	79-120		1		08/12/09 20:38	17060-07-0	
Toluene-d8 (S)	98	%	70-120		1		08/12/09 20:38	2037-26-5	

Sample: WSW-8 **Lab ID: 9250459010** Collected: 08/07/09 12:25 Received: 08/08/09 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		08/12/09 20:56	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		08/12/09 20:56	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		08/12/09 20:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		08/12/09 20:56	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		08/12/09 20:56	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		08/12/09 20:56	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		08/12/09 20:56	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		08/12/09 20:56	95-47-6	
4-Bromofluorobenzene (S)	106	%	87-109		1		08/12/09 20:56	460-00-4	
Dibromofluoromethane (S)	99	%	85-115		1		08/12/09 20:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		08/12/09 20:56	17060-07-0	
Toluene-d8 (S)	98	%	70-120		1		08/12/09 20:56	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MCGILL'S GROCERY 09-2340
Pace Project No.: 9250459

QC Batch: OEXT/7655
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9250459001

METHOD BLANK: 320128 Matrix: Water
Associated Lab Samples: 9250459001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	08/11/09 02:31	
1-Chloro-2-bromopropane (S)	%	116	60-140	08/11/09 02:31	

LABORATORY CONTROL SAMPLE & LCSD: 320129 320130

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.29	0.32	0.34	112	120	60-140	5	20	
1-Chloro-2-bromopropane (S)	%				100	105	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 320131 320132

Parameter	Units	9250436016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.27	.27	0.20	0.20	72	72	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						118	120	60-140			

SAMPLE DUPLICATE: 320133

Parameter	Units	9250436017 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%		83	1		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MCGILL'S GROCERY 09-2340
Pace Project No.: 9250459

QC Batch: WETA/5629 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 9250459002, 9250459003, 9250459004

METHOD BLANK: 319910 Matrix: Water
Associated Lab Samples: 9250459002, 9250459003, 9250459004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	08/09/09 10:41	

LABORATORY CONTROL SAMPLE: 319911

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	5	5.2	104	90-110	

MATRIX SPIKE SAMPLE: 319912

Parameter	Units	9250459003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	5	5.4	109	90-110	

SAMPLE DUPLICATE: 319913

Parameter	Units	9250459002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	ND	ND		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MCGILL'S GROCERY 09-2340
Pace Project No.: 9250459

QC Batch: MSV/7946 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 9250459001, 9250459005, 9250459006, 9250459007, 9250459008, 9250459009, 9250459010

METHOD BLANK: 321100 Matrix: Water
Associated Lab Samples: 9250459001, 9250459005, 9250459006, 9250459007, 9250459008, 9250459009, 9250459010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	5.0	08/12/09 12:00	
Ethylbenzene	ug/L	ND	5.0	08/12/09 12:00	
m&p-Xylene	ug/L	ND	10.0	08/12/09 12:00	
Methyl-tert-butyl ether	ug/L	ND	5.0	08/12/09 12:00	
Naphthalene	ug/L	ND	5.0	08/12/09 12:00	
o-Xylene	ug/L	ND	5.0	08/12/09 12:00	
Toluene	ug/L	ND	5.0	08/12/09 12:00	
Xylene (Total)	ug/L	ND	10.0	08/12/09 12:00	
1,2-Dichloroethane-d4 (S)	%	97	79-120	08/12/09 12:00	
4-Bromofluorobenzene (S)	%	105	87-109	08/12/09 12:00	
Dibromofluoromethane (S)	%	99	85-115	08/12/09 12:00	
Toluene-d8 (S)	%	98	70-120	08/12/09 12:00	

LABORATORY CONTROL SAMPLE: 321101

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	50.3	101	78-128	
Ethylbenzene	ug/L	50	46.5	93	80-127	
m&p-Xylene	ug/L	100	94.2	94	82-127	
Methyl-tert-butyl ether	ug/L	50	50.4	101	71-130	
Naphthalene	ug/L	50	51.8	104	52-136	
o-Xylene	ug/L	50	46.7	93	83-124	
Toluene	ug/L	50	52.6	105	76-126	
Xylene (Total)	ug/L	150	141	94	83-125	
1,2-Dichloroethane-d4 (S)	%			95	79-120	
4-Bromofluorobenzene (S)	%			104	87-109	
Dibromofluoromethane (S)	%			96	85-115	
Toluene-d8 (S)	%			98	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 321102 321103

Parameter	Units	9250459008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	62.5	53.9	125	108	74-136	15	30	pH
Toluene	ug/L	ND	50	50	62.2	55.3	124	111	73-131	12	30	
1,2-Dichloroethane-d4 (S)	%						100	99	79-120			
4-Bromofluorobenzene (S)	%						106	109	87-109			
Dibromofluoromethane (S)	%						97	98	85-115			
Toluene-d8 (S)	%						96	96	70-120			

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MCGILL'S GROCERY 09-2340
Pace Project No.: 9250459

QC Batch: MPRP/4895 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Filtered
Associated Lab Samples: 9250459002, 9250459003, 9250459004

METHOD BLANK: 320996 Matrix: Water
Associated Lab Samples: 9250459002, 9250459003, 9250459004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead, Dissolved	ug/L	ND	5.0	08/14/09 17:03	

LABORATORY CONTROL SAMPLE: 320997

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	500	500	100	80-120	

MATRIX SPIKE SAMPLE: 320998

Parameter	Units	9250238002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	ND	500	456	91	75-125	

SAMPLE DUPLICATE: 320999

Parameter	Units	9250459002 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead, Dissolved	ug/L	ND	ND		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: MCGILL'S GROCERY 09-2340
Pace Project No.: 9250459

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

S4	Surrogate recovery not evaluated against control limits due to sample dilution.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1167274

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: MECI	Report To: B. Shane	Attention:
Address: 235 B Dooley Road Lexington, SC 29073	Copy To:	Company Name:
		Address:
Email To: wcm@mecinet	Purchase Order No.:	Pace Quote Reference:
Phone: 803-808-2043 Fax: 803-808-2048	Project Name: McGill's Grocery	Pace Project Manager: R. Spencer
Requested Due Date/TAT:	Project Number: 09-2340	Pace Profile #: 836-1

REGULATORY AGENCY

- [ ] NPDES
- [ ] GROUND WATER
- [ ] DRINKING WATER
- [x] UST
- [ ] RCRA
- [ ] OTHER

Site Location STATE: SC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Btex, mtbe, 8260B	8011 EDB	Nitrate	Filtered Lead	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G			8/7	11:29		6				6						X	X				Pt odor 001
2	MW-2						11:37		2	2											X	X		002
3	MW-3						11:33		2	2											X	X		Pt odor 003
4	MW-4						11:41		2	2											X	X		Pt odor 004
5	WSW-1						11:47		3										X					005
6	WSW-2																							Not Sampled; Runs underground to irrigation
7	WSW-4						12:16																	006
8	WSW-5						12:32																	007
9	WSW-6						11:55																	008
10	WSW-7						12:01																	009
11	WSW-8	WT	G			8/7	12:25		3										X					010
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Please report "J" values	Logan McConahey	8/7/09	12:45	C Weeks / Pace	8/8/09	8:30	3.7	yes	no	yes
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Logan McConahey

SIGNATURE of SAMPLER: Logan McConahey

DATE Signed (MM/DD/YY): 8/7/09

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

APPENDIX C
SLUG TEST DATA

SUMMARY of SLUG TEST (Page 1 of 2)

SOUTH CAROLINA
Department of Health and Environmental Control (DHEC)

Site Data

SITE ID # 19440 COUNTY Abbeville

FACILITY NAME McGill Grocery

SLUG DATA

See Appendix _____ Table _____ Figure _____ for a list of all data measurements.
(water level logs, etc.)(Complete as appropriate).
Water Level Recovery Data was measured by ORS Interface Probe .
(Hermit Data Logger, Manually with Water Level Indicator, etc.)(List Method)
Complete the following table for each well tested.
COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED

Slug Test Conducted in well(s) number	MW-2	MW-3		
Initial Rise/Drawdown in well (feet)	0.88	1.04		
Radius of well casing (feet)	0.083	0.083		
Effective Radius of Well (feet)	0.33	0.33		
Static Saturated Aquifer Thickness (feet)	5.52	5.79		
Length of Well Screen (feet)	10	10		
Static Height of Water Column in Well (ft)	5.52	5.79		

Calculations

See Appendix _____ Table _____ Figure _____ for calculations
The method for aquifer calculations was NAVFAC
Calculated values by well were as follows:

Slug Test Conducted in Well(s) number	MW-2	MW-3		
Hydraulic Conductivity	4.01E-05	4.09E-05		cm/sec

Thickness of the aquifer used to calculate hydraulic conductivity was N/A feet.
The aquifer is _____ confined _____ semi-confined _____ water table (Check as Appropriate).
SEE SHEET 3
The estimated seepage velocity is 10 feet per year based on a hydraulic conductivity of 4.05E-05 cm/sec, a hydraulic gradient of 7.36E-02 ft/ft, and a porosity of 30 percent for Clayey SILT soil.

SUMMARY of SLUG TEST

Groundwater Seepage Velocity Calculations (Page 2 of 2)

SOUTH CAROLINA
Department of Health and Environmental Control (DHEC)

Site Data

SITE ID # 19440 COUNTY Abbeville

FACILITY NAME McGill Grocery

Hydraulic Conductivity (average)

Hydraulic Conductivity Average = 4.05E-05 cm/sec
(MW-2 & MW-3)

1.15E-01 ft./day

7.97E-05 ft./min

Groundwater Seepage Velocity

V = (Ki)/(Ne)
(ft./day)

* Enter Values in Shaded Areas Only

where:

K = Hydraulic Conductivity (ft./day)
I = Hydraulic Gradient (ft./ft.)
Ne = Effective Permeability

K =	1.15E-01	ft./day
I =	7.36E-02	ft./ft.
Ne =	0.30	

V = **2.8E-02** ft./day **10** ft./year

Groundwater Seepage Velocity Calculations

Inflow Permeability Calculation

McGill Grocery

Test Performed: 7/31/2009

MW-2

Type II (Uncased Well)

Static: 45.48 ft

*Enter Values in Shaded Areas Only

Time (min)	Depth	delta H	Ht/Ho
0.25	46.36	0.88	1.00
0.50	46.27	0.79	0.90
0.75	46.15	0.67	0.76
1.00	46.12	0.64	0.73
1.25	46.11	0.63	0.72
1.50	46.09	0.61	0.69
1.75	46.08	0.60	0.68
2.00	46.07	0.59	0.67
4.00	46.01	0.53	0.60
6.00	45.96	0.48	0.55
10.00	45.90	0.42	0.48
14.00	45.84	0.36	0.41
24.00	45.74	0.26	0.30
34.00	45.64	0.16	0.18

Information from data and plot of Ht/Ho vs time

Bore Hole Diameter:	8	in
Total Depth of Well:	51	ft
Stand Pipe Area:	50.27	in^2
	0.35	ft^2

Coordinates from Graph for Slope Calc:

H1/Ho:	0.60		
t1:	4.00	min	
H2/Ho:	0.41		
t2:	14.00	min	

H1:	0.53	H2:	0.36	
t1:	4.00	t2:	14.00	
Radius	R:	4.00	in	
Radius	R:	0.33	ft	
Depth	D:	5.52	ft	
	R/D:	0.060		
	D/R:	16.56		

Shape Factor Determination Value: 0.919493 *

*This value is used in conjunction with

Figure 13 of Reference [1] to obtain the shape factor.

Shape Factor S: 0.8

Coeff. of Permeability (K):

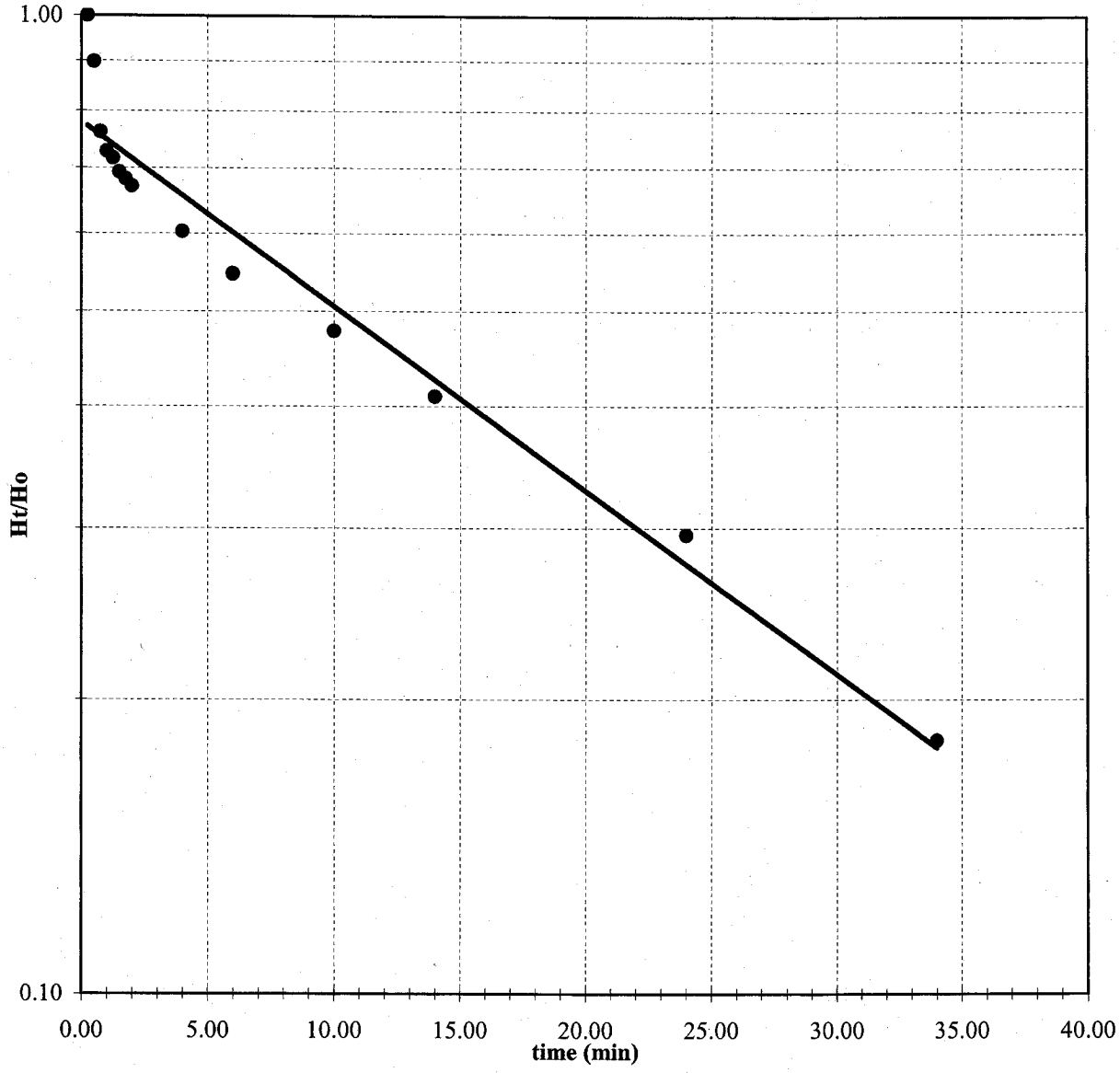
7.89E-05 ft/min

1.14E-01 ft/day

4.01E-05 cm/sec

Ref [1]: Naval Fac. Engr. Command, Design Manual 7.01, soil Mechanics, Condition A.

Inflow for Condition A Well MW-2.xls



Midlands
Environmental
Consultants, Inc.
235-B Dooley Road, Lexington, SC 29073
(803) 808-2043 fax: 808-2048

Inflow Permeability Calculation

McGill Grocery

Test Performed: 7/31/2009

MW-3

Type II (Uncased Well)

Static: 45.21 ft

*Enter Values in Shaded Areas Only

Time (min)	Depth	delta H	Ht/Ho
0.25	46.25	1.04	1.00
0.50	46.23	1.02	0.98
0.75	46.20	0.99	0.95
1.00	46.18	0.97	0.93
1.25	46.16	0.95	0.91
1.50	46.15	0.94	0.90
1.75	46.14	0.93	0.89
2.00	46.12	0.91	0.87
4.00	46.04	0.83	0.80
8.00	45.92	0.71	0.68
18.00	45.72	0.51	0.49
28.00	45.53	0.32	0.31
38.00	45.33	0.12	0.12

Information from data and plot of Ht/Ho vs time

Bore Hole Diameter:	8	in
Total Depth of Well:	51	ft
Stand Pipe Area:	50.27	in^2
	0.35	ft^2

Coordinates from Graph for Slope Calc:

H1/Ho:	0.87		
t1:	2.00	min	
H2/Ho:	0.31		
t2:	28.00	min	

H1:	0.90	H2:	0.32
t1:	2.00	t2:	28.00

Radius	R:	4.00	in
Radius	R:	0.33	ft
Depth	D:	5.79	ft
	R/D:	0.058	
	D/R:	17.37	

Shape Factor Determination Value: 0.894024 *

*This value is used in conjunction with

Figure 13 of Reference [1] to obtain the shape factor.

Shape Factor S: 1.0

Coeff. of Permeability (K):

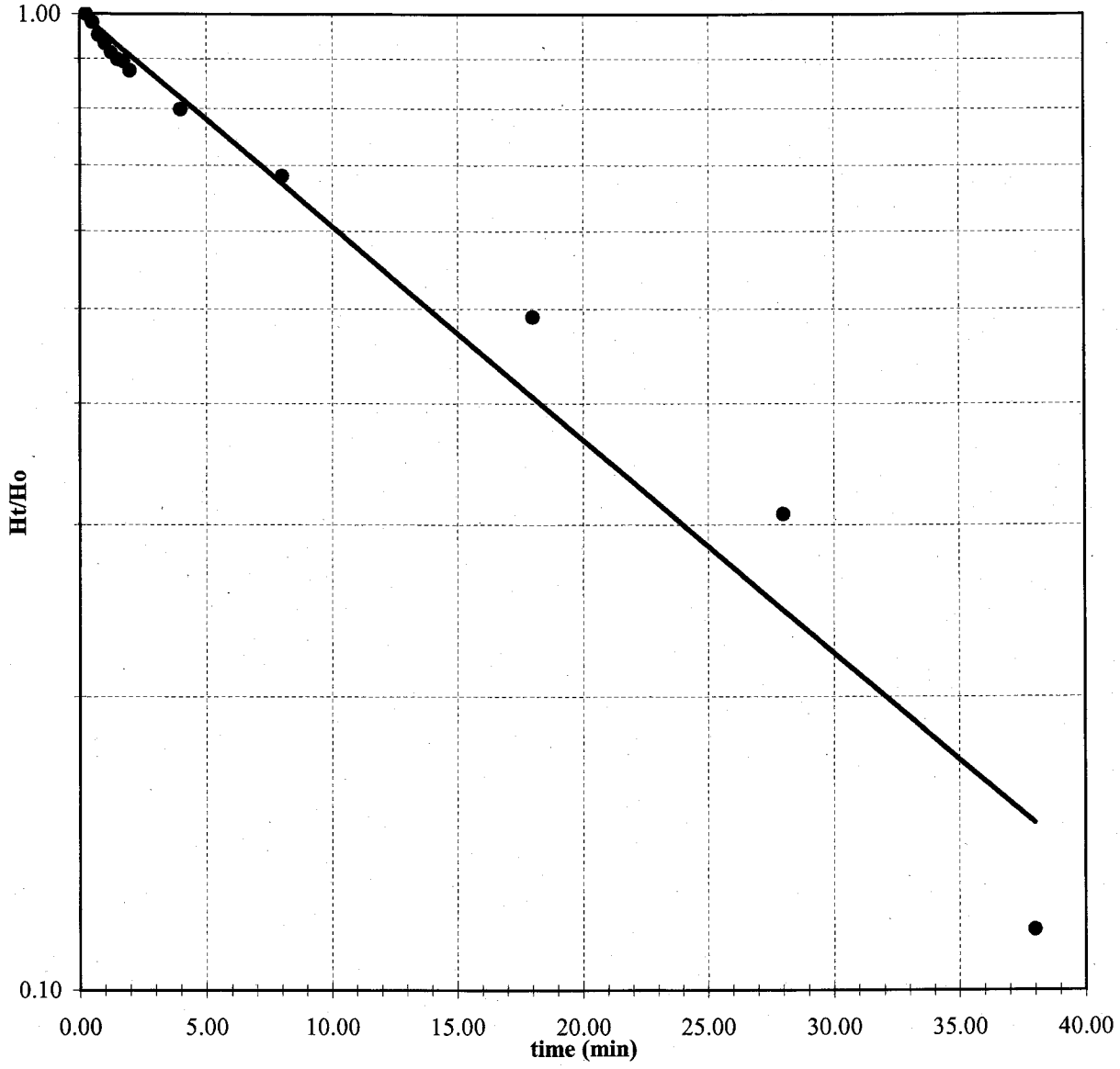
8.06E-05 ft/min

1.16E-01 ft/day

4.09E-05 cm/sec

Ref [1]: Naval Fac. Engr. Command, Design Manual 7.01, soil Mechanics, Condition A.

Inflow for Condition A Well MW-3.xls



Midlands
Environmental
Consultants, Inc.
235-B Dooley Road, Lexington, SC 29073
(803) 808-2043 fax: 808-2048

APPENDIX D
WASTE DISPOSAL MANIFEST

WASTE MANAGEMENT

Richland County LF
1047 Highway Church Road
Elgin, SC, 29045
Ph: (803) 788-3054

Original
Ticket# 974895

Customer Name MIDLANDSENVIRON MIDLANDS ENVI
Ticket Date 08/03/2009
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 0
Destination
PO
Profile VA2718 (SOIL FROM UST ASSESSMENT)
Generator 126-MIDLANDSENVIRONMENTAL MIDLANDS ENVIRONMENTAL

Carrier MIDLANDSENVIRON MIDLANDS ENVIRONMENT
Vehicle# 1
Container
Driver
Check#
Billing # 0000469
Gen EPA ID

Volume

	Time	Scale	ScaleMaster
In	08/03/2009 09:08:52	Scale2	kenny1
Out	08/03/2009 09:31:27	Scale2	kenny1

Gross	12520 lb
Tare	9200 lb
Net	3320 lb
Tons	1.66

Comments

WASTE MANAGEMENT

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	SOIL-Cont. Soil -	100	1.66	Tons				32-LEXINGT
2	FUEL-Fuel Surcharg	100		%				32-LEXINGT
3	P6ENV-Environmenta	100		%				32-LEXINGT

1/2 - Youngs

1/2 - Mc Gills

Total Fees
Total Ticket

SIGNATURE

403WM

WASTE MANAGEMENT

SPECIAL WASTE MANIFEST

WASTE ID # VA2718

EXPIRATION DATE: November 14, 2009

RICHLAND LANDI
1047 Hwy Church Rd
Elgin, SC 29045
(803)788-3954
(803)736-0995 Fax

PREPARED BY CAROL WELDON (205)-652-8186

GENERATOR OF WASTE: M.E.I.C. (Midlands Environmental Consultants, Inc)

CUSTOMER ACCOUNT: MIDLANDS ENV/ 8220-460

LOCATION OF WASTE: 1144 Old Two Notch Road

PHONE # 803-808-2043 CONTACT: Bryan Shane

FAX # 803-808-2048

GENERATOR'S SIGNATURE [signature] DATE: 8-3-09

TRANSPORTER OF WASTE MECI

DATE: 8-3-09 TRUCK NO. 1

DRIVER'S SIGNATURE [signature]

**** TO BE COMPLETED BY RICHLAND LANDFILL ****

DISPOSAL SITE: RICHLAND LANDFILL ELGIN, SC

DESCRIPTION OF WASTE SOIL from UST Assessment Soil

TICKET NO.# 974895 TONNAGE 1.66

RECEIVED BY [signature]

Midlands
Environmental
Consultants, Inc.

August 19, 2009

Re: Treatment of Purge Water
McGill Grocery
Iva, South Carolina
SCDHEC Site ID Number 19440
MECI Project Number 09-2340

To Whom it May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

All purge waters were treated on-site using an up-flow treatment drum loaded with 30 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

One 55-gallon drum was treated on July 31, 2009 at the referenced site.

A total of one (1) 55-gallon drum was treated at the referenced site.

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

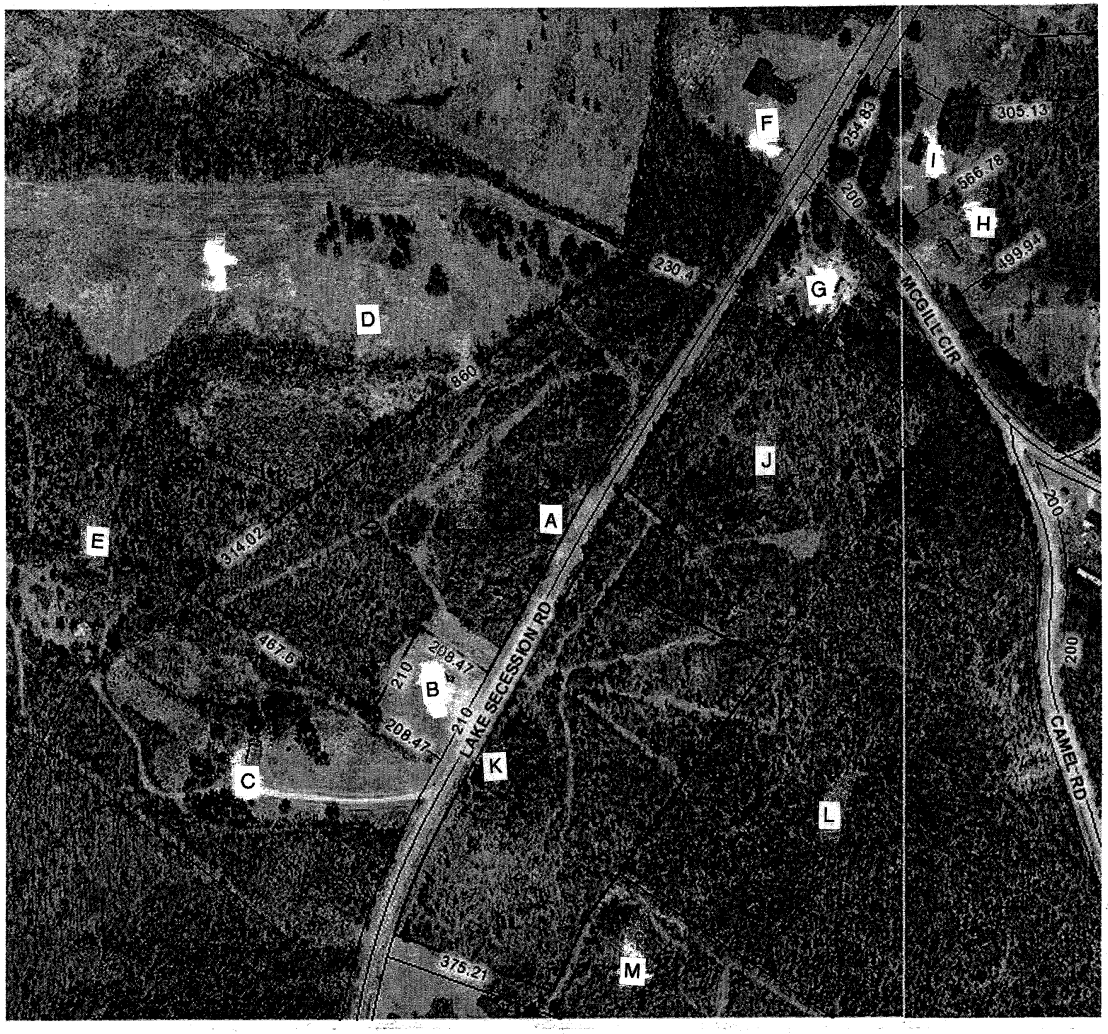
Sincerely,
Midlands Environmental Consultants, Inc.

Jeff L. Coleman
Project Scientist

APPENDIX E
ZONING REGULATIONS

MECI Personnel contacted Mr. Lanny McKay of Abbeville County Planning and Zoning Department on 8/18/09 to discuss zoning regulations associated with the subject site. According to Mr. McKay, the County of Abbeville has a zoning compliance permit that is required in conjunction with SCDHEC permits for installation of water supply wells.

APPENDIX F
TAX MAP



Scale: 1 inch = 90 feet

Information Obtained from Abbeville County GIS

Tax Map #			
	A	045-00-00-084 SITE	Donald E. McGill PO Box 41 Iva, SC 29655
	B	045-00-00-275 WSW-1	Abbeville County Fire Commission PO Box 435 Abbeville, SC 29620
	C	045-00-00-085 WSW-7	Ida R. Adams 2801 Lake Secession Road Iva, SC 29655
	D	045-00-00-086	Dr. James Milford 414 S. Silver Lake Road Oconomowoc, WI 53066
	E	045-00-00-087	Randolph Scotland PO Box 1025 Iva, SC 29655
	F	045-00-00-089 WSW-2	Wilson Creek Church Iva, SC 29655
	G	045-00-00-080 WSW-4	Wallace D. Moore 2938 Lake Secession Road Iva, SC 29655
	H	045-00-00-276 WSW-8	Marshall M. Bradford 41 McGill Cricle Iva, SC 29655
	I	045-00-00-278 WSW-5	Marvin L. Crawley 2960 Lake Secession Road Iva, SC 29655
	J	045-00-00-082	Donald and Tina McGill PO Box 41 Iva, SC 29655
	K	045-00-00-083 WSW-6	Doris B. Holland 200 Apple Tree Lane Williamston, SC 29621
	L	054-00-00-107	Miriam R. Cromer 2702 Cedar Lane Anderson, SC 29621
	M	054-00-00-534	Fred S. Winsted Jr. 4007 Brackenberry Drive Anderson, SC 29621

Tax Map Data

McGill Grocery
Iva, South Carolina
SCDHEC ID # 19440

Midlands Environmental Consultants, Inc.

JOB NO. 09-2340
DATE August 13, 2009
Appendix F

D H E C
PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner
Promoting and protecting the health of the public and the environment.

MS DIANA MCMAHAN PERSONAL REPRESENTATIVE
ESTATE OF DONALD E MCGILL
4520 DERRCLARE BLANE LN
EVANS GA 30809

FEB 25 2010

6tech
UST
DOCKET

Re: Tier II Plan Directive
McGill Grocery, Flat Rock Road, Iva, SC
UST Permit #19440
Release reported November 20, 2008
Tier I Report received September 9, 2009
Abbeville County

Dear Ms. McMahan:

The Underground Storage Tank Program of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the referenced report. The report indicates that chemicals of concern are present in the groundwater at concentrations that exceed risk-based screening levels (RBSLs).

To determine what risk the referenced release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of the scope of work as outlined in the Tier II Assessment Guidance Document is necessary. The assessment should be conducted in accordance with the Tier II Assessment guidance document and must be conducted in compliance with all applicable regulations. All shallow wells are to be installed with screen intervals that bracket the water table. The Tier II assessment document and appendices may be obtained from our website at http://www.scdhec.gov/environment/lwm/html/ust_guidance_ docs.htm. Forms may be obtained from the UST website at http://www.scdhec.gov/eqc/lwm/forms/assess%7E1.pdf.

Please have your contractor complete and submit the Assessment Component Cost Agreement and Assessment Plan Forms within thirty days of 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 the Department must be issued before work begins.**

On all correspondence regarding this site, please reference UST Permit #19440. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 896-6669, fax me at (803) 896-6245, or e-mail me at shradeaa@dhec.sc.gov.

Sincerely,

Arthur Shrader, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Midland's Environmental Consultants, PO Box 854, Lexington, SC 29071
Technical file

Midlands Environmental Consultants, Inc.

March 1, 2010

UST
MAR 0 1 2010
PROGRAM

Mr. Art Shrader, Hydrogeologist
Assessment Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

UST
DOCKET
Tier II

Subject: Tier II Assessment Work Plan
McGill Grocery
Lake Secession Road
Iva, South Carolina
SCDHEC Site ID# 19440
MECI Proposal # P10-739

Dear Mr. Shrader,

On behalf of Ms. Diana McMahan (Representative for the Estate of Donald E. McGill), Midlands Environmental Consultants, Inc. is pleased to submit the attached Tier II Assessment Cost Proposal for the subject site. The additional assessment activities proposed are intended to provide current information necessary to monitor the contaminant plume originating on the subject site.

We appreciate your time in consideration of this proposal. If we can be of any assistance, please feel free to call at 803-808-2043.

Sincerely,
Midlands Environmental Consultants, Inc.

Jeff L. Coleman
Project Scientist

Brayn T. Shane, P.G.
Principal Geologist

Attachments

Cc: Ms. Diana McMahan, 4520 Derryclare Lane, Evans, GA 30809

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

ASSESSMENT COMPONENT COST PROPOSAL

SOUTH CAROLINA
Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
State Underground Petroleum Environmental Response Bank

Site Name McGill Grocery — Date: 3/1/2010
Site ID # 19940 — Proposal # P10-739

	ITEM	QUANTITY	UNIT		UNIT PRICE	TOTAL
1	A. Plan Preparation*	1	each	x	$100	$100
	B. Tax Map	0	each	x	$50	$0
2	Receptor Survey*	0	each	x	$500	$0
3	Comprehensive Survey	1	each	x	$1,000	$1,000
4	Mob/Demob (list Component #)					
	A. Equipment	2	each	x	$575	$1,150
	B. Personnel	4	each	x	$290	$1,160
	C. Adverse Terrain Vehicle	0	each	x	$500	$0
5	Soil Borings* (Hand Auger)	0	feet	x	$14	$0
6	Soil Borings (Drilled)	(includes collection and quantification)				
	and Field Screening*	1500	feet	x	$17	$25,500
7	Soil Leachability Model	0	each	x	$200	$0
8	Abandonment*					
	(separate from #5 and #6)	1500	feet	x	$5	$7,500
9	Well Installation*	(Includes Drilling Costs)				
	A. Water Table (Hand Auger)	0	feet	x	$20	$0
	B. Water Table (Drilled)	500	feet	x	$38	$19,000
	C. Telescoping	150	feet	x	$58	$8,700
	D. Rock Drilling	0	feet	x	$58	$0
10	Groundwater Sample Collection					
	A. Groundwater (Purge)	12	samples	x	$55	$660
	B. Air or Vapors	0	samples	x	$90	$0
	C. Water Supply	6	samples	x	$25	$150
	D. Groundwater (No Purge)	4	samples	x	$35	$140
	E. Gauge Well Only	0	samples	x	$20	$0
11	Analyses-Groundwater	(See RA Guidance for site specific analyses)				
	A. BTEX+Napth.+MTBE	21	samples	x	$100	$2,100
	B. Rush BTEX Analysis	0	samples	x	$120	$0
	BB. 1,2-DCA	16	samples	x	$10.75	$172
	C. BTEX+Napth.+MTBE+Trimethylbenz	0	samples	x	$135	$0
	D. PAHs	0	samples	x	$120	$0
	E. Lead	16	samples	x	$20	$320
	F. EDB	21	samples	x	$55	$1,155
	G. 8 RCRA Metals	0	samples	x	$140	$0
	H. TPH (9070)	0	samples	x	$55	$0
	I. pH	0	samples	x	$10	$0
	J. BOD	0	samples	x	$40	$0
	K. Nitrate	16	samples	x	$20	$320
	L. Sulfate	16	samples	x	$20	$320
	M. Ferrous Iron	16	samples	x	$20	$320
	N. Methane	16	samples	x	$110	$1,760
	O. Organic Lead	0	samples	x	$100	$0
	P. 8 Oxygenates	16	samples	x	$85	$1,360

11 Analyses-Soil				
Q. BTEX+Napth.	10 samples	x	$100	$1,000
R. PAHs	0 samples	x	$120	$0
S. 8 RCRA Metals	0 samples	x	$150	$0
T. TPH (9071)	0 samples	x	$60	$0
U. TPH (3550B/8015B)	0 samples	x	$65	$0
V. TPH (5030B/8015B)	0 samples	x	$65	$0
W. Grain Size/Hydrometer	2 samples	x	$75	$150
X. Total Organic Carbon	0 sample	x	$35	$0
11 Analysis-Air				
Y. BTEX + Napth	0 sample	x	$100	$0
12 Aquifer Characterization*				
A. Pumping Test	0 hours	x	$120	$0
B. Slug Test	3 tests	x	$150	$450
13 Free Product Recovery Rate Test*	0 each	x	$120	$0
14 Fate/Transport Modeling	(List Software) Bio-Plume & Dominicos'			
A. Mathematical Model	0 model	x	$300	$0
B. Computer Model	0 model	x	$500	$0
15 Risk Evaluation				
A. Tier I	0 each	x	$300	$0
B. Tier II	1 each	x	$500	$500
16 Subsequent Survey*	0 each	x	$260	$0
17 Disposal				
A. Wastewater				
1. Purging/Sampling	5 drums	x	$90	$450
2. Pumping Test/EFR	0 gallons	x	$0.60	$0.00
B. Free Product	0 drums	x	$110	$0
C. Soil (treatment/disposal)	10 tons	x	$50	$500
18 Miscellaneous				
20 Tier I Assessment (Use DHEC 3665 form)				
21 IGWA (Use DHEC 3666 form)				
22 Corrective Action (Use DHEC 3687 form)				
23 EFR				
A. 8-hour Event	0 event	x	$3,000	$0
B. Additional Hour	0 per hour	x	$204	$0
C. Off-gas Treatment	0 per hour	x	$35	$0
19 Report/Project Management and Coordination	%		(SUBTOTAL)	
	0.15	x	75,937.00	$11,390.55
20 Total				87,327.55

TIER II ASSESSMENT PLAN

SOUTH CAROLINA

Department of Health and Environmental Control

Bureau of Underground Storage Tank Management

Site ID # 19440 County: Abbeville Facility Name: McGill Grocery
Facility Address: Lake Secession Road, Iva, SC
Responsible Party: Ms. Diana McMahan (Representative for Estate of Donald McGill)
Address: 4520 Derryclare Blane Lane, Evan, GA 30809
No. USTs: 5 Removed? Replaced?

Current Use of Facility/Property: Vacant Property
Current Property Owner Name: Donald McGill
Current Property Owner Address: P.O. Box 41, Iva, SC 29655

Field Screening Methodology
Specify the field screening methodology to be used. The use of field screening methods to optimize the number and location of permanent wells is required.

We propose utilize direct push field screening techniques with laboratory analysis of groundwater samples obtained.

Permanent Monitoring wells		(Estimate number and total completed depth)	
# of shallow wells	10	total depth	500 feet
# of deep wells	2	total depth	150 feet
# of rock wells	0	total depth	0 feet

Analyses List the analytical parameters (e.g., BTEX, MTBE) and estimate number.

GROUNDWATER- 16 Samples for BTEX+NAPTH+MTBE, EDB, Oxygenates, 1,2 DCA, Total Lead, Nitrates, Sulfates, Methane, and Ferrous Iron.

Water Supply Wells- 6 Samples for BTEX, NAPTH, MTBE, and EDB.

Implementation Schedule
Start up date 3/26/10 Completion date 5/26/10
Report submittal date 6/15/10

TIER II ASSESSMENT PLAN

SOUTH CAROLINA
Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Site ID # 19440 Facility Name: McGill Grocery

Site Maps

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.

2. Prepare a site base map. The map must be accurately scaled, but does not need to be surveyed. The map must include the following:

North Arrow	Legend with facility name and address, Site ID number, date, and a bar scale
Location of Property Lines	Streets or Highways (indicate names and numbers)
Location of Buildings	Identification of Located Buildings
Paved areas on or adjacent to site	Location of all present and former ASTs and USTs
Previous soil sampling locations	Underground and above ground utilities on or adjacent to site
Previous monitoring well locations	Location of any potential receptor

Aquifer Characterization (Check one and provide explanation for choice)

Pump Test _____ Slug Tests-3

Small Volume Disposal Type and Method

Soil Disposal- 10 tons of soil to be disposed of at a licensed disposal facility

Purge-Water- 5 drums of purge water from development of monitoring wells.

Additional Comments _____

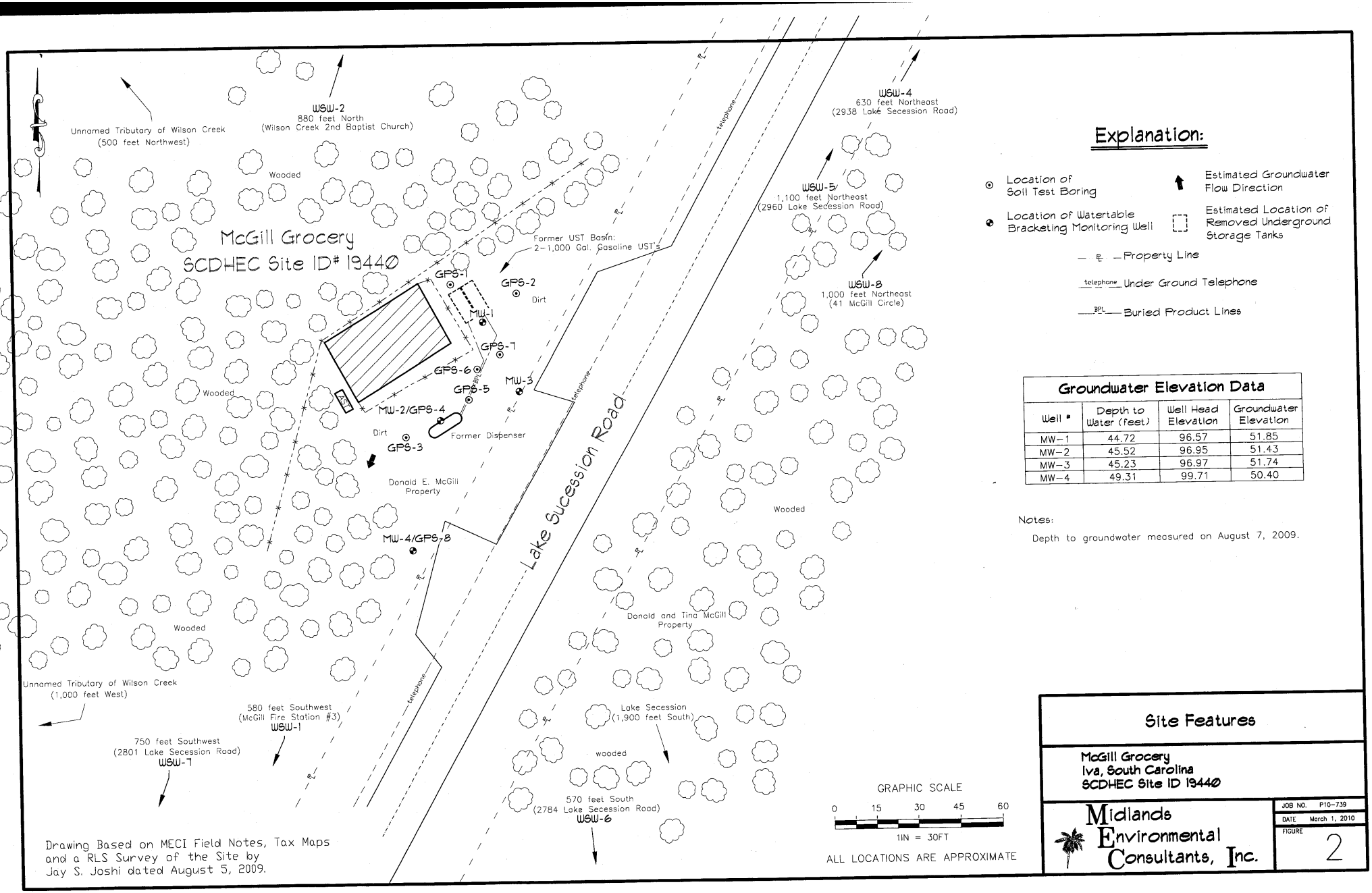
GRAPHIC SCALE

0 1000 2000 4000

1IN = 2000FT

Reference: Antreville, South Carolina
Contour Interval–10 Feet
USGS 7.5 Min. Quad

Midlands Environmental Consultants, Inc.	Site Location
McGill's Grocery Iva, SC SCDHEC Site ID# 19440	
Figure 1	MECI 09-2340



Explanation:

- Location of Soil Test Boring
- Location of Watertable Bracketing Monitoring Well
- Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- —℄— Property Line
- telephone Under Ground Telephone
- BPL Buried Product Lines

Groundwater Elevation Data

Well #	Depth to Water (feet)	Well Head Elevation	Groundwater Elevation
MW-1	44.72	96.57	51.85
MW-2	45.52	96.95	51.43
MW-3	45.23	96.97	51.74
MW-4	49.31	99.71	50.40

Notes:

Depth to groundwater measured on August 7, 2009.

Site Features

McGill Grocery
Iva, South Carolina
SCDHEC Site ID 19440

Midlands Environmental Consultants, Inc.

JOB NO. P10-739
DATE March 1, 2010
FIGURE 2

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

MAR 1 6 2010

MS DIANA MCMAHAN PERSONAL REPRESENTATIVE
ESTATE OF DONALD E MCGILL
4520 DERRCLARE BLANE LN
EVANS GA 30809

UST DOCKET

Re: Tier II Directive
McGill Grocery, Flat Rock Road, Iva, SC
UST Permit #19440; Cost Agreement #38471; MWA #UMW-23547
Release reported November 20, 2008
Tier II Assessment Plan and Associated Cost Proposal received March 1, 2010
Abbeville County

Dear Ms. McMahan:

The Underground Storage Tank Program of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the referenced plan submitted by Midlands Environmental Consultants, Incorporated. The assessment should be conducted in accordance with the Tier II Assessment guidance document and must be conducted in compliance with all applicable regulations. All shallow wells are to be installed with screen intervals that bracket the water table. The Tier II assessment document and appendices may be obtained from our website at http://www.scdhec.gov/environment/lwm/html/ust_guidance_docs.htm.

Assessment activities at the site should begin immediately upon receipt of this letter. Cost agreement number 38471 has been approved for the amount shown on the enclosed cost agreement form. Please be aware that the February 1, 2006 SUPERB Allowable Costs sheet states that "If vertical and horizontal extent of chemicals of concern are not fully defined by this tier report, additional mobilizations may not be approved by the Department." **Please contact the department prior to well installation for concurrence regarding the final well locations**. No-purge sampling is required for previously installed monitoring wells (except deep wells) where the screens bracket the water table. Monitoring well approval has been issued to your site rehabilitation contractor for up to 15 temporary, 10 shallow and two deep monitoring wells. A copy is enclosed for your information and files. Field screening points converted to wells will be compensated at the permanent well installation rate. **A Report of Findings and the invoice are due within 90 days from the date of this letter.**

According to Program records, the release at the facility was reported to SCDHEC on January 28, 2009. In accordance with Section 44-2-40(D) of the State Underground Petroleum Environmental Response Bank (SUPERB) Act, the Estate of Donald McGill is responsible for the first $25,000 of site rehabilitation costs. Costs that exceed the $25,000 deductible may be reimbursed directly to Midlands Environmental Consultants, Incorporated. An interim well drilling invoice may not be submitted. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. 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 all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed

and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor. Please note, if unnecessary dilutions are completed resulting in reporting limits of individual CoC in excess of Risk-Based Screening Levels (RBSLs), the data cannot be used. In those cases, the Department may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST Division encourages the use of 'J' values as necessary so the appropriate action can be determined for a release.

Please note that in accordance with R.61-92, Subpart H, Section 280.114, you are required to notify the Program by certified mail within ten (10) days of commencing a voluntary or involuntary proceeding in bankruptcy. State law also requires that an owner/operator or guarantor that files for bankruptcy protection must immediately submit appropriate forms documenting that entity's ability to demonstrate financial responsibility.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Department for the cost to be paid. The SCDHEC 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, SCDHEC reserves the right to question and/or reject costs if deemed unreasonable. The SCDHEC reserves the right to audit project records at any time during the project or after completion of work.

Please note that you and/or your contractor are responsible for obtaining all off-site access agreements and/or encroachment permits necessary for this scope of work.

The Department 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 CoC concentrations based on laboratory analysis are below RBSLs, please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence regarding this site, please reference UST Permit #19440. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 896-6669, fax me at (803) 896-6245, or e-mail me at shradeaa@dhec.sc.gov.

Sincerely,

Arthur Shrader, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement (ACA)
Monitoring Well Approval (MWA)

cc: Midlands Environmental Consultants, Inc., PO Box 854, Lexington, SC 29071 (with enc).
Technical file (with enc.)

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

Monitoring Well Approval

Approval is hereby granted to:	Midlands Environmental Consultants, Incorporated
(on behal of):	The Estate of Donald E. McGill
Facility:	McGill Grocery, Flat Rock Road, Iva, SC
UST Permit Number:	19440
County:	Abbeville

This approval is for the installation of up to 15 temporary, 10 shallow and two deep groundwater monitoring wells. The monitoring wells are to be installed in the approved location. The 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 Department shall be completed and submitted to the Department within 30 days after well completion or abandonment unless another schedule has been approved by the Department. 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 Department within 30 days of receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.d.

5. If any of the information provided to the Department changes, notification to the Arthur Shrader (tel: 803-896-6669 or e-mail: shradeaa@dhec.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. Departmental 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 April 26, 2002. A copy of this approval should be on the site during well installation.

Date of Issuance: **March 2, 2010** **Approval #:** **UMW-23547**

Arthur Shrader, Hydrogeologist
Assessment Section
Division of Assessment and Corrective Action
Bureau of Land and Waste Management

Approved Cost Agreement 38471

Facility: 19440 MCGILL GROCERY
BOSNICVJ
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
01 PLAN					
		A PLAN PREPARATION	1.0000	100.00	100.00
03 COMPREHENSIVE SURVEY					
		COMPREHENSIVE SURVEY	1.0000	1,000.00	1,000.00
04 MOB/DEMOB					
		A EQUIPMENT	2.0000	575.00	1,150.00
		B PERSONNEL	4.0000	290.00	1,160.00
06 SOIL BORINGS (DRILLED)					
		A SOIL BORINGS & FLD SCREENING	750.0000	17.00	12,750.00
08 ABANDONMENT					
		ABANDONMENT	750.0000	5.00	3,750.00
09 WELL INSTALLATION					
		B WATER TABLE (DRILLED)	500.0000	38.00	19,000.00
		C TELESCOPING	150.0000	58.00	8,700.00
10 SAMPLE COLLECTION					
		A GROUND WATER	12.0000	55.00	660.00
		C WATER SUPPLY	6.0000	25.00	150.00
		D GROUNDWATER NO-PURGE	4.0000	35.00	140.00
		F SAMPLE BELOW PRODUCT	1.0000	50.00	50.00
11 ANALYSES					
	GW GROUNDWATER	A BTEX+NAPTH+MTBE	22.0000	100.00	2,200.00
		BB 1,2-DCA	16.0000	10.75	172.00
		E LEAD	16.0000	20.00	320.00
		F EDB	22.0000	55.00	1,210.00
		K NITRATE	16.0000	20.00	320.00
		L SULFATE	16.0000	20.00	320.00
		M FERROUS IRON	16.0000	20.00	320.00
		P 8 OXYGENATES	16.0000	85.00	1,360.00
	SOIL SOIL	Q BTEX+NAPTH	10.0000	100.00	1,000.00
		W GRAIN SIZE/HYDROMETER	2.0000	75.00	150.00
12 AQUIFER CHARACTERIZATION					
		B SLUG TEST	2.0000	150.00	300.00
17 DISPOSAL					
		A1 WASTEWATER - PURGING/SAMPLING	5.0000	90.00	450.00
		C SOIL (TREATMENT/DISPOSAL)	10.0000	50.00	500.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PCT PERCENT	0.1500	57,232.00	8,584.80
				Total Amount	65,816.80

D H E C
PROMOTE PROTECT PROSPER
South Carolina Department of Health
and Environmental Control

DIVISION OF UST MANAGEMENT
BUREAU OF LAND AND WASTE MANAGEMENT
2600 Bull Street, Columbia, South Carolina 29201

TO: Underground Storage Tank (UST) Contractors

FROM: Larry G. Sorrell
Financial Section
UST Management Division

DATE: March 15, 2010

SUBJECT: Transition to New Financial Systems

Effective **May 3, 2010,** the South Carolina Department of Health and Environmental Control will be converting to a new statewide system, the South Carolina Enterprise Information System (SCEIS). The conversion to SCEIS is expected to improve services by state agencies and provide the citizens of the state with better services at reduced costs.

As part of this transition, we will be required to shut down our financial and purchasing functions in our existing system on **April 16, 2010.** The transition period could last as long as six weeks. During this time period, no purchasing, receiving or vendor payments can be processed.

In order to prepare for this conversion, we are taking every step possible to ensure that minimal delays occur in our payment process. All payable invoices received by **April 1, 2010,** will be processed into the accounting system we are currently using and forwarded to Accounts Payable for payment. Invoices received between **April 2 and May** 3 will not be processed to Accounts Payable until the first two weeks in May, at the earliest. At that time SCEIS will be used to process invoices received during the shut down period. We respectfully ask for patience and consideration during this transition period so that no services are interrupted.

If you have any questions regarding these changes, please contact me at sorrellg@dhec.sc.gov or 803.896.6391.

C: Don Siron, Director of UST Program
Eric Cathcart, Manager of Regulatory Compliance Section
Chris Doll, Manager of Assessment Section
Lee Monts, Manager of Corrective Action Section
UST Financial Staff

UST Permit 19440

From: Art A. Shrader
To: bts@meci.net; Coleman, Jeff
Date: 6/15/2010 3:55 PM
Subject: Assessments in Rock
Attachments: 18200 AR 5_16_07 Appendix C .pdf; 18200 Fracture .pdf

Brian & Jeff,

I had hoped to send you an e-mail earlier today, but that was not to be.

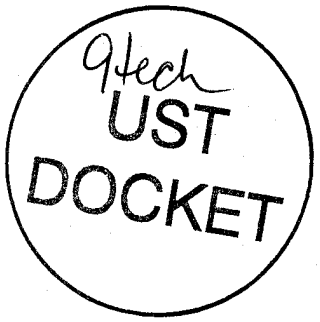
Attached are the oversize figures from an Assessment Report from Schnabel.
Evergreen 123 (UST Permit # 18200). The site is at the Peak Exit on I-26.

Attached are the Figures from Appendix C and the text. The oriented core data/ fracture orientation and the chemical of concern figure with depth in the fractures. The text details how the Rose Diagrams were generated and sampling of the significant fractures.

Probably the best way to see hydraulic significant fractures is installing the FLUTe liner and measuring the change as the liner fills with water. The web site is http://www.flut.com/app_15.html.

We hung passive diffusion bags at the significant fractures and then run screening data to see what fractures are impacted.

Hope this helps.
Art



February 8, 2007 similar examination was conducted on monitoring wells MW-19, MW-20, and MW-21. The data were collected using an ALT ABI40 televiewer with the Matrix logging system. The acoustic televiewer data were collected at each well location while the tool was pulled up from the bottom of the well by an electric winch. After each well was logged, the televiewer tool and cable were decontaminated with soapy water and rinsed with deionized water.

This work was performed in accordance with generally accepted geophysical practices. It is recognized that the results of geophysical surveys are non-unique and actual subsurface conditions may differ from that indicated from geophysical data. Further, conditions at other well locations are expected to vary from those indicated from the geophysical data at the well locations tested. In addition, the results of the geophysical survey may not indicate all features of interest if those features are beyond the resolution limits of the geophysical instrument.

Determination of Down Gradient Monitoring Well Locations

In order to determine the extent of downgradient migration of BTEX constituents in groundwater two additional monitoring wells were proposed. Monitoring wells MW-20 and MW-21 were located based on the results acquired from the acoustical televiewer logging. A line was projected from MW-6 that followed the N65°E strike of the dominant fracture trend. The new wells were positioned as close as accessible to that strike line and downgradient of MW-6, as directed by SCDHEC.

4.2 Fracture Pattern Identification

The geology at the site, and surrounding area, consists of a saprolite layer and competent but weathered bedrock extending from ground surface to a depth ranging from 15 – 60 feet. Based on limited outcrop at the surface, and drill cuttings observed during monitoring well installation, the rock type is consistent with the metavolcanics associated with the Carolina Slate Belt. The orientation of fractures observed in the competent rock interval of each monitoring well were compiled into rose diagrams and illustrated in Figure 3. The dominant strike direction of N65°E is consistent in all of the wells logged. The dip direction of fractures is divided with some to the NW and others to the SE, at varying angles. Rose diagrams depict strike rather than dip since migration of groundwater with BTEX constituents would primarily be along the strike direction and not sink in the down dip direction. The principal fracture orientation delineated by the

geophysical logging effort is supported by the contaminant distribution. The core of the contaminant plume (principally MTBE) falls along a line with an orientation of approximately N65°E that passes through the UST basin. Wells MW-3, MW-2, MW-8, MW-15, and MW-17 represent the core of the plume. Well MW-8 appears to contain the greatest number of fractures and is also the well with the greatest contaminant concentration.

A geologic cross section has been constructed across the site: north to south transect A-A' from MW-14 to MW-16; and, west to east transect B-B' from MW-10 to MW-21 (Figure 5). All fractures with a measurable opening > 1 inch are represented on the cross sections. The fractures do not appear to be mappable from one well to the next, however, the degree of fracturing observed in the bedrock implies a high probability of an interconnected network of fractures. To confirm the potential connections from well to well would require a series of packer tests. The well logs, which include Rose Diagrams and stereographic projections for each fractured interval, are compiled onto 3 foldout sheets and included in the Appendix C pocket. Tables for each surveyed well detailing the depth, size, and orientation of each fracture identified are also included in Appendix C.

5.0 Passive Diffusion Bags

5.1 Installation

At SCDHEC's direction, passive diffusion bag (PDB) samplers, made of low-density polyethylene filled with deionized water by the supplier, were installed in MW-2, MW-8, MW-12, and MW-17 on February 22, 2007. The PDBs were filled with laboratory grade, analyte-free, deionized water by the manufacturer. The PDBs are 24" long and 1 ¼" in diameter. The low-density polyethylene performs as a semi-permeable membrane allowing volatile organic compounds common to petroleum products to diffuse into the water in the PDB.

The bags were installed opposite major fractures in the selected wells by attaching the PDB to a new rope and lowering the rope containing the bags into the well. Each rope was weighted with a 16-ounce stainless steel weight to ensure that the PDBs remained bracketed opposite their respective fractures. The sampled fractures in MW-2 were at 47, 81.5, 147.5, 164, 201.5, and 222.5 ft bgs. The sampled fractures in MW-8 were at 38, 54, 80, 102.5, 120, 133, and 154 ft bgs. The sampled fractures in MW-12 were at 43.5 51.5 65.5 and 75.5 ft bgs, and the fractures in MW-17 were at 39, 80, 94, 109, 123, and 145 ft bgs.