TERRAquest
ENVIRONMENTAL CONSULTANTS, P.C.

July 18, 2013

Scott Johnston
NCDWM-UST Section
Raleigh Regional Office
1628 Mail Service Center
Raleigh, NC 27699

Re: Groundwater Monitoring Report
Paul's Cash Grocery and Service
NCDMW-UST Incident No. 23589
Terraquest Project No. 03403

Dear Mr. Johnston:

On behalf of Robert Lee, Terraquest Environmental Consultants, P.C. is submitting the enclosed Groundwater Monitoring Report for the Paul's Cash Grocery and Service facility located in Raleigh, Wake County, North Carolina. This report documents the June 24, 2013 groundwater sampling event and the results of an updated site receptor survey.

Should you have any questions regarding this report or the project, please contact Michael Brown at (919) 563-9091. Thank you.

Sincerely,

TERRAQUEST ENVIRONMENTAL CONSULTANTS, P.C.

Andrew C. Wrenn

Andrew C. Wrenn
Environmental Scientist

Enclosed: Groundwater Monitoring Report

cc: Robert Lee

100 E. Ruffin Street • Mebane, North Carolina 27302
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www.terraquestpc.com

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GROUNDWATER MONITORING REPORT

(Subsequent Report)

PAUL'S CASH GROCERY AND SERVICE
7301 POOLE ROAD
RALEIGH, NORTH CAROLINA

Latitude: 35° 45' 18" Longitude: -78° 30' 57"

Facility ID No. 0-021442
Risk Classification: High 655E
NCDWM-UST Incident No. 23589

Release Information:
Date Discovered: August 1, 2001
Estimated Release Quantity: Unknown
Release Source: Commercial UST System
Capacity of Former USTs: (3) 10,000-gallon gasoline,
(1) 4,000-gallon diesel, and (1) 2,000-gallon kerosene USTs

UST System Owner/Responsible Party/Property Owner:
Robert Lee
Paul's Cash Grocery and Service
7301 Poole Road
Raleigh, NC 27610

Terraquest Project No. 03403

July 18, 2013

100 E. Ruffin Street • Mebane, North Carolina 27302
Telephone (919) 563-9091 • Facsimile (919) 563-9095
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CERTIFICATION FOR THE SUBMITTAL
OF AN ENVIRONMENTAL / GEOLOGICAL ASSESSMENT

Attached is the Groundwater Monitoring Report (Subsequent Report) for:

Site Name:	Paul's Cash Grocery and Service		
Responsible Party:	Robert Lee		
Address:	7301 Poole Road		
City:	Raleigh	State: NC	Zip Code: 27610

I, Michael J. Brown, a Licensed Geologist in the State of North Carolina for TERRAQUEST ENVIRONMENTAL CONSULTANTS, P.C. do hereby certify that I am familiar with and have reviewed all material including figures within this report and that to the best of my knowledge the data, site assessment, figures, and other associated materials are correct and accurate. All work was performed under my direct supervision. My seal and signature are affixed below.

Terraquest Environmental Consultants, P.C. is licensed to practice geology in North Carolina. The certification number of the corporation is C-291.

TERRAQUEST ENVIRONMENTAL CONSULTANTS, P.C.

Andrew C. Wrenn
Environmental Scientist

NORTH CAROLINA LICENSED SEAL 1185 GEOLOGIST MICHAEL J. BROWN

Ryan D. Kerins
Project Manager

Michael J. Brown, P.G.
Vice President

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A. Environmental Acronyms and Technical Methods/Standard Procedures
B. Historical Groundwater Analytical Data
C. Analytical Reports

1.0 INTRODUCTION

On behalf of the responsible party, Robert Lee, Terraquest Environmental Consultants, P.C. has prepared this Groundwater Monitoring Report for the Paul's Cash Grocery and Service facility located in Knightdale, Wake County, North Carolina. This report details a groundwater monitoring event that took place on June 24, 2013 and the results of an updated site receptor survey. Activities detailed in this report were pre-approved on TA 23589-024 and -025.

The site location is depicted in Figure 1. Figure 2 is a site vicinity map that identifies potentially sensitive receptors within a 1,500-foot radius of the site. The site layout and monitoring well network are depicted in Figure 3. Environmental acronyms used in this report are detailed in Appendix A along with Terraquest technical methods and standard procedures.

2.0 GROUNDWATER MONITORING

2.1 Groundwater Hydrogeology

Prior to purging and sampling the monitoring well network, depth-to-groundwater measurements were collected on June 24, 2013 to identify the location of the phreatic aquifer and to determine the direction of its flow. Groundwater measurements were reduced to a common datum using previously established well casing elevations. The calculated water table elevations were plotted on a plan of the site and used to create a contour map of the water table surface as shown on Figure 4. As shown on Figure 4, groundwater is directed toward the east as it has been historically. Elevation data collected on June 24, 2013 is summarized in Table 1 along with monitoring well construction information.

2.2 Groundwater Analytical Results

On June 24, 2013, Terraquest personnel sampled monitoring wells MW1, MW2, MW2D, MW5, MW6, MW6D, MW7, MW8, MW10, MW11, MW13, MW13D, MW14, and MW15D, and potable wells PW1, PW2, PW9, PW10, and PW17. Monitoring well MW4 was not sampled due to the presence of 0.91 feet of free product (kerosene). Monitoring wells MW3, MW9, and MW12 were found to be dry and, therefore, could not be sampled. Prior to sampling the monitoring wells, each well was purged of at least three well volumes of water using a new disposable bailer. Bailers were then used to retrieve a representative sampled from each monitoring well. Prior to sampling the potable wells, the water at each well was allowed to run for a sufficient amount of time (approximately 10 minutes) to purge any bladder/holding tanks to ensure that the sampled water was representative of aquifer conditions in that area. Upon retrieval, samples were placed into the appropriate laboratory-prepared containers, labeled, and packed on ice pending shipment to a North Carolina-certified laboratory for analysis per 6200B.

The following analytical results were reported for the June 24, 2013 groundwater monitoring event:

Free product:	MW4,
GCL violations:	None reported,
Petroleum-type compounds > 2L Standards:	MW1, MW2, MW2D, MW6, and RW1
Petroleum-type compounds < 2L Standards:	MW6D, MW7, MW8, MW10, MW11, and MW13
No petroleum-type compounds:	MW5, MW11, MW13D, MW14, MW15D, PW1, PW2, PW9, PW10, and PW17
PCE detections (>2L Standards):	MW7, MW8, MW13, MW13D, MW14, MW15D, PW1, and PW10

Review of the most recent groundwater data indicates that free product is still present in monitoring well MW4 at approximately the same thickness reported in February 2009 (approximately 1 foot). Please note that the approved MMPE event was not conducted during this monitoring period. Terraquest is currently considering other free product recovery options.

Despite the continued presence of free product in monitoring well MW4, the analytical results for the recent sampling event reveal an overall decrease in petroleum-type contaminants since the previous sampling event (February 2009). The groundwater analytical results are summarized on Table 2 and on Figure 5. Historical analytical results sheets by well are included in Appendix B. The full analytical report is provided in Appendix C.

As indicated above, the analytical results of the June 24, 2013 sampling event also revealed the presence of non-petroleum contamination (PCE) in several monitoring wells and two potable wells at concentrations in excess of the 2L Standards. The groundwater analytical results are summarized on Table 2 and on Figure 5. The PCE contamination was first detected in monitoring wells MW13 (87 ug/L) and MW13D (1.7 ug/L) during the February 2009 groundwater sampling event. PCE contamination was not previously documented in any of the sampled potable wells. During the recent sampling event, PCE was detected in potable wells PW1 and PW10. Please note that property owners with wells that contained reported concentrations of PCE were notified of these findings. The source of the PCE contamination is unknown.

On July 16, 2013, Terraquest personnel was contacted by Lucy Ginsburg of Crosby Water and Sewer (operators of the Dreamland Mobile Home Park potable well (PW10)) concerning the detected PCE contamination. Ms. Ginsburg stated that based upon the concentration of PCE detected in the well that notification of the results had been provided to the NC Division of Water Quality. Ms. Ginsburg also stated that detections of PCE were detected in the well in 2012. Upon further investigation into the matter, Terraquest discovered, from the 2012 Annual

Drinking Water Quality Report for the Dreamland Mobile Home Park, that PCE contamination was detected in the well at a concentration of 0.02 ppb in 2012.

3.0 RECEPTOR UPDATE

As part of assessment activities, Terraquest personnel conducted an updated site receptor survey on July 10, 2013. During the receptor update a total of fifteen (15) potable wells were identified within 1,500 feet of the release area. Of the identified wells, thirteen (13) were identified as sole-source with eight (8) of those wells being located within 1,000 feet of the release area. Municipal water is available to properties within 1,000 feet of the release area. Water supply well information is provided in Table 3. Water supply well locations are displayed on Figure 2.

4.0 SUMMARY AND CONCLUSIONS

Terraquest personnel conducted a groundwater sampling event and updated site receptor survey at the Paul's Cash Grocery and Service facility on June 24, 2013. Based upon the results of these events, Terraquest makes the following conclusions:

- Results of the recent sampling event revealed the presence of 0.91 feet of free product in monitoring well MW4. Free product was first detected in monitoring well MW4 during the February 2009 sampling event.
- Analytical results for groundwater samples collected from the monitoring well network revealed the continued presence of petroleum-type contaminants at concentrations in excess of the 2L Standards. A review of the analytical results revealed on overall decrease in petroleum-type contamination since the previous sampling event (February 2009).
- Analytical results for groundwater samples collected from the potable wells revealed no petroleum-type compounds detected at concentrations in excess of the laboratory's method detection limits.
- Non-petroleum contamination (PCE) was detected in several monitoring wells and two potable wells at concentrations in excess of the 2L Standards. The source of the PCE contamination is unknown.

- The presence of active sole-source water supply wells within 1,000 feet of the release area continues to mandate the High Risk Ranking for the site.
- Based upon the results of the recent groundwater sampling event, Terraquest recommends proceeding with monitored natural attenuation as the most cost-effective method of remediation of the 2L petroleum plume. Given the decrease in petroleum-type contaminants since the previous sampling event, Terraquest does not feel that remedial activities as detailed in the NCDWM-UST approved CAP are needed at this time.
- Along with monitored natural attenuation of the petroleum plume, Terraquest recommends free product recovery from monitoring well MW4. Terraquest is evaluating various free product recovery options.

5.0 LIMITATIONS

This report is limited to the investigation of petroleum hydrocarbons in groundwater and does not imply that other unforeseen adverse impacts to the environment are not present at or around the subject facility. In addition, subsurface heterogeneities not identified during the current study may influence the migration of groundwater or contaminants in unpredicted ways. The limited amount of sampling and testing conducted during this study cannot practically reveal all subsurface heterogeneities. Furthermore, the subsurface conditions, particularly groundwater flow, elevations, and water quality may very through time. The opinions and conclusions arrived at in this report are in accordance with industry-accepted geologic and hydrogeologic practices at this time and location. No warranty is implied or intended.

TABLES

Table 1
Date: 7/16/13

MONITORING WELL CONSTRUCTION INFORMATION

Incident Name: Paul's Cash Grocery and Service Incident No. 23589

Facility ID No: 0-021442

Well ID	Date Installed	Date Water Level Measured	Well Casing Depth (feet below ground surface)	Screened Interval (x to y feet below ground surface)	Bottom of Well (feet below ground surface)	Top of Casing Elevation (feet)	Depth to Water from Top of Casing (feet)	Free Product Thickness (feet)	Groundwater Elevation (feet)	Comments
MW1	11/5/01	6/24/13	17	17 - 33	33	98.16	30.58	0	67.58	2" diameter Type II monitoring well
MW2	1/31/02	6/24/13	17	17 - 32	32	94.76	30.65	0	64.11	2" diameter Type II monitoring well
MW2D	1/31/02	6/24/13	OC: 33 IC: 43	43 - 48	48	95.06	31.18	0	63.88	2" diameter Type III monitoring well
MW3	1/31/02	6/24/13	17	17 - 32	32	96.82	DRY	-	-	2" diameter Type II monitoring well
MW4	1/31/02	6/24/13	19	19 - 34	34	99.84	32.42	0.91	68.08	2" diameter Type II monitoring well
MW5	6/4/02	6/24/13	18	18 - 33	33	94.02	30.65	0	63.37	2" diameter Type II monitoring well
MW6	6/4/02	6/24/13	15	15 - 30	30	91.54	32.16	0	59.38	2" diameter Type II monitoring well
MW6D	6/3/02	6/24/13	OC: 33 IC: 43	43 - 48	48	91.62	32.39	0	59.23	2" diameter Type III monitoring well
MW7	6/4/02	6/24/13	17	17 - 32	32	90.07	27.1	0	62.97	2" diameter Type II monitoring well
MW8	6/4/02	6/24/13	18	18 - 33	33	93.44	29.32	0	64.12	2" diameter Type II monitoring well
MW9	6/4/02	6/24/13	19	19 - 34	34	98.30	DRY	-	-	2" diameter Type II monitoring well
MW10	6/4/02	6/24/13	19	19 - 34	34	100.19	32.2	0	67.99	2" diameter Type II monitoring well
MW11	6/4/02	6/24/13	19	19 - 34	34	99.15	31.06	0	68.09	2" diameter Type II monitoring well
MW12	8/21/02	6/24/13	22	22 - 37	37	94.61	DRY	-	-	2" diameter Type II monitoring well
MW13	8/21/02	6/24/13	17	17 - 32	32	85.43	23.03	0	62.40	2" diameter Type II monitoring well
MW13D	8/22/02	6/24/13	OC: 55 IC: 60	60 - 65	65	85.61	23.36	0	62.25	2" diameter Type III monitoring well
MW14	8/20/02	6/24/13	15	15 - 30	30	86.04	23.3	0	62.74	2" diameter Type II monitoring well
MW15D	8/19/02	6/24/13	OC: 33 IC: 70	70 - 80	80	91.15	31.88	0	59.27	2" diameter Type III monitoring well
RW1	2/25/04	6/24/13	19	19 - 59	59	95.41	30.69	0	64.72	4" diameter extraction well (for gw pumping pilot test)
PZ1	2/26/04	6/24/13	15	15 - 35	35	96.06	-	-	-	2" diameter piezometer (for gw pumping test)
AS1	2/24/04	6/24/13	34	34 - 40	40	95.56	-	-	-	1"-diameter air sparging well
AS2	2/25/04	6/24/13	60	45 - 60	60	95.52	-	-	-	1"-diameter air sparging well

Notes:
1. All units in feet.
2. - Information not available.
3. OC = outer casing, IC = inner casing.

Table 2

Date: 7/16/13

SUMMARY OF GROUNDWATER SAMPLING RESULTS

Incident Name: Paul's Cash Grocery and Service Incident No. 23589

Facility ID No: 0-021442

Analytical Method		6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B
Contaminant of Concern																
Sample ID	Date Collected	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	n-Butylbenzene	sec-Butylbenzene	Isopropylbenzene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	Tetrachloroethene (PCE)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
PW1	6/24/13	<1	<5	<1	<3	<1	<1	<1	<1	<1	<1	<5	<1	**1.4**	<1	<1
PW2	6/24/13	<1	<5	<1	<3	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1
PW9	6/24/13	<1	<5	<1	<3	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1
PW10	6/24/13	<1	<5	<1	<3	<1	<1	<1	<1	<1	<1	<5	<1	**23**	<1	<1
PW17	6/24/13	<1	<5	<1	<3	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1
MW1	6/24/13	**24**	**49**	**190**	**334**	**33**	<1	**2.6**	**2.8**	**19**	**1.6**	**90**	**34**	<1	**190**	**48**
MW2	6/24/13	<1	<5	<1	<3	**64**	<1	<1	<1	<1	<1	**6.7**	<1	<1	**1.1**	<1
MW2D	6/24/13	**6.7**	<5	<1	**3.1**	**99**	<1	<1	<1	**1.4**	<1	5.6	<1	<1	<1	<1
MW4	6/24/13	FREE PRODUCT (0.91')														
MW5	6/24/13	<1	<5	<1	<3	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1
MW6	6/24/13	<1	<5	<1	<3	**21**	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1
MW6D	6/24/13	<1	<5	<1	<3	**7.3**	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1
MW7	6/24/13	<1	<5	<1	<3	**1.2**	<1	<1	<1	<1	<1	<5	<1	**2**	<1	<1
MW8	6/24/13	<1	<5	<1	<3	**1.8**	<1	<1	<1	<1	<1	<5	<1	**25**	<1	<1
MW10	6/24/13	<1	<5	<1	<3	**5.6**	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1
MW11	6/24/13	<1	<5	<1	<3	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1
MW13	6/24/13	<1	<5	<1	<3	**1.6**	<1	<1	<1	<1	<1	<5	<1	**190**	<1	<1
MW13D	6/24/13	<1	<5	<1	<3	<1	<1	<1	<1	<1	<1	<5	<1	**140**	<1	<1
MW14	6/24/13	<1	<5	<1	<3	<1	<1	<1	<1	<1	<1	<5	<1	**1.9**	<1	<1
MW15D	6/24/13	<1	<5	<1	<3	<1	<1	<1	<1	<1	<1	<5	<1	**6.4**	<1	<1
RW1	6/24/13	**2.8**	<5	<1	<3	**310**	2	<1	**1.2**	**3.7**	<1	<5	<1	<1	<1	<1
	2L Standard	1	600	600	500	20	70	70	70	70	25	6	70	0.7	400	400

Notes:

1. All results in ug/l (parts per billion).
2. **Bold** denotes a detection
3. Shading denotes a 2L Standard violation.
4. < = denotes less than sample detection limit.

Table 3
Date: 7/16/13

WATER SUPPLY WELL INFORMATION
Incident Name: Paul's Cash Grocery and Service Incident No. 23589

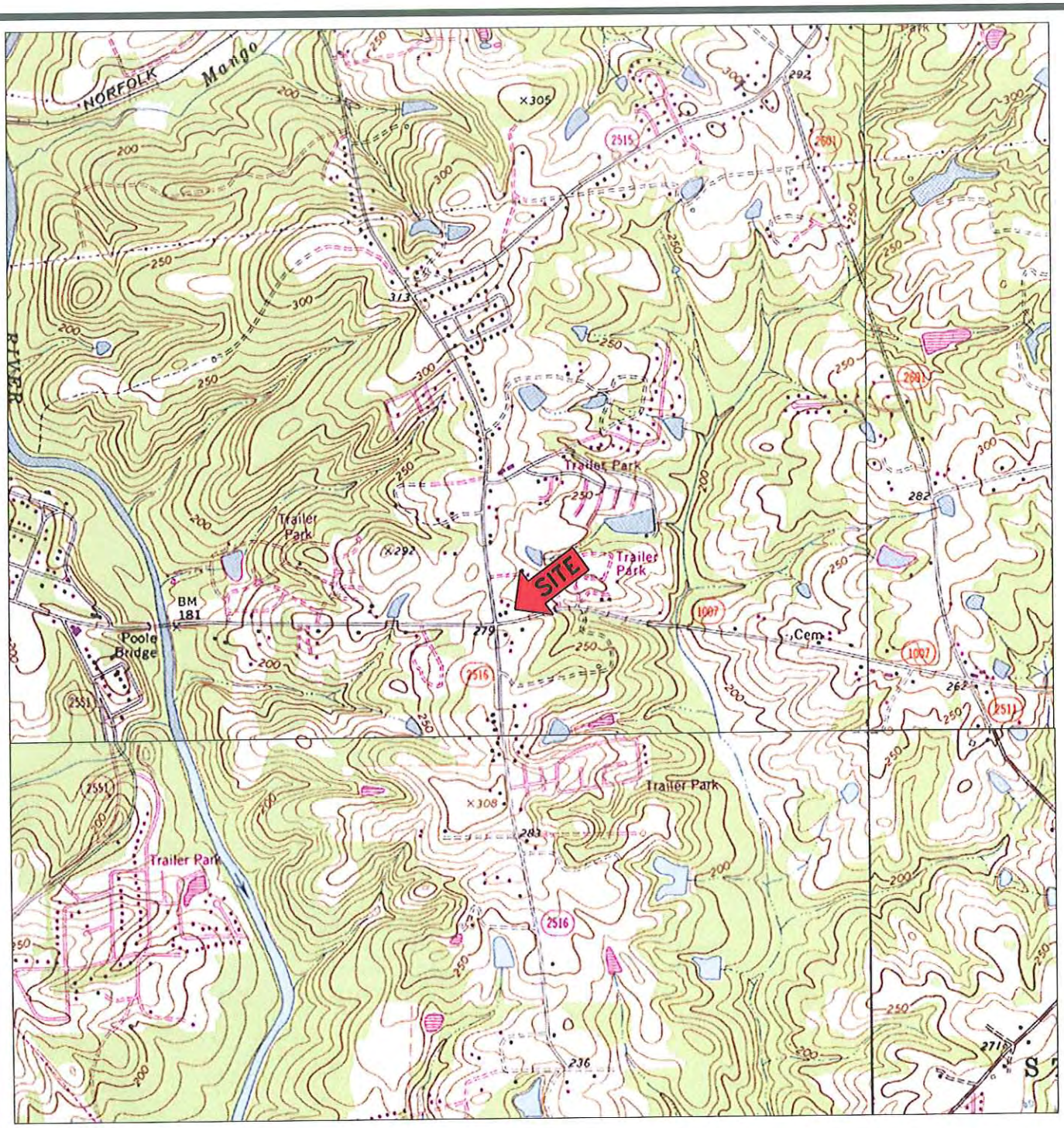
Facility ID No: 0-021442

Well ID No.	Well Owner's Address	Well Address	Phone No.	Well Use	Well Depth (feet BGS)	Type of Well	Casing Depth (feet BGS)	Screen Interval (feet BGS)	Distance from Source Area of Release (feet)
PW1	Paul's Cash Grocery Barbara S. Lee, et al. 7301 Poole Road Raleigh, NC 27610-9366	7301 Poole Road Raleigh, NC 27610-9366	919-266-2624	sole water supply	250-300	drilled 6"-diam.	50?	Open Hole	100
PW2	Paul L. Lee 2437 Hodge Road Knightdale, NC 27545-9387	2529 Hodge Road Knightdale, NC 27545-9388	no phone	sole water supply	?	Bored	?	?	240
PW3	Robert Lewis Lee 2513 Hodge Road Knightdale, NC 27545-9389	2521 Hodge Road Knightdale, NC 27545-9389	919-266-4658	sole water supply	?	Drilled	?	?	350
PW4	Robert L. and Cindy F. Lee 2513 Hodge Road Knightdale, NC 27545-9389	2513 Hodge Road Knightdale, NC 27545-9389	919-266-4658	sole water supply	?	Drilled	?	?	850
PW5	Brian Keith Lee 2425 Hodge Road Knightdale, NC 27545-9387	2425 Hodge Road Knightdale, NC 27545-9387	919-266-2641	sole water supply	?	Drilled	?	?	1,150
PW6	Betty J. Bizzell 5800 Coffee Street Raleigh, NC 27604	2421 Hodge Road Knightdale, NC 27545-9386	?	sole water supply	?	Drilled	?	?	1,450
PW7	Griffin America Health Care Reit II 4000 Mcarther Blved. West Tower Suite 200 Newport Beach, CA 92660-2558	2408 Hodge Road Knightdale, NC 27545-9386	?	Abandoned	?	?	?	?	1,423
PW8	Christene B. and Gaston Floyd 7317 Poole Road Raleigh, NC 27610-9366	7317 Poole Road Raleigh, NC 27610-9366	919-266-2786	permanently abandoned	65	drilled 6"-diam.	?	?	200
PW9	Christene B. and Ira G. Floyd 7317 Poole Road Raleigh, NC 27610-9366	7325 Poole Road Raleigh, NC 27610-9366	919-266-2786	sole water supply	66	Drilled	?	?	510
PW10	Dreamland MHP Leaman Woodward Heirs 5133 Grasshopper Rd. Raleigh, NC 27610-9396	7331 Poole Road Raleigh, NC 27610-9366	Mary Woodard 919-231-2311 Lewis Woodard (son) 919-422-2980 (cell)	sole water supply	68	drilled 6"-diam.	?	Open Hole	940
PW11	Andrew and Odessa Broadie 1522 Dutchess Dr. Salisbury, MD 21801-8949	7409 Poole Road Raleigh, Nc 27610-9366	919-266-3902	Inactive	?	Drilled	?	?	1,440
PW12	Carlin Paul Partnership 1825 Pictor Rd. Raleigh, NC 27606-3638	7312 Poole Road Raleigh, NC 27610-9365	919-550-7794	sole water supply	?	Drilled	?	?	340
PW13	Camerino Casteneda 2649 Hodge Rd. Knightdale, NC 27545-9391	2649 Hodge Road Knightdale, NC 27545-9391	?	sole water supply	?	Drilled	?	?	1,300
PW14	Truman A. and Cora A. Wilson 2709 Hodge Road Knightdale, NC 27545-9393	2709 Hodge Road Knightdale, NC 27545-9393	919-217-2840	sole water supply (2713 Hodge Rd connected also)	100	Drilled	?	?	1,460
PW15	Judy M. Joyner Hicks 2732 Hodge Road Knightdale, NC 27545-9392	2704 Hodge Road Knightdale, NC 27545-9392	919-266-2286	sole water supply	?	Drilled	?	?	1,500
PW16	Jackson Auto Salvage 7120 Poole Road Raleigh, NC 27610-9361	7120 Poole Road Raleigh, NC 27610-9361	919-266-2860	sole water supply	?	Drilled	?	?	1,430
PW17	Christene B. and Ira G. Floyd 7317 Poole Road Raleigh, NC 27610-9366	7317 Poole Road Raleigh, NC 27610-9366	919-266-2786	sole water supply	180	drilled 6"-diam.	50	Open Hole	400

Notes:
1. BGS - feet below ground surface // ? - unknown information
2. Information obtained from reports previously submitted by Mid-Atlantic Associates, P.A. and TerraQuest field observations.
3. Well ID numbers are displayed on Figure 2.
4. Distances from release area are approximate.

Updated: 9/18/06
Last field verification: 11/01

FIGURES



N

MAP SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC – RALEIGH EAST, NC

GRAPHIC SCALE

0' 2000' 4000'

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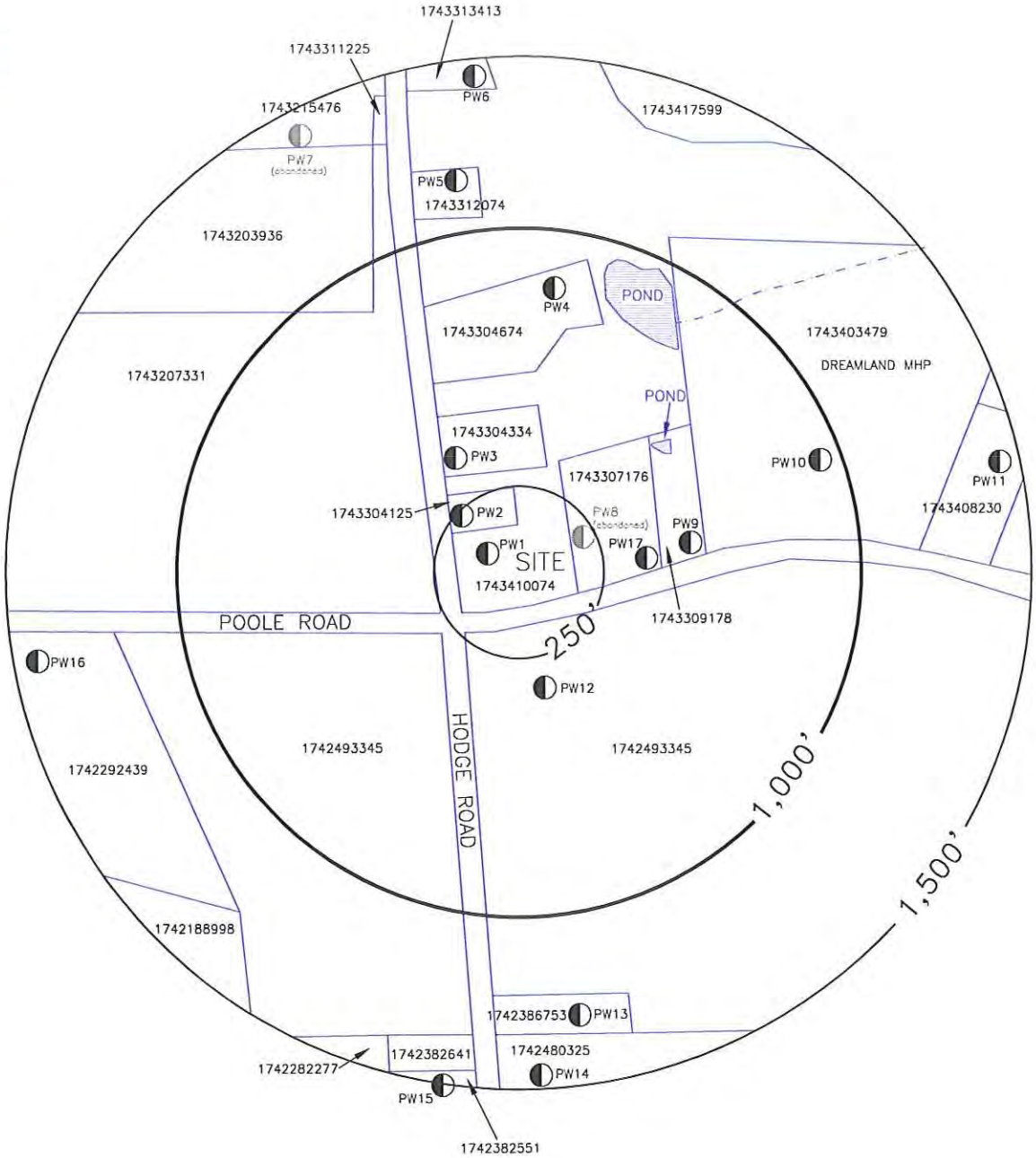
SITE LOCATION MAP

PAUL'S CASH GROCERY AND SERVICE
7301 POOLE ROAD
RALEIGH, NC

ROBERT LEE — RALEIGH, NC

PROJECT NO.	03403	DRAWN BY:	RDK	DATE:	7/16/13
SCALE:	1" = 2000'	CHECKED BY:	MJB	FIGURE NO.	1



POTABLE WELL LOCATION

PW1 POTABLE WELL IDENTIFICATION NUMBER (SEE TABLE 2 OF CAP)

1742282277 TAX PIN NUMBER (SEE TABLE 1 OF CAP)

(POTABLE WELL RECONNAISANCE PERFORMED BY MID-ATLANTIC ASSOCIATES, P.A.)
(UPDATED BY TERRAQUEST) – Date of last field verification: 7/13

GRAPHIC SCALE

0' 250' 500' 1,000'

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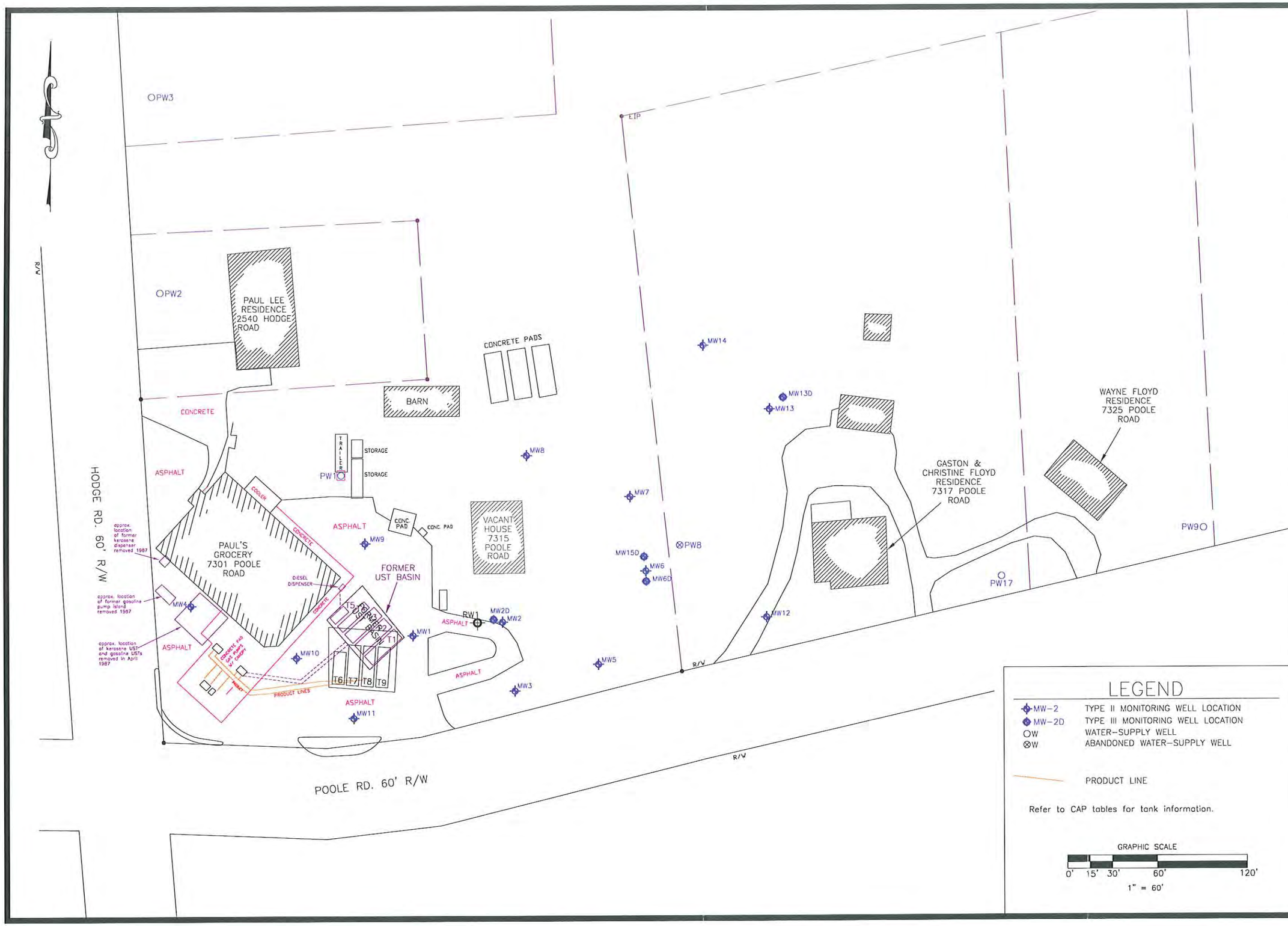
SITE VICINITY MAP

PAUL'S CASH GROCERY AND SERVICE
7301 POOLE ROAD
RALEIGH, NC

ROBERT LEE — RALEIGH, NC

PROJECT NO.	03403	DRAWN BY:	RDK	DATE:	7/16/13
SCALE:	1" = 500'	CHECKED BY:	MJB	FIGURE NO.	1



SITE LAYOUT MAP

PAUL'S CASH GROCERY AND SERVICE
7301 POOLE ROAD
RALEIGH, NC

ROBERT LEE			RALEIGH, NC
PROJECT NO:	03403	CHECKED BY: MJB	FIGURE NO. 3
SCALE:	1" = 60'	DRAWN BY: RDK	DATE: 7/16/13

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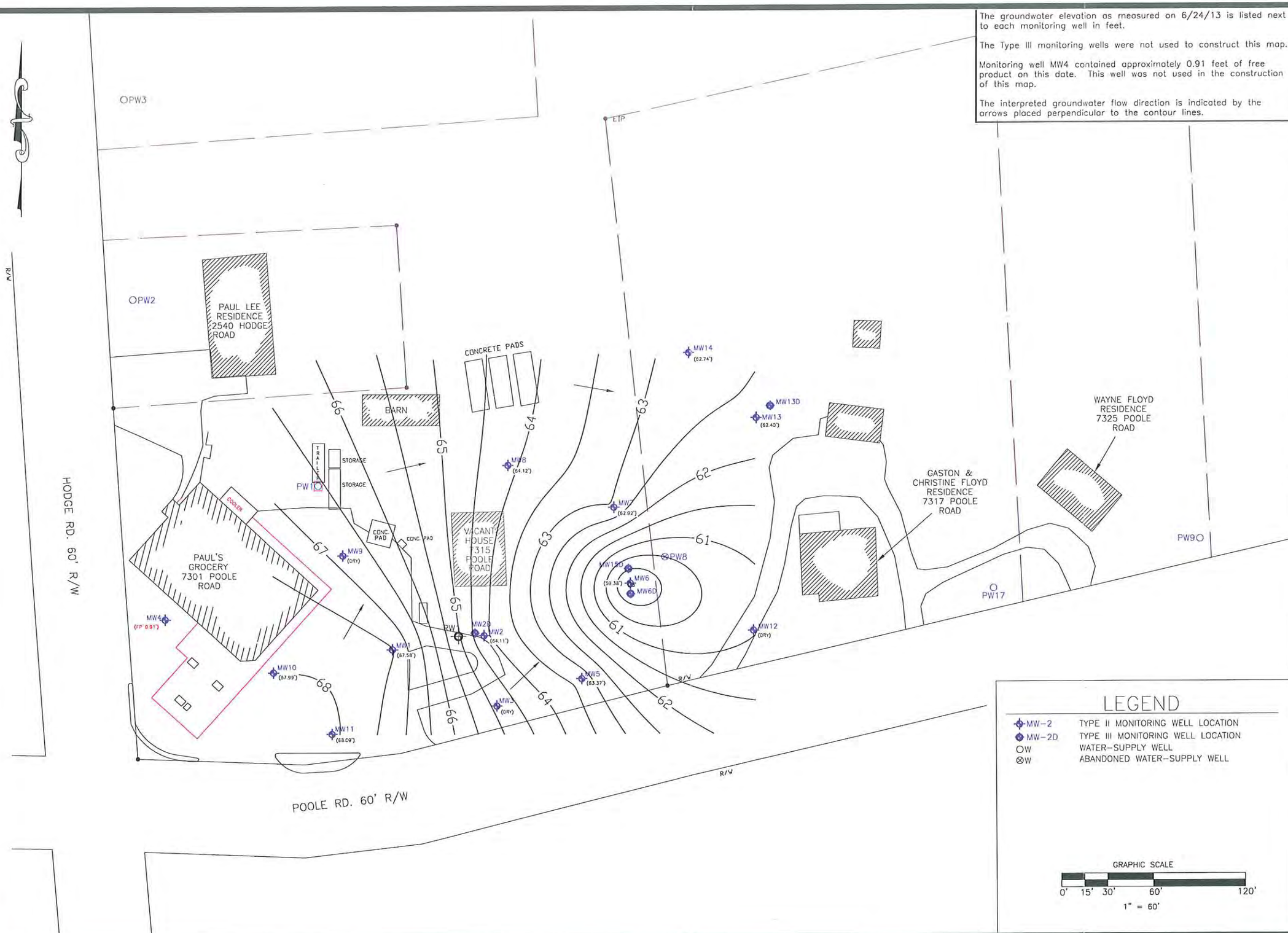
ENVIRONMENTAL CONSULTANTS, P.C.

The groundwater elevation as measured on 6/24/13 is listed next to each monitoring well in feet.

The Type III monitoring wells were not used to construct this map.

Monitoring well MW4 contained approximately 0.91 feet of free product on this date. This well was not used in the construction of this map.

The interpreted groundwater flow direction is indicated by the arrows placed perpendicular to the contour lines.



POTENTIOMETRIC SURFACE MAP (6/24/13)

PAUL'S CASH GROCERY AND SERVICE
7301 POOLE ROAD
RALEIGH, NC

ROBERT LEE			RALEIGH, NC
PROJECT NO: 03403	CHECKED BY: MJB	FIGURE NO. 4	
SCALE: 1" = 60'	DRAWN BY: RDK	DATE: 7/16/13	

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Groundwater analytical results in ug/L from the 6/24/13 sampling event are listed next to each well.

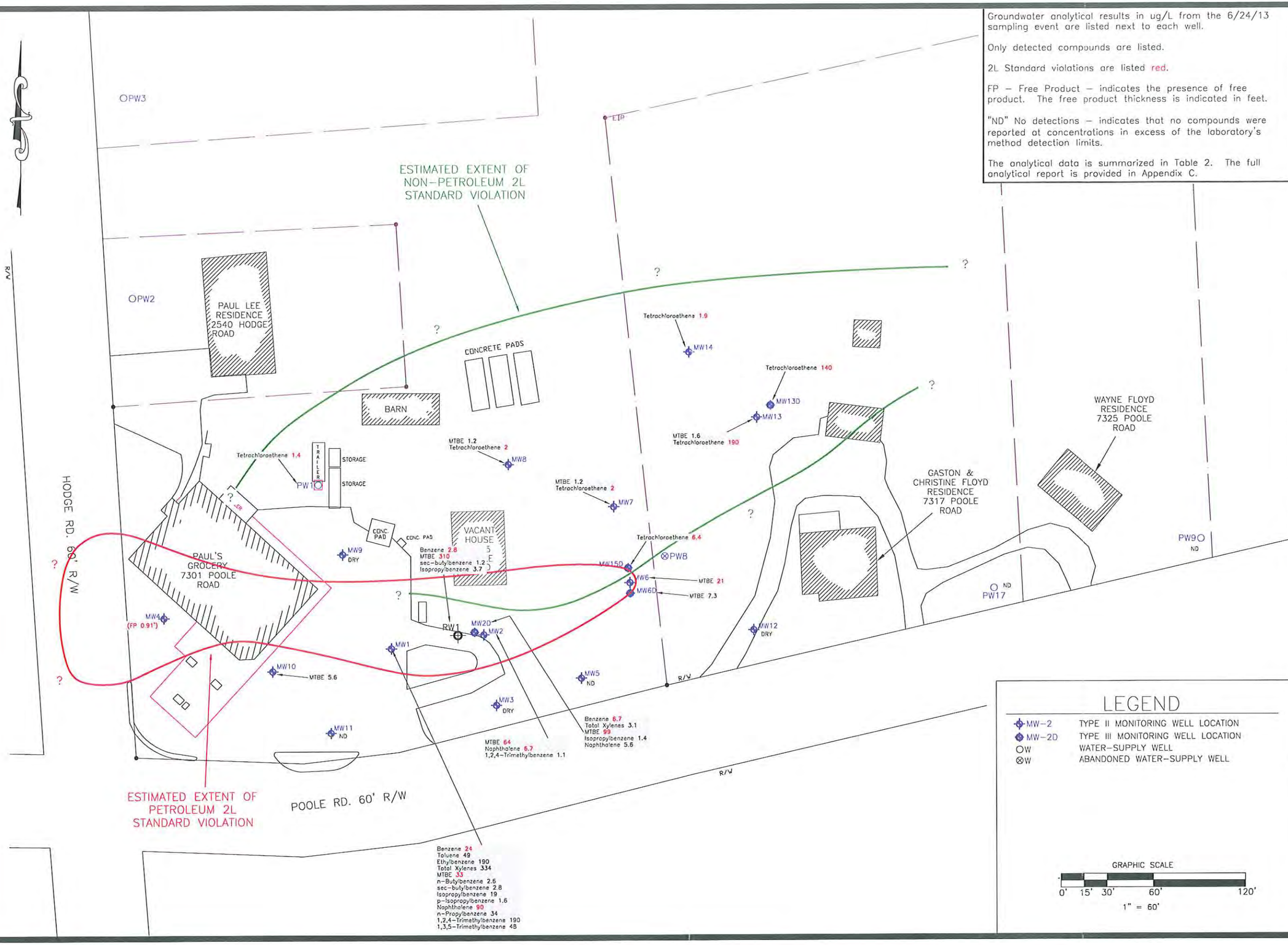
Only detected compounds are listed.

2L Standard violations are listed red.

FP – Free Product – indicates the presence of free product. The free product thickness is indicated in feet.

"ND" No detections – indicates that no compounds were reported at concentrations in excess of the laboratory's method detection limits.

The analytical data is summarized in Table 2. The full analytical report is provided in Appendix C.



GROUNDWATER ANALYTICAL RESULTS (6/24/13)

PAUL'S CASH GROCERY AND SERVICE
7301 POOLE ROAD
RALEIGH, NC

ROBERT LEE			RALEIGH, NC
PROJECT NO: 03403	CHECKED BY: MJB	FIGURE NO. 5	
SCALE: 1" = 60'	DRAWN BY: RDK	DATE: 7/16/13	

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APPENDIX A

ENVIRONMENTAL ACRONYMS

2L Standard	Groundwater Standards under Title 15A NCAC 2L 0.0202(g)
2B Standard	Surface Water Standards under Title 15A NCAC 2B
AFVR	Aggressive Fluid-Vapor Recovery
AST	Aboveground Storage Tank
BGL	Below Ground Level
BNA	Base Neutral and Acid Extractables
C&D	Construction and Demolition
CAP	Corrective Action Plan
CSA	Comprehensive Site Assessment
EPA	Environmental Protection Agency
EPH	Extractable Petroleum Hydrocarbons
ESA	Environmental Site Assessment
GCL	Gross Contamination Level
LEL	Lower Explosive Limit
LSA	Limited Site Assessment
IPE	di-Isopropyl Ether
MADEP	Massachusetts Department of Environmental Protection
mg/kg	Milligrams per kilogram
mg/L	Milligrams per Liter
MMPE	Mobile Multi Phase Extraction
MSCC	Maximum Soil Contaminant Concentration
MSW	Municipal Solid Waste
MTBE	Methyl tertiary-Butyl Ether
NC	North Carolina
NCAC	NC Administrative Code
NCDENR	NC Department of Environment and Natural Resources
NCDOT	NC Department of Transportation
NCDWM-SW	NC Division of Waste Management's Solid Waste Section
NCDWM-IHSB	NC Division of Waste Management's Superfund Section Inactive Hazardous Sites Branch
NCDWM-UST	NC Division of Waste Management's UST Section
NCDWQ	NC Division of Water Quality
NORR	Notice of Regulatory Requirements
NORP	Notice of Residual Petroleum
NOV	Notice of Violation
NPDES	National Pollutant Discharge Elimination System
OVM	Organic Vapor Meter
PG PSRG	Protection of Groundwater Preliminary Soil Remediation Goals
PID	Photo Ionization Detector
PLC	Programmable Logic Controller
POE	Point of Entry (water treatment system)
POTW	Publicly Owned Treatment Works
PSRG	Preliminary Soil Remediation Goals
PVC	Poly-vinyl chloride
RBCA	Risk Based Corrective Action
SVOC	Semi-Volatile Organic Compound
SVE	Soil Vapor Extraction
stg	Soil to Groundwater (MSCC)
TA	Task Authorization
TCC	Target Cleanup Concentrations
TCLP	Toxicity Characteristics Leaching Procedure
Terraquest	Terraquest Environmental Consultants, P.C.
TPH	Total Petroleum Hydrocarbon
UST	Underground Storage Tank

ENVIRONMENTAL ACRONYMS

VOA	Volatile Organic Analysis
VOC	Volatile Organic Compound
VPH	Volatile Petroleum Hydrocarbons
MNA	Monitored Natural Attenuation

TECHNICAL METHODS/STANDARD PROCEDURES

Equipment Decontamination

All soil sampling equipment utilized during site assessment activities is decontaminated according to standard and accepted protocol. Cleaning solutions range from clean potable water to acidic solutions or organic solvents depending on the contaminants present at the site. Equipment utilized at sites, such as hand augers, contaminated with petroleum hydrocarbons, is generally decontaminated with a low-sudsing detergent such as Luiquinox® and triple rinsed with distilled water. Larger equipment, such as drill rigs and associated tools, is steam cleaned. All decontamination procedures are completed within an established decontamination area which is located away from the active study area. Frequency of equipment decontamination depends on the nature of work being performed, but in no case is decontamination performed less frequently than once per test (i.e., soil boring, well installation, sample collection, etc.). Equipment blanks are collected as a quality control measure when required by job specifications.

Soil Boring Installation

Soil borings are completed using hand-operated sampling tools, truck-mounted drills, or Geoprobe® drilling rigs depending on the depth of sample collection and other site-specific conditions. Hand operated stainless-steel bucket augers are utilized to collect soil samples at regular intervals to determine site stratigraphy and to test for the presence of volatile organic compounds. Samples retrieved from the hand auger are necessarily disturbed during the augering process, but can provide accurate information on soil type and contaminant concentrations when properly interpreted. Soil samples from hand augered borings are generally retrieved at one to two foot intervals.

Truck-mounted or Geoprobe® drilling equipment is often utilized when sample retrieval depths exceed twenty feet or subsurface conditions prevent utilization of hand augers (i.e., buried rocks, wood, bricks or other materials occur in the subsurface). Truck-mounted drilling rigs usually retrieve soil via a hollow-stem auger/split spoon collection method. Geoprobe® rigs usually employ a Macro-Core® tube retrieval system.

Hollow stem augers provide relatively undisturbed 2-foot cores of soil samples. Soil samples are generally collected at five foot intervals utilizing standard penetration test procedures as defined by the American Society for Testing and Materials (ASTM) or are pushed to the desired depth using the head of the drill rig. The standard penetration test involves driving a 2" outside diameter by 1-3/8" inside diameter split-spoon sampler a minimum distance of one foot with a 340-lb. slide hammer falling a distance of 30 inches.

A Geoprobe® rig is a hydraulically-powered soil probing machine. The probe utilizes static force and percussion to advance a small diameter sampling device into the subsurface. The sampling apparatus provides relatively undisturbed 5-foot cores of soil samples. Soil samples are collected

continuously. The Macro-Core® tube contains an inserted poly-vinyl chloride (PVC) liner which retains the soil sample as the tube is driven into the ground. The Macro-Core® tube is decontaminated between each 5-foot sample interval in a soil boring using a Liquinox and tap-water mixture. A new PVC liner is used to collect soil from each sample interval in a soil boring.

Soil samples retrieved from the hollow-stem augers or Geoprobe are then carefully described according to the Unified Soil Classification System. Soil descriptions are recorded on a soil boring log.

Soil Sampling

Soils to be analyzed by a North Carolina-certified laboratory are prepared according to the specified analytical method. Initially, soil samples are removed from the ground using either a hand auger, backhoe bucket, spilt spoon auger, or a Macro-Core® sampling tube. During the removal, care is taken to keep the disturbance of the soil structure to a minimum to reduce the loss of contaminants. Once removed, the samples are placed in the proper sample container for the specified analytical method. For samples collected for the MADEP VPH and 8260 method, a TerraCore® sampler is used to collect three 5-gram allotments of soil. All three allotments are placed in methanol-preserved 40 mL vials. Also, two 5-gram allotments of soil are placed into sodium bisulfate-preserved 40 mL vials (5-gram each vial) for the 8260 low concentration method. A 250-mL glass jar of the sampled soil is also collected to provide moisture content information. Soils sampled for MADEP EPH, EPA Methods 8270 and TPH 5030 and 3550 are placed in a 250-mL glass jar. TPH 5030 samples are preserved in methanol similar to the 8260 analysis. Field personnel wear new, disposable latex gloves during the collection of each sample.

The soil samples are labeled with the sample location, sample identification, date and time of collection, and the analytical method. The samples are placed on ice, sent to a laboratory, and analyzed before the expiration of an analytical method's prescribed holding time. Chain-of-custody documentation is maintained for each sample collected in the field.

If the soil is being sampled for volatile or semi-volatile compounds, a portion of the collected soil is placed in a sealable bag and screened for volatile organic vapors. Head screening procedures are described in the following paragraph.

Headspace Screening

Collected soil samples are routinely tested for the presence of volatile organic compounds (VOCs). After retrieval from the ground, a portion of a soil sample is placed in a sealable plastic bag. The soil samples are then set aside for approximately five minutes so that volatile constituents present in the sample can reach equilibrium concentrations with headspace gases in the bag. Once a suitable time period has passed, the probe of the sampling instrument, typically an Organic Vapor Monitor (OVM) or a Photo Ionization Detector (PID) meter, is inserted into the bag and the relative concentration of total VOCs is measured and permanently recorded in a field note book. VOC concentrations are measured using either a Thermo Electron Corp. Innova Series catalytic OVM or

an Ion Science PhoCheck PID. Both the OVM and PID instrumentation are periodically calibrated according to the manufacturer's recommended procedures.

The OVM and PID are qualitative tools employed to detect and estimate the concentration of organic or hydrocarbon vapors. A thin probe is inserted through a small break in the seal of a bagged soil sample. For the OVM, an air sample from the headspace of the bag is drawn through the probe into an internal chamber where the vapors are catalyzed. The concentration of the VOCs is registered on a digital scale in parts per million (ppm). For the PID, an air sample from the headspace of the bag is drawn across the face of a lamp causing the sample to emit photons, the presence of which are converted into a VOC ppm reading that is displayed. Oxygen levels are field calibrated prior to each use. VOC calibration occurs periodically depending upon use by using a span gas of known concentration in a process recommended by the manufacturer.

Well Installation/Construction

Monitoring wells are installed using hand-operated sampling tools, a truck-mounted drill rig, or a Geoprobe drilling rig depending on the depth of well and other site-specific conditions. All monitoring wells are installed according to the requirements of 15A NCAC 2C-Well Construction Standards. Specifically, individual monitoring wells are constructed of 2-inch diameter, schedule 40 PVC casing riser and screen. The screen interval is generally 10 to 15 feet of machine slotted PVC with a slot size of 0.010". Only flush threaded joints are used. The annulus space around the screen is filled with washed filter pack No. 2 sand. The filter pack extends one to two feet above the top of the screen. A one to two foot-thick bentonite pellet seal is then placed above the filter pack. The remainder of the well annulus is completely filled with a Portland (Type I/II) cement grout mixture. A protective outer steel manhole, locking cap, and concrete pad is installed for each well.

Type II Monitoring Well Construction

Single-cased monitoring wells are generally used in delineation of groundwater quality within the surficial aquifer. The wells are constructed of 2-inch diameter, schedule 40 PVC casing and screen. The screen interval is generally 10 to 15 feet of machine slotted PVC with a slot size of 0.010". Only flush threaded joints are used. The annulus space around the screen is filled with washed filter pack No. 2 sand. The filter pack extends one to two feet above the top of the screen. A one foot-thick bentonite pellet seal is then placed above the filter pack. The remainder of the well annulus is completely filled with a Portland (Type I/II) cement grout mixture. A protective outer steel manhole, locking cap, and concrete pad are installed for each well.

Type III Monitoring Well Construction

Double-cased monitoring wells are used in the delineation of groundwater quality within a deeper portion of the surficial aquifer or an additional aquifer (e.g. aquitard, bedrock). A four to six-inch outer casing is installed through the surficial aquifer until a sufficient depth or until the deeper aquifer is encountered. The casing is secured with a Portland-grout collar that is tremmied into

the annular spaced from the bottom of the bore hole to the surface. Once the grout has sufficiently cured, the bore hole is continued through the bottom of the outer casing to a depth approximately 15 - 20 feet beneath the outer casing. The inner casing is constructed of 2-inch diameter, schedule 40 PVC casing riser and screen. The screen interval is generally 5 to 10 feet of machine slotted PVC with a slot size of 0.010". Only flush threaded joints are used. The annulus space around the screen is filled with washed filter pack No. 2 sand. The filter pack extends one to two feet above the top of the screen. A one to two foot-thick bentonite pellet seal is then placed above the filter pack. The remainder of the well annulus is completely filled with the same Portland grout mixture used in the outer casing. A protective outer steel manhole, locking cap, and concrete pad are installed for each well.

Well Development

Following installation of each well, surging and pumping or bailing techniques will be used to remove fines from the screened interval. Groundwater is removed from each well until clear water is retrieved or a noticeable reduction in the amount of silt is achieved. Purged groundwater is disposed of in an environmentally safe manner.

Other Methods of Groundwater Sampling

Geoprobe Screen Point 15/16 Groundwater Samplers

The Screen Point 15/16 Groundwater Samplers are used to collect groundwater samples from unconsolidated materials at depths ranging from near ground surface to over 100 feet below grade. The depth that can be reached with the SP15/16 samplers is a function of the equipment and methods being used to advance the sampler (manual, static vehicle weight, or percussion probing), the formation being penetrated, and operator experience.

These protected screen samplers have only five parts, including the grout plug, plus a few O-rings. Using either of these tools with O-rings on the rod fittings enables you to collect representative groundwater samples from a discrete interval using a bailer, bladder pump, or tubing and stainless steel check valve. The length of the stainless steel screen exposed to the formation can be set from just a few inches to as much as 41-inches to let you select the sampling zone. The stainless steel screen is a v-wire screen and has a 1.0 in. OD. The screen bore is 0.65 in. The stainless steel screen is wire-wound with a 0.004-in slot width.

Groundwater Sampling

Petroleum Sites

Groundwater samples are collected from temporary or permanent monitoring wells according to established sampling protocol. When multiple monitoring wells or sampling points are sampled, sampling is completed beginning with the least contaminated well to the most contaminated well,

if it is known. When permanent monitoring wells for petroleum sites are sampled, the well is purged of a minimum of three well-bore volumes prior to sample collection in order to assure that sampled water is representative of aquifer conditions. In temporary wells, the first water which migrates into the open borehole is sampled. Samples from both temporary and permanent monitoring wells are collected using individually wrapped disposable polyethylene bailers by field personnel wearing disposable nitrile gloves. Only one well is sampled with a given bailer in order to prevent sample cross-contamination. During both well purging and sampling, proper protective clothing and equipment is used and is dependent upon the type and level of contaminants present. Also, field personnel change gloves between different samples to reduce the chance of cross-contamination. Water samples are transferred from the bailer to laboratory-prepared sampling containers using slow emptying devices to reduce the chance of contamination loss through volatilization. Preservatives, such as acids, are added to samples directly after they are collected if in-field preservation is necessary. The samples are labeled with the project name, project number, sample identification, required analysis, and date and time of collection. The samples are placed on ice, sent to a certified laboratory, and analyzed before the expiration of an analytical method's prescribed holding time. Chain-of-custody documentation is maintained for each sample collected in the field.

Non-Petroleum Groundwater Sampling Protocols

When required by state or federal regulations, low-flow groundwater sampling procedures are instituted. Groundwater samples collected in low-flow situations are collected using a peristaltic pump. A peristaltic pump is a type of positive displacement pump. The fluid is contained within a flexible tube fitted inside a circular pump casing. A rotor with a number of rollers attached to the external circumference compresses the flexible tube. As the rotor turns, the part of tube under compression closes thus forcing the fluid to be pumped to move through the tube. Groundwater parameters such as water level drawdown, pH, conductivity, dissolved oxygen (DO) and turbidity. Pumping rate, drawdown, and the time or volume required to obtain stabilization of parameter readings can be used as a future guide to purge the well. Measurements are collected at a pre-pumping established interval (typically five to ten minutes). Once all or a majority of the parameters have stabilized for three successive readings, stabilization has been achieved. In lieu of measuring all five parameters, a minimum subset would include pH, conductivity, and turbidity or DO. Three successive readings should be within ± 0.1 for pH, ± 3% for conductivity, and ± 10% for turbidity and DO.

Upon parameter stabilization, sampling is initiated. Sampling flow rate is maintained at the established purge rate or is adjusted slightly to minimize aeration, bubble formation, turbulent filling of sample bottles, or loss of volatiles due to extended residence time in tubing. The same device used for purging is used to collect the groundwater sample. Generally, volatile parameters are sampled first. The sequence in which samples for inorganic parameters are collected is not determined unless filtered (dissolved) samples are collected. Preservatives, such as acids, are added to samples directly after they are collected if in-field preservation is necessary. The samples are labeled with the project name, project number, sample identification, required analysis, and date and time of collection. The samples are placed on ice, sent to a certified laboratory, and analyzed before the

expiration of an analytical method's prescribed holding time. Chain-of-custody documentation is maintained for each sample collected in the field.

During both well purging and sampling, proper protective clothing and equipment is used and is dependent upon the type and level of contaminants present. Also, field personnel change gloves between different monitoring wells or sampling points to reduce the chance of cross-contamination. When multiple monitoring wells or sampling points are sampled, sampling is completed beginning with the least contaminated well to the most contaminated well, if it is known.

Stockpile Sampling

The number of composite samples collected from a stockpile or a total quantity of excavated soil is based upon the cubic yardage. One composite sample is collected for every 100 cubic yards of contaminated soil excavated. The volume of a stockpile or total quantity of excavated soil is calculated by approximating the general geometry of a stockpile or estimating the capacity of the dump trucks used for hauling. If a stockpile is sampled, a grid pattern is laid out on the stockpile, dividing the stockpile into segments of approximately 200 cubic yards. Two soil borings are advanced within a grid and three soil samples are collected from each soil boring at various depths. The six soil samples are mixed into a composite sample by a trained TerraQuest technician. If truck loads are sampled, an aliquot sample is collected from the hauling trucks at a frequency based upon the capacity of the hauling trucks.

Aliquots are gently mixed into a composite sample by a trained TerraQuest technician. Every effort is made to minimize the loss of contaminants through volatilization. The composited soil samples are jarred in the appropriate laboratory-prepared containers, labeled with the sample location, sample identification, date of collection, time of collection, the analytical method, and the preservative. The samples are placed on ice, sent to a laboratory, and analyzed before the expiration of an analytical method's prescribed holding time. Chain-of-custody documentation is maintained for each sample collected in the field.

Surface Water Sampling

Surface water samples, specifically samples from creeks or streams, are collected from a moving/flowing portion of the creek or stream to ensure that stagnant water is not collected. Field personnel are careful to collect samples from flowing areas that are not so turbulent as to cause a loss of volatile contaminants which might have been contained in the creek's/stream's water. Samples are collected by field personnel wearing disposable latex gloves. Field personnel change gloves between different locations to reduce the chance of cross-contamination. Samples are collected directly from the appropriate creek or stream location and placed into the appropriate laboratory-prepared containers. Preservatives, such as acids, are added to samples directly after they are collected if preservation is necessary. The samples are labeled with the project name, project number, sample identification, required analysis, and date and time of collection. The samples are cooled on ice to approximately four degrees centigrade, sent to a certified laboratory,

and analyzed before the expiration of an analytical method's prescribed holding time. Chain-of-custody documentation is maintained for each sample collected in the field.

Water Supply Well Sampling

Groundwater samples from water supply wells are collected from sampling points, typically spigots, located in the closest proximity to the water supply well pump house as possible. Prior to sample collection, the water is run for a sufficient amount of time to purge the bladder tank and assure that sampled water is representative of aquifer conditions. Once purged, the flow rate is reduced and samples are placed in the appropriate laboratory prepared containers and the appropriate acid preservatives are added if preservation of the sample is necessary. The samples are labeled with the project name, project number, sample identification, required analysis, and date and time of collection. The samples are placed on ice, sent to a laboratory, and analyzed before the expiration of an analytical method's prescribed holding time. Chain-of-custody documentation is maintained for each sample collected in the field.

Public Water Supply Line Sampling

Groundwater samples from public water supply lines are collected from sampling points, typically spigots. To sample the spigot, the flow rate is reduced and samples are placed in the appropriate laboratory prepared containers. The samples are labeled with the sample location, sample identification, date of collection, time of collection, and required analytical method. The samples are placed on ice, sent to a laboratory, and analyzed before the expiration of an analytical method's prescribed holding time. Chain-of-custody documentation is maintained for each sample collected in the field.

Air Sampling

Air samples are collected with the aide of a manually operated MityVac® pump manufactured by Pristech, Inc. The air sampling process begins by connecting a length of rubber hose from the MityVac® pump to the port to be sampled, or by hanging the hose inside of an emissions stack in such a manner as to ensure no outside air causes dilution. Another length of hose is fixed to the outlet port of the pump and is connected to a new Tedlar bag. Once the pump is hooked up, a valve on the Tedlar collection bag is opened and air is manually forced into the bag by the pumping action of sampling personnel.

Field Measurements

Field measurements taken to determine the pH, conductivity, temperature, and dissolved oxygen concentration of a particular groundwater sample are taken directly after a particular monitoring well has been adequately purged. This ensures that the groundwater parameter data collected is representative of the aquifer conditions at a given location. Once purging of the monitoring well is complete, the decontaminated probe head and cord of the appropriate unit is lowered into the required monitoring well. If the depth to water in a specific monitoring well is greater than the

length of cord for a particular unit, a new, disposable bailer is slowly lowered into the appropriate monitoring well and a representative groundwater sample is retrieved. A slow pouring device is fitted onto the end of the disposable bailer and the sample is slowly poured into a new, disposable plastic cup. Groundwater parameter data are then collected from the groundwater in the cup using the required unit.

For pH, conductivity, and temperature, a Hanna Instruments Model 991300 portable meter is utilized. This unit is periodically calibrated and maintained in accordance with the unit's operations manual by field personnel. Prior to data collection, the unit is properly decontaminated to prevent cross-contamination. The unit is decontaminated between each sample. The procedure used for sample measurement involves lowering the meter's probe into the new, disposable cup containing the groundwater sample to be measured and slowly stirring the probe to force groundwater across the probe's membrane. The measurements displayed by the meter are then recorded.

For dissolved oxygen concentration measurements, a YSI® Model 55 Handheld Dissolved Oxygen System is utilized. This unit is periodically calibrated and maintained in accordance with the unit's operations manual by field personnel. Prior to data collection, the unit is properly decontaminated to prevent cross-contamination. The unit is decontaminated between each sample. The procedure used for sample measurement involves adjusting the unit for the correct altitude where the sampling will take place and adjusting the reported units desired. Once this is done, the unit's probe is inserted into the groundwater sample to be measured and the probe is slowly stirred to force the groundwater across the probe's membrane. The measurements displayed by the unit are then recorded.

For turbidity measurements, a Hach 2100P Portable Turbidity meter or equal equivalent is utilized. The unit is calibrated prior to use in accordance with the unit's operations manual by field personnel. Groundwater samples are collected in glass containers for measurement by the instrument. The glass containers are washed with bottled-water between each measurement collection. Once the sample is collected and inserted into the instrument, the measurements displayed by the instrument are then recorded.

APPENDIX B

COMPLETE ANALYTICAL HISTORY - MW1
PAUL'S CASH GROCERY AND SERVICE
NCDWM-UST INCIDENT NO. 23589
TERRAQUEST PROJECT NO. 03403

Date	Analysis	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	n-Butylbenzene	Isopropylbenzene	p-Isopropyltoluene	sec-Butylbenzene	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Butanone (MEK)	4-Methyl-2-Pentanone (MIBK)	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
11/6/01	602	7,700	16,000	1,700	10,100	25,000	ND	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	22,000	ND	ND	NR
2/1/02	602	12,000	28,000	2,300	13,500	37,000	ND	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	33,000	ND	ND	NR
6/7/02	602	9,500	18,000	1,800	11,800	23,000	ND	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	18,000	ND	ND	NR
8/30/02	602	11,000	24,000	2,200	12,700	30,000	ND	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1/9/03	602	8,000	22,000	1,700	10,300	27,000	ND	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	9.8
4/24/03	602	2,300	5,400	1,200	8,500	3,300	ND	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	9,600	12,000	2,500	ND
7/18/03	602	1,700	2,700	850	5,900	2,100	19	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	<5
1/31/04	6210D	2,400	7,800	1,300	8,300	7,700	<50	360	60	90	<50	<50	190	1,800	500	<2,500	<2,500	-	-	-	-
10/18/06	6210D	1,700	1,500	850	4,500	2,100	<1.0	200	<1.0	77.0	4.4	<1.0	120	990	350	13	16	-	-	-	-
2/10/09	6200B	1,100	820	1,500	5,010	1,800	<20	410	<20	130	55	20	320	2,000	660	<200	<200	-	-	-	-
6/24/13	6200B	24	49	190	334	33	<1	90	2.6	19	1.6	2.8	34	190	48	<10	<10	-	-	-	-
	2L Standards	1	600	600	500	20	70	6	70	70	25	70	70	400	400	4,000	NE	400	700	200	15

Notes:
1. All results in ug/l = ppb.
2. Bold denotes a detected concentration; Shading denotes a concentration in excess of the 2L Standards.
3. Only detected and select analytes listed. Refer to analytical reports for the complete list of analytes.
4. ND = No detection (Mid-Atlantic), NR = Analysis not requested/reported (Mid-Atlantic), - = Analysis not requested, NE = not established.
5. 602 and 6210D analysis includes MTBE, Carbon fractions analyzed by MADEP VPH.
6. EDB analysis reported for method 504.1 only.

COMPLETE ANALYTICAL HISTORY - MW2
PAUL'S CASH GROCERY AND SERVICE
NCDWM-UST INCIDENT NO. 23589
TERRAQUEST PROJECT NO. 03403

Date	Analysis	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Isopropylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	C5-C8 Alphatics	C9-C12 Alphatics	C9-C10 Aromatics	Lead
2/1/02	602	**400**	ND	ND	**140**	**1,800**	ND	NR	NR	NR	NR	**1,700**	ND	ND	NR
6/7/02	602	**180**	ND	ND	**83**	**1,100**	ND	NR	NR	NR	NR	**800**	ND	ND	NR
8/30/02	602	**230**	ND	ND	**136**	**1,000**	ND	NR	NR	NR	NR	ND	ND	ND	NR
1/9/03	602	**55**	ND	ND	ND	**1,100**	ND	NR	NR	NR	NR	NR	NR	NR	ND
4/24/03	602	**54**	ND	ND	**26**	**360**	ND	NR	NR	NR	NR	**400**	**510**	**120**	ND
7/30/03	602	**1**	<5	<5	<20	**370**	<5	NR	NR	NR	NR	NR	NR	NR	<5
1/31/04	6210D	**35**	<5	<1	**33.3**	**560**	<1	<5	**1.6**	**22**	**4.9**	-	-	-	-
10/18/06	6210D	**38.0**	<5.0	<1.0	**64.0**	**190**	<1.0	**8.1**	**4.6**	**50.0**	**11.0**	-	-	-	-
2/10/09	6200B	**6.9**	<5	<1	**3.2**	**180**	<1	<5	**2**	<1	<1	-	-	-	-
6/24/13	6200B	<1	<5	<1	<3	**64**	<1	**6.7**	<1	**1.1**	<1	-	-	-	-
	2L Standards	1	600	600	500	20	70	6	70	400	400	400	700	200	15

Notes:
1. All results in ug/l = ppb.
2. Bold denotes a detected concentration; Shading denotes a concentration in excess of the 2L Standards.
3. Only detected and select analytes listed. Refer to analytical reports for the complete list of analytes.
4. ND = No detection (Mid-Atlantic), NR = Analysis not requested/reported (Mid-Atlantic), - = Analysis not requested.
5. 602 and 6210D analysis includes MTBE, Carbon fractions analyzed by MADEP VPH.
6. EDB analysis reported for method 504.1 only.

COMPLETE ANALYTICAL HISTORY - MW2D
PAUL'S CASH GROCERY AND SERVICE
NCDWM-UST INCIDENT NO. 23589
TERRAQUEST PROJECT NO. 03403

Date	Analysis	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	Isopropylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	C5-C8 Alphatics	C9-C12 Alphatics	C9-C10 Aromatics	Lead
2/1/02	602	**140**	ND	ND	**75**	**750**	ND	NR	NR	NR	NR	**570**	ND	ND	NR
6/7/02	602	**160**	ND	ND	**89**	**870**	ND	NR	NR	NR	NR	**610**	ND	ND	NR
8/30/02	602	**39**	ND	ND	**16**	**160**	ND	NR	NR	NR	NR	NR	NR	NR	NR
1/9/03	602	**260**	ND	ND	**133**	**680**	ND	NR	NR	NR	NR	NR	NR	NR	ND
4/24/03	602	**140**	ND	ND	**87**	**360**	ND	NR	NR	NR	NR	NR	NR	NR	ND
7/31/03	602	**36**	<5	<5	**11**	**220**	<5	NR	NR	NR	NR	NR	NR	NR	<5
1/31/04	6210D	**32**	<5	**13**	**31**	**200**	<1	**6.4**	**1.4**	**19**	**3.8**	-	-	-	-
10/18/06	6210D	**51.0**	<5.0	<1.0	**73.0**	**260**	<1.0	**20.0**	**7.3**	**58.0**	**1.5**	-	-	-	-
2/10/09	6200B	**58**	<25	<5	**43**	**290**	<5	<25	**11**	**17**	<5	-	-	-	-
6/24/13	6200B	**6.7**	<5	<1	**3.1**	**99**	<1	**5.6**	**1.4**	<1	<1	-	-	-	-
	2L Standards	1	600	600	500	20	70	6	70	400	400	400	700	200	15

Notes:
1. All results in ug/l = ppb.
2. Bold denotes a detected concentration; Shading denotes a concentration in excess of the 2L Standards.
3. Only detected and select analytes listed. Refer to analytical reports for the complete list of analytes.
4. ND = No detection (Mid-Atlantic), NR = Analysis not requested/reported (Mid-Atlantic), - = Analysis not requested.
5. 602 and 6210D analysis includes MTBE, Carbon fractions analyzed by MADEP VPH.
6. EDB analysis reported for method 504.1 only.

COMPLETE ANALYTICAL HISTORY - MW4
PAUL'S CASH GROCERY AND SERVICE
NCDWM-UST INCIDENT NO. 23589
TERRAQUEST PROJECT NO. 03403

Date	Analysis	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	EDB	n-Butylbenzene	Isopropylbenzene	p-isopropyltoluene	sec-Butylbenzene	tert-Butylbenzene	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
2/1/02	602	ND	ND	**3**	**13**	ND	ND	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	ND	ND	ND	NR
6/7/02	602	ND	ND	**2**	**11**	ND	ND	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	<100	ND	ND	NR
8/30/02	602	ND	ND	**2**	**10**	ND	ND	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1/9/03	602	ND	ND	**5**	**25**	ND	ND	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	ND
4/24/03	602	ND	**1.1**	**6.1**	**35**	ND	ND	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	ND
7/30/03	602	<1	<1	**4.7**	**22.6**	<2	<1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	<5
1/31/04	6210D	<1	<5	**2.2**	**12.2**	<1	<1	<5	-	<1	**3.8**	**6.2**	**5.1**	**1.2**	**4.3**	**28**	**29**	-	-	-	-
10/18/06	6210D	<1.0	<5.0	**1.2**	**5.7**	<1.0	<1.0	<5.0	-	<1.0	**2.9**	**1.2**	**4.5**	<1.0	**4.5**	**21.0**	**17.0**	-	-	-	-
2/10/09	oil/water interface	FREE PRODUCT 0.88'																			
3/2/10	oil/water interface	FREE PRODUCT 0.42'																			
6/24/13	oil/water interface	FREE PRODUCT 0.91'																			
	2L Standards	1	600	600	500	20	70	6	0.02	70	70	200	70	70	70	400	400	400	700	200	15

Notes:
1. All results in ug/l = ppb.
2. Bold denotes a detected concentration; Shading denotes a concentration in excess of the 2L Standards.
3. Only detected and select analytes listed. Refer to analytical reports for the complete list of analytes.
4. ND = No detection (Mid-Atlantic), NR = Analysis not requested/reported (Mid-Atlantic), - = Analysis not requested.
5. 602 and 6210D analysis includes MTBE, Carbon fractions analyzed by MADEP VPH.
6. EDB analysis reported for method 504.1 only.

COMPLETE ANALYTICAL HISTORY - MW5
PAUL'S CASH GROCERY AND SERVICE
NCDWM-UST INCIDENT NO. 23589
TERRAQUEST PROJECT NO. 03403

Date	Analysis	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	C5-C8 Alphatics	C9-C12 Alphatics	C9-C10 Aromatics	Lead
6/7/02	602	ND	ND	ND	ND	**4**	ND	NR	NR	ND	ND	ND	NR
8/30/02	602	ND	ND	ND	ND	ND	ND	NR	NR	NR	NR	NR	NR
1/9/03	602	ND	ND	ND	ND	ND	ND	NR	NR	NR	NR	NR	**8.8**
4/23/03	602	ND	**1.3**	ND	ND	ND	ND	NR	NR	NR	NR	NR	**6.45**
7/30/03	602	<1	<1	<1	<4	<2	<1	NR	NR	NR	NR	NR	<5
1/31/04	6210D	<1	<5	<1	**<3**	**4.5**	<1	**<1**	<1	-	-	-	-
10/18/06	6210D	**<1.0**	<5.0	<1.0	<3.0	**1.8**	<1.0	<1.0	<1.0	-	-	-	-
2/10/09	6200B	<1	<5	<1	<3	<1	<1	<1	<1	-	-	-	-
6/24/13	6200B	<1	<5	<1	<3	<1	<1	<1	<1	-	-	-	-
	2L Standards	1	600	600	500	20	70	400	400	400	700	200	15

Notes:
1. All results in ug/l = ppb.
2. Bold denotes a detected concentration; Shading denotes a concentration in excess of the 2L Standards.
3. Only detected and select analytes listed. Refer to analytical reports for the complete list of analytes.
4. ND = No detection (Mid-Atlantic), NR = Analysis not requested/reported (Mid-Atlantic), - = Analysis not requested.
5. 602 and 6210D analysis includes MTBE, Carbon fractions analyzed by MADEP VPH.
6. EDB analysis reported for method 504.1 only.

COMPLETE ANALYTICAL HISTORY - MW6
PAUL'S CASH GROCERY AND SERVICE
NCDWM-UST INCIDENT NO. 23589
TERRAQUEST PROJECT NO. 03403

Date	Analysis	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	C5-C8 Alphatics	C9-C12 Alphatics	C9-C10 Aromatics	Lead
6/7/02	602	**270**	ND	ND	**90**	**1,700**	ND	NR	NR	**1,300**	ND	ND	NR
8/30/02	602	**82**	ND	ND	ND	**900**	ND	NR	NR	NR	NR	NR	NR
1/9/03	602	**59**	ND	ND	ND	**580**	ND	NR	NR	NR	NR	NR	ND
4/23/03	602	**130**	ND	ND	**50**	**620**	ND	NR	NR	**420**	**190**	<100	**13.6**
7/31/03	602	**9.6**	<5	<5	<20	**240**	<5	NR	NR	NR	NR	NR	**12**
1/31/04	6210D	**14**	<5	**4.5**	**9**	**79**	<1	**5.5**	**1.5**	-	-	-	-
10/18/06	6210D	**6.5**	<5.0	<1.0	**1.7**	**150**	<1.0	<1.0	<1.0	-	-	-	-
2/10/09	6200B	**<1**	<5	<1	<3	**73**	**<1**	<1	<1	-	-	-	-
6/24/13	6200B	<1	<5	<1	<3	**21**	<1	<1	<1	-	-	-	-
	2L Standards	1	600	600	500	20	70	400	400	400	700	200	15

Notes:
1. All results in ug/l = ppb.
2. Bold denotes a detected concentration; Shading denotes a concentration in excess of the 2L Standards.
3. Only detected and select analytes listed. Refer to analytical reports for the complete list of analytes.
4. ND = No detection (Mid-Atlantic), NR = Analysis not requested/reported (Mid-Atlantic), - = Analysis not requested.
5. 602 and 6210D analysis includes MTBE, Carbon fractions analyzed by MADEP VPH.
6. EDB analysis reported for method 504.1 only.

COMPLETE ANALYTICAL HISTORY - MW6D

PAUL'S CASH GROCERY AND SERVICE

NCDWM-UST INCIDENT NO. 23589

TERRAQUEST PROJECT NO. 03403

Date	Analysis	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	C5-C8 Alphatics	C9-C12 Alphatics	C9-C10 Aromatics	Lead
6/7/02	602	**80**	ND	ND	20	**860**	ND	NR	NR	**520**	ND	ND	NR
8/30/02	602	ND	ND	ND	ND	**350**	ND	NR	NR	NR	NR	NR	NR
1/9/03	602	**41**	ND	ND	ND	**650**	ND	NR	NR	NR	NR	NR	ND
4/23/03	602	ND	ND	ND	ND	**640**	ND	NR	NR	**400**	ND	<100	ND
7/31/03	602	<1	<1	<1	<4	**71**	<1	NR	NR	NR	NR	NR	<5
1/31/04	6210D	<1	<5	<1	<3	**67**	<1	<1	<1	-	-	-	-
10/18/06	6210D	<1.0	<5.0	<1.0	<3.0	**8.2**	<1.0	<1.0	<1.0	-	-	-	-
2/10/09	6200B	<1	<5	<1	<3	**5.3**	<1	<1	<1	-	-	-	-
6/24/13	6200B	<1	<5	<1	<3	**7.3**	<1	<1	<1	-	-	-	-
	2L Standards	1	600	600	500	20	70	400	400	400	700	200	15

Notes:

1. All results in ug/l = ppb.
2. Bold denotes a detected concentration; Shading denotes a concentration in excess of the 2L Standards.
3. Only detected and select analytes listed. Refer to analytical reports for the complete list of analytes.
4. ND = No detection (Mid-Atlantic), NR = Analysis not requested/reported (Mid-Atlantic), - = Analysis not requested.
5. 602 and 6210D analysis includes MTBE, Carbon fractions analyzed by MADEP VPH.
6. EDB analysis reported for method 504.1 only.

COMPLETE ANALYTICAL HISTORY - MW7
PAUL'S CASH GROCERY AND SERVICE
NCDWM-UST INCIDENT NO. 23589
TERRAQUEST PROJECT NO. 03403

Date	Analysis	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Tetrachloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	C5-C8 Alphatics	C9-C12 Alphatics	C9-C10 Aromatics	Lead
6/7/02	602	**81**	ND	ND	**21**	**740**	ND	-	NR	NR	**480**	ND	ND	NR
8/30/02	602	**62**	ND	ND	ND	**600**	ND	-	NR	NR	NR	NR	NR	NR
1/9/03	602	**20**	ND	ND	ND	**250**	ND	-	NR	NR	NR	NR	NR	ND
4/24/03	602	ND	ND	ND	ND	**42**	ND	-	NR	NR	NR	NR	NR	ND
7/30/03	602	NR	NR	NR	NR	NR	NR	-	NR	NR	NR	NR	NR	NR
1/31/04	6210D	<1	<5	<1	<3	**170**	<1	-	<1	<1	-	-	-	-
10/18/06	6210D	**24.0**	<5.0	<1.0	**32.0**	**180**	<1.0	-	**9.6**	<1.0	-	-	-	-
2/10/09	6200B	<1	<5	<1	<3	**4.1**	<1	-	<1	<1	-	-	-	-
6/24/13	6200B	<1	<5	<1	<3	**1.2**	<1	**2**	<1	<1	-	-	-	-
	2L Standards	1	600	600	500	20	70	0.7	400	400	400	700	200	15

Notes:
1. All results in ug/l = ppb.
2. Bold denotes a detected concentration; Shading denotes a concentration in excess of the 2L Standards.
3. Only detected and select analytes listed. Refer to analytical reports for the complete list of analytes.
4. ND = No detection (Mid-Atlantic), NR = Analysis not requested/reported (Mid-Atlantic), - = Analysis not requested.
5. 602 and 6210D analysis includes MTBE, Carbon fractions analyzed by MADEP VPH.
6. EDB analysis reported for method 504.1 only.

COMPLETE ANALYTICAL HISTORY - MW8
PAUL'S CASH GROCERY AND SERVICE
NCDWM-UST INCIDENT NO. 23589
TERRAQUEST PROJECT NO. 03403

Date	Analysis	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Tetrachloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	C5-C8 Alphatics	C9-C12 Alphatics	C9-C10 Aromatics	Lead
6/7/02	602	ND	ND	ND	ND	ND	ND	-	NR	NR	ND	ND	ND	NR
8/30/02	602	ND	ND	ND	ND	ND	ND	-	NR	NR	NR	NR	NR	NR
1/9/03	602	ND	ND	ND	ND	ND	ND	-	NR	NR	NR	NR	NR	ND
4/24/03	602	ND	ND	ND	ND	ND	ND	-	NR	NR	NR	NR	NR	**19.5**
7/31/03	602	<1	<1	<1	<4	<2	<1	-	NR	NR	NR	NR	NR	**5.5**
1/31/04	6210D	<1	<5	<1	<3	**9.6**	<1	-	<1	<1	-	-	-	-
10/18/06	6210D	<1.0	<5.0	<1.0	<3.0	**13.0**	<1.0	-	<1.0	<1.0	-	-	-	-
2/10/09	6200B	<1	**1.1**	<1	<3	**7.1**	<1	-	<1	<1	-	-	-	-
6/24/13	6200b	<1	<5	<1	<3	**1.8**	<1	**25**	<1	<1	-	-	-	-
	2L Standards	1	600	600	500	20	70	0.7	400	400	400	700	200	15

Notes:
1. All results in ug/l = ppb.
2. Bold denotes a detected concentration; Shading denotes a concentration in excess of the 2L Standards.
3. Only detected and select analytes listed. Refer to analytical reports for the complete list of analytes.
4. ND = No detection (Mid-Atlantic), NR = Analysis not requested/reported (Mid-Atlantic), - = Analysis not requested.
5. 602 and 6210D analysis includes MTBE, Carbon fractions analyzed by MADEP VPH.
6. EDB analysis reported for method 504.1 only.

COMPLETE ANALYTICAL HISTORY - MW10

PAUL'S CASH GROCERY AND SERVICE

NCDWM-UST INCIDENT NO. 23589

TERRAQUEST PROJECT NO. 03403

Date	Analysis	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	C5-C8 Alphatics	C9-C12 Alphatics	C9-C10 Aromatics	Lead
6/7/02	602	ND	ND	ND	ND	**1,000**	ND	NR	NR	570	ND	ND	NR
8/30/02	602	ND	ND	ND	ND	**680**	ND	NR	NR	NR	NR	NR	NR
1/9/03	602	ND	ND	ND	ND	**1,000**	ND	NR	NR	NR	NR	NR	ND
4/24/03	602	ND	ND	ND	ND	**830**	ND	NR	NR	NR	NR	NR	ND
7/31/03	602	<1	<1	<1	<4	**69**	<1	NR	NR	NR	NR	NR	<5
1/31/04	6210D	<1	<5	<1	<3	**310**	<1	<1	<1	-	-	-	-
10/18/06	6210D	<1.0	<5.0	<1.0	<3.0	**250**	<1.0	<1.0	<1.0	-	-	-	-
2/10/09	6200B	<1	<5	<1	<3	**51**	<1	<1	<1	-	-	-	-
6/24/13	6200B	<1	<5	<1	<3	**5.6**	<1	<1	<1	-	-	-	-
	2L Standards	1	600	600	500	20	70	400	400	400	700	200	15

Notes:

1. All results in ug/l = ppb.
2. Bold denotes a detected concentration; Shading denotes a concentration in excess of the 2L Standards.
3. Only detected and select analytes listed. Refer to analytical reports for the complete list of analytes.
4. ND = No detection (Mid-Atlantic), NR = Analysis not requested/reported (Mid-Atlantic), - = Analysis not requested.
5. 602 and 6210D analysis includes MTBE, Carbon fractions analyzed by MADEP VPH.
6. EDB analysis reported for method 504.1 only.

COMPLETE ANALYTICAL HISTORY - MW11
PAUL'S CASH GROCERY AND SERVICE
NCDWM-UST INCIDENT NO. 23589
TERRAQUEST PROJECT NO. 03403

Date	Analysis	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	C5-C8 Alphatics	C9-C12 Alphatics	C9-C10 Aromatics	Lead
6/7/02	602	ND	ND	ND	ND	ND	ND	NR	NR	ND	ND	ND	NR
8/30/02	602	ND	ND	ND	ND	ND	ND	NR	NR	NR	NR	NR	NR
1/9/03	602	ND	ND	ND	ND	ND	ND	NR	NR	NR	NR	NR	**6.55**
4/24/03	602	ND	ND	ND	ND	ND	ND	NR	NR	NR	NR	NR	ND
7/30/03	602	<1	<1	<1	<4	<2	<1	NR	NR	NR	NR	NR	<5
1/31/04	6210D	<1	<5	<1	<3	<1	<1	<1	<1	-	-	-	-
10/18/06	6210D	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	-	-	-	-
2/10/09	6200B	<1	<5	<1	**23.2**	<1	<1	<1	<1	-	-	-	-
6/24/13	6200B	<1	<5	<1	<1	<1	<1	<1	<1	-	-	-	-
	2L Standards	1	600	600	500	20	70	400	400	400	700	200	15

Notes:
1. All results in ug/l = ppb.
2. Bold denotes a detected concentration; Shading denotes a concentration in excess of the 2L Standards.
3. Only detected and select analytes listed. Refer to analytical reports for the complete list of analytes.
4. ND = No detection (Mid-Atlantic), NR = Analysis not requested/reported (Mid-Atlantic), - = Analysis not requested.
5. 602 and 6210D analysis includes MTBE, Carbon fractions analyzed by MADEP VPH.
6. EDB analysis reported for method 504.1 only.

COMPLETE ANALYTICAL HISTORY - MW13
PAUL'S CASH GROCERY AND SERVICE
NCDWM-UST INCIDENT NO. 23589
TERRAQUEST PROJECT NO. 03403

Date	Analysis	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Tetrachloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	C5-C8 Alphatics	C9-C12 Alphatics	C9-C10 Aromatics	Lead
8/30/02	602	ND	ND	ND	ND	**6**	ND	NR	NR	NR	ND	ND	ND	NR
1/9/03	602	ND	ND	ND	ND	**10**	ND	NR	NR	NR	NR	NR	NR	**12.6**
4/23/03	602	ND	ND	ND	ND	**4.1**	ND	NR	NR	NR	NR	NR	NR	**7.75**
7/31/03	602	<1	<1	<1	<4	**8.2**	<1	NR	NR	NR	NR	NR	NR	**12.6**
1/31/04	6210D	<1	<5	<1	<3	**12**	<1	<1	<1	<1	-	-	-	-
10/18/06	6210D	<1.0	<5.0	<1.0	<3.0	**7.6**	<1.0	<1	<1.0	<1.0	-	-	-	-
2/10/09	6200B	<1	<5	<1	<3	**2.3**	<1	**87**	<1	<1	-	-	-	-
6/24/13	6200B	<1	<5	<1	<3	**1.6**	<1	**190**	<1	<1	-	-	-	-
	2L Standards	1	600	600	500	20	70	0.7	400	400	400	700	200	15

Notes:
1. All results in ug/l = ppb.
2. Bold denotes a detected concentration; Shading denotes a concentration in excess of the 2L Standards.
3. Only detected and select analytes listed. Refer to analytical reports for the complete list of analytes.
4. ND = No detection (Mid-Atlantic), NR = Analysis not requested/reported (Mid-Atlantic), - = Analysis not requested.
5. 602 and 6210D analysis includes MTBE, Carbon fractions analyzed by MADEP VPH.
6. EDB analysis reported for method 504.1 only.

COMPLETE ANALYTICAL HISTORY - MW13D
PAUL'S CASH GROCERY AND SERVICE
NCDWM-UST INCIDENT NO. 23589
TERRAQUEST PROJECT NO. 03403

Date	Analysis	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Tetrachloroethene	C5-C8 Alphatics	C9-C12 Alphatics	C9-C10 Aromatics	Lead
8/30/02	602	ND	ND	ND	ND	**7**	ND	NR	NR	NR	NR	ND	ND	ND	NR
1/9/03	602	ND	ND	ND	ND	**9**	ND	NR	NR	NR	NR	NR	NR	NR	ND
4/23/03	602	ND	ND	ND	ND	ND	ND	NR	NR	NR	NR	NR	NR	NR	ND
7/31/03	602	<1	<1	<1	<4	**6.8**	<1	NR	NR	NR	NR	NR	NR	NR	<5
1/31/04	6210D	<1	<5	<1	<3	**10**	<1	<5	<1	<1	<1	-	-	-	-
10/18/06	6210D	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	-	-	-	-
2/10/09	6200B	<1	<5	<1	<3	<1	<1	<5	<1	<1	**1.7**	-	-	-	-
6/24/13	6200B	<1	<5	<1	<3	<1	<1	<5	<1	<1	**140**	-	-	-	-
	2L Standards	1	600	600	500	20	70	6	400	400	0.7	400	700	200	15

Notes:
1. All results in ug/l = ppb.
2. Bold denotes a detected concentration; Shading denotes a concentration in excess of the 2L Standards.
3. Only detected and select analytes listed. Refer to analytical reports for the complete list of analytes.
4. ND = No detection (Mid-Atlantic), NR = Analysis not requested/reported (Mid-Atlantic), - = Analysis not requested.
5. 602 and 6210D analysis includes MTBE, Carbon fractions analyzed by MADEP VPH.
6. EDB analysis reported for method 504.1 only.

COMPLETE ANALYTICAL HISTORY - MW14
PAUL'S CASH GROCERY AND SERVICE
NCDWM-UST INCIDENT NO. 23589
TERRAQUEST PROJECT NO. 03403

Date	Analysis	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Tetrachloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	C5-C8 Alphatics	C9-C12 Alphatics	C9-C10 Aromatics	Lead
8/30/02	602	ND	ND	ND	ND	ND	ND	-	NR	NR	ND	ND	ND	NR
1/9/03	602	ND	ND	ND	ND	ND	ND	-	NR	NR	NR	NR	NR	**7.5**
4/23/03	602	ND	ND	ND	ND	ND	ND	-	NR	NR	NR	NR	NR	ND
7/31/03	602	<1	<1	<1	<4	<2	<1	-	NR	NR	NR	NR	NR	<5
1/31/04	6210D	<1	<5	<1	<3	<1	<1	-	<1	<1	-	-	-	-
10/18/06	6210D	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	-	<1.0	<1.0	-	-	-	-
2/10/09	6200B	<1	<5	<1	<3	<1	<1	-	<1	<1	-	-	-	-
6/24/13	6200B	<1	<5	<1	<3	<1	<1	**1.9**	<1	<1	-	-	-	-
	2L Standards	1	600	600	500	20	70	0.7	400	400	400	700	200	15

Notes:
1. All results in ug/l = ppb.
2. Bold denotes a detected concentration; Shading denotes a concentration in excess of the 2L Standards.
3. Only detected and select analytes listed. Refer to analytical reports for the complete list of analytes.
4. ND = No detection (Mid-Atlantic), NR = Analysis not requested/reported (Mid-Atlantic), - = Analysis not requested.
5. 602 and 6210D analysis includes MTBE, Carbon fractions analyzed by MADEP VPH.
6. EDB analysis reported for method 504.1 only.

COMPLETE ANALYTICAL HISTORY - MW15D
PAUL'S CASH GROCERY AND 5ERVICE
NCDWM-UST INCIDENT NO. 23589
TERRAQUEST PROJECT NO. 03403

Date	Analysis	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IIPE	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	C5-C8 Alphatics	C9-C12 Alphatics	C9-C10 Aromatics	Lead
8/30/02	602	ND	ND	ND	ND	**17**	ND	NR	NR	ND	ND	ND	NR
1/9/03	602	ND	ND	ND	ND	**16**	ND	NR	NR	NR	NR	NR	ND
4/23/03	602	ND	ND	ND	ND	4	ND	NR	NR	NR	NR	NR	ND
7/31/03	602	<1	<1	<1	<4	**19**	<1	NR	NR	NR	NR	NR	<5
1/31/04	6210D	<1	<5	<1	<3	**12**	<1	<1	<1	-	-	-	-
10/18/06	6210D	<1.0	<5.0	<1.0	<3.0	**23**	<1.0	<1.0	<1.0	-	-	-	-
2/10/09	6200B	<1	<5	<1	<3	**19**	<1	<1	<1	-	-	-	-
6/24/13	6200B	<1	<5	<1	<3	**6.4**	<1	<1	<1	-	-	-	-
	2L Standards	1	600	600	500	20	70	400	400	400	700	200	15

Notes:
1. All results in ug/l = ppb.
2. Bold denotes a detected concentration; Shading denotes a concentration in excess of the 2L Standards.
3. Only detected and select analytes listed. Refer to analytical reports for the complete list of analytes.
4. ND = No detection (Mid-Atlantic), NR = Analysis not requested/reported (Mid-Atlantic), - = Analysis not requested.
5. 602 and 6210D analysis includes MTBE, Carbon fractions analyzed by MADEP VPH.
6. EDB analysis reported for method 504.1 only.

COMPLETE ANALYTICAL HISTORY - PW1
PAUL'S CASH GROCERY AND SERVICE
NCDWM-UST INCIDENT NO. 23589
TERRAQUEST PROJECT NO. 03403

Date	Analysis	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	EDB	n-Butylbenzene	Isopropylbenzene	p-Isopropyltoluene	sec-Butylbenzene	tert-Butylbenzene	1,2-Dichloropropane	n-Propylbenzene	Tetrachloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
6/11/02	6230D	ND	ND	ND	ND	ND	ND	NR	NR	NR	NR	NR	NR	NR	ND	NR	-	NR	NR	ND	ND	ND	ND
8/30/02	6230D	ND	ND	ND	ND	**0.5**	ND	NR	NR	NR	NR	NR	NR	NR	ND	NR	-	NR	NR	NR	NR	NR	ND
10/1/02	6230D	ND	ND	ND	ND	ND	ND	NR	NR	NR	NR	NR	NR	NR	ND	NR	-	NR	NR	NR	NR	NR	NR
1/7/03	6230D	ND	ND	ND	ND	**0.9**	ND	NR	NR	NR	NR	NR	NR	NR	ND	NR	-	NR	NR	NR	NR	NR	ND
4/24/03	6230D	ND	ND	ND	ND	ND	ND	NR	NR	NR	NR	NR	NR	NR	ND	NR	-	NR	NR	NR	NR	NR	ND
7/30/03	6230D	<0.5	<0.5	<0.5	<2	**0.52**	<0.5	NR	NR	NR	NR	NR	NR	NR	ND	NR	-	NR	NR	NR	NR	NR	<5
1/31/04	6210D	<1	<5	<1	<3	**7.3**	<1	5	-	<1	<1	<1	<1	<1	ND	<1	-	<1	<1	-	-	-	-
6/19/04	6210D	<1	<5	<1	<3	**2.7**	<1	<5	-	<1	<1	<1	<1	<1	ND	<1	-	<1	<1	-	-	-	-
11/9/04	6210D	<1	<5	<1	<3	**3.5**	<1	<5	-	<1	<1	<1	<1	<1	ND	<1	-	<1	<1	-	-	-	-
1/20/05	6210D	<1	<5	<1	<3	**3.6**	<1	<5	-	<1	<1	<1	<1	<1	ND	<1	-	<1	<1	-	-	-	-
6/14/05	6210D	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	ND	<1	-	<1	<1	-	-	-	-
9/15/05	6210D	<1	<5	<1	<3	**2.4**	<1	<5	-	<1	<1	<1	<1	<1	**2**	<1	-	<1	<1	-	-	-	-
9/6/06	6210D	<1	<5	<1	<3	**6.2**	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	-	-	-	-
2/10/09	6200B	<1	<5	<1	<3	**1.1**	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-
6/24/13	6200B	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	**1.4**	<1	<1	-	-	-	-
	2L Standards	1	600	600	500	20	70	6	0.02	70	70	25	70	70	0.6	70	0.7	400	400	400	700	200	15

Notes:
1. All results in ug/l = ppb.
2. Bold denotes a detected concentration; Shading denotes a concentration in excess of the 2L Standards.
3. Only detected and select analytes listed. Refer to analytical reports for the complete list of analytes.
4. ND = No detection, NR = Analysis not requested/reported (Mid-Atlantic), - = Analysis not requested.
5. 602 and 6210D analysis includes MTBE, Carbon fractions analyzed by MADEP VPH.
6. EDB analysis reported for method 504.1 only.

COMPLETE ANALYTICAL HISTORY - PW2
PAUL'S CASH GROCERY AND SERVICE
NCDWM-UST INCIDENT NO. 23589
TERRAQUEST PROJECT NO. 03403

Date	Analysis	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	EDB	n-Butylbenzene	Isopropylbenzene	p-Isopropyltoluene	sec-Butylbenzene	tert-Butylbenzene	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	C5-C8 Alphatics	C9-C12 Alphatics	C9-C10 Aromatics	Lead
6/11/02	6230D	ND	ND	ND	ND	ND	ND	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	ND	ND	ND	**5.37**
1/7/03	6230D	ND	ND	ND	ND	ND	ND	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	ND
4/24/03	6230D	ND	ND	ND	ND	ND	ND	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	**14.7**
7/30/03	6230D	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1/31/04	6210D	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-
6/19/04	6210D	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-
11/9/04	6210D	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-
1/20/05	6210D	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-
6/14/05	6210D	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-
9/15/05	6210D	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	**1**	<1	<1	<1	<1	<1	-	-	-	-
9/6/06	6210D	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-
2/10/09	6200B	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-
6/24/13	6200B	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-
	2L Standards	1	600	600	500	20	70	6	0.02	70	70	200	70	70	70	400	400	400	700	200	15

Notes:
1. All results in ug/l = ppb.
2. Bold denotes a detected concentration; Shading denotes a concentration in excess of the 2L Standards.
3. Only detected and select analytes listed. Refer to analytical reports for the complete list of analytes.
4. ND = No detection (Mid-Atlantic), NR = Analysis not requested/reported (Mid-Atlantic), - = Analysis not requested.
5. 602 and 6210D analysis includes MTBE, Carbon fractions analyzed by MADEP VPH.
6. EDB analysis reported for method 504.1 only.

COMPLETE ANALYTICAL HISTORY - PW9
PAUL'S CASH GROCERY AND SERVICE
NCDWM-UST INCIDENT NO. 23589
TERRAQUEST PROJECT NO. 03403

Date	Analysis	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	EDB	n-Butylbenzene	Isopropylbenzene	p-Isopropyltoluene	sec-Butylbenzene	tert-Butylbenzene	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	C5-C8 Alphatics	C9-C12 Alphatics	C9-C10 Aromatics	Lead
6/11/02	6230D	ND	ND	ND	ND	ND	ND	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	ND	ND	ND	ND
8/30/02	6230D	ND	ND	ND	ND	ND	ND	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	ND	ND	ND	ND
1/7/03	6230D	ND	ND	ND	ND	ND	ND	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	ND
4/23/03	6230D	ND	ND	ND	ND	ND	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	ND
7/30/03	6230D	<0.5	<0.5	<0.5	<2	<0.5	<0.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	<5
1/31/04	6210D	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-
6/19/04	6210D	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-
11/9/04	6210D	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-
1/20/05	6210D	<1	<5	<1	<3	**2.1**	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-
6/14/05	6210D	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-
9/15/05	6210D	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-
9/6/06	6210D	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-
2/10/09	6200B	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-
6/24/13	6200B	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-
2L Standards		1	600	600	500	20	70	6	0.02	70	70	200	70	70	70	400	400	400	700	200	15

Notes:
1. All results in ug/l = ppb.
2. Bold denotes a detected concentration; Shading denotes a concentration in excess of the 2L Standards.
3. Only detected and select analytes listed. Refer to analytical reports for the complete list of analytes.
4. ND = No detection (Mid-Atlantic), NR = Analysis not requested/reported (Mid-Atlantic), - = Analysis not requested.
5. 602 and 6210D analysis includes MTBE, Carbon fractions analyzed by MADEP VPH.
6. EDB analysis reported for method 504.1 only.

COMPLETE ANALYTICAL HISTORY - PW10
PAUL'S CASH GROCERY AND SERVICE
NCDWM-UST INCIDENT NO. 23589
TERRAQUEST PROJECT NO. 03403

Date	Analysis	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	iPE	Naphthalene	EDB	n-Butylbenzene	Isopropylbenzene	p-Isopropyltoluene	sec-Butylbenzene	tert-Butylbenzene	n-Propylbenzene	Tetrachloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Lead
8/30/02	6230D	ND	ND	ND	ND	**2**	ND	NR	NR	NR	NR	NR	NR	NR	NR	-	NR	NR	ND
10/1/02	6230D	ND	ND	ND	ND	**1**	ND	NR	NR	NR	NR	NR	NR	NR	NR	-	NR	NR	NR
1/7/03	6230D	ND	ND	ND	ND	**2**	NR	NR	NR	NR	NR	NR	NR	NR	NR	-	NR	NR	ND
4/24/03	6230D	ND	ND	ND	ND	**5**	NR	NR	NR	NR	NR	NR	NR	NR	NR	-	NR	NR	ND
7/30/03	6230D	<0.5	<0.5	<0.5	<2	**2**	<0.5	NR	NR	NR	NR	NR	NR	NR	NR	-	NR	NR	<5
1/31/04	6210D	<1	<5	<1	<3	**7.4**	<1	<5	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-
6/19/04	6210D	<1	<5	<1	<3	**2.7**	<1	**7.1**	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-
11/9/04	6210D	<1	<5	<1	<3	**3**	<1	<5	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-
1/20/05	6210D	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-
6/14/05	6210D	<1	<5	<1	<3	**1.1**	<1	<5	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-
9/15/05	6210D	<1	<5	<1	<3	**1.2**	<1	<5	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-
9/6/06	6210D	<1	<5	<1	<3	**5.3**	<1	<5	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-
2/10/09	6200B	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
6/24/13	6200B	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	<1	**23**	<1	<1	-
	2L Standards	1	600	600	500	20	70	6	0.02	70	70	200	70	70	70	0.7	400	400	15

Notes:
1. All results in ug/l = ppb.
2. Bold denotes a detected concentration; Shading denotes a concentration in excess of the 2L Standards.
3. Only detected and select analytes listed. Refer to analytical reports for the complete list of analytes.
4. ND = No detection (Mid-Atlantic), NR = Analysis not requested/reported (Mid-Atlantic), - = Analysis not requested.
5. 602 and 6210D analysis includes MTBE, Carbon fractions analyzed by MADEP VPH.
6. EDB analysis reported for method 504.1 only.

COMPLETE ANALYTICAL HISTORY - PW17
PAUL'S CASH GROCERY AND SERVICE
NCDWM-UST INCIDENT NO. 23589
TERRAQUEST PROJECT NO. 03403

Date	Analysis	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	IPE	Naphthalene	EDB	n-Butylbenzene	Isopropylbenzene	p-Isopropyltoluene	sec-Butylbenzene	tert-Butylbenzene	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
11/9/04	6210D	<1	<5	<1	<3	**2.7**	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1
1/20/05	6210D	<1	<5	<1	<3	**2.8**	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1
6/14/05	6210D	<1	<5	<1	<3	**4.3**	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1
9/15/05	6210D	<1	<5	<1	<3	**4.5**	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1
9/6/06	6210D	<1	<5	<1	<3	**5.2**	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1
2/10/09	6200B	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1
6/24/13	6200b	<1	<5	<1	<3	<1	<1	<5	-	<1	<1	<1	<1	<1	<1	<1	<1
	2L Standards	1	600	600	500	20	70	6	0.02	70	70	200	70	70	70	400	400

Notes:
1. All results in ug/l = ppb.
2. Bold denotes a detected concentration; Shading denotes a concentration in excess of the 2L Standards.
3. Only detected and select analytes listed. Refer to analytical reports for the complete list of analytes.
4. ND = No detection (Mid-Atlantic), NR = Analysis not requested/reported (Mid-Atlantic), - = Analysis not requested.
5. 602 and 6210D analysis includes MTBE, Carbon fractions analyzed by MADEP VPH.
6. EDB analysis reported for method 504.1 only.

APPENDIX C

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. Michael Brown
TerraQuest Environmental Consultants PC
100 East Ruffin Street
Mebane, NC 27302

Report Summary

Tuesday July 02, 2013

Report Number: L643470
Samples Received: 06/26/13
Client Project: 03403

Description: Paul's Cash Grocery

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Jimmy Hunt

Jimmy Hunt, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.
Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

ESC
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YOUR LAB OF CHOICE

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Mt. Juliet, TN 37122
(615) 758-5858
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-01

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : PW 1

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 12:34

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrolein	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrylonitrile	BDL	10.	ug/l	6200B-1997	07/01/13	1
Benzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromodichloromethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromoform	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromomethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
sec-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
tert-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Carbon tetrachloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorodibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chloroethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloroform	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloromethane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
2-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
4-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloropropene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Di-isopropyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Ethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Isopropylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
p-Isopropyltoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2-Butanone (MEK)	BDL	10.	ug/l	6200B-1997	07/01/13	1
Methylene Chloride	BDL	5.0	ug/l	6200B-1997	07/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Est. 1970

REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-01

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : PW 1

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 12:34

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methyl tert-butyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Naphthalene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Propylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Styrene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Tetrachloroethene	1.4	1.0	ug/l	6200B-1997	07/01/13	1
Toluene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichlorofluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Vinyl chloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
o-Xylene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
m&p-Xylenes	BDL	2.0	ug/l	6200B-1997	07/01/13	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	6200B-1997	07/01/13	1
Dibromofluoromethane	101.		% Rec.	6200B-1997	07/01/13	1
a,a,a-Trifluorotoluene	107.		% Rec.	6200B-1997	07/01/13	1
4-Bromofluorobenzene	95.2		% Rec.	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Sample ID : PW 2

Collected By : Andy Wrenn
Collection Date : 06/24/13 15:28

ESC Sample # : L643470-02

Site ID : RALEIGH, NC

Project # : 03403

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrolein	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrylonitrile	BDL	10.	ug/l	6200B-1997	07/01/13	1
Benzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromodichloromethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromoform	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromomethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
sec-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
tert-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Carbon tetrachloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorodibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chloroethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloroform	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloromethane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
2-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
4-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloropropene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Di-isopropyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Ethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Isopropylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
p-Isopropyltoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2-Butanone (MEK)	BDL	10.	ug/l	6200B-1997	07/01/13	1
Methylene Chloride	BDL	5.0	ug/l	6200B-1997	07/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-02

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : PW 2

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 15:28

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methyl tert-butyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Naphthalene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Propylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Styrene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Tetrachloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Toluene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichlorofluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Vinyl chloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
o-Xylene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
m&p-Xylenes	BDL	2.0	ug/l	6200B-1997	07/01/13	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	6200B-1997	07/01/13	1
Dibromofluoromethane	100.		% Rec.	6200B-1997	07/01/13	1
a,a,a-Trifluorotoluene	108.		% Rec.	6200B-1997	07/01/13	1
4-Bromofluorobenzene	95.7		% Rec.	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-03

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : PW 9

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 13:04

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrolein	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrylonitrile	BDL	10.	ug/l	6200B-1997	07/01/13	1
Benzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromodichloromethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromoform	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromomethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
sec-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
tert-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Carbon tetrachloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorodibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chloroethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloroform	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloromethane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
2-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
4-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloropropene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Di-isopropyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Ethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Isopropylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
p-Isopropyltoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2-Butanone (MEK)	BDL	10.	ug/l	6200B-1997	07/01/13	1
Methylene Chloride	BDL	5.0	ug/l	6200B-1997	07/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-03

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : PW 9

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 13:04

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methyl tert-butyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Naphthalene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Propylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Styrene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Tetrachloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Toluene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichlorofluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Vinyl chloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
o-Xylene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
m&p-Xylenes	BDL	2.0	ug/l	6200B-1997	07/01/13	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	6200B-1997	07/01/13	1
Dibromofluoromethane	99.6		% Rec.	6200B-1997	07/01/13	1
a,a,a-Trifluorotoluene	108.		% Rec.	6200B-1997	07/01/13	1
4-Bromofluorobenzene	97.3		% Rec.	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-04

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : PW 10

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 14:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrolein	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrylonitrile	BDL	10.	ug/l	6200B-1997	07/01/13	1
Benzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromodichloromethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromoform	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromomethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
sec-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
tert-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Carbon tetrachloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorodibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chloroethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloroform	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloromethane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
2-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
4-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloropropene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Di-isopropyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Ethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Isopropylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
p-Isopropyltoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2-Butanone (MEK)	BDL	10.	ug/l	6200B-1997	07/01/13	1
Methylene Chloride	BDL	5.0	ug/l	6200B-1997	07/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-04

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : PW 10

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 14:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methyl tert-butyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Naphthalene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Propylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Styrene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Tetrachloroethene	23.	1.0	ug/l	6200B-1997	07/01/13	1
Toluene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichlorofluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Vinyl chloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
o-Xylene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
m&p-Xylenes	BDL	2.0	ug/l	6200B-1997	07/01/13	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	6200B-1997	07/01/13	1
Dibromofluoromethane	101.		% Rec.	6200B-1997	07/01/13	1
a,a,a-Trifluorotoluene	108.		% Rec.	6200B-1997	07/01/13	1
4-Bromofluorobenzene	100.		% Rec.	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-05

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : PW 17

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 12:54

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrolein	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrylonitrile	BDL	10.	ug/l	6200B-1997	07/01/13	1
Benzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromodichloromethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromoform	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromomethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
sec-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
tert-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Carbon tetrachloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorodibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chloroethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloroform	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloromethane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
2-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
4-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloropropene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Di-isopropyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Ethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Isopropylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
p-Isopropyltoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2-Butanone (MEK)	BDL	10.	ug/l	6200B-1997	07/01/13	1
Methylene Chloride	BDL	5.0	ug/l	6200B-1997	07/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-05

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : PW 17

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 12:54

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methyl tert-butyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Naphthalene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Propylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Styrene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Tetrachloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Toluene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichlorofluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Vinyl chloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
o-Xylene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
m&p-Xylenes	BDL	2.0	ug/l	6200B-1997	07/01/13	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	6200B-1997	07/01/13	1
Dibromofluoromethane	99.2		% Rec.	6200B-1997	07/01/13	1
a,a,a-Trifluorotoluene	107.		% Rec.	6200B-1997	07/01/13	1
4-Bromofluorobenzene	101.		% Rec.	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-06

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 1

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 14:46

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrolein	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrylonitrile	BDL	10.	ug/l	6200B-1997	07/01/13	1
Benzene	24.	1.0	ug/l	6200B-1997	07/01/13	1
Bromobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromodichloromethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromoform	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromomethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Butylbenzene	2.6	1.0	ug/l	6200B-1997	07/01/13	1
sec-Butylbenzene	2.8	1.0	ug/l	6200B-1997	07/01/13	1
tert-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Carbon tetrachloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorodibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chloroethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloroform	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloromethane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
2-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
4-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloropropene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Di-isopropyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Ethylbenzene	190	1.0	ug/l	6200B-1997	07/01/13	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Isopropylbenzene	19.	1.0	ug/l	6200B-1997	07/01/13	1
p-Isopropyltoluene	1.6	1.0	ug/l	6200B-1997	07/01/13	1
2-Butanone (MEK)	BDL	10.	ug/l	6200B-1997	07/01/13	1
Methylene Chloride	BDL	5.0	ug/l	6200B-1997	07/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-06

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 1

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 14:46

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methyl tert-butyl ether	33.	1.0	ug/l	6200B-1997	07/01/13	1
Naphthalene	90.	5.0	ug/l	6200B-1997	07/01/13	1
n-Propylbenzene	34.	1.0	ug/l	6200B-1997	07/01/13	1
Styrene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Tetrachloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Toluene	49.	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichlorofluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
1,2,4-Trimethylbenzene	190	1.0	ug/l	6200B-1997	07/01/13	1
1,3,5-Trimethylbenzene	48.	1.0	ug/l	6200B-1997	07/01/13	1
Vinyl chloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
o-Xylene	84.	1.0	ug/l	6200B-1997	07/01/13	1
m&p-Xylenes	250	2.0	ug/l	6200B-1997	07/01/13	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	6200B-1997	07/01/13	1
Dibromofluoromethane	97.4		% Rec.	6200B-1997	07/01/13	1
a,a,a-Trifluorotoluene	107.		% Rec.	6200B-1997	07/01/13	1
4-Bromofluorobenzene	103.		% Rec.	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-07

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 2

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 15:16

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrolein	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrylonitrile	BDL	10.	ug/l	6200B-1997	07/01/13	1
Benzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromodichloromethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromoform	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromomethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
sec-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
tert-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Carbon tetrachloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorodibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chloroethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloroform	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloromethane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
2-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
4-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloropropene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Di-isopropyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Ethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Isopropylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
p-Isopropyltoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2-Butanone (MEK)	BDL	10.	ug/l	6200B-1997	07/01/13	1
Methylene Chloride	BDL	5.0	ug/l	6200B-1997	07/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Est. 1970

REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-07

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 2

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 15:16

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methyl tert-butyl ether	64.	1.0	ug/l	6200B-1997	07/01/13	1
Naphthalene	6.7	5.0	ug/l	6200B-1997	07/01/13	1
n-Propylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Styrene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Tetrachloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Toluene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichlorofluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
1,2,4-Trimethylbenzene	1.1	1.0	ug/l	6200B-1997	07/01/13	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Vinyl chloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
o-Xylene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
m&p-Xylenes	BDL	2.0	ug/l	6200B-1997	07/01/13	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	6200B-1997	07/01/13	1
Dibromofluoromethane	101.		% Rec.	6200B-1997	07/01/13	1
a,a,a-Trifluorotoluene	105.		% Rec.	6200B-1997	07/01/13	1
4-Bromofluorobenzene	97.3		% Rec.	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-08

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 2D

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 14:43

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrolein	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrylonitrile	BDL	10.	ug/l	6200B-1997	07/01/13	1
Benzene	6.7	1.0	ug/l	6200B-1997	07/01/13	1
Bromobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromodichloromethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromoform	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromomethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
sec-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
tert-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Carbon tetrachloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorodibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chloroethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloroform	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloromethane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
2-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
4-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloropropene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Di-isopropyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Ethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Isopropylbenzene	1.4	1.0	ug/l	6200B-1997	07/01/13	1
p-Isopropyltoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2-Butanone (MEK)	BDL	10.	ug/l	6200B-1997	07/01/13	1
Methylene Chloride	BDL	5.0	ug/l	6200B-1997	07/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-08

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 2D

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 14:43

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methyl tert-butyl ether	99.	1.0	ug/l	6200B-1997	07/01/13	1
Naphthalene	5.6	5.0	ug/l	6200B-1997	07/01/13	1
n-Propylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Styrene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Tetrachloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Toluene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichlorofluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Vinyl chloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
o-Xylene	1.1	1.0	ug/l	6200B-1997	07/01/13	1
m&p-Xylenes	BDL	2.0	ug/l	6200B-1997	07/01/13	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	6200B-1997	07/01/13	1
Dibromofluoromethane	99.0		% Rec.	6200B-1997	07/01/13	1
a,a,a-Trifluorotoluene	107.		% Rec.	6200B-1997	07/01/13	1
4-Bromofluorobenzene	97.5		% Rec.	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-09

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 5

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 15:11

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrolein	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrylonitrile	BDL	10.	ug/l	6200B-1997	07/01/13	1
Benzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromodichloromethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromoform	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromomethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
sec-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
tert-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Carbon tetrachloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorodibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chloroethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloroform	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloromethane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
2-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
4-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloropropene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Di-isopropyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Ethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Isopropylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
p-Isopropyltoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2-Butanone (MEK)	BDL	10.	ug/l	6200B-1997	07/01/13	1
Methylene Chloride	BDL	5.0	ug/l	6200B-1997	07/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-09

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 5

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 15:11

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methyl tert-butyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Naphthalene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Propylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Styrene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Tetrachloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Toluene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichlorofluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Vinyl chloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
o-Xylene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
m&p-Xylenes	BDL	2.0	ug/l	6200B-1997	07/01/13	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	6200B-1997	07/01/13	1
Dibromofluoromethane	99.8		% Rec.	6200B-1997	07/01/13	1
a,a,a-Trifluorotoluene	106.		% Rec.	6200B-1997	07/01/13	1
4-Bromofluorobenzene	96.6		% Rec.	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Sample ID : MW 6

Collected By : Andy Wrenn
Collection Date : 06/24/13 15:03

ESC Sample # : L643470-10

Site ID : RALEIGH, NC

Project # : 03403

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrolein	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrylonitrile	BDL	10.	ug/l	6200B-1997	07/01/13	1
Benzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromodichloromethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromoform	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromomethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
sec-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
tert-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Carbon tetrachloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorodibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chloroethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloroform	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloromethane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
2-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
4-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloropropene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Di-isopropyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Ethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Isopropylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
p-Isopropyltoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2-Butanone (MEK)	BDL	10.	ug/l	6200B-1997	07/01/13	1
Methylene Chloride	BDL	5.0	ug/l	6200B-1997	07/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-10

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 6

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 15:03

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methyl tert-butyl ether	21.	1.0	ug/l	6200B-1997	07/01/13	1
Naphthalene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Propylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Styrene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Tetrachloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Toluene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichlorofluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Vinyl chloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
o-Xylene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
m&p-Xylenes	BDL	2.0	ug/l	6200B-1997	07/01/13	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	6200B-1997	07/01/13	1
Dibromofluoromethane	103.		% Rec.	6200B-1997	07/01/13	1
a,a,a-Trifluorotoluene	103.		% Rec.	6200B-1997	07/01/13	1
4-Bromofluorobenzene	93.1		% Rec.	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-11

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 6D

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 15:07

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrolein	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrylonitrile	BDL	10.	ug/l	6200B-1997	07/01/13	1
Benzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromodichloromethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromoform	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromomethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
sec-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
tert-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Carbon tetrachloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorodibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chloroethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloroform	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloromethane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
2-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
4-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloropropene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Di-isopropyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Ethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Isopropylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
p-Isopropyltoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2-Butanone (MEK)	BDL	10.	ug/l	6200B-1997	07/01/13	1
Methylene Chloride	BDL	5.0	ug/l	6200B-1997	07/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-11

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 6D

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 15:07

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methyl tert-butyl ether	7.3	1.0	ug/l	6200B-1997	07/01/13	1
Naphthalene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Propylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Styrene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Tetrachloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Toluene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichlorofluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Vinyl chloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
o-Xylene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
m&p-Xylenes	BDL	2.0	ug/l	6200B-1997	07/01/13	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	6200B-1997	07/01/13	1
Dibromofluoromethane	103.		% Rec.	6200B-1997	07/01/13	1
a,a,a-Trifluorotoluene	106.		% Rec.	6200B-1997	07/01/13	1
4-Bromofluorobenzene	93.2		% Rec.	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-12

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 7

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 14:55

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrolein	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrylonitrile	BDL	10.	ug/l	6200B-1997	07/01/13	1
Benzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromodichloromethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromoform	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromomethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
sec-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
tert-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Carbon tetrachloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorodibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chloroethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloroform	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloromethane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
2-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
4-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloropropene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Di-isopropyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Ethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Isopropylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
p-Isopropyltoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2-Butanone (MEK)	BDL	10.	ug/l	6200B-1997	07/01/13	1
Methylene Chloride	BDL	5.0	ug/l	6200B-1997	07/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Est. 1970

REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-12

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 7

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 14:55

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methyl tert-butyl ether	1.2	1.0	ug/l	6200B-1997	07/01/13	1
Naphthalene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Propylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Styrene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Tetrachloroethene	2.0	1.0	ug/l	6200B-1997	07/01/13	1
Toluene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichlorofluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Vinyl chloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
o-Xylene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
m&p-Xylenes	BDL	2.0	ug/l	6200B-1997	07/01/13	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	6200B-1997	07/01/13	1
Dibromofluoromethane	108.		% Rec.	6200B-1997	07/01/13	1
a,a,a-Trifluorotoluene	107.		% Rec.	6200B-1997	07/01/13	1
4-Bromofluorobenzene	90.9		% Rec.	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Sample ID : MW 8

Collected By : Andy Wrenn
Collection Date : 06/24/13 14:52

ESC Sample # : L643470-13

Site ID : RALEIGH, NC

Project # : 03403

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrolein	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrylonitrile	BDL	10.	ug/l	6200B-1997	07/01/13	1
Benzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromodichloromethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromoform	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromomethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
sec-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
tert-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Carbon tetrachloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorodibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chloroethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloroform	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloromethane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
2-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
4-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloropropene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Di-isopropyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Ethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Isopropylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
p-Isopropyltoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2-Butanone (MEK)	BDL	10.	ug/l	6200B-1997	07/01/13	1
Methylene Chloride	BDL	5.0	ug/l	6200B-1997	07/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-13

Site ID : RALEIGH, NC

Project # : 03403

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Sample ID : MW 8

Collected By : Andy Wrenn
Collection Date : 06/24/13 14:52

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methyl tert-butyl ether	1.8	1.0	ug/l	6200B-1997	07/01/13	1
Naphthalene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Propylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Styrene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Tetrachloroethene	25.	1.0	ug/l	6200B-1997	07/01/13	1
Toluene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichlorofluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Vinyl chloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
o-Xylene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
m&p-Xylenes	BDL	2.0	ug/l	6200B-1997	07/01/13	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	6200B-1997	07/01/13	1
Dibromofluoromethane	106.		% Rec.	6200B-1997	07/01/13	1
a,a,a-Trifluorotoluene	105.		% Rec.	6200B-1997	07/01/13	1
4-Bromofluorobenzene	88.8		% Rec.	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-14

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 10

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 14:33

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrolein	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrylonitrile	BDL	10.	ug/l	6200B-1997	07/01/13	1
Benzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromodichloromethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromoform	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromomethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
sec-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
tert-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Carbon tetrachloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorodibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chloroethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloroform	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloromethane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
2-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
4-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloropropene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Di-isopropyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Ethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Isopropylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
p-Isopropyltoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2-Butanone (MEK)	BDL	10.	ug/l	6200B-1997	07/01/13	1
Methylene Chloride	BDL	5.0	ug/l	6200B-1997	07/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-14

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 10

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 14:33

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methyl tert-butyl ether	5.6	1.0	ug/l	6200B-1997	07/01/13	1
Naphthalene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Propylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Styrene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Tetrachloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Toluene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichlorofluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Vinyl chloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
o-Xylene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
m&p-Xylenes	BDL	2.0	ug/l	6200B-1997	07/01/13	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	6200B-1997	07/01/13	1
Dibromofluoromethane	108.		% Rec.	6200B-1997	07/01/13	1
a,a,a-Trifluorotoluene	106.		% Rec.	6200B-1997	07/01/13	1
4-Bromofluorobenzene	92.9		% Rec.	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-15

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 11

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 14:37

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrolein	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrylonitrile	BDL	10.	ug/l	6200B-1997	07/01/13	1
Benzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromodichloromethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromoform	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromomethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
sec-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
tert-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Carbon tetrachloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorodibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chloroethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloroform	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloromethane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
2-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
4-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloropropene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Di-isopropyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Ethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Isopropylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
p-Isopropyltoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2-Butanone (MEK)	BDL	10.	ug/l	6200B-1997	07/01/13	1
Methylene Chloride	BDL	5.0	ug/l	6200B-1997	07/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Est. 1970

REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-15

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 11

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 14:37

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methyl tert-butyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Naphthalene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Propylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Styrene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Tetrachloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Toluene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichlorofluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Vinyl chloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
o-Xylene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
m&p-Xylenes	BDL	2.0	ug/l	6200B-1997	07/01/13	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	6200B-1997	07/01/13	1
Dibromofluoromethane	109.		% Rec.	6200B-1997	07/01/13	1
a,a,a-Trifluorotoluene	106.		% Rec.	6200B-1997	07/01/13	1
4-Bromofluorobenzene	91.6		% Rec.	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Sample ID : MW 13

Collected By : Andy Wrenn
Collection Date : 06/24/13 12:49

ESC Sample # : L643470-16

Site ID : RALEIGH, NC

Project # : 03403

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrolein	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrylonitrile	BDL	10.	ug/l	6200B-1997	07/01/13	1
Benzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromodichloromethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromoform	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromomethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
sec-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
tert-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Carbon tetrachloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorodibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chloroethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloroform	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloromethane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
2-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
4-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloropropene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Di-isopropyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Ethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Isopropylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
p-Isopropyltoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2-Butanone (MEK)	BDL	10.	ug/l	6200B-1997	07/01/13	1
Methylene Chloride	BDL	5.0	ug/l	6200B-1997	07/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-16

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 13

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 12:49

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methyl tert-butyl ether	1.6	1.0	ug/l	6200B-1997	07/01/13	1
Naphthalene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Propylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Styrene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Tetrachloroethene	190	1.0	ug/l	6200B-1997	07/01/13	1
Toluene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichlorofluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Vinyl chloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
o-Xylene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
m&p-Xylenes	BDL	2.0	ug/l	6200B-1997	07/01/13	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	6200B-1997	07/01/13	1
Dibromofluoromethane	108.		% Rec.	6200B-1997	07/01/13	1
a,a,a-Trifluorotoluene	106.		% Rec.	6200B-1997	07/01/13	1
4-Bromofluorobenzene	90.6		% Rec.	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-17

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 13D

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 12:51

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrolein	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrylonitrile	BDL	10.	ug/l	6200B-1997	07/01/13	1
Benzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromodichloromethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromoform	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromomethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
sec-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
tert-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Carbon tetrachloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorodibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chloroethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloroform	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloromethane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
2-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
4-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloropropene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Di-isopropyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Ethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Isopropylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
p-Isopropyltoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2-Butanone (MEK)	BDL	10.	ug/l	6200B-1997	07/01/13	1
Methylene Chloride	BDL	5.0	ug/l	6200B-1997	07/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-17

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 13D

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 12:51

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methyl tert-butyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Naphthalene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Propylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Styrene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Tetrachloroethene	140	1.0	ug/l	6200B-1997	07/01/13	1
Toluene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichlorofluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Vinyl chloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
o-Xylene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
m&p-Xylenes	BDL	2.0	ug/l	6200B-1997	07/01/13	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	6200B-1997	07/01/13	1
Dibromofluoromethane	109.		% Rec.	6200B-1997	07/01/13	1
a,a,a-Trifluorotoluene	107.		% Rec.	6200B-1997	07/01/13	1
4-Bromofluorobenzene	89.2		% Rec.	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-18

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 14

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 12:44

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrolein	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrylonitrile	BDL	10.	ug/l	6200B-1997	07/01/13	1
Benzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromodichloromethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromoform	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromomethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
sec-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
tert-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Carbon tetrachloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorodibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chloroethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloroform	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloromethane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
2-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
4-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloropropene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Di-isopropyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Ethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Isopropylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
p-Isopropyltoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2-Butanone (MEK)	BDL	10.	ug/l	6200B-1997	07/01/13	1
Methylene Chloride	BDL	5.0	ug/l	6200B-1997	07/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-18

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 14

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 12:44

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methyl tert-butyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Naphthalene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Propylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Styrene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Tetrachloroethene	1.9	1.0	ug/l	6200B-1997	07/01/13	1
Toluene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichlorofluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Vinyl chloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
o-Xylene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
m&p-Xylenes	BDL	2.0	ug/l	6200B-1997	07/01/13	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	6200B-1997	07/01/13	1
Dibromofluoromethane	107.		% Rec.	6200B-1997	07/01/13	1
a,a,a-Trifluorotoluene	107.		% Rec.	6200B-1997	07/01/13	1
4-Bromofluorobenzene	91.4		% Rec.	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-19

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 15D

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 14:59

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrolein	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrylonitrile	BDL	10.	ug/l	6200B-1997	07/01/13	1
Benzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromodichloromethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromoform	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromomethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
sec-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
tert-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Carbon tetrachloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorodibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chloroethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloroform	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloromethane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
2-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
4-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloropropene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Di-isopropyl ether	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Ethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Isopropylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
p-Isopropyltoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2-Butanone (MEK)	BDL	10.	ug/l	6200B-1997	07/01/13	1
Methylene Chloride	BDL	5.0	ug/l	6200B-1997	07/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-19

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : MW 15D

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 14:59

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methyl tert-butyl ether	6.4	1.0	ug/l	6200B-1997	07/01/13	1
Naphthalene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Propylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Styrene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Tetrachloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Toluene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichlorofluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Vinyl chloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
o-Xylene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
m&p-Xylenes	BDL	2.0	ug/l	6200B-1997	07/01/13	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	6200B-1997	07/01/13	1
Dibromofluoromethane	111.		% Rec.	6200B-1997	07/01/13	1
a,a,a-Trifluorotoluene	107.		% Rec.	6200B-1997	07/01/13	1
4-Bromofluorobenzene	88.5		% Rec.	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-20

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : RW 1

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 16:03

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrolein	BDL	50.	ug/l	6200B-1997	07/01/13	1
Acrylonitrile	BDL	10.	ug/l	6200B-1997	07/01/13	1
Benzene	2.8	1.0	ug/l	6200B-1997	07/01/13	1
Bromobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromodichloromethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromoform	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Bromomethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
sec-Butylbenzene	1.2	1.0	ug/l	6200B-1997	07/01/13	1
tert-Butylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Carbon tetrachloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chlorodibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Chloroethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloroform	BDL	5.0	ug/l	6200B-1997	07/01/13	1
Chloromethane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
2-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
4-Chlorotoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dibromomethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1-Dichloropropene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2,2-Dichloropropane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Di-isopropyl ether	2.0	1.0	ug/l	6200B-1997	07/01/13	1
Ethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Isopropylbenzene	3.7	1.0	ug/l	6200B-1997	07/01/13	1
p-Isopropyltoluene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
2-Butanone (MEK)	BDL	10.	ug/l	6200B-1997	07/01/13	1
Methylene Chloride	BDL	5.0	ug/l	6200B-1997	07/01/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Brown
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

July 02,2013

ESC Sample # : L643470-20

Date Received : June 26, 2013
Description : Paul's Cash Grocery

Site ID : RALEIGH, NC

Sample ID : RW 1

Project # : 03403

Collected By : Andy Wrenn
Collection Date : 06/24/13 16:03

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methyl tert-butyl ether	310	5.0	ug/l	6200B-1997	07/02/13	5
Naphthalene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
n-Propylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Styrene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Tetrachloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Toluene	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichloroethene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Trichlorofluoromethane	BDL	5.0	ug/l	6200B-1997	07/01/13	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	6200B-1997	07/01/13	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
Vinyl chloride	BDL	1.0	ug/l	6200B-1997	07/01/13	1
o-Xylene	BDL	1.0	ug/l	6200B-1997	07/01/13	1
m&p-Xylenes	BDL	2.0	ug/l	6200B-1997	07/01/13	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	6200B-1997	07/01/13	1
Dibromofluoromethane	104.		% Rec.	6200B-1997	07/01/13	1
a,a,a-Trifluorotoluene	103.		% Rec.	6200B-1997	07/01/13	1
4-Bromofluorobenzene	91.7		% Rec.	6200B-1997	07/01/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/02/13 12:22 Printed: 07/02/13 12:45

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L643470-10	WG669111	SAMP	1,2-Dichlorobenzene	R2728880	J4
L643470-11	WG669111	SAMP	1,2-Dichlorobenzene	R2728880	J4
L643470-12	WG669111	SAMP	1,2-Dichlorobenzene	R2728880	J4
L643470-13	WG669111	SAMP	1,2-Dichlorobenzene	R2728880	J4
L643470-14	WG669111	SAMP	1,2-Dichlorobenzene	R2728880	J4
L643470-15	WG669111	SAMP	1,2-Dichlorobenzene	R2728880	J4
L643470-16	WG669111	SAMP	1,2-Dichlorobenzene	R2728880	J4
L643470-17	WG669111	SAMP	1,2-Dichlorobenzene	R2728880	J4
L643470-18	WG669111	SAMP	1,2-Dichlorobenzene	R2728880	J4
L643470-19	WG669111	SAMP	1,2-Dichlorobenzene	R2728880	J4
L643470-20	WG669111	SAMP	1,2-Dichlorobenzene	R2728880	J4

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J4	The associated batch QC was outside the established quality control range for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

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Quality Assurance Report
Level II

L643470

July 02, 2013

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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG669111	07/01/13 04:16
1,1,1-Trichloroethane	< .001	mg/l			WG669111	07/01/13 04:16
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG669111	07/01/13 04:16
1,1,2-Trichloroethane	< .001	mg/l			WG669111	07/01/13 04:16
1,1-Dichloroethane	< .001	mg/l			WG669111	07/01/13 04:16
1,1-Dichloroethene	< .001	mg/l			WG669111	07/01/13 04:16
1,1-Dichloropropene	< .001	mg/l			WG669111	07/01/13 04:16
1,2,3-Trichlorobenzene	< .001	mg/l			WG669111	07/01/13 04:16
1,2,3-Trichloropropane	< .001	mg/l			WG669111	07/01/13 04:16
1,2,4-Trichlorobenzene	< .001	mg/l			WG669111	07/01/13 04:16
1,2,4-Trimethylbenzene	< .001	mg/l			WG669111	07/01/13 04:16
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG669111	07/01/13 04:16
1,2-Dibromoethane	< .001	mg/l			WG669111	07/01/13 04:16
1,2-Dichlorobenzene	< .001	mg/l			WG669111	07/01/13 04:16
1,2-Dichloroethane	< .001	mg/l			WG669111	07/01/13 04:16
1,2-Dichloropropane	< .001	mg/l			WG669111	07/01/13 04:16
1,3,5-Trimethylbenzene	< .001	mg/l			WG669111	07/01/13 04:16
1,3-Dichlorobenzene	< .001	mg/l			WG669111	07/01/13 04:16
1,3-Dichloropropane	< .001	mg/l			WG669111	07/01/13 04:16
1,4-Dichlorobenzene	< .001	mg/l			WG669111	07/01/13 04:16
2,2-Dichloropropane	< .001	mg/l			WG669111	07/01/13 04:16
2-Butanone (MEK)	< .01	mg/l			WG669111	07/01/13 04:16
2-Chlorotoluene	< .001	mg/l			WG669111	07/01/13 04:16
4-Chlorotoluene	< .001	mg/l			WG669111	07/01/13 04:16
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG669111	07/01/13 04:16
Acetone	< .05	mg/l			WG669111	07/01/13 04:16
Acrolein	< .025	mg/l			WG669111	07/01/13 04:16
Acrylonitrile	< .01	mg/l			WG669111	07/01/13 04:16
Benzene	< .001	mg/l			WG669111	07/01/13 04:16
Bromobenzene	< .001	mg/l			WG669111	07/01/13 04:16
Bromodichloromethane	< .001	mg/l			WG669111	07/01/13 04:16
Bromoform	< .001	mg/l			WG669111	07/01/13 04:16
Bromomethane	< .005	mg/l			WG669111	07/01/13 04:16
Carbon tetrachloride	< .001	mg/l			WG669111	07/01/13 04:16
Chlorobenzene	< .001	mg/l			WG669111	07/01/13 04:16
Chlorodibromomethane	< .001	mg/l			WG669111	07/01/13 04:16
Chloroethane	< .005	mg/l			WG669111	07/01/13 04:16
Chloroform	< .005	mg/l			WG669111	07/01/13 04:16
Chloromethane	< .0025	mg/l			WG669111	07/01/13 04:16
cis-1,2-Dichloroethene	< .001	mg/l			WG669111	07/01/13 04:16
Di-isopropyl ether	< .001	mg/l			WG669111	07/01/13 04:16
Dibromomethane	< .001	mg/l			WG669111	07/01/13 04:16
Dichlorodifluoromethane	< .005	mg/l			WG669111	07/01/13 04:16
Ethylbenzene	< .001	mg/l			WG669111	07/01/13 04:16
Hexachloro-1,3-butadiene	< .001	mg/l			WG669111	07/01/13 04:16
Isopropylbenzene	< .001	mg/l			WG669111	07/01/13 04:16
m&p-Xylenes	< .002	mg/l			WG669111	07/01/13 04:16
Methyl tert-butyl ether	< .001	mg/l			WG669111	07/01/13 04:16
Methylene Chloride	< .005	mg/l			WG669111	07/01/13 04:16
n-Butylbenzene	< .001	mg/l			WG669111	07/01/13 04:16
n-Propylbenzene	< .001	mg/l			WG669111	07/01/13 04:16
Naphthalene	< .005	mg/l			WG669111	07/01/13 04:16
o-Xylene	< .001	mg/l			WG669111	07/01/13 04:16
p-Isopropyltoluene	< .001	mg/l			WG669111	07/01/13 04:16
sec-Butylbenzene	< .001	mg/l			WG669111	07/01/13 04:16
Styrene	< .001	mg/l			WG669111	07/01/13 04:16
tert-Butylbenzene	< .001	mg/l			WG669111	07/01/13 04:16
Tetrachloroethene	< .001	mg/l			WG669111	07/01/13 04:16
Toluene	< .005	mg/l			WG669111	07/01/13 04:16

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Level II

L643470

July 02, 2013

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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
trans-1,2-Dichloroethene	< .001	mg/l			WG669111	07/01/13 04:16
Trichloroethene	< .001	mg/l			WG669111	07/01/13 04:16
Trichlorofluoromethane	< .005	mg/l			WG669111	07/01/13 04:16
Vinyl chloride	< .001	mg/l			WG669111	07/01/13 04:16
4-Bromofluorobenzene		% Rec.	92.58	82-120	WG669111	07/01/13 04:16
Dibromofluoromethane		% Rec.	105.0	82-126	WG669111	07/01/13 04:16
Toluene-d8		% Rec.	102.4	92-112	WG669111	07/01/13 04:16
a,a,a-Trifluorotoluene		% Rec.	104.0	90-116	WG669111	07/01/13 04:16
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG669110	07/01/13 16:06
1,1,1-Trichloroethane	< .001	mg/l			WG669110	07/01/13 16:06
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG669110	07/01/13 16:06
1,1,2-Trichloroethane	< .001	mg/l			WG669110	07/01/13 16:06
1,1-Dichloroethane	< .001	mg/l			WG669110	07/01/13 16:06
1,1-Dichloroethene	< .001	mg/l			WG669110	07/01/13 16:06
1,1-Dichloropropene	< .001	mg/l			WG669110	07/01/13 16:06
1,2,3-Trichlorobenzene	< .001	mg/l			WG669110	07/01/13 16:06
1,2,3-Trichloropropane	< .001	mg/l			WG669110	07/01/13 16:06
1,2,4-Trichlorobenzene	< .001	mg/l			WG669110	07/01/13 16:06
1,2,4-Trimethylbenzene	< .001	mg/l			WG669110	07/01/13 16:06
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG669110	07/01/13 16:06
1,2-Dibromoethane	< .001	mg/l			WG669110	07/01/13 16:06
1,2-Dichlorobenzene	< .001	mg/l			WG669110	07/01/13 16:06
1,2-Dichloroethane	< .001	mg/l			WG669110	07/01/13 16:06
1,2-Dichloropropane	< .001	mg/l			WG669110	07/01/13 16:06
1,3,5-Trimethylbenzene	< .001	mg/l			WG669110	07/01/13 16:06
1,3-Dichlorobenzene	< .001	mg/l			WG669110	07/01/13 16:06
1,3-Dichloropropane	< .001	mg/l			WG669110	07/01/13 16:06
1,4-Dichlorobenzene	< .001	mg/l			WG669110	07/01/13 16:06
2,2-Dichloropropane	< .001	mg/l			WG669110	07/01/13 16:06
2-Butanone (MEK)	< .01	mg/l			WG669110	07/01/13 16:06
2-Chlorotoluene	< .001	mg/l			WG669110	07/01/13 16:06
4-Chlorotoluene	< .001	mg/l			WG669110	07/01/13 16:06
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG669110	07/01/13 16:06
Acetone	< .05	mg/l			WG669110	07/01/13 16:06
Acrolein	< .025	mg/l			WG669110	07/01/13 16:06
Acrylonitrile	< .01	mg/l			WG669110	07/01/13 16:06
Benzene	< .001	mg/l			WG669110	07/01/13 16:06
Bromobenzene	< .001	mg/l			WG669110	07/01/13 16:06
Bromodichloromethane	< .001	mg/l			WG669110	07/01/13 16:06
Bromoform	< .001	mg/l			WG669110	07/01/13 16:06
Bromomethane	< .005	mg/l			WG669110	07/01/13 16:06
Carbon tetrachloride	< .001	mg/l			WG669110	07/01/13 16:06
Chlorobenzene	< .001	mg/l			WG669110	07/01/13 16:06
Chlorodibromomethane	< .001	mg/l			WG669110	07/01/13 16:06
Chloroethane	< .005	mg/l			WG669110	07/01/13 16:06
Chloroform	< .005	mg/l			WG669110	07/01/13 16:06
Chloromethane	< .0025	mg/l			WG669110	07/01/13 16:06
cis-1,2-Dichloroethene	< .001	mg/l			WG669110	07/01/13 16:06
Di-isopropyl ether	< .001	mg/l			WG669110	07/01/13 16:06
Dibromomethane	< .001	mg/l			WG669110	07/01/13 16:06
Dichlorodifluoromethane	< .005	mg/l			WG669110	07/01/13 16:06
Ethylbenzene	< .001	mg/l			WG669110	07/01/13 16:06
Hexachloro-1,3-butadiene	< .001	mg/l			WG669110	07/01/13 16:06
Isopropylbenzene	< .001	mg/l			WG669110	07/01/13 16:06
m&p-Xylenes	< .002	mg/l			WG669110	07/01/13 16:06
Methyl tert-butyl ether	< .001	mg/l			WG669110	07/01/13 16:06
Methylene chloride	< .005	mg/l			WG669110	07/01/13 16:06

* Performance of this Analyte is outside of established criteria.
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July 02, 2013

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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
n-Butylbenzene	< .001	mg/l			WG669110	07/01/13 16:06
n-Propylbenzene	< .001	mg/l			WG669110	07/01/13 16:06
Naphthalene	< .005	mg/l			WG669110	07/01/13 16:06
o-Xylene	< .001	mg/l			WG669110	07/01/13 16:06
p-Isopropyltoluene	< .001	mg/l			WG669110	07/01/13 16:06
sec-Butylbenzene	< .001	mg/l			WG669110	07/01/13 16:06
Styrene	< .001	mg/l			WG669110	07/01/13 16:06
tert-Butylbenzene	< .001	mg/l			WG669110	07/01/13 16:06
Tetrachloroethene	< .001	mg/l			WG669110	07/01/13 16:06
Toluene	< .005	mg/l			WG669110	07/01/13 16:06
trans-1,2-Dichloroethene	< .001	mg/l			WG669110	07/01/13 16:06
Trichloroethene	< .001	mg/l			WG669110	07/01/13 16:06
Trichlorofluoromethane	< .005	mg/l			WG669110	07/01/13 16:06
Vinyl chloride	< .001	mg/l			WG669110	07/01/13 16:06
4-Bromofluorobenzene		% Rec.	97.45	82-120	WG669110	07/01/13 16:06
Dibromofluoromethane		% Rec.	100.7	82-126	WG669110	07/01/13 16:06
Toluene-d8		% Rec.	101.4	92-112	WG669110	07/01/13 16:06
a,a,a-Trifluorotoluene		% Rec.	104.8	90-116	WG669110	07/01/13 16:06
Methyl tert-butyl ether	< .001	mg/l			WG669933	07/01/13 22:42
4-Bromofluorobenzene		% Rec.	94.29	82-120	WG669933	07/01/13 22:42
Dibromofluoromethane		% Rec.	104.0	82-126	WG669933	07/01/13 22:42
Toluene-d8		% Rec.	103.3	92-112	WG669933	07/01/13 22:42
a,a,a-Trifluorotoluene		% Rec.	104.8	90-116	WG669933	07/01/13 22:42

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0213	85.1	77-128	WG669111
1,1,1-Trichloroethane	mg/l	.025	0.0236	94.4	71-126	WG669111
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0221	88.4	78-130	WG669111
1,1,2-Trichloroethane	mg/l	.025	0.0217	86.9	81-121	WG669111
1,1-Dichloroethane	mg/l	.025	0.0243	97.3	73-123	WG669111
1,1-Dichloroethene	mg/l	.025	0.0228	91.0	54-134	WG669111
1,1-Dichloropropene	mg/l	.025	0.0232	92.9	67-127	WG669111
1,2,3-Trichlorobenzene	mg/l	.025	0.0221	88.2	77-130	WG669111
1,2,3-Trichloropropane	mg/l	.025	0.0232	92.7	68-130	WG669111
1,2,4-Trichlorobenzene	mg/l	.025	0.0220	88.1	76-127	WG669111
1,2,4-Trimethylbenzene	mg/l	.025	0.0204	81.6	77-129	WG669111
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0216	86.4	55-142	WG669111
1,2-Dibromoethane	mg/l	.025	0.0216	86.5	78-124	WG669111
1,2-Dichlorobenzene	mg/l	.025	0.0202	80.9*	82-121	WG669111
1,2-Dichloroethane	mg/l	.025	0.0234	93.6	69-128	WG669111
1,2-Dichloropropane	mg/l	.025	0.0237	94.9	77-121	WG669111
1,3,5-Trimethylbenzene	mg/l	.025	0.0213	85.2	78-127	WG669111
1,3-Dichlorobenzene	mg/l	.025	0.0214	85.5	77-127	WG669111
1,3-Dichloropropane	mg/l	.025	0.0215	86.2	78-117	WG669111
1,4-Dichlorobenzene	mg/l	.025	0.0206	82.3	79-117	WG669111
2,2-Dichloropropane	mg/l	.025	0.0241	96.6	63-130	WG669111
2-Butanone (MEK)	mg/l	.125	0.167	134.	58-144	WG669111
2-Chlorotoluene	mg/l	.025	0.0210	83.9	78-123	WG669111
4-Chlorotoluene	mg/l	.025	0.0210	84.1	78-122	WG669111
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.137	110.	58-147	WG669111
Acetone	mg/l	.125	0.158	127.	49-153	WG669111
Acrolein	mg/l	.125	0.148	119.	10-181	WG669111
Acrylonitrile	mg/l	.125	0.131	104.	53-153	WG669111
Benzene	mg/l	.025	0.0236	94.3	72-119	WG669111
Bromobenzene	mg/l	.025	0.0211	84.5	76-121	WG669111

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July 02, 2013

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Bromodichloromethane	mg/l	.025	0.0230	91.9	75-127	WG669111
Bromoform	mg/l	.025	0.0234	93.6	61-136	WG669111
Bromomethane	mg/l	.025	0.0291	116.	42-172	WG669111
Carbon tetrachloride	mg/l	.025	0.0206	82.6	63-129	WG669111
Chlorobenzene	mg/l	.025	0.0204	81.5	78-123	WG669111
Chlorodibromomethane	mg/l	.025	0.0219	87.7	73-128	WG669111
Chloroethane	mg/l	.025	0.0233	93.2	52-164	WG669111
Chloroform	mg/l	.025	0.0243	97.2	76-122	WG669111
Chloromethane	mg/l	.025	0.0258	103.	50-141	WG669111
cis-1,2-Dichloroethene	mg/l	.025	0.0232	92.6	75-121	WG669111
Di-isopropyl ether	mg/l	.025	0.0272	109.	66-129	WG669111
Dibromomethane	mg/l	.025	0.0241	96.5	77-124	WG669111
Dichlorodifluoromethane	mg/l	.025	0.0219	87.5	33-173	WG669111
Ethylbenzene	mg/l	.025	0.0208	83.4	77-124	WG669111
Hexachloro-1,3-butadiene	mg/l	.025	0.0191	76.5	71-134	WG669111
Isopropylbenzene	mg/l	.025	0.0226	90.2	74-126	WG669111
m&p-Xylenes	mg/l	.05	0.0407	81.5	76-123	WG669111
Methyl tert-butyl ether	mg/l	.025	0.0252	101.	67-127	WG669111
Methylene Chloride	mg/l	.025	0.0238	95.3	67-122	WG669111
n-Butylbenzene	mg/l	.025	0.0211	84.3	74-130	WG669111
n-Propylbenzene	mg/l	.025	0.0214	85.5	77-125	WG669111
Naphthalene	mg/l	.025	0.0214	85.8	70-134	WG669111
o-Xylene	mg/l	.025	0.0204	81.5	77-125	WG669111
p-Isopropyltoluene	mg/l	.025	0.0218	87.4	77-132	WG669111
sec-Butylbenzene	mg/l	.025	0.0214	85.8	77-130	WG669111
Styrene	mg/l	.025	0.0220	88.0	69-145	WG669111
tert-Butylbenzene	mg/l	.025	0.0212	84.7	76-131	WG669111
Tetrachloroethene	mg/l	.025	0.0198	79.4	69-131	WG669111
Toluene	mg/l	.025	0.0227	90.7	75-114	WG669111
trans-1,2-Dichloroethene	mg/l	.025	0.0232	93.0	63-127	WG669111
Trichloroethene	mg/l	.025	0.0218	87.1	69-131	WG669111
Trichlorofluoromethane	mg/l	.025	0.0235	94.0	53-161	WG669111
Vinyl chloride	mg/l	.025	0.0237	94.6	55-142	WG669111
4-Bromofluorobenzene				96.59	82-120	WG669111
Dibromofluoromethane				103.7	82-126	WG669111
Toluene-d8				102.7	92-112	WG669111
a,a,a-Trifluorotoluene				104.9	90-116	WG669111
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0240	95.9	77-128	WG669110
1,1,1-Trichloroethane	mg/l	.025	0.0234	93.5	71-126	WG669110
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0219	87.6	78-130	WG669110
1,1,2-Trichloroethane	mg/l	.025	0.0232	92.7	81-121	WG669110
1,1-Dichloroethane	mg/l	.025	0.0227	90.7	73-123	WG669110
1,1-Dichloroethene	mg/l	.025	0.0199	79.7	54-134	WG669110
1,1-Dichloropropene	mg/l	.025	0.0223	89.3	67-127	WG669110
1,2,3-Trichlorobenzene	mg/l	.025	0.0253	101.	77-130	WG669110
1,2,3-Trichloropropane	mg/l	.025	0.0236	94.4	68-130	WG669110
1,2,4-Trichlorobenzene	mg/l	.025	0.0258	103.	76-127	WG669110
1,2,4-Trimethylbenzene	mg/l	.025	0.0232	92.9	77-129	WG669110
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0220	88.2	55-142	WG669110
1,2-Dibromoethane	mg/l	.025	0.0235	94.2	78-124	WG669110
1,2-Dichlorobenzene	mg/l	.025	0.0232	92.7	82-121	WG669110
1,2-Dichloroethane	mg/l	.025	0.0241	96.3	69-128	WG669110
1,2-Dichloropropane	mg/l	.025	0.0227	90.8	77-121	WG669110
1,3,5-Trimethylbenzene	mg/l	.025	0.0235	93.8	78-127	WG669110
1,3-Dichlorobenzene	mg/l	.025	0.0236	94.4	77-127	WG669110
1,3-Dichloropropane	mg/l	.025	0.0228	91.4	78-117	WG669110
1,4-Dichlorobenzene	mg/l	.025	0.0229	91.7	79-117	WG669110

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Mr. Michael Brown
100 East Ruffin Street

Mebane, NC 27302

Quality Assurance Report
Level II

L643470

July 02, 2013

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
2,2-Dichloropropane	mg/l	.025	0.0240	96.1	63-130	WG669110
2-Butanone (MEK)	mg/l	.125	0.0988	79.1	58-144	WG669110
2-Chlorotoluene	mg/l	.025	0.0232	92.7	78-123	WG669110
4-Chlorotoluene	mg/l	.025	0.0230	92.1	78-122	WG669110
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.121	96.6	58-147	WG669110
Acetone	mg/l	.125	0.0891	71.3	49-153	WG669110
Acrolein	mg/l	.125	0.0867	69.3	10-181	WG669110
Acrylonitrile	mg/l	.125	0.105	83.8	53-153	WG669110
Benzene	mg/l	.025	0.0213	85.0	72-119	WG669110
Bromobenzene	mg/l	.025	0.0231	92.5	76-121	WG669110
Bromodichloromethane	mg/l	.025	0.0239	95.7	75-127	WG669110
Bromoform	mg/l	.025	0.0250	99.9	61-136	WG669110
Bromomethane	mg/l	.025	0.0202	80.6	42-172	WG669110
Carbon tetrachloride	mg/l	.025	0.0241	96.3	63-129	WG669110
Chlorobenzene	mg/l	.025	0.0226	90.5	78-123	WG669110
Chlorodibromomethane	mg/l	.025	0.0237	94.6	73-128	WG669110
Chloroethane	mg/l	.025	0.0222	88.9	52-164	WG669110
Chloroform	mg/l	.025	0.0233	93.3	76-122	WG669110
Chloromethane	mg/l	.025	0.0225	90.0	50-141	WG669110
cis-1,2-Dichloroethene	mg/l	.025	0.0215	86.2	75-121	WG669110
Di-isopropyl ether	mg/l	.025	0.0229	91.7	66-129	WG669110
Dibromomethane	mg/l	.025	0.0237	94.9	77-124	WG669110
Dichlorodifluoromethane	mg/l	.025	0.0259	104.	33-173	WG669110
Ethylbenzene	mg/l	.025	0.0233	93.3	77-124	WG669110
Hexachloro-1,3-butadiene	mg/l	.025	0.0253	101.	71-134	WG669110
Isopropylbenzene	mg/l	.025	0.0254	102.	74-126	WG669110
m&p-Xylenes	mg/l	.05	0.0465	93.0	76-123	WG669110
Methyl tert-butyl ether	mg/l	.025	0.0227	90.7	67-127	WG669110
Methylene Chloride	mg/l	.025	0.0205	82.1	67-122	WG669110
n-Butylbenzene	mg/l	.025	0.0237	94.9	74-130	WG669110
n-Propylbenzene	mg/l	.025	0.0237	95.0	77-125	WG669110
Naphthalene	mg/l	.025	0.0250	99.8	70-134	WG669110
o-Xylene	mg/l	.025	0.0230	91.9	77-125	WG669110
p-Isopropyltoluene	mg/l	.025	0.0241	96.5	77-132	WG669110
sec-Butylbenzene	mg/l	.025	0.0235	93.9	77-130	WG669110
Styrene	mg/l	.025	0.0239	95.6	69-145	WG669110
tert-Butylbenzene	mg/l	.025	0.0236	94.3	76-131	WG669110
Tetrachloroethene	mg/l	.025	0.0241	96.4	69-131	WG669110
Toluene	mg/l	.025	0.0227	90.9	75-114	WG669110
trans-1,2-Dichloroethene	mg/l	.025	0.0210	83.8	63-127	WG669110
Trichloroethene	mg/l	.025	0.0228	91.2	69-131	WG669110
Trichlorofluoromethane	mg/l	.025	0.0249	99.5	53-161	WG669110
Vinyl chloride	mg/l	.025	0.0204	81.5	55-142	WG669110
4-Bromofluorobenzene				100.3	82-120	WG669110
Dibromofluoromethane				100.4	82-126	WG669110
Toluene-d8				102.2	92-112	WG669110
a,a,a-Trifluorotoluene				107.0	90-116	WG669110
Methyl tert-butyl ether	mg/l	.025	0.0239	95.8	67-127	WG669933
4-Bromofluorobenzene				95.62	82-120	WG669933
Dibromofluoromethane				102.2	82-126	WG669933
Toluene-d8				106.3	92-112	WG669933
a,a,a-Trifluorotoluene				105.1	90-116	WG669933

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0223	0.0213	89.0	77-128	4.66	20	WG669111

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Quality Assurance Report
Level II

L643470

July 02, 2013

		Laboratory Control Sample Duplicate						
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1-Trichloroethane	mg/l	0.0248	0.0236	99.0	71-126	4.99	20	WG669111
1,1,2,2-Tetrachloroethane	mg/l	0.0226	0.0221	90.0	78-130	2.11	20	WG669111
1,1,2-Trichloroethane	mg/l	0.0223	0.0217	89.0	81-121	2.39	20	WG669111
1,1-Dichloroethane	mg/l	0.0256	0.0243	102.	73-123	5.21	20	WG669111
1,1-Dichloroethene	mg/l	0.0239	0.0228	95.0	54-134	4.71	20	WG669111
1,1-Dichloropropene	mg/l	0.0245	0.0232	98.0	67-127	5.46	20	WG669111
1,2,3-Trichlorobenzene	mg/l	0.0227	0.0221	91.0	77-130	2.81	20	WG669111
1,2,3-Trichloropropane	mg/l	0.0224	0.0232	90.0	68-130	3.50	20	WG669111
1,2,4-Trichlorobenzene	mg/l	0.0228	0.0220	91.0	76-127	3.57	20	WG669111
1,2,4-Trimethylbenzene	mg/l	0.0215	0.0204	86.0	77-129	5.44	20	WG669111
1,2-Dibromo-3-Chloropropane	mg/l	0.0218	0.0216	87.0	55-142	1.15	20	WG669111
1,2-Dibromoethane	mg/l	0.0218	0.0216	87.0	78-124	1.05	20	WG669111
1,2-Dichlorobenzene	mg/l	0.0211	0.0202	84.0	82-121	4.10	20	WG669111
1,2-Dichloroethane	mg/l	0.0240	0.0234	96.0	69-128	2.35	20	WG669111
1,2-Dichloropropane	mg/l	0.0244	0.0237	98.0	77-121	2.93	20	WG669111
1,3,5-Trimethylbenzene	mg/l	0.0221	0.0213	88.0	78-127	3.51	20	WG669111
1,3-Dichlorobenzene	mg/l	0.0222	0.0214	89.0	77-127	3.80	20	WG669111
1,3-Dichloropropane	mg/l	0.0220	0.0215	88.0	78-117	1.87	20	WG669111
1,4-Dichlorobenzene	mg/l	0.0213	0.0206	85.0	79-117	3.41	20	WG669111
2,2-Dichloropropane	mg/l	0.0252	0.0241	101.	63-130	4.46	20	WG669111
2-Butanone (MEK)	mg/l	0.168	0.167	134.	58-144	0.500	20	WG669111
2-Chlorotoluene	mg/l	0.0217	0.0210	87.0	78-123	3.31	20	WG669111
4-Chlorotoluene	mg/l	0.0218	0.0210	87.0	78-122	3.50	20	WG669111
4-Methyl-2-pentanone (MIBK)	mg/l	0.137	0.137	110.	58-147	0.0700	20	WG669111
Acetone	mg/l	0.162	0.158	129.	49-153	2.07	21	WG669111
Acrolein	mg/l	0.150	0.148	120.	10-181	1.42	30	WG669111
Acrylonitrile	mg/l	0.136	0.131	108.	53-153	3.71	20	WG669111
Benzene	mg/l	0.0249	0.0236	99.0	72-119	5.28	20	WG669111
Bromobenzene	mg/l	0.0219	0.0211	87.0	76-121	3.39	20	WG669111
Bromodichloromethane	mg/l	0.0232	0.0230	93.0	75-127	1.06	20	WG669111
Bromoform	mg/l	0.0245	0.0234	98.0	61-136	4.37	20	WG669111
Bromomethane	mg/l	0.0301	0.0291	120.	42-172	3.48	20	WG669111
Carbon tetrachloride	mg/l	0.0249	0.0206	99.0	63-129	18.5	20	WG669111
Chlorobenzene	mg/l	0.0211	0.0204	84.0	78-123	3.73	20	WG669111
Chlorodibromomethane	mg/l	0.0222	0.0219	89.0	73-128	1.07	20	WG669111
Chloroethane	mg/l	0.0240	0.0233	96.0	52-164	3.01	20	WG669111
Chloroform	mg/l	0.0251	0.0243	100.	76-122	3.38	20	WG669111
Chloromethane	mg/l	0.0267	0.0258	107.	50-141	3.49	20	WG669111
cis-1,2-Dichloroethene	mg/l	0.0240	0.0232	96.0	75-121	3.64	20	WG669111
Di-isopropyl ether	mg/l	0.0281	0.0272	112.	66-129	3.36	20	WG669111
Dibromomethane	mg/l	0.0248	0.0241	99.0	77-124	2.58	20	WG669111
Dichlorodifluoromethane	mg/l	0.0222	0.0219	89.0	33-173	1.33	20	WG669111
Ethylbenzene	mg/l	0.0216	0.0208	86.0	77-124	3.70	20	WG669111
Hexachloro-1,3-butadiene	mg/l	0.0202	0.0191	81.0	71-134	5.20	20	WG669111
Isopropylbenzene	mg/l	0.0234	0.0226	94.0	74-126	3.86	20	WG669111
m&p-Xylenes	mg/l	0.0426	0.0407	85.0	76-123	4.38	20	WG669111
Methyl tert-butyl ether	mg/l	0.0262	0.0252	105.	67-127	3.88	20	WG669111
Methylene Chloride	mg/l	0.0244	0.0238	97.0	67-122	2.22	20	WG669111
n-Butylbenzene	mg/l	0.0224	0.0211	89.0	74-130	5.98	20	WG669111
n-Propylbenzene	mg/l	0.0227	0.0214	91.0	77-125	5.99	20	WG669111
Naphthalene	mg/l	0.0224	0.0214	90.0	70-134	4.29	20	WG669111
o-Xylene	mg/l	0.0214	0.0204	86.0	77-125	5.05	20	WG669111
p-Isopropyltoluene	mg/l	0.0228	0.0218	91.0	77-132	4.30	20	WG669111
sec-Butylbenzene	mg/l	0.0228	0.0214	91.0	77-130	6.02	20	WG669111
Styrene	mg/l	0.0227	0.0220	91.0	69-145	3.31	20	WG669111
tert-Butylbenzene	mg/l	0.0221	0.0212	88.0	76-131	4.09	20	WG669111
Tetrachloroethene	mg/l	0.0210	0.0198	84.0	69-131	5.68	20	WG669111
Toluene	mg/l	0.0236	0.0227	94.0	75-114	4.05	20	WG669111
trans-1,2-Dichloroethene	mg/l	0.0235	0.0232	94.0	63-127	1.13	20	WG669111

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Quality Assurance Report
Level II

L643470

July 02, 2013

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Trichloroethene	mg/l	0.0228	0.0218	91.0	69-131	4.60	20	WG669111
Trichlorofluoromethane	mg/l	0.0253	0.0235	101.	53-161	7.33	20	WG669111
Vinyl chloride	mg/l	0.0246	0.0237	98.0	55-142	4.01	20	WG669111
4-Bromofluorobenzene				98.28	82-120			WG669111
Dibromofluoromethane				105.7	82-126			WG669111
Toluene-d8				102.5	92-112			WG669111
a,a,a-Trifluorotoluene				102.6	90-116			WG669111
1,1,1,2-Tetrachloroethane	mg/l	0.0238	0.0240	95.0	77-128	0.650	20	WG669110
1,1,1-Trichloroethane	mg/l	0.0241	0.0234	96.0	71-126	2.86	20	WG669110
1,1,2,2-Tetrachloroethane	mg/l	0.0216	0.0219	86.0	78-130	1.48	20	WG669110
1,1,2-Trichloroethane	mg/l	0.0227	0.0232	91.0	81-121	1.84	20	WG669110
1,1-Dichloroethane	mg/l	0.0228	0.0227	91.0	73-123	0.700	20	WG669110
1,1-Dichloroethene	mg/l	0.0206	0.0199	82.0	54-134	3.53	20	WG669110
1,1-Dichloropropene	mg/l	0.0228	0.0223	91.0	67-127	2.14	20	WG669110
1,2,3-Trichlorobenzene	mg/l	0.0254	0.0253	102.	77-130	0.170	20	WG669110
1,2,3-Trichloropropane	mg/l	0.0225	0.0236	90.0	68-130	4.69	20	WG669110
1,2,4-Trichlorobenzene	mg/l	0.0261	0.0258	104.	76-127	1.12	20	WG669110
1,2,4-Trimethylbenzene	mg/l	0.0228	0.0232	91.0	77-129	1.86	20	WG669110
1,2-Dibromo-3-Chloropropane	mg/l	0.0218	0.0220	87.0	55-142	1.29	20	WG669110
1,2-Dibromoethane	mg/l	0.0229	0.0235	91.0	78-124	2.94	20	WG669110
1,2-Dichlorobenzene	mg/l	0.0235	0.0232	94.0	82-121	1.26	20	WG669110
1,2-Dichloroethane	mg/l	0.0250	0.0241	100.	69-128	3.91	20	WG669110
1,2-Dichloropropane	mg/l	0.0230	0.0227	92.0	77-121	1.24	20	WG669110
1,3,5-Trimethylbenzene	mg/l	0.0232	0.0235	93.0	78-127	0.890	20	WG669110
1,3-Dichlorobenzene	mg/l	0.0235	0.0236	94.0	77-127	0.670	20	WG669110
1,3-Dichloropropane	mg/l	0.0226	0.0228	90.0	78-117	1.18	20	WG669110
1,4-Dichlorobenzene	mg/l	0.0233	0.0229	93.0	79-117	1.80	20	WG669110
2,2-Dichloropropane	mg/l	0.0242	0.0240	97.0	63-130	0.760	20	WG669110
2-Butanone (MEK)	mg/l	0.102	0.0988	82.0	58-144	3.52	20	WG669110
2-Chlorotoluene	mg/l	0.0229	0.0232	91.0	78-123	1.39	20	WG669110
4-Chlorotoluene	mg/l	0.0228	0.0230	91.0	78-122	0.880	20	WG669110
4-Methyl-2-pentanone (MIBK)	mg/l	0.120	0.121	96.0	58-147	0.590	20	WG669110
Acetone	mg/l	0.0918	0.0891	73.0	49-153	2.94	21	WG669110
Acrolein	mg/l	0.0910	0.0867	73.0	10-181	4.86	30	WG669110
Acrylonitrile	mg/l	0.108	0.105	86.0	53-153	3.18	20	WG669110
Benzene	mg/l	0.0218	0.0213	87.0	72-119	2.33	20	WG669110
Bromobenzene	mg/l	0.0231	0.0231	92.0	76-121	0	20	WG669110
Bromodichloromethane	mg/l	0.0238	0.0239	95.0	75-127	0.470	20	WG669110
Bromoform	mg/l	0.0238	0.0250	95.0	61-136	4.71	20	WG669110
Bromomethane	mg/l	0.0202	0.0202	81.0	42-172	0.0700	20	WG669110
Carbon tetrachloride	mg/l	0.0244	0.0241	97.0	63-129	1.21	20	WG669110
Chlorobenzene	mg/l	0.0221	0.0226	88.0	78-123	2.33	20	WG669110
Chlorodibromomethane	mg/l	0.0230	0.0237	92.0	73-128	2.97	20	WG669110
Chloroethane	mg/l	0.0226	0.0222	90.0	52-164	1.71	20	WG669110
Chloroform	mg/l	0.0238	0.0233	95.0	76-122	2.18	20	WG669110
Chloromethane	mg/l	0.0228	0.0225	91.0	50-141	1.15	20	WG669110
cis-1,2-Dichloroethene	mg/l	0.0217	0.0215	87.0	75-121	0.540	20	WG669110
Di-isopropylether	mg/l	0.0236	0.0229	94.0	66-129	3.02	20	WG669110
Dibromomethane	mg/l	0.0241	0.0237	96.0	77-124	1.58	20	WG669110
Dichlorodifluoromethane	mg/l	0.0259	0.0259	103.	33-173	0.100	20	WG669110
Ethylbenzene	mg/l	0.0226	0.0233	90.0	77-124	3.25	20	WG669110
Hexachloro-1,3-butadiene	mg/l	0.0250	0.0253	100.	71-134	0.980	20	WG669110
Isopropylbenzene	mg/l	0.0249	0.0254	100.	74-126	2.14	20	WG669110
m&p-Xylenes	mg/l	0.0452	0.0465	90.0	76-123	2.83	20	WG669110
Methyl tert-butyl ether	mg/l	0.0230	0.0227	92.0	67-127	1.62	20	WG669110
Methylene Chloride	mg/l	0.0210	0.0205	84.0	67-122	2.32	20	WG669110
n-Butylbenzene	mg/l	0.0241	0.0237	96.0	74-130	1.47	20	WG669110

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Est. 1970

TerraQuest Environmental Consultants PC
Mr. Michael Brown
100 East Ruffin Street

Mebane, NC 27302

Quality Assurance Report
Level II

L643470

July 02, 2013

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	RPD	Limit	Batch
n-Propylbenzene	mg/l	0.0235	0.0237	94.0	77-125	0.880	20	WG669110
Naphthalene	mg/l	0.0249	0.0250	100.	70-134	0.160	20	WG669110
o-Xylene	mg/l	0.0227	0.0230	91.0	77-125	1.22	20	WG669110
p-Isopropyltoluene	mg/l	0.0236	0.0241	94.0	77-132	1.98	20	WG669110
sec-Butylbenzene	mg/l	0.0232	0.0235	93.0	77-130	1.37	20	WG669110
Styrene	mg/l	0.0235	0.0239	94.0	69-145	1.81	20	WG669110
tert-Butylbenzene	mg/l	0.0230	0.0236	92.0	76-131	2.23	20	WG669110
Tetrachloroethene	mg/l	0.0231	0.0241	92.0	69-131	4.17	20	WG669110
Toluene	mg/l	0.0229	0.0227	91.0	75-114	0.580	20	WG669110
trans-1,2-Dichloroethene	mg/l	0.0217	0.0210	87.0	63-127	3.37	20	WG669110
Trichloroethene	mg/l	0.0229	0.0228	92.0	69-131	0.390	20	WG669110
Trichlorofluoromethane	mg/l	0.0254	0.0249	102.	53-161	2.01	20	WG669110
Vinyl chloride	mg/l	0.0207	0.0204	83.0	55-142	1.81	20	WG669110
4-Bromofluorobenzene				98.77	82-120			WG669110
Dibromofluoromethane				101.0	82-126			WG669110
Toluene-d8				101.7	92-112			WG669110
a,a,a-Trifluorotoluene				105.6	90-116			WG669110
Methyl tert-butyl ether	mg/l	0.0256	0.0239	102.	67-127	6.50	20	WG669933
4-Bromofluorobenzene				96.81	82-120			WG669933
Dibromofluoromethane				101.7	82-126			WG669933
Toluene-d8				106.2	92-112			WG669933
a,a,a-Trifluorotoluene				106.8	90-116			WG669933

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0221	0	.025	88.4	71-130	L643470-10	WG669111
1,1,1-Trichloroethane	mg/l	0.0248	0	.025	99.2	58-137	L643470-10	WG669111
1,1,2,2-Tetrachloroethane	mg/l	0.0225	0	.025	90.0	64-149	L643470-10	WG669111
1,1,2-Trichloroethane	mg/l	0.0223	0	.025	89.2	73-128	L643470-10	WG669111
1,1-Dichloroethane	mg/l	0.0250	0	.025	100.	58-133	L643470-10	WG669111
1,1-Dichloroethene	mg/l	0.0231	0	.025	92.4	32-152	L643470-10	WG669111
1,1-Dichloropropene	mg/l	0.0243	0	.025	97.2	50-140	L643470-10	WG669111
1,2,3-Trichlorobenzene	mg/l	0.0224	0	.025	89.7	68-135	L643470-10	WG669111
1,2,3-Trichloropropane	mg/l	0.0237	0	.025	94.9	74-137	L643470-10	WG669111
1,2,4-Trichlorobenzene	mg/l	0.0236	0	.025	94.4	67-133	L643470-10	WG669111
1,2,4-Trimethylbenzene	mg/l	0.0215	0	.025	86.0	62-141	L643470-10	WG669111
1,2-Dibromo-3-Chloropropane	mg/l	0.0227	0	.025	90.8	55-148	L643470-10	WG669111
1,2-Dibromoethane	mg/l	0.0219	0	.025	87.5	71-129	L643470-10	WG669111
1,2-Dichlorobenzene	mg/l	0.0216	0	.025	86.5	75-125	L643470-10	WG669111
1,2-Dichloroethane	mg/l	0.0237	0	.025	94.9	59-135	L643470-10	WG669111
1,2-Dichloropropane	mg/l	0.0245	0	.025	97.9	68-126	L643470-10	WG669111
1,3,5-Trimethylbenzene	mg/l	0.0222	0	.025	88.6	67-136	L643470-10	WG669111
1,3-Dichlorobenzene	mg/l	0.0219	0	.025	87.7	69-131	L643470-10	WG669111
1,3-Dichloropropane	mg/l	0.0217	0	.025	86.9	70-122	L643470-10	WG669111
1,4-Dichlorobenzene	mg/l	0.0220	0	.025	87.9	70-123	L643470-10	WG669111
2,2-Dichloropropane	mg/l	0.0266	0	.025	106.	51-141	L643470-10	WG669111
2-Butanone (MEK)	mg/l	0.114	0	.125	90.9	51-149	L643470-10	WG669111
2-Chlorotoluene	mg/l	0.0218	0	.025	87.2	65-133	L643470-10	WG669111
4-Chlorotoluene	mg/l	0.0217	0	.025	86.8	67-129	L643470-10	WG669111
4-Methyl-2-pentanone (MIBK)	mg/l	0.138	0	.125	110.	53-154	L643470-10	WG669111
Acetone	mg/l	0.0708	0.00732	.125	50.8	34-146	L643470-10	WG669111
Acrolein	mg/l	0.119	0	.125	95.5	10-189	L643470-10	WG669111
Acrylonitrile	mg/l	0.132	0	.125	106.	49-162	L643470-10	WG669111
Benzene	mg/l	0.0242	0	.025	96.6	51-134	L643470-10	WG669111
Bromobenzene	mg/l	0.0215	0	.025	86.1	64-130	L643470-10	WG669111
Bromodichloromethane	mg/l	0.0235	0	.025	94.0	67-132	L643470-10	WG669111

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Quality Assurance Report
Level II

L643470

July 02, 2013

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Bromoform	mg/l	0.0236	0	.025	94.6	59-137	L643470-10	WG669111
Bromomethane	mg/l	0.0302	0	.025	121.	23-177	L643470-10	WG669111
Carbon tetrachloride	mg/l	0.0251	0	.025	100.	49-140	L643470-10	WG669111
Chlorobenzene	mg/l	0.0212	0	.025	84.9	69-126	L643470-10	WG669111
Chlorodibromomethane	mg/l	0.0224	0	.025	89.5	68-130	L643470-10	WG669111
Chloroethane	mg/l	0.0247	0	.025	98.8	32-177	L643470-10	WG669111
Chloroform	mg/l	0.0253	0	.025	101.	64-130	L643470-10	WG669111
Chloromethane	mg/l	0.0268	0	.025	107.	27-155	L643470-10	WG669111
cis-1,2-Dichloroethene	mg/l	0.0238	0	.025	95.1	54-137	L643470-10	WG669111
Di-isopropyl ether	mg/l	0.0277	0	.025	111.	58-133	L643470-10	WG669111
Dibromomethane	mg/l	0.0248	0	.025	99.2	68-131	L643470-10	WG669111
Dichlorodifluoromethane	mg/l	0.0246	0	.025	98.5	16-188	L643470-10	WG669111
Ethylbenzene	mg/l	0.0217	0	.025	86.9	64-135	L643470-10	WG669111
Hexachloro-1,3-butadiene	mg/l	0.0204	0	.025	81.6	64-140	L643470-10	WG669111
Isopropylbenzene	mg/l	0.0239	0	.025	95.6	62-134	L643470-10	WG669111
m&p-Xylenes	mg/l	0.0427	0	.05	85.3	62-135	L643470-10	WG669111
Methyl tert-butyl ether	mg/l	0.0495	0.0213	.025	113.	55-136	L643470-10	WG669111
Methylene Chloride	mg/l	0.0224	0	.025	89.7	52-130	L643470-10	WG669111
n-Butylbenzene	mg/l	0.0232	0	.025	92.8	62-142	L643470-10	WG669111
n-Propylbenzene	mg/l	0.0227	0	.025	90.8	62-137	L643470-10	WG669111
Naphthalene	mg/l	0.0211	0	.025	84.4	65-140	L643470-10	WG669111
o-Xylene	mg/l	0.0213	0	.025	85.1	63-135	L643470-10	WG669111
p-Isopropyltoluene	mg/l	0.0231	0	.025	92.4	64-142	L643470-10	WG669111
sec-Butylbenzene	mg/l	0.0227	0	.025	90.8	67-139	L643470-10	WG669111
Styrene	mg/l	0.0227	0	.025	90.9	58-152	L643470-10	WG669111
tert-Butylbenzene	mg/l	0.0222	0	.025	88.8	66-139	L643470-10	WG669111
Tetrachloroethene	mg/l	0.0208	0	.025	83.1	56-139	L643470-10	WG669111
Toluene	mg/l	0.0236	0	.025	94.4	61-126	L643470-10	WG669111
trans-1,2-Dichloroethene	mg/l	0.0228	0	.025	91.1	45-137	L643470-10	WG669111
Trichloroethene	mg/l	0.0225	0	.025	90.0	40-155	L643470-10	WG669111
Trichlorofluoromethane	mg/l	0.0267	0	.025	107.	35-177	L643470-10	WG669111
Vinyl chloride	mg/l	0.0250	0	.025	100.	32-159	L643470-10	WG669111
4-Bromofluorobenzene					94.41	82-120		WG669111
Dibromofluoromethane					106.1	82-126		WG669111
Toluene-d8					101.6	92-112		WG669111
a,a,a-Trifluorotoluene					102.7	90-116		WG669111
1,1,1,2-Tetrachloroethane	mg/l	0.0224	0	.025	89.4	71-130	L643435-21	WG669110
1,1,1-Trichloroethane	mg/l	0.0231	0	.025	92.4	58-137	L643435-21	WG669110
1,1,2,2-Tetrachloroethane	mg/l	0.0202	0	.025	80.8	64-149	L643435-21	WG669110
1,1,2-Trichloroethane	mg/l	0.0213	0	.025	85.2	73-128	L643435-21	WG669110
1,1-Dichloroethane	mg/l	0.0218	0	.025	87.1	58-133	L643435-21	WG669110
1,1-Dichloroethene	mg/l	0.0195	0	.025	78.1	32-152	L643435-21	WG669110
1,1-Dichloropropene	mg/l	0.0217	0	.025	86.8	50-140	L643435-21	WG669110
1,2,3-Trichlorobenzene	mg/l	0.0216	0	.025	86.5	68-135	L643435-21	WG669110
1,2,3-Trichloropropane	mg/l	0.0213	0	.025	85.2	74-137	L643435-21	WG669110
1,2,4-Trichlorobenzene	mg/l	0.0235	0	.025	94.0	67-133	L643435-21	WG669110
1,2,4-Trimethylbenzene	mg/l	0.0211	0	.025	84.5	62-141	L643435-21	WG669110
1,2-Dibromo-3-Chloropropane	mg/l	0.0211	0	.025	84.6	55-148	L643435-21	WG669110
1,2-Dibromoethane	mg/l	0.0213	0	.025	85.1	71-129	L643435-21	WG669110
1,2-Dichlorobenzene	mg/l	0.0216	0	.025	86.3	75-125	L643435-21	WG669110
1,2-Dichloroethane	mg/l	0.0232	0	.025	92.8	59-135	L643435-21	WG669110
1,2-Dichloropropane	mg/l	0.0213	0	.025	85.2	68-126	L643435-21	WG669110
1,3,5-Trimethylbenzene	mg/l	0.0214	0	.025	85.5	67-136	L643435-21	WG669110
1,3-Dichlorobenzene	mg/l	0.0217	0	.025	86.8	69-131	L643435-21	WG669110
1,3-Dichloropropane	mg/l	0.0209	0	.025	83.7	70-122	L643435-21	WG669110
1,4-Dichlorobenzene	mg/l	0.0220	0	.025	87.8	70-123	L643435-21	WG669110
2,2-Dichloropropane	mg/l	0.0235	0	.025	94.2	51-141	L643435-21	WG669110

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July 02, 2013

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
2-Butanone (MEK)	mg/l	0.0831	0	.125	66.5	51-149	L643435-21	WG669110
2-Chlorotoluene	mg/l	0.0206	0	.025	82.4	65-133	L643435-21	WG669110
4-Chlorotoluene	mg/l	0.0212	0	.025	84.8	67-129	L643435-21	WG669110
4-Methyl-2-pentanone (MIBK)	mg/l	0.110	0	.125	88.4	53-154	L643435-21	WG669110
Acetone	mg/l	0.0578	0.00277	.125	44.1	34-146	L643435-21	WG669110
Acrolein	mg/l	0.120	0	.125	95.9	10-189	L643435-21	WG669110
Acrylonitrile	mg/l	0.0996	0	.125	79.6	49-162	L643435-21	WG669110
Benzene	mg/l	0.0204	0	.025	81.7	51-134	L643435-21	WG669110
Bromobenzene	mg/l	0.0213	0	.025	85.4	64-130	L643435-21	WG669110
Bromodichloromethane	mg/l	0.0229	0	.025	91.4	67-132	L643435-21	WG669110
Bromoform	mg/l	0.0225	0	.025	89.9	59-137	L643435-21	WG669110
Bromomethane	mg/l	0.0183	0	.025	73.4	23-177	L643435-21	WG669110
Carbon tetrachloride	mg/l	0.0233	0	.025	93.1	49-140	L643435-21	WG669110
Chlorobenzene	mg/l	0.0209	0	.025	83.6	69-126	L643435-21	WG669110
Chlorodibromomethane	mg/l	0.0214	0	.025	85.5	68-130	L643435-21	WG669110
Chloroethane	mg/l	0.0226	0	.025	90.5	32-177	L643435-21	WG669110
Chloroform	mg/l	0.0224	0	.025	89.6	64-130	L643435-21	WG669110
Chloromethane	mg/l	0.0214	0	.025	85.7	27-155	L643435-21	WG669110
cis-1,2-Dichloroethene	mg/l	0.0206	0	.025	82.6	54-137	L643435-21	WG669110
Di-isopropyl ether	mg/l	0.0220	0	.025	88.0	58-133	L643435-21	WG669110
Dibromomethane	mg/l	0.0226	0	.025	90.4	68-131	L643435-21	WG669110
Dichlorodifluoromethane	mg/l	0.0262	0	.025	105.	16-188	L643435-21	WG669110
Ethylbenzene	mg/l	0.0214	0	.025	85.6	64-135	L643435-21	WG669110
Hexachloro-1,3-butadiene	mg/l	0.0212	0	.025	84.7	64-140	L643435-21	WG669110
Isopropylbenzene	mg/l	0.0231	0	.025	92.6	62-134	L643435-21	WG669110
m&p-Xylenes	mg/l	0.0427	0	.05	85.4	62-135	L643435-21	WG669110
Methyl tert-butyl ether	mg/l	0.0217	0	.025	86.9	55-136	L643435-21	WG669110
Methylene Chloride	mg/l	0.0199	0	.025	79.7	52-130	L643435-21	WG669110
n-Butylbenzene	mg/l	0.0220	0	.025	88.2	62-142	L643435-21	WG669110
n-Propylbenzene	mg/l	0.0216	0	.025	86.5	62-137	L643435-21	WG669110
Naphthalene	mg/l	0.0220	0.000498	.025	86.1	65-140	L643435-21	WG669110
o-Xylene	mg/l	0.0211	0	.025	84.3	63-135	L643435-21	WG669110
p-Isopropyltoluene	mg/l	0.0217	0	.025	86.6	64-142	L643435-21	WG669110
sec-Butylbenzene	mg/l	0.0209	0	.025	83.5	67-139	L643435-21	WG669110
Styrene	mg/l	0.0218	0	.025	87.4	58-152	L643435-21	WG669110
tert-Butylbenzene	mg/l	0.0211	0	.025	84.3	66-139	L643435-21	WG669110
Tetrachloroethene	mg/l	0.0221	0	.025	88.2	56-139	L643435-21	WG669110
Toluene	mg/l	0.0214	0	.025	85.7	61-126	L643435-21	WG669110
trans-1,2-Dichloroethene	mg/l	0.0206	0	.025	82.4	45-137	L643435-21	WG669110
Trichloroethene	mg/l	0.0215	0	.025	86.2	40-155	L643435-21	WG669110
Trichlorofluoromethane	mg/l	0.0244	0	.025	97.6	35-177	L643435-21	WG669110
Vinyl chloride	mg/l	0.0201	0	.025	80.5	32-159	L643435-21	WG669110
4-Bromofluorobenzene					97.06	82-120		WG669110
Dibromofluoromethane					104.3	82-126		WG669110
Toluene-d8					101.6	92-112		WG669110
a,a,a-Trifluorotoluene					106.0	90-116		WG669110
Methyl tert-butyl ether	mg/l	0.0586	0.0328	.025	103.	55-136	L643228-01	WG669933
4-Bromofluorobenzene					98.22	82-120		WG669933
Dibromofluoromethane					104.4	82-126		WG669933
Toluene-d8					105.8	92-112		WG669933
a,a,a-Trifluorotoluene					108.1	90-116		WG669933

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0222	0.0221	88.8	71-130	0.540	20	L643470-10	WG669111
1,1,1-Trichloroethane	mg/l	0.0256	0.0248	102.	58-137	3.11	20	L643470-10	WG669111

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Mr. Michael Brown
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Mebane, NC 27302

Quality Assurance Report
Level II

L643470

July 02, 2013

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,2,2-Tetrachloroethane	mg/l	0.0225	0.0225	90.1	64-149	0.120	20	L643470-10	WG669111
1,1,2-Trichloroethane	mg/l	0.0223	0.0223	89.2	73-128	0.0300	20	L643470-10	WG669111
1,1-Dichloroethane	mg/l	0.0250	0.0250	100.	58-133	0.0300	20	L643470-10	WG669111
1,1-Dichloroethene	mg/l	0.0218	0.0231	87.1	32-152	5.87	20	L643470-10	WG669111
1,1-Dichloropropene	mg/l	0.0243	0.0243	97.0	50-140	0.160	20	L643470-10	WG669111
1,2,3-Trichlorobenzene	mg/l	0.0224	0.0224	89.6	68-135	0.120	20	L643470-10	WG669111
1,2,3-Trichloropropane	mg/l	0.0235	0.0237	94.2	74-137	0.810	20	L643470-10	WG669111
1,2,4-Trichlorobenzene	mg/l	0.0233	0.0236	93.4	67-133	1.03	20	L643470-10	WG669111
1,2,4-Trimethylbenzene	mg/l	0.0218	0.0215	87.2	62-141	1.35	20	L643470-10	WG669111
1,2-Dibromo-3-Chloropropane	mg/l	0.0224	0.0227	89.6	55-148	1.35	22	L643470-10	WG669111
1,2-Dibromoethane	mg/l	0.0220	0.0219	87.9	71-129	0.510	20	L643470-10	WG669111
1,2-Dichlorobenzene	mg/l	0.0221	0.0216	88.4	75-125	2.20	20	L643470-10	WG669111
1,2-Dichloroethane	mg/l	0.0239	0.0237	95.7	59-135	0.790	20	L643470-10	WG669111
1,2-Dichloropropane	mg/l	0.0247	0.0245	98.6	68-126	0.750	20	L643470-10	WG669111
1,3,5-Trimethylbenzene	mg/l	0.0225	0.0222	90.2	67-136	1.73	20	L643470-10	WG669111
1,3-Dichlorobenzene	mg/l	0.0221	0.0219	88.4	69-131	0.780	20	L643470-10	WG669111
1,3-Dichloropropane	mg/l	0.0221	0.0217	88.4	70-122	1.74	20	L643470-10	WG669111
1,4-Dichlorobenzene	mg/l	0.0223	0.0220	89.4	70-123	1.67	20	L643470-10	WG669111
2,2-Dichloropropane	mg/l	0.0258	0.0266	103.	51-141	2.78	20	L643470-10	WG669111
2-Butanone (MEK)	mg/l	0.112	0.114	89.7	51-149	1.33	22	L643470-10	WG669111
2-Chlorotoluene	mg/l	0.0221	0.0218	88.5	65-133	1.48	20	L643470-10	WG669111
4-Chlorotoluene	mg/l	0.0220	0.0217	88.0	67-129	1.29	20	L643470-10	WG669111
4-Methyl-2-pentanone (MIBK)	mg/l	0.134	0.138	107.	53-154	2.44	21	L643470-10	WG669111
Acetone	mg/l	0.0683	0.0708	48.8	34-146	3.58	22	L643470-10	WG669111
Acrolein	mg/l	0.115	0.119	92.2	10-189	3.54	30	L643470-10	WG669111
Acrylonitrile	mg/l	0.130	0.132	104.	49-162	1.42	20	L643470-10	WG669111
Benzene	mg/l	0.0243	0.0242	97.0	51-134	0.400	20	L643470-10	WG669111
Bromobenzene	mg/l	0.0220	0.0215	88.0	64-130	2.18	20	L643470-10	WG669111
Bromodichloromethane	mg/l	0.0241	0.0235	96.4	67-132	2.57	20	L643470-10	WG669111
Bromoform	mg/l	0.0243	0.0236	97.3	59-137	2.85	20	L643470-10	WG669111
Bromomethane	mg/l	0.0296	0.0302	118.	23-177	2.03	21	L643470-10	WG669111
Carbon tetrachloride	mg/l	0.0248	0.0251	99.1	49-140	1.42	20	L643470-10	WG669111
Chlorobenzene	mg/l	0.0217	0.0212	86.6	69-126	2.02	20	L643470-10	WG669111
Chlorodibromomethane	mg/l	0.0222	0.0224	88.9	68-130	0.640	20	L643470-10	WG669111
Chloroethane	mg/l	0.0248	0.0247	99.2	32-177	0.390	21	L643470-10	WG669111
Chloroform	mg/l	0.0251	0.0253	100.	64-130	1.04	20	L643470-10	WG669111
Chloromethane	mg/l	0.0262	0.0268	105.	27-155	2.54	20	L643470-10	WG669111
cis-1,2-Dichloroethene	mg/l	0.0235	0.0238	94.1	54-137	1.05	20	L643470-10	WG669111
Di-isopropyl ether	mg/l	0.0278	0.0277	111.	50-133	0.400	20	L643470-10	WG669111
Dibromomethane	mg/l	0.0242	0.0248	96.7	68-131	2.52	20	L643470-10	WG669111
Dichlorodifluoromethane	mg/l	0.0237	0.0246	94.7	16-188	3.99	22	L643470-10	WG669111
Ethylbenzene	mg/l	0.0223	0.0217	89.3	64-135	2.77	20	L643470-10	WG669111
Hexachloro-1,3-butadiene	mg/l	0.0182	0.0204	72.9	64-140	11.2	20	L643470-10	WG669111
Isopropylbenzene	mg/l	0.0241	0.0239	96.3	62-134	0.700	20	L643470-10	WG669111
m&p-Xylenes	mg/l	0.0434	0.0427	86.9	62-135	1.77	20	L643470-10	WG669111
Methyl tert-butyl ether	mg/l	0.0471	0.0495	103.	55-136	4.95	20	L643470-10	WG669111
Methylene Chloride	mg/l	0.0223	0.0224	89.2	52-130	0.510	20	L643470-10	WG669111
n-Butylbenzene	mg/l	0.0234	0.0232	93.5	62-142	0.680	20	L643470-10	WG669111
n-Propylbenzene	mg/l	0.0230	0.0227	91.9	62-137	1.21	20	L643470-10	WG669111
Naphthalene	mg/l	0.0221	0.0211	88.5	65-140	4.69	20	L643470-10	WG669111
o-Xylene	mg/l	0.0218	0.0213	87.2	63-135	2.52	20	L643470-10	WG669111
p-Isopropyltoluene	mg/l	0.0227	0.0231	91.0	64-142	1.57	20	L643470-10	WG669111
sec-Butylbenzene	mg/l	0.0226	0.0227	90.4	67-139	0.510	20	L643470-10	WG669111
Styrene	mg/l	0.0230	0.0227	91.9	58-152	1.16	20	L643470-10	WG669111
tert-Butylbenzene	mg/l	0.0223	0.0222	89.3	66-139	0.480	20	L643470-10	WG669111
Tetrachloroethene	mg/l	0.0211	0.0208	84.4	56-139	1.60	20	L643470-10	WG669111
Toluene	mg/l	0.0236	0.0236	94.5	61-126	0.180	20	L643470-10	WG669111
trans-1,2-Dichloroethene	mg/l	0.0224	0.0228	89.5	45-137	1.74	20	L643470-10	WG669111
Trichloroethene	mg/l	0.0224	0.0225	89.6	40-155	0.480	20	L643470-10	WG669111

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Quality Assurance Report
Level II

L643470

July 02, 2013

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Trichlorofluoromethane	mg/l	0.0262	0.0267	105.	35-177	1.84	23	L643470-10	WG669111
Vinyl chloride	mg/l	0.0248	0.0250	99.1	32-159	0.940	21	L643470-10	WG669111
4-Bromofluorobenzene				93.91	82-120				WG669111
Dibromofluoromethane				104.0	82-126				WG669111
Toluene-d8				101.9	92-112				WG669111
a,a,a-Trifluorotoluene				102.8	90-116				WG669111
1,1,1,2-Tetrachloroethane	mg/l	0.0229	0.0224	91.5	71-130	2.32	20	L643435-21	WG669110
1,1,1-Trichloroethane	mg/l	0.0240	0.0231	95.9	58-137	3.67	20	L643435-21	WG669110
1,1,2,2-Tetrachloroethane	mg/l	0.0220	0.0202	87.8	64-149	8.27	20	L643435-21	WG669110
1,1,2-Trichloroethane	mg/l	0.0229	0.0213	91.7	73-128	7.35	20	L643435-21	WG669110
1,1-Dichloroethane	mg/l	0.0226	0.0218	90.6	58-133	3.91	20	L643435-21	WG669110
1,1-Dichloroethene	mg/l	0.0205	0.0195	81.9	32-152	4.75	20	L643435-21	WG669110
1,1-Dichloropropene	mg/l	0.0223	0.0217	89.3	50-140	2.82	20	L643435-21	WG669110
1,2,3-Trichlorobenzene	mg/l	0.0219	0.0216	87.7	68-135	1.42	20	L643435-21	WG669110
1,2,3-Trichloropropane	mg/l	0.0230	0.0213	92.0	74-137	7.71	20	L643435-21	WG669110
1,2,4-Trichlorobenzene	mg/l	0.0233	0.0235	93.3	67-133	0.770	20	L643435-21	WG669110
1,2,4-Trimethylbenzene	mg/l	0.0217	0.0211	86.9	62-141	2.76	20	L643435-21	WG669110
1,2-Dibromo-3-Chloropropane	mg/l	0.0230	0.0211	91.8	55-148	8.20	22	L643435-21	WG669110
1,2-Dibromoethane	mg/l	0.0228	0.0213	91.3	71-129	7.09	20	L643435-21	WG669110
1,2-Dichlorobenzene	mg/l	0.0222	0.0216	88.9	75-125	2.96	20	L643435-21	WG669110
1,2-Dichloroethane	mg/l	0.0244	0.0232	97.5	59-135	5.00	20	L643435-21	WG669110
1,2-Dichloropropane	mg/l	0.0226	0.0213	90.3	68-126	5.84	20	L643435-21	WG669110
1,3,5-Trimethylbenzene	mg/l	0.0216	0.0214	86.6	67-136	1.30	20	L643435-21	WG669110
1,3-Dichlorobenzene	mg/l	0.0222	0.0217	88.6	69-131	2.04	20	L643435-21	WG669110
1,3-Dichloropropane	mg/l	0.0221	0.0209	88.5	70-122	5.60	20	L643435-21	WG669110
1,4-Dichlorobenzene	mg/l	0.0224	0.0220	89.6	70-123	2.01	20	L643435-21	WG669110
2,2-Dichloropropane	mg/l	0.0243	0.0235	97.2	51-141	3.17	20	L643435-21	WG669110
2-Butanone (MEK)	mg/l	0.0904	0.0831	72.3	51-149	8.44	22	L643435-21	WG669110
2-Chlorotoluene	mg/l	0.0215	0.0206	86.0	65-133	4.30	20	L643435-21	WG669110
4-Chlorotoluene	mg/l	0.0220	0.0212	88.1	67-129	3.89	20	L643435-21	WG669110
4-Methyl-2-pentanone (MIBK)	mg/l	0.124	0.110	99.0	53-154	11.4	21	L643435-21	WG669110
Acetone	mg/l	0.0628	0.0578	48.0	34-146	8.13	22	L643435-21	WG669110
Acrolein	mg/l	0.129	0.120	103.	10-189	6.94	30	L643435-21	WG669110
Acrylonitrile	mg/l	0.111	0.0996	88.8	49-162	10.8	20	L643435-21	WG669110
Benzene	mg/l	0.0212	0.0204	85.0	51-134	3.85	20	L643435-21	WG669110
Bromobenzene	mg/l	0.0220	0.0213	88.2	64-130	3.22	20	L643435-21	WG669110
Bromodichloromethane	mg/l	0.0242	0.0229	96.8	67-132	5.74	20	L643435-21	WG669110
Bromoform	mg/l	0.0239	0.0225	95.7	59-137	6.24	20	L643435-21	WG669110
Bromomethane	mg/l	0.0187	0.0183	74.8	23-177	2.00	21	L643435-21	WG669110
Carbon tetrachloride	mg/l	0.0236	0.0233	94.6	49-140	1.58	20	L643435-21	WG669110
Chlorobenzene	mg/l	0.0215	0.0209	85.8	69-126	2.66	20	L643435-21	WG669110
Chlorodibromomethane	mg/l	0.0226	0.0214	90.2	68-130	5.40	20	L643435-21	WG669110
Chloroethane	mg/l	0.0226	0.0226	90.3	32-177	0.230	21	L643435-21	WG669110
Chloroform	mg/l	0.0236	0.0224	94.5	64-130	5.23	20	L643435-21	WG669110
Chloromethane	mg/l	0.0224	0.0214	89.7	27-155	4.59	20	L643435-21	WG669110
cis-1,2-Dichloroethene	mg/l	0.0214	0.0206	85.4	54-137	3.39	20	L643435-21	WG669110
Di-isopropyl ether	mg/l	0.0233	0.0220	93.4	58-133	5.96	20	L643435-21	WG669110
Dibromomethane	mg/l	0.0245	0.0226	98.0	68-131	8.02	20	L643435-21	WG669110
Dichlorodifluoromethane	mg/l	0.0264	0.0262	106.	16-188	0.750	22	L643435-21	WG669110
Ethylbenzene	mg/l	0.0221	0.0214	88.5	64-135	3.41	20	L643435-21	WG669110
Hexachloro-1,3-butadiene	mg/l	0.0158	0.0212	63.3*	64-140	28.9*	20	L643435-21	WG669110
Isopropylbenzene	mg/l	0.0235	0.0231	94.1	62-134	1.64	20	L643435-21	WG669110
m&p-Xylenes	mg/l	0.0441	0.0427	88.1	62-135	3.14	20	L643435-21	WG669110
Methyl tert-butyl ether	mg/l	0.0231	0.0217	92.3	55-136	6.01	20	L643435-21	WG669110
Methylene Chloride	mg/l	0.0207	0.0199	82.8	52-130	3.79	20	L643435-21	WG669110
n-Butylbenzene	mg/l	0.0210	0.0220	83.9	62-142	4.93	20	L643435-21	WG669110
n-Propylbenzene	mg/l	0.0220	0.0216	87.9	62-137	1.63	20	L643435-21	WG669110

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Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Naphthalene	mg/l	0.0243	0.0220	95.0	65-140	9.73	20	L643435-21	WG669110
o-Xylene	mg/l	0.0221	0.0211	88.2	63-135	4.59	20	L643435-21	WG669110
p-Isopropyltoluene	mg/l	0.0215	0.0217	86.1	64-142	0.640	20	L643435-21	WG669110
sec-Butylbenzene	mg/l	0.0204	0.0209	81.8	67-139	2.09	20	L643435-21	WG669110
Styrene	mg/l	0.0227	0.0218	90.8	58-152	3.79	20	L643435-21	WG669110
tert-Butylbenzene	mg/l	0.0213	0.0211	85.0	66-139	0.830	20	L643435-21	WG669110
Tetrachloroethene	mg/l	0.0228	0.0221	91.0	56-139	3.13	20	L643435-21	WG669110
Toluene	mg/l	0.0222	0.0214	88.8	61-126	3.56	20	L643435-21	WG669110
trans-1,2-Dichloroethene	mg/l	0.0215	0.0206	85.8	45-137	4.06	20	L643435-21	WG669110
Trichloroethene	mg/l	0.0227	0.0215	90.7	40-155	5.14	20	L643435-21	WG669110
Trichlorofluoromethane	mg/l	0.0250	0.0244	100.	35-177	2.56	23	L643435-21	WG669110
Vinyl chloride	mg/l	0.0205	0.0201	81.9	32-159	1.68	21	L643435-21	WG669110
4-Bromofluorobenzene				97.42	82-120				WG669110
Dibromofluoromethane				103.2	82-126				WG669110
Toluene-d8				103.2	92-112				WG669110
a,a,a-Trifluorotoluene				106.5	90-116				WG669110
Methyl tert-butyl ether	mg/l	0.0590	0.0586	104.	55-136	0.660	20	L643228-01	WG669933
4-Bromofluorobenzene				94.51	82-120				WG669933
Dibromofluoromethane				103.5	82-126				WG669933
Toluene-d8				103.9	92-112				WG669933
a,a,a-Trifluorotoluene				105.3	90-116				WG669933

Batch number /Run number / Sample number cross reference

WG669111: R2728880: L643470-10 11 12 13 14 15 16 17 18 19 20
WG669110: R2730102: L643470-01 02 03 04 05 06 07 08 09
WG669933: R2730323: L643470-20

* * Calculations are performed prior to rounding of reported values.
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Quality Assurance Report
Level II

L643470

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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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Alternate billing information:

Report to: Michael Brown

Email to:

Project Description: Paul's Cash Grocery

City/Sate Collected: Raleigh, NC

Phone: (919) 563-9091
FAX: (919) 563-9095

Client Project #: 03403

ESC Key:

Collected by: Andy Wrem

Site/Facility ID#:

P.O.#:

Collected by (signature): Andy Wrem

Immediately Packed on Ice N___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%
___ Three Day.....25%

Date Results Needed:
Email? __No__Yes
FAX? __No__Yes

Analysis/Container/Preservative: 62003/40mL amber VOA/HCl

Chain of Custody Page 1 of 3

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

F095

CoCode: TURENV (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	62003/40mL amber VOA/HCl	Remarks/Contaminant	Sample # (lab only)
PW1	Grab	GW	—	6/24/13	1234	2	X		L693470-01
PW2	↓	↓	↓	↓	1528	2	X		-02
PW9					1304	2	X		-03
PW10					1420	2	X		-04
PW17					1254	2	X		-05
MW1					1446	2	X		-06
MW2					1516	2	X		-07
MW2D					1443	2	X		-08
MW5	✓	✓	✓	✓	1511	2	X		-09

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____ pH _____ Temp _____

Remarks: 5622 3974 5642 Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐	Condition: (lab use only)
Andy Wrem	6/25/13	12:30			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3C / Bottles Received: 40	CoC Seals Intact: Y N NA
Relinquished by: (Signature)	Date: 6/25/13	Time: 17:00	Received for lab by: (Signature)	Date: 6/26/13 / Time: 0930	pH Checked: / NCF:

Company Name/Address:

TerraQuest Environmental Consultants PC

100 East Ruffin Street
Mebane.NC 27302

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
Page 2 of 3

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ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Michael Brown

Email to:

Project Description: Paul's Cash Grocery

City/State Collected: Raleigh, NC

Phone: (919) 563-9091
FAX: (919) 563-9095

Client Project #: 03403

ESC Key:

Collected by: Andy Wrenn

Site/Facility ID#:

P.O.#:

Collected by (signature): Andy Wrenn

Immediately Packed on Ice N___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%
___ Three Day.....25%

Date Results Needed:

Email? __No__Yes
FAX? __No__Yes

CoCode: TURENV (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	624/8260/410mL Amber VOA/HCl					Remarks/Contaminant	Sample # (lab only)
MW6	Grab	GW	—	6/24/13	1503	2	X						L643470-10
MW6D	↓	↓	↓	↓	1507	2	X						-11
MW7					1455	2	X						-12
MW8					1452	2	X						-13
MW10					1433	2	X						-14
MW11					1437	2	X						-15
MW13					1249	2	X						-16
MW13D					1251	2	X						-17
MW14	↓	↓	↓	↓	1244	2	X						-18

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

5622397456 42

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
Andy Wrenn	6/25/13	17:30	[signature]		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.6 / Bottles Received: 40	CoC Seals Intact: Y N NA
[signature]					
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:	pH Checked:	NCF:
[signature]	6/25/13	17:00	[signature]	6/26/13	09:30		

Company Name/Address:

TerraQuest Environmental Consultants PC

100 East Ruffin Street
Mebane.NC 27302

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
Page 3 of 3

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Report to: Michael Brown

Email to:

Project Description: Paul's Cash Grocery

City/Sate Collected: Raleigh, NC

Phone: (919) 563-9091
FAX: (919) 563-9095

Client Project #: 03403

ESC Key:

Collected by: Andy Wrenn

Site/Facility ID#:

P.O.#:

Collected by (signature): Andy Wrenn

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%
___ Three Day.....25%

Date Results Needed:
Email? __No__Yes
FAX? __No__Yes

CoCode: TURENV (lab use only)
Template/Prelogin:
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Remarks/Contaminant	Sample # (lab only)
MW15D	Grab	GW	—	6/24/13	1459	2		2643970-19
RW1	↓	↓	↓	↓	1603	2		-20

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____

5622397245642 Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐	Condition: 5 (lab use only)
Andy Wrenn	6/25/13	12:30	[illegible]		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.6 / Bottles Received: 40 JP	CoC Seals Intact: Y ___ N ___ NA
Relinquished by: (Signature) [illegible]	Date: 6/25/13	Time: 17:08	Received for lab by: (Signature) [illegible]	Date: 6/26/13 / Time: 0930	pH Checked: / NCF: