DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to. Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

W.Z. BAUMGARTNER & ASSOCIATES, INC. / TESTAMERICA, INC.

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: DANIEL PREBONICK Phone: (615) 595-0025 EXT. 156

E-mail: DMP@WZBINC.COM

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
OMNISOURCE SOUTHEAST	1426 WEST MOUNTAIN STREET KERNERSVILLE, NC 27284	3417-TP	.0500	SEPTEMBER 11, 2013

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☐ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify) _____

Notification attached?

☒ No. No groundwater or surface water standards were exceeded.
☐ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

WILLIAM Z. BAUMGARTNER, JR. PRESIDENT (615) 595-0025

Facility Representative Name (Print) Title (Area Code) Telephone Number

Signature 11/22/13 Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA PROFESSIONAL SEAL 17882 ENGINEER W. Z. BAUMGARTNER, JR.

11/22/13

PO BOX 680369 FRANKLIN, TN 37068-0369

Facility Representative Address

C-2883

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

GROUNDWATER MONITORING REPORT

SEPTEMBER 11, 2013
SAMPLING EVENT

OMNISOURCE SOUTHEAST LANDFILL
PERMIT: 3417-TP
KERNERSVILLE, NORTH CAROLINA

NOVEMBER 2013

W. Z. BAUMGARTNER & ASSOCIATES, INC.
Environmental Engineers & Consultants
P. O. Box 680369
Franklin, TN 37068-0369

32015

NORTH CAROLINA PROFESSIONAL SEAL 17882 ENGINEER W. Z. BAUMGARTNER, JR.

11/22/13

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GROUNDWATER MONITORING REPORT
OMNISOURCE SOUTHEAST LANDFILL
KERNERSVILLE, NORTH CAROLINA

NOVEMBER 2013

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GROUNDWATER MONITORING REPORT
OMNISOURCE SOUTHEAST LANDFILL
KERNERSVILLE, NORTH CAROLINA

I. INTRODUCTION

Groundwater monitoring and surface water samples were collected at the Omnisource Southeast Landfill located in Kernersville, Forsyth County, North Carolina on September 11, 2013 by W.Z. Baumgartner & Associates, Inc. (WZB) personnel. The site location is displayed in **Exhibit 1**. The April sampling event was completed following the North Carolina Department of Environment and Natural Resources (NCDENR) approval of the December 2011 revision of the *Sampling and Analysis Plan for Groundwater Monitoring* submitted by WZB in September of 2011. The September event is the fourth sampling of the new groundwater monitoring wells and surface water locations. The monitoring network will continue to be sampled on a semiannual basis as well as during landfill closure, and until notification from NCDENR.

According to the NCDENR permitted solid waste facility list, the Omnisource Southeast Landfill (formerly Atlantic Scrap and Processing, LLC) is identified by permit number 3417-TP. This list identifies the permit status as inactive/closed with a waste type of land clearing/inert debris (LCID). The landfill was established in the early 1970's for the disposal of waste generated during the metal shredding process (shredder residue). Shredder residue consists of primarily non-metallic solid material including plastic, broken glass, rubber, foam rubber, soil and fabric.

The groundwater monitoring network originally consisted of four monitoring wells and installed in 1989 identified as MW-1, MW-2, MW-3 and MW-4. Due to possible vertical changes in water quality MW-4D was installed at a deeper screened interval, and sampled in place of MW-4 beginning in 2001. At the same time up-gradient well MW-1 was replaced with MW-1R to facilitate expanding scrap metal processing activities. The current groundwater monitoring network consists of up-gradient well MW-1R and three new wells identified as MW-12, MW-13, MW-14. Monitoring well MW-12 is located near the toe of the landfill, and MW-13 and MW-14

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are down-gradient from the landfill. The Facility map in **Exhibit 2** provides the location of the new monitoring wells as well as the former groundwater monitoring network.

In addition to the groundwater monitoring wells the network contains two surface water sampling locations identified as SW-1 and SW-2, and are upstream and downstream, respectively. **Exhibit 2** displays the location of both surface water sampling points. **Exhibit 5** contains information regarding groundwater monitoring well and surface water designation, location, elevation, and direction relative to the landfill.

II. BACKGROUND OF SITE GEOLOGY AND HYDROGEOLOGY

Information on site geology and hydrogeology has been obtained based on a past study done by S&ME, Inc. of Greensboro, North Carolina in 1992 and a Landfill Evaluation done by WZB in 1997. In addition to these historical reports the boring logs obtained during the construction of the new groundwater monitoring network provide geologic/hydrogeologic information for the site. Information obtained during the new well construction confirms that provided in historical reports.

Soils

The soil survey for Forsyth County, North Carolina shows the three major soil types on the site including the Cecil Series (CcB), the Pacolet Series (Pa), and the Wedowee-Louisburg Complex (We). These series are described as well-drained, gently sloping to strongly sloping soils on uplands with soils forming in residum that weathered granite, gneiss, schist, and other acidic rocks. In general each series consists of grayish-brown to yellowish-red sandy loam to clay loam on red clay. Soils near MW-12, MW-13, and MW-14 have a higher clay content.

Geology and Hydrogeology

Forsyth County is located entirely within the Piedmont area of North Carolina. This region is characterized by gently rolling hills which formed by defferential erosion of rocks due to local variations in resistance to weathering. The site is located in the Milton Litho-Tectonic Belt, which is made up of metamorphic and igneous rocks. Metamorphic rocks consist of biotite gneiss and schist, potassic feldspar and garnet, interlayered with calcsilicate rocks, mica schist, and amphibolite. There is some amount of erosion near MW-12 on the east slope of the landfill.

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Hydrology

The depth to groundwater at most locations encountered can be correlated with topographic position and permeability. Higher water elevations can generally be found beneath ridge lines and slopes. Lower groundwater elevations can usually be found beneath drainage swales. Minimal variations in water levels over time in monitoring wells near the marshy area (MW-3/MW-4) indicate semi-confined conditions. Water levels in this area have been recorded as below the surface elevation; therefore, the assumption can be made that the aquifer is confined.

III. GROUNDWATER ELEVATIONS AND FLOW

All water levels were recorded within a single 24 hour period before purging commenced on each well, and seemed comparable to historical measurements in the former monitoring network. Groundwater elevations at MW-12 and MW-13 were slightly lower to the levels at the April 2013 sampling event. The level in MW-1R decreased almost 2.5 feet whereas the level in MW-14 had decreased nearly 1 foot. Groundwater flow is to the Northeast, and **Exhibit 3** displays the groundwater contours for the site. Groundwater elevations found in **Exhibit 5** were calculated from the difference between the static water levels measured at each monitoring well on September 11, 2013 and the top of casing elevations surveyed by Triad Land Surveying on May 3, 2012.

IV. GROUNDWATER SAMPLING

Water quality sampling activities and analysis were completed to conform with specifications within the NCDENR Solid Waste Section Guidelines for Groundwater and Surface Water sampling as well as follow the approved WZB sampling and analysis plan. Documentation of field activities and observations can be found in **Exhibit 6**. All monitoring wells were accessible with an off-road vehicle, found to be in good condition, secured with locks, and permanent identification plates were attached on the new wells. **Table 1** lists those approved parameters of interest for the groundwater and surface water monitoring network.

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Table 1. Sampling Parameters - Groundwater Monitoring Wells and Surface Water Locations

Table 1. Sampling Parameters - Groundwater Monitoring Wells and Surface Water Locations	
Volatile Organic Compounds (VOCs) - Method SW846 8260B	
Benzene	1,1-Dichloroethene
Ethylbenzene	cis-1,2-Dichloroethene
Toluene	trans-1,2-Dichloroethene
Xylenes, total	1,3-Dichloropropane
Acetone	1,2-Dichloropropane
Bromobenzene	2,2-Dichloropropane
Bromochloromethane	cis-1,3-Dichloropropene
Bromodichloromethane	trans-1,3-Dichloropropene
Bromoform	1,1-Dichloropropene
Bromomethane	Hexachlorobutadiene
2-Butanone	2-Hexanone
sec-Butylbenzene	Isopropylbenzene
n-Butylbenzene	p-Isopropyltoluene
Tert-Butylbenzene	Methyl tert-Butyl Ether (MTBE)
Carbon disulfide	Methylene Chloride
Carbon Tetrachloride	4-Methyl-2-pentanone
Chlorobenzene	Napthalene
Chlorodibromomethane	n-Propylbenzene
Chloroethane	Styrene
Chloroform	1,1,1,2-Tetrachloroethane
Chloromethane	1,1,2,2-Tetrachloroethane
2-chlorotoluene	Tetrachloroethene
4-chlorotoluene	1,2,3-Trichlorobenzene
1,2-Dibromo-3-chloropropane	1,2,4-Trichlorobenzene
1,2-Dibromomethane (EDB)	1,1,1-Trichloroethane
Dibromomethane	Trichloroethene
1,4-Dichlorobenzene	1,1,2-Trichloroethane
1,3-Dichlorobenzene	Trichlorfluoromethane
1,2-Dichlorobenzene	1,2,3-Trichloropropane
Dichlorodifluoromethane	1,3,5-Trimethylbenzene
1,1-Dichloroethane	1,2,4-Trimethylbenzene
1,2-Dichloroethane	Vinyl Chloride

Table 1. Sampling Parameters - Groundwater Monitoring Wells and Surface Water Locations		
Field Parameters	**Total Metals - Method SW846 6010C**	
pH *	Lead	Antimony
Temperature *	Nickel	Arsenic
Specific Conductivity *	Selenium	Barium
Turbidity *	Silver	Beryllium
Water Elevations *	Thalium	Cadmium
Color and Sheen *	Vanadium	Chromium
	Zinc	Cobalt
		Copper

* measured prior to sampling

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V. GROUNDWATER SAMPLING RESULTS

Barium concentrations were detected in each monitoring well and surface water location below the North Carolina standard of 0.7 mg/L with levels similar to those identified at the past three sampling events. The Field Blank was conducted during sampling MW-13 and MW-14. Zinc was detected throughout the monitoring network as well as in both the Field Blank and TripBlank which may indicate some laboratory interference. **Table 2** summarizes other parameters detected below the NCDENR standards.

Table 2 Analytical Detection Summary

Parameter	Location	SW846 Method	Unit	GW Quality Standard	Exceeds Standard	Previously Detected
Benzene	SW-2, MW-12, MW-13	8260B	µg/L	1	No	Yes
Acetone	Not detected at this event.	8260B	µg/L	6000	No	Yes
Isopropylbenzene	SW-2	8260B	µg/L	70	No	Yes
MTBE	SW-2, MW-12, MW-13	8260B	µg/L	20	No	Yes
Styrene	Not detected at this event.	8260B	µg/L	70	No	Yes
Tetrachloroethene	Not detected at this event.	8260B	µg/L	0.7	No	Yes
Chromium	MW-1R	6010C	mg/L	0.01	No	At MW-1R
Cobalt	MW-12, MW-13, MW-14	6010C	mg/L	Not listed		Yes
Copper	MW-1R	6010C	mg/L	1	No	No
Lead	MW-1R, MW-14	6010C	mg/L	0.015	No	Yes
Nickel	SW-2, MW-12, MW-14	6010C	mg/L	0.1	No	Yes
Zinc	Entire Network	6010C	mg/L	1	No	Yes

Several results indicate Volatile Organic Compounds (VOCs) and metals were detected in groundwater monitoring well and surface water locations at concentrations above minimum detection limits and below each respective reportable limit; therefore, these concentrations are approximate values. No result exceeded a NC groundwater standard. **Exhibit 4** contains a table of all analytical results from this event as well as previous results.

Turbidity measurements were low at all sampling locations except MW-1R which was significantly higher than previous events. The pH reading in MW-1R was very basic which is

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consistent with historical data. Acidic pH readings were recorded in monitoring wells MW-12, MW-13, and MW-14 most likely due to the geology of the site. **Exhibit 6** contains field parameters and results of purging activities. No sheen was present in any groundwater or surface water samples, and other physical characteristics are noted in the field sheets.

The TestAmerica, Inc. (NC Certification 387) analytical report can be found in **Appendix A**. Field Quality Control samples detected parameters of interest mentioned above as well as Chloroform in the Field blank. Chloroform was not associated with any Groundwater or Surfacewater samples. An electronic data deliverable (EDD) will be submitted with an electronic copy of this report.

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EXHIBIT 1

SITE LOCATION MAP

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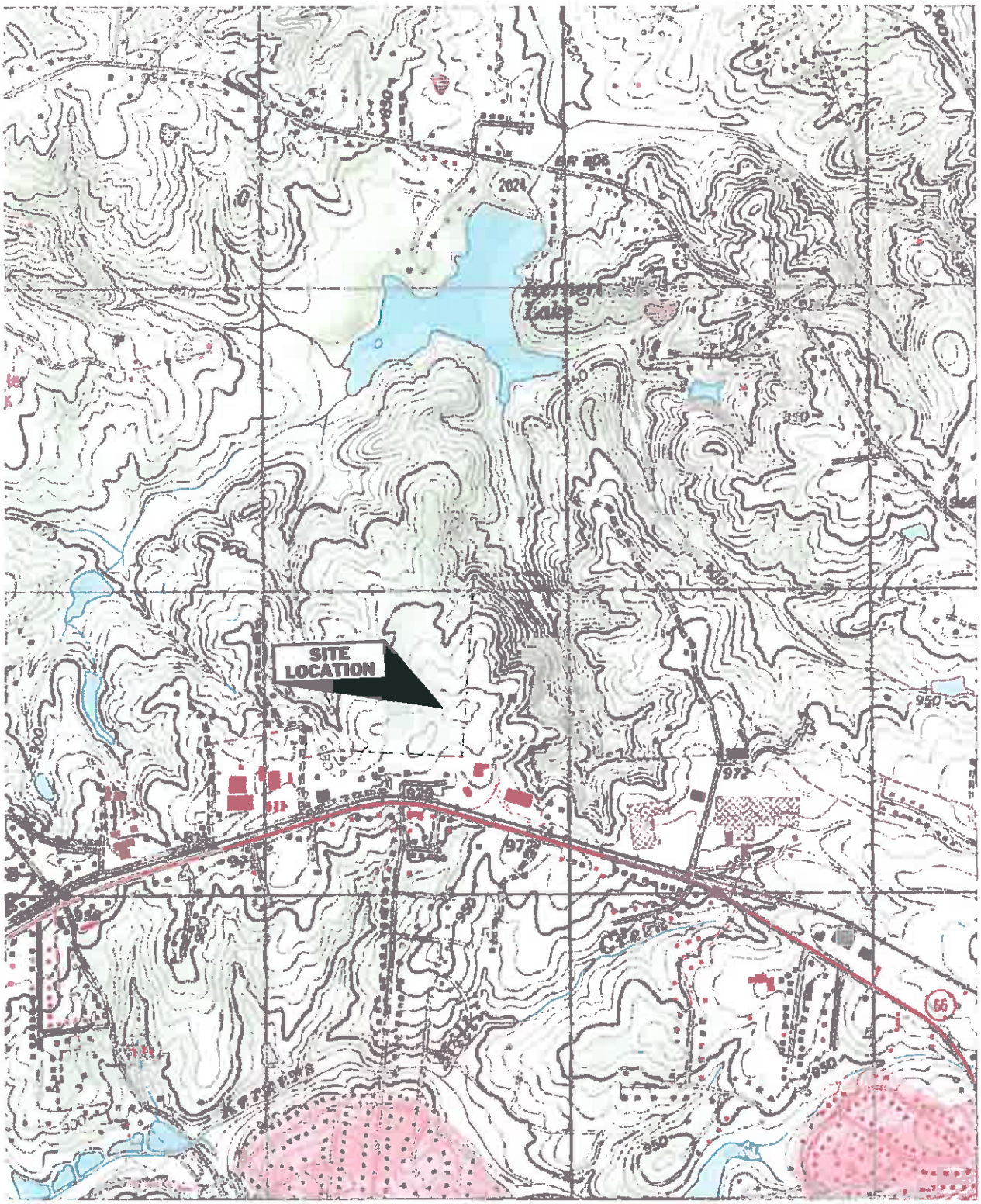

W.Z. BAUMGARTNER & ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS AND CONSULTANTS

1113 MURFREESBORO ROAD
310 WILLIAMSON SQUARE (37064)
P. O. BOX 680369
FRANKLIN, TENNESSEE 37068-0369
615-595-0025

SITE LOCATION MAP

OMNI SOURCE SOUTHEAST

KERNERSVILLE, NORTH CAROLINA

N

USGS MAP(S)
KERNERSVILLE, NORTH CAROLINA
BELEW, NORTH CAROLINA

LAT 36° 08' 16" N
LONG. 80° 06' 08" W
Scale:1"=2000'

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EXHIBIT 2

FACILITY MAP

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SURVEY DATA FOR MW'S WAS TAKEN BY TRIAD LAND SURVEYING,P.C.
SURVEY DATA BASED ON NCGS MONUMENTS "VARCO" & "TOOL".

NO.	REVISIONS	DATE	ENGR
1	ADDED SURVEY INFORMATION FOR MONITORING WELLS	5/8/2012	MET

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

W.Z. BAUMGARTNER & ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS & CONSULTANTS
1113 MURFREESBORO ROAD
SUITE 310 WILLIAMSON SQUARE
FRANKLIN, TENNESSEE
615-595-0025

SEAL:

DRAWN BY: DMP
CHECKED BY: MET
ENGINEER: WZB
DATE: 11/21/2013

FACILITY MAP

OMNISOURCE SOUTHEAST
KERNERSVILLE, NORTH CAROLINA

SCALE: NTS
PROJECT NO.: 32015
EXHIBIT NO: 2

EXHIBIT 3

GROUNDWATER CONTOUR MAP

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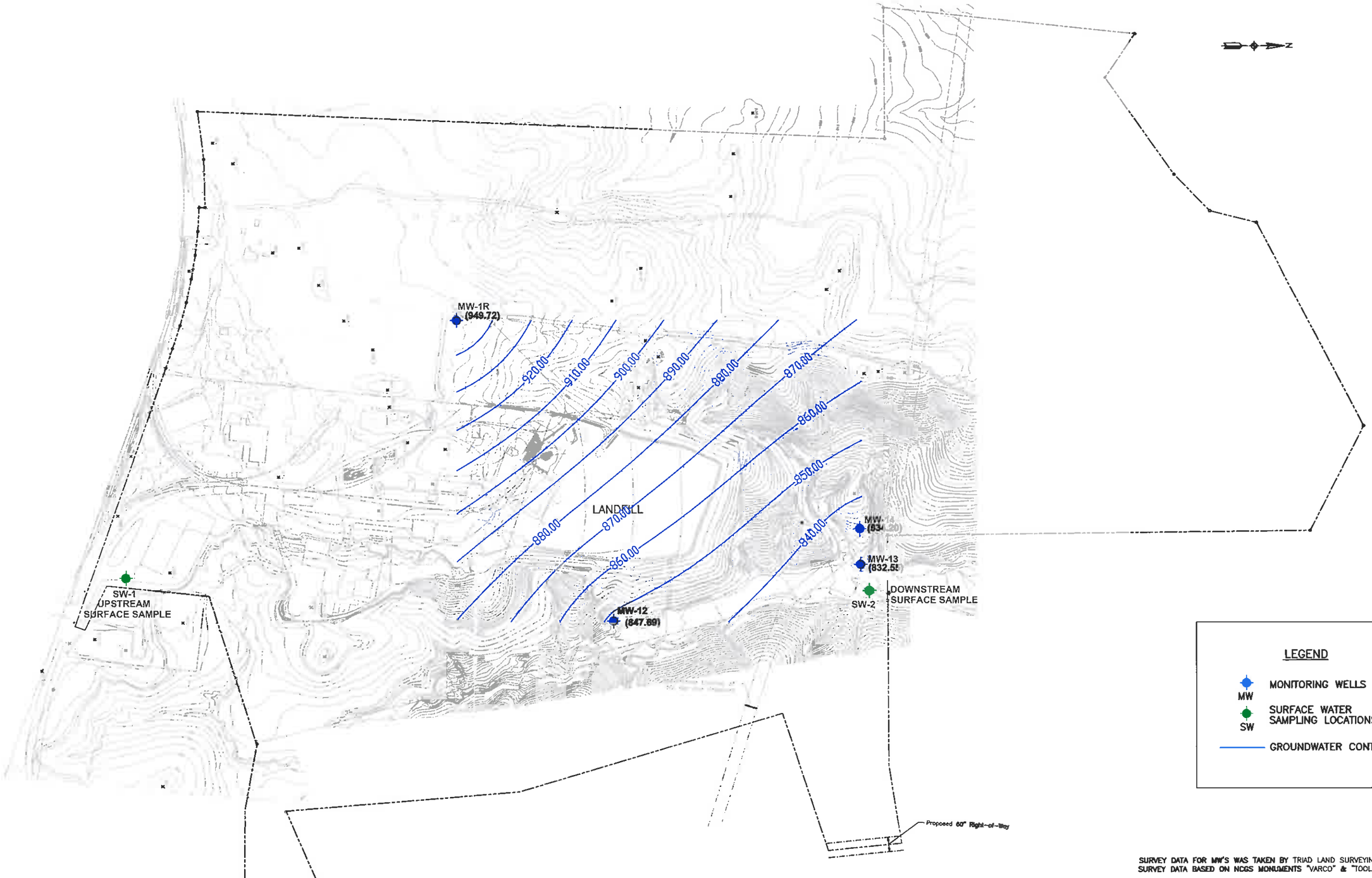

SURVEY DATA FOR MW'S WAS TAKEN BY TRIAD LAND SURVEYING,P.C.
SURVEY DATA BASED ON NCGS MONUMENTS "VARCO" & "TOOL".

NO.		DATE	ENGR
1			

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

W.Z. BAUMGARTNER & ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS & CONSULTANTS
1113 MURFREESBORO ROAD
SUITE 310 WILLIAMSON SQUARE
FRANKLIN, TENNESSEE
615-595-0025

SEAL:

DRAWN BY: GPM
CHECKED BY: MET
ENGINEER: WZB
DATE: 11/13/13

GROUNDWATER CONTOUR MAP 9/11/2013
OMNISOURCE SOUTHEAST
KERNERSVILLE, NC

SCALE: NTS
PROJECT NO.: 32015
EXHIBIT NO: 3

EXHIBIT 4

GROUNDWATER SAMPLING RESULTS

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GROUND WATER RESULTS TABULATION

OMNISOURCE SOUTHEAST LANDFILL **SAMPLE DATE: SEPTEMBER 11, 2013**

MCL - North Carolina Groundwater Standards (January 1, 2010)

Field Parameters	Method	Units	MCL	SW-1	SW-2	MW-1R	MW-12	MW-13	MW-14
Groundwater Elevation		Feet NCGS				949.72	847.69	832.55	834.2
pH		pH Units		6.55	6.48	10.5	5.33	6	5.35
Conductivity		µS/cm		72	413	250	344	441	152
Turbidity		NTU		2.43	13	110	5.76	0.95	1.32
Temperature		^{0}C		19.3	22.2	16.2	16.6	19	17.3
Volatile Organic Compounds (VOCs)									
Benzene	SW846 8260B	µg/L	1	<1.00	0.481	<1.00	0.411	0.203	<1.00
Ethylbenzene	SW846 8260B	µg/L	600	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Toluene	SW846 8260B	µg/L	600	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	SW846 8260B	µg/L	500	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Acetone	SW846 8260B	µg/L	6000	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Carbon disulfide	SW846 8260B	µg/L		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	SW846 8260B	µg/L	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Isopropylbenzene	SW846 8260B	µg/L	70	<1.00	0.481	<1.00	<1.00	<1.00	<1.00
Methyl tert-Butyl Ether (MTBE)	SW846 8260B	µg/L	20	<1.00	1.2	<1.00	0.335	0.285	<1.00
Napthalene	SW846 8260B	µg/L	6	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Styrene	SW846 8260B	µg/L	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Tetrachloroethene	SW846 8260B	µg/L	0.7	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
METALS									
Antimony	SW846 6010C	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Arsenic	SW846 6010C	mg/L	0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium	SW846 6010C	mg/L	0.7	0.0527	0.0993	0.0394	0.196	0.0298	0.1
Beryllium	SW846 6010C	mg/L		<0.004	<0.0040	<0.004	<0.004	<0.004	0.0008
Cadmium	SW846 6010C	mg/L	0.002	<0.001	<0.0010	<0.001	<0.001	<0.001	<0.001
Chromium	SW846 6010C	mg/L	0.01	<0.005	<0.0050	0.0018	<0.005	<0.005	<0.005
Cobalt	SW846 6010C	mg/L		<0.010	<0.010	<0.010	0.0026	0.0041	<0.004
Copper	SW846 6010C	mg/L	1	<0.010	<0.010	0.01	<0.010	<0.010	<0.010
Lead	SW846 6010C	mg/L	0.015	<0.005	<0.005	0.0062	<0.005	<0.005	0.0046
Nickel	SW846 6010C	mg/L	0.1	<0.010	0.0045	<0.010	<0.0026	<0.010	0.0022
Selenium	SW846 6010C	mg/L	0.02	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver	SW846 6010C	mg/L	0.02	<0.005	<0.005	<0.0050	<0.005	<0.0050	<0.0050
Thalium	SW846 6010C	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Vanadium	SW846 6010C	mg/L		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Zinc	SW846 6010C	mg/L	1	0.0169	0.0232	0.0294	0.008	0.0041	0.005

SURFACE WATER RESULTS TABULATION SW-1

OMNISOURCE SOUTHEAST LANDFILL

MCL - North Carolina Groundwater Standards (January 1, 2010)

Field Parameters	Method	Units	MCL	9/12/12	10/10/12	9/10/13	9/10/14
Water Elevation		Feet NCGS					
pH		pH Units		6.34	5.8	7.36	6.55
Conductivity		µS/cm		77	66	63	72
Turbidity		NTU		8.54	5.01	3.42	2.43
Temperature		^{0}C		15.8	16.7	20.1	19.3
Volatile Organic Compounds (VOCs)							
Benzene	SW846 8260B	µg/L	1	ND	ND	ND	<1.00
Ethylbenzene	SW846 8260B	µg/L	600	ND	ND	ND	<1.00
Toluene	SW846 8260B	µg/L	600	ND	ND	ND	<1.00
Xylenes, total	SW846 8260B	µg/L	500	ND	ND	ND	<2.00
Acetone	SW846 8260B	µg/L	6000	ND	ND	ND	<5.00
Carbon disulfide	SW846 8260B	µg/L		ND	ND	ND	<1.00
Chloroform	SW846 8260B	µg/L	70	ND	ND	ND	<1.00
Isopropylbenzene	SW846 8260B	µg/L	70	ND	ND	ND	<1.00
Methyl tert-Butyl Ether (MTBE)	SW846 8260B	µg/L	20	ND	ND	ND	<1.00
Napthalene	SW846 8260B	µg/L	6	ND	ND	ND	<5.00
Styrene	SW846 8260B	µg/L	70	ND	ND	ND	<1.00
Tetrachloroethene	SW846 8260B	µg/L	0.7	ND	ND	ND	<1.00
METALS							
Antimony	SW846 6010C	mg/L		ND	ND	ND	<0.010
Arsenic	SW846 6010C	mg/L	0.01	ND	ND	ND	<0.010
Barium	SW846 6010C	mg/L	0.7	0.0524	0.0526	0.0443	0.0527
Beryllium	SW846 6010C	mg/L		ND	ND	ND	<0.004
Cadmium	SW846 6010C	mg/L	0.002	ND	ND	ND	<0.001
Chromium	SW846 6010C	mg/L	0.01	ND	ND	0.0016	<0.005
Cobalt	SW846 6010C	mg/L		ND	ND	ND	<0.010
Copper	SW846 6010C	mg/L	1	ND	0.0118	ND	<0.010
Lead	SW846 6010C	mg/L	0.015	ND	ND	ND	<0.005
Nickel	SW846 6010C	mg/L	0.1	ND	ND	ND	<0.010
Selenium	SW846 6010C	mg/L	0.02	ND	ND	ND	<0.010
Silver	SW846 6010C	mg/L	0.02	ND	ND	ND	<0.005
Thalium	SW846 6010C	mg/L		ND	ND	ND	<0.010
Vanadium	SW846 6010C	mg/L		ND	ND	ND	<0.020
Zinc	SW846 6010C	mg/L	1	ND	0.051	ND	0.0169

ND - Non Detect

SURFACE WATER RESULTS TABULATION SW-2

OMNISOURCE SOUTHEAST LANDFILL

MCL - North Carolina Groundwater Standards (January 1, 2010)

Field Parameters	Method	Units	MCL	9/12/12	10/10/12	6/10/13	9/11/13
Water Elevation		Feet NCGS					
pH		pH Units		6.71	7.8	6.24	6.48
Conductivity		µS/cm		366	464	277	413
Turbidity		NTU		10.2	13.8	13.2	13
Temperature		^{0}C		16.6	17.5	20.5	22.2
Volatile Organic Compounds (VOCs)							
Benzene	SW846 8260B	µg/L	1	ND	0.509	0.369	0.481
Ethylbenzene	SW846 8260B	µg/L	600	ND	ND	ND	<1.00
Toluene	SW846 8260B	µg/L	600	ND	0.257	ND	<1.00
Xylenes, total	SW846 8260B	µg/L	500	ND	ND	ND	<2.00
Acetone	SW846 8260B	µg/L	6000	ND	2.88	8.34	<5.00
Carbon disulfide	SW846 8260B	µg/L		ND	ND	ND	<1.00
Chloroform	SW846 8260B	µg/L	70	ND	ND	ND	<1.00
Isopropylbenzene	SW846 8260B	µg/L	70	ND	0.42	0.392	0.481
Methyl tert-Butyl Ether (MTBE)	SW846 8260B	µg/L	20	ND	1.29	1.02	1.2
Napthalene	SW846 8260B	µg/L	6	ND	ND	ND	<5.00
Styrene	SW846 8260B	µg/L	70	ND	ND	ND	<1.00
Tetrachloroethene	SW846 8260B	µg/L	0.7	ND	ND	ND	<1.00
METALS							
Antimony	SW846 6010C	mg/L		ND	ND	ND	<0.010
Arsenic	SW846 6010C	mg/L	0.01	ND	0.0069	ND	<0.010
Barium	SW846 6010C	mg/L	0.7	0.0791	0.0874	0.0842	0.0993
Beryllium	SW846 6010C	mg/L		ND	ND	ND	<0.0040
Cadmium	SW846 6010C	mg/L	0.002	ND	ND	ND	<0.0010
Chromium	SW846 6010C	mg/L	0.01	ND	ND	0.0021	<0.0050
Cobalt	SW846 6010C	mg/L		ND	0.001	ND	<0.010
Copper	SW846 6010C	mg/L	1	ND	0.0135	ND	<0.010
Lead	SW846 6010C	mg/L	0.015	ND	ND	ND	<0.005
Nickel	SW846 6010C	mg/L	0.1	ND	0.0076	0.0051	0.0045
Selenium	SW846 6010C	mg/L	0.02	ND	ND	ND	<0.010
Silver	SW846 6010C	mg/L	0.02	ND	ND	ND	<0.005
Thalium	SW846 6010C	mg/L		ND	ND	ND	<0.010
Vanadium	SW846 6010C	mg/L		ND	ND	ND	<0.020
Zinc	SW846 6010C	mg/L	1	ND	0.0242	0.0294	0.0232

ND - Non Detect

GROUNDWATER RESULTS TABULATION MW-1R

OMNISOURCE SOUTHEAST LANDFILL

MCL - North Carolina Groundwater Standards (January 1, 2010)

Field Parameters	Method	Units	MCL	4/12/12	10/10/12	4/10/13	9/11/13
Water Elevation		Feet NCGS		950.2	948.37	952.17	949.72
pH		pH Units		11.33	12.05	10.94	10.5
Conductivity		µS/cm		632	314	160	250
Turbidity		NTU		55.9	69	30.8	110
Temperature		^{0}C		14.8	17.9	15.3	16.2
Volatile Organic Compounds (VOCs)							
Benzene	SW846 8260B	µg/L	1	ND	ND	ND	<1.00
Ethylbenzene	SW846 8260B	µg/L	600	ND	ND	ND	<1.00
Toluene	SW846 8260B	µg/L	600	ND	ND	ND	<1.00
Xylenes, total	SW846 8260B	µg/L	500	ND	ND	ND	<2.00
Acetone	SW846 8260B	µg/L	6000	ND	12.3	ND	<5.00
Carbon disulfide	SW846 8260B	µg/L		ND	ND	ND	<1.00
Chloroform	SW846 8260B	µg/L	70	ND	ND	ND	<1.00
Isopropylbenzene	SW846 8260B	µg/L	70	ND	ND	ND	<1.00
Methyl tert-Butyl Ether (MTBE)	SW846 8260B	µg/L	20	ND	ND	ND	<1.00
Napthalene	SW846 8260B	µg/L	6	ND	ND	ND	<5.00
Styrene	SW846 8260B	µg/L	70	ND	ND	0.515	<1.00
Tetrachloroethene	SW846 8260B	µg/L	0.7	ND	ND	ND	<1.00
Metals							
Antimony	SW846 6010C	mg/L		ND	0.0077	ND	<0.010
Arsenic	SW846 6010C	mg/L	0.01	ND	0.0107	ND	<0.010
Barium	SW846 6010C	mg/L	0.7	0.0415	0.0376	0.0269	0.0394
Beryllium	SW846 6010C	mg/L		ND	ND	ND	<0.004
Cadmium	SW846 6010C	mg/L	0.002	ND	ND	ND	<0.001
Chromium	SW846 6010C	mg/L	0.01	ND	0.0025	0.0023	0.0018
Cobalt	SW846 6010C	mg/L		ND	0.0007	ND	<0.010
Copper	SW846 6010C	mg/L	1	ND	ND	0.0088	0.01
Lead	SW846 6010C	mg/L	0.015	ND	0.0049	0.0042	0.0062
Nickel	SW846 6010C	mg/L	0.1	ND	ND	ND	<0.010
Selenium	SW846 6010C	mg/L	0.02	ND	ND	ND	<0.010
Silver	SW846 6010C	mg/L	0.02	ND	ND	ND	<0.0050
Thalium	SW846 6010C	mg/L		ND	ND	ND	<0.010
Vanadium	SW846 6010C	mg/L		ND	ND	ND	<0.020
Zinc	SW846 6010C	mg/L	1	ND	0.0273	ND	0.0294

ND - Non Detect

GROUNDWATER RESULTS TABULATION MW-12

OMNISOURCE SOUTHEAST LANDFILL

MCL - North Carolina Groundwater Standards (January 1, 2010)

Field Parameters	Method	Units	MCL	4/12/12	10/10/12	4/10/13	9/12/13
Water Elevation		Feet NCGS		847.57	847.51	847.73	847.69
pH		pH Units		5.19	5.48	5.68	5.33
Conductivity		µS/cm		279	261	213	344
Turbidity		NTU		24.3	2.08	2.63	5.76
Temperature		^{0}C		13.4	16	13.7	16.6
Volatile Organic Compounds (VOCs)							
Benzene	SW846 8260B	µg/L	1	ND	0.406	0.365	0.411
Ethylbenzene	SW846 8260B	µg/L	600	ND	ND	ND	<1.00
Toluene	SW846 8260B	µg/L	600	ND	ND	ND	<1.00
Xylenes, total	SW846 8260B	µg/L	500	ND	ND	ND	<2.00
Acetone	SW846 8260B	µg/L	6000	ND	20.9	ND	<5.00
Carbon disulfide	SW846 8260B	µg/L		ND	ND	ND	<1.00
Chloroform	SW846 8260B	µg/L	70	ND	ND	ND	<1.00
Isopropylbenzene	SW846 8260B	µg/L	70	ND	ND	ND	<1.00
Methyl tert-Butyl Ether (MTBE)	SW846 8260B	µg/L	20	ND	0.394	0.359	0.335
Napthalene	SW846 8260B	µg/L	6	ND	ND	ND	<5.00
Styrene	SW846 8260B	µg/L	70	ND	ND	ND	<1.00
Tetrachloroethene	SW846 8260B	µg/L	0.7	ND	0.319	0.252	<1.00
METALS							
Antimony	SW846 6010C	mg/L		ND	ND	ND	<0.010
Arsenic	SW846 6010C	mg/L	0.01	ND	ND	ND	<0.010
Barium	SW846 6010C	mg/L	0.7	0.166	0.17	0.166	0.196
Beryllium	SW846 6010C	mg/L		ND	ND	ND	<0.004
Cadmium	SW846 6010C	mg/L	0.002	ND	ND	ND	<0.001
Chromium	SW846 6010C	mg/L	0.01	ND	ND	ND	<0.005
Cobalt	SW846 6010C	mg/L		ND	0.0031	0.0019	0.0026
Copper	SW846 6010C	mg/L	1	ND	ND	ND	<0.010
Lead	SW846 6010C	mg/L	0.015	ND	ND	ND	<0.005
Nickel	SW846 6010C	mg/L	0.1	ND	0.0023	0.0029	<0.0026
Selenium	SW846 6010C	mg/L	0.02	ND	ND	ND	<0.010
Silver	SW846 6010C	mg/L	0.02	ND	ND	ND	<0.005
Thalium	SW846 6010C	mg/L		ND	ND	ND	<0.010
Vanadium	SW846 6010C	mg/L		ND	ND	ND	<0.020
Zinc	SW846 6010C	mg/L	1	ND	ND	ND	0.008

ND - Non Detect

GROUNDWATER RESULTS TABULATION MW-13
OMNISOURCE SOUTHEAST LANDFILL
MCL - North Carolina Groundwater Standards (January 1, 2010)

Field Parameters	Method	Units	MCL	4/12/12	10/10/12	6/10/13	9/11/14
Water Elevation		Feet NCGS		829.88	832.43	832.84	832.55
pH		pH Units		5.84	5.97	6.08	6
Conductivity		µS/cm		447	394	334	441
Turbidity		NTU		93.6	11.28	10.2	0.95
Temperature		^{0}C		13.9	17	14.4	19
Volatile Organic Compounds (VOCs)							
Benzene	SW846 8260B	µg/L	1	ND	0.28	ND	0.203
Ethylbenzene	SW846 8260B	µg/L	600	ND	ND	ND	<1.00
Toluene	SW846 8260B	µg/L	600	ND	ND	ND	<1.00
Xylenes, total	SW846 8260B	µg/L	500	ND	ND	ND	<2.00
Acetone	SW846 8260B	µg/L	6000	ND	ND	ND	<5.00
Carbon disulfide	SW846 8260B	µg/L		ND	ND	ND	<1.00
Chloroform	SW846 8260B	µg/L	70	ND	ND	ND	<1.00
Isopropylbenzene	SW846 8260B	µg/L	70	ND	ND	ND	<1.00
Methyl tert-Butyl Ether (MTBE)	SW846 8260B	µg/L	20	ND	ND	ND	0.285
Napthalene	SW846 8260B	µg/L	6	ND	ND	ND	<5.00
Styrene	SW846 8260B	µg/L	70	ND	ND	ND	<1.00
Tetrachloroethene	SW846 8260B	µg/L	0.7	ND	ND	ND	<1.00
METALS							
Antimony	SW846 6010C	mg/L		ND	ND	ND	<0.010
Arsenic	SW846 6010C	mg/L	0.01	ND	0.0034	ND	<0.010
Barium	SW846 6010C	mg/L	0.7	0.041	0.0269	0.0275	0.0298
Beryllium	SW846 6010C	mg/L		ND	ND	ND	<0.004
Cadmium	SW846 6010C	mg/L	0.002	ND	ND	ND	<0.001
Chromium	SW846 6010C	mg/L	0.01	ND	ND	ND	<0.005
Cobalt	SW846 6010C	mg/L		ND	0.0039	0.0028	0.0041
Copper	SW846 6010C	mg/L	1	ND	ND	ND	<0.010
Lead	SW846 6010C	mg/L	0.015	ND	ND	ND	<0.005
Nickel	SW846 6010C	mg/L	0.1	ND	ND	ND	<0.010
Selenium	SW846 6010C	mg/L	0.02	ND	ND	0.0062	<0.010
Silver	SW846 6010C	mg/L	0.02	ND	ND	ND	<0.0050
Thalium	SW846 6010C	mg/L		ND	ND	ND	<0.010
Vanadium	SW846 6010C	mg/L		ND	ND	ND	<0.020
Zinc	SW846 6010C	mg/L	1	ND	ND	ND	0.0041

ND - Non Detect

GROUNDWATER RESULTS TABULATION MW-14

OMNISOURCE SOUTHEAST LANDFILL

MCL - North Carolina Groundwater Standards (January 1, 2010)

Field Parameters	Method	Units	MCL	9/12/12	10/10/12	9/10/13	9/11/13
Water Elevation		Feet NCGS		834.35	834.15	835.05	834.2
pH		pH Units		5.88	5.63	5.54	5.35
Conductivity		µS/cm		156	147	104	152
Turbidity		NTU		184	5.93	4.35	1.32
Temperature		^{0}C		15.2	15	15.3	17.3
Volatile Organic Compounds (VOCs)							
Benzene	SW846 8260B	µg/L	1	ND	ND	ND	<1.00
Ethylbenzene	SW846 8260B	µg/L	600	ND	ND	ND	<1.00
Toluene	SW846 8260B	µg/L	600	ND	ND	ND	<1.00
Xylenes, total	SW846 8260B	µg/L	500	ND	ND	ND	<2.00
Acetone	SW846 8260B	µg/L	6000	ND	ND	ND	<5.00
Carbon disulfide	SW846 8260B	µg/L		ND	1.94	ND	<1.00
Chloroform	SW846 8260B	µg/L	70	ND	ND	ND	<1.00
Isopropylbenzene	SW846 8260B	µg/L	70	ND	ND	ND	<1.00
Methyl tert-Butyl Ether (MTBE)	SW846 8260B	µg/L	20	ND	ND	ND	<1.00
Napthalene	SW846 8260B	µg/L	6	ND	0.741	ND	<5.00
Styrene	SW846 8260B	µg/L	70	ND	ND	ND	<1.00
Tetrachloroethene	SW846 8260B	µg/L	0.7	ND	ND	ND	<1.00
METALS							
Antimony	SW846 6010C	mg/L		ND	ND	ND	<0.010
Arsenic	SW846 6010C	mg/L	0.01	ND	ND	ND	<0.010
Barium	SW846 6010C	mg/L	0.7	0.118	0.107	0.0982	0.1
Beryllium	SW846 6010C	mg/L		ND	0.0011	0.0011	0.0008
Cadmium	SW846 6010C	mg/L	0.002	ND	ND	ND	<0.001
Chromium	SW846 6010C	mg/L	0.01	ND	ND	ND	<0.005
Cobalt	SW846 6010C	mg/L		ND	0.0057	0.0038	<0.004
Copper	SW846 6010C	mg/L	1	ND	ND	ND	<0.010
Lead	SW846 6010C	mg/L	0.015	ND	ND	ND	0.0046
Nickel	SW846 6010C	mg/L	0.1	ND	0.002	ND	0.0022
Selenium	SW846 6010C	mg/L	0.02	ND	ND	0.0049	<0.010
Silver	SW846 6010C	mg/L	0.02	ND	ND	ND	<0.0050
Thalium	SW846 6010C	mg/L		ND	ND	ND	<0.010
Vanadium	SW846 6010C	mg/L		ND	ND	ND	<0.020
Zinc	SW846 6010C	mg/L	1	ND	ND	ND	0.005

ND - Non Detect

EXHIBIT 5

MONITORING NETWORK IDENTIFICATION AND GROUNDWATER ELEVATIONS

WZB

OMNISOURCE SOUTHEAST LANDFILL

MONITORING NETWORK IDENTIFICATION

SAMPLED SEPTEMBER 11, 2013

Monitoring Network				
Well Location	**Type of Sample**	**Designation**	***Northing**	***Easting**
MW-1R	Groundwater	Up-gradient	871133.46357	1673486.66777
MW-12	Groundwater	Down-gradient	872513.56315	1675089.92711
MW-13	Groundwater	Down-gradient	873558.37519	1674779.98119
MW-14	Groundwater	Down-gradient	873544.51254	1674656.37800
SW-1	Surface Water	Up-stream / Background	** North 36° 08' 11.1"	** West 80° 05' 54.2"
SW-2	Surface Water	Down-stream	** North 36° 08' 42.8"	** West 80° 06' 3.7"

** Northing/Easting locations provided by Triad Land Surveying, P.C. based on NCGS monuments "Varco" and "TOOL", Wayne T. Sims, P.L.S., NC #3582*

** Lattitude/Longitude taken with Garmin® Model GPSmap 60CSx

WZB

OMNISOURCE SOUTHEAST LANDFILL

GROUNDWATER ELEVATIONS

MEASURED SEPTEMBER 11, 2013

GROUNDWATER ELEVATIONS				
Well Location	**Date/Time**	**Top of Casing (Feet)**	**Static Depth to Water (Feet)**	**Water Elevation (Feet)**
MW-1R	9/11/13 10:15	988.67	38.95	949.72
MW-12	9/11/13 16:10	855.85	8.16	847.69
MW-13	9/11/13 13:00	838.45	5.90	832.55
MW-14	9/11/13 13:15	847.45	13.25	834.20

** Top of casing elevations provided by Triad Land Surveying, P.C. based on NCGS monuments "Varco" and "TOOL", Wayne T. Sims, P.L.S., NC #3582*

WZB

EXHIBIT 6
GROUNDWATER SAMPLING FIELD SHEETS
AND CHAIN OF CUSTODY

WZB

W. Z Baumgartner Associates, Inc.

Environmental Engineers and Consultants
1113 Murfreesboro Rd. Suite 310; Franklin TN; 37064

Groundwater Sampling Log

Site Name:	OMNISOURCE SOUTHEAST LANDFILL	Site Location:	KERNERSVILLE, NC
Well No:	MW-14	Sample ID:	32015 MW-14
Date:	9/11/2013		

Purging Data

Well Diameter (Inches):	2	Tubing Diameter (Inches):	0.5	Well Screen Interval Depth	18.50	feet to	33.50	feet	Static Depth to Water (ft):	13.25	Purge Pump Type or Bailer: ESP

Well Volume Purge: 1 Well Volume = (Total Well Depth - Static Depth to Water) X Well Capacity
(only fill out if applicable)

=(33.5 feet- 13.25 feet) X 0.16 gallons/foot 3.24 gallons

Equipment Volume Purge: 1 Equipment Volume = Pump Volume + (Tubing Capacity X Tubing Length) + Flow Cell Volume
(only fill out if applicable)

gallons + (gallons / foot X feet) + gallons = gallons

Initial Pump or Tubing Depth in Well (ft):	28	Final Pump or Tubing Depth in Well (ft):	28	Purging Initiated at:	1:33:00 PM	Purging Ended at:	2:43:00 PM	Total Volume Purged (Gallons):	10		

Time	Volume Purged (Gallons)	Cumulative Volume Purged (Gallons)	Purge Rate (G/m)	Depth to Water (ft)	pH (Standard Units)	Temp (°C)	Cond (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Color (Describe)	Sheen (Describe)	Odor (Describe)	Notes
1:52:00 PM	3.25	3.25	0.17	14.58	5.37	17.5	158	N/A	6.75	Clear	None	None	
2:15:00 PM	3.5	6.75	0.15	14.50	5.28	17.1	155	N/A	5.65	Clear	None	None	
2:43:00 PM	3.5	10.25	0.13	14.41	5.35	17.3	152	N/A	1.32	Clear	None	None	

Well Capacity (Gallons Per Foot): 0.75" = 0.02, 1" = 0.04, 1.25" = 0.06; 2" = 0.16; 3" = 0.37, 4" = 0.65, 5" = 1.02, 6" = 1.47; 12" = 5.88

Tubing Inside Diameter Capacity (Gallons Per Foot): 1/8" = 0.0006, 3/16" = 0.0014; 1/4" = 0.0026, 5/16" = 0.004, 3/8" = 0.006; 1/2" = 0.01; 5/8" = 0.016

Sampling Data

Sampled By (Print) / Affiliation: Daniel M. Prebonick / WZB	Sampler(s) Signature:	Sampling Initiated at: 2:45:00 PM	Sampling Ended at:
Pump or Tubing Depth in Well (ft): 28	Sample Pump Flow Rate (G/m): 0.13	Tubing Material Code: PE	
Field Decontamination: Y / N	Field Filtered: Y / N; Filtration Equipment type:	Filter Size: µm	Duplicate: Y / N

Sample Container Specification				Sample Preservation			Intended Analysis and/or Method	Sampling Equipment Code
Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Total Volume Added in Field (ml)	Final pH		
32015 MW-14	1	PE	250 mL	HNO_3	N/A	5.35	SW 846 6010C	ESP
32015 MW-14	3	CG	40 mL Vial	HCl	N/A	5.35	SW 846 8260B	ESP

Remarks: GROUNDWATER ELEVATION - 834.20 FEET (NCGS)

Material Codes: AG = Amber Glass, CG = Clear Glass; PE = Polyethylene, S = Silicone, T = Teflon, O = Other (Specify)

Sampling / Purging: APP = After Peristaltic Pump, B = Bailer, BP = Bladder Pump, ESP = Electric Submersible Pump, PP = Peristaltic Pump

Equipment Codes: RFPP = Reverse Flow Peristaltic Pump, SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap, O = Other (Specify)

Notes

1. The above do not constitute all of the information required
2. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings:

pH ± 0.1 Units, Temperature ± 3%; Specific Conductance, ± 3%, Dissolved Oxygen ± 0.3 mg/l; Turbidity, ± 10%

W. Z Baumgartner Associates, Inc.

Environmental Engineers and Consultants
1113 Murfreesboro Rd. Suite 310; Franklin TN; 37064

Groundwater Sampling Log

Site Name:	OMNISOURCE SOUTHEAST LANDFILL	Site Location:	KERNERSVILLE, NC
Well No:	(SURFACE WATER) SW-1	Sample ID:	32015 SW-1
Date:	9/11/2013		

Purging Data

Well Diameter (Inches): N/A	Tubing Diameter (Inches): N/A	Well Screen Interval Depth: feet to feet	Static Depth to Water (ft):	Purge Pump Type or Bailer:	N/A

Well Volume Purge: 1 Well Volume = (Total Well Depth - Static Depth to Water) X Well Capacity
(only fill out if applicable)
= (feet- feet) X gallons/foot gallons

Equipment Volume Purge: 1 Equipment Volume = Pump Volume + (Tubing Capacity X Tubing Length) + Flow Cell Volume
(only fill out if applicable)
= gallons + (gallons / foot X feet) + gallons = gallons

Initial Pump or Tubing Depth in Well (ft):		Final Pump or Tubing Depth in Well (ft):	Purging Initiated at:	Purging Ended at:	Total Volume Purged (Gallons):

Time	Volume Purged (Gallons)	Cumulative Volume Purged (Gallons)	Purge Rate (G/m)	Depth to Water (ft)	pH (Standard Units)	Temp (°C)	Cond (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Color (Describe)	Sheen (Describe)	Odor (Describe)	Notes
5:55:00 PM	N/A	N/A	N/A	N/A	6.55	19.3	72	N/A	2.43	CLEAR	NONE	NONE	

Well Capacity (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04, 1.25" = 0.06; 2" = 0.16, 3" = 0.37; 4" = 0.65, 5" = 1.02; 6" = 1.47; 12" = 5.88

Tubing Inside Diameter Capacity (Gallons Per Foot): 1/8" = 0.0006, 3/16" = 0.0014, 1/4" = 0.0026; 5/16" = 0.004, 3/8" = 0.006, 1/2" = 0.01; 5/8" = 0.016

Sampling Data

Sampled By (Print) / Affiliation: Daniel M. Prebonick / WZB	Sampler(s) Signatures:	Sampling Initiated at: 6:00:00 PM	Sampling Ended at:
Pump or Tubing Depth in Well (ft):	Sample Pump Flow Rate (G/m):	Tubing Material Code:	
Field Decontamination: Y N	Field Filtered: Y N; Filtration Equipment type:	Filter Size: µm	Duplicate: Y N

Sample Container Specification				Sample Preservation			Intended Analysis and/or Method	Sampling Equipment Code
Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Total Volume Added in Field (ml)	Final pH		
32015 SW-1	1	PE	250 mL	HNO_3	N/A	6.55	SW 846 6010C	O
32015 SW-1	3	CG	40 mL Vial	HCl	N/A	6.55	SW 846 8260B	O

Remarks

Material Codes: AG = Amber Glass, CG = Clear Glass, PE = Polyethylene, S = Silicone; T = Teflon, O = Other (Specify)

Sampling / Purging: APP = After Peristaltic Pump, B = Bailer; BP = Bladder Pump, ESP = Electric Submersible Pump, PP = Peristaltic Pump

Equipment Codes: RFPP = Reverse Flow Peristaltic Pump, SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify) - USED NON-PRESERVED BOTTLE

Notes:

1. The above do not constitute all of the information required
2. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings:

pH: ± 0.1 Units; Temperature: ± 3%; Specific Conductance: ± 3%; Dissolved Oxygen: ± 0.3 mg/l; Turbidity: ± 10%

W. Z Baumgartner Associates, Inc.

Environmental Engineers and Consultants
1113 Murfreesboro Rd. Suite 310; Franklin TN; 37064

Groundwater Sampling Log

Site Name:	OMNISOURCE SOUTHEAST LANDFILL	Site Location	KERNERSVILLE, NC
Well No:	(SURFACE WATER) SW-2	Sample ID	32015 SW-2
Date	9/11/2013		

Purging Data

Well Diameter (Inches): N/A	Tubing Diameter (Inches): N/A	Well Screen Interval Depth	feet to feet	Static Depth to Water (ft):	Purge Pump Type or Bailer: N/A

Well Volume Purge: 1 Well Volume = (Total Well Depth - Static Depth to Water) X Well Capacity
(only fill out if applicable)
=(feet- feet) X gallons / foot gallons

Equipment Volume Purge: 1 Equipment Volume = Pump Volume + (Tubing Capacity X Tubing Length) + Flow Cell Volume
(only fill out if applicable)
gallons + (gallons / foot X feet) + gallons = gallons

Initial Pump or Tubing Depth in Well (ft):		Final Pump or Tubing Depth in Well (ft):		Purging Initiated at:		Purging Ended at:		Total Volume Purged (Gallons):

Time	Volume Purged (Gallons)	Cumulative Volume Purged (Gallons)	Purge Rate (G/m)	Depth to Water (ft)	pH (Standard Units)	Temp (°C)	Cond (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Color (Describe)	Sheen (Describe)	Odor (Describe)	Notes
2:30:00 PM	N/A	N/A	N/A	N/A	6.48	22.2	413	N/A	13.00	CLEAR	NONE	SULFUR	

Well Capacity (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04, 1.25" = 0.06, 2" = 0.16; 3" = 0.37, 4" = 0.65, 5" = 1.02, 6" = 1.47, 12" = 5.88

Tubing Inside Diameter Capacity (Gallons Per Foot): 1/8" = 0.0006; 3/16" = 0.0014, 1/4" = 0.0026, 5/16" = 0.004; 3/8" = 0.006, 1/2" = 0.01, 5/8" = 0.016

Sampling Data

Sampled By (Print) Affiliation: Daniel M Prebonick / WZB	Sampler(s) Signatures:	Sampling Initiated at: 2:35:00 PM	Sampling Ended at:
Pump or Tubing Depth in Well (ft)	Sample Pump Flow Rate (G/m)	Tubing Material Code:	
Field Decontamination Y N	Field Filtered Y N / Filtration Equipment type:	Filter Size: µm	Duplicate Y N

Sample Container Specification				Sample Preservation			Intended Analysis and/or Method	Sampling Equipment Code
Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Total Volume Added in Field (ml)	Final pH		
32015 SW-2	1	PE	250 mL	HNO_3	N/A	6.48	SW 846 6010C	O
32015 SW-2	3	CG	40 mL Vial	HCl	N/A	6.48	SW 846 8260B	O

Remarks

Material Codes: AG = Amber Glass, CG = Clear Glass; PE = Polyethylene; S = Silicone; T = Teflon, O = Other (Specify)

Sampling / Purging: APP = After Peristaltic Pump, B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump, PP = Peristaltic Pump

Equipment Codes: RFPP = Reverse Flow Peristaltic Pump, SM = Straw Method (Tubing Gravity Drain), VT = Vacuum Trap, O = Other (Specify) - USED NON-PRESERVED BOTTLE

Notes

1 The above do not constitute all of the information required

2 Stabilization Criteria for Range of Variation of Last Three Consecutive Readings.

pH: ± 0.1 Units, Temperature: ± 3%; Specific Conductance: ± 3%, Dissolved Oxygen: ± 0.3 mg/l; Turbidity: ± 10%

W. Z Baumgartner Associates, Inc.

Environmental Engineers and Consultants
1113 Murfreesboro Rd. Suite 310; Franklin TN; 37064

Groundwater Sampling Log

Site Name:	OMNISOURCE SOUTHEAST LANDFILL	Site Location:	KERNERSVILLE, NC
Well No:	MW-1R	Sample ID:	32015 MW-1R
Date:	9/11/2013		

Purging Data

Well Diameter (Inches):	2	Tubing Diameter (Inches):	0.5	Well Screen Interval Depth:	82	feet to	102	feet	Static Depth to Water (ft):	38.95	Purge Pump Type or Bailer: ESP

Well Volume Purge: 1 Well Volume = (Total Well Depth - Static Depth to Water) X Well Capacity
(only fill out if applicable)

= (102 feet - 38.95 feet) X 0.16 gallons / foot 10.09 gallons

Equipment Volume Purge: 1 Equipment Volume = Pump Volume + (Tubing Capacity X Tubing Length) + Flow Cell Volume
(only fill out if applicable)

= gallons + (gallons / foot X feet) + gallons = gallons

Initial Pump or Tubing Depth in Well (ft):	97	Final Pump or Tubing Depth in Well (ft):	97	Purging Initiated at:	10:26:00 AM	Purging Ended at	10:26:00 AM	Total Volume Purged (Gallons)	10.25

Time	Volume Purged (Gallons)	Cumulative Volume Purged (Gallons)	Purge Rate (G/m)	Depth to Water (ft)	pH (Standard Units)	Temp (°C)	Cond (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Color (Describe)	Sheen (Describe)	Odor (Describe)	Notes
11:15:00 AM	10.25	10.25	0.21	Unkown	10.50	16.2	250	N/A	110.00	Cloudy	None	None	
INSUFFICIENT RECHARGE													

Well Capacity (Gallons Per Foot): 0.75" = 0.02, 1" = 0.04, 1.25" = 0.06, 2" = 0.16, 3" = 0.37, 4" = 0.65; 5" = 1.02, 6" = 1.47, 12" = 5.88

Tubing Inside Diameter Capacity (Gallons Per Foot): 1/8" = 0.0006, 3/16" = 0.0014, 1/4" = 0.0026, 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.01; 5/8" = 0.016

Sampling Data

Sampled By (Print) Affiliation: Daniel M Prebonick / WZB	Sampler(s) Signatures:	Sampling Initiated at: 11:20:00 AM	Sampling Ended at:
Pump or Tubing Depth in Well (ft): 97	Sample Pump Flow Rate (G/m): 0.21	Tubing Material Code: PE	
Field Decontamination: Y / N	Field Filtered: Y / N; Filtration Equipment type:	Filter Size: µm	Duplicate: Y / N

Sample Container Specification				Sample Preservation			Intended Analysis and/or Method	Sampling Equipment Code
Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Total Volume Added in Field (ml)	Final pH		
32015 MW-1R	1	PE	250 mL	HNO_3	N/A	10.50	SW 846 6010C	ESP
32015 MW-1R	3	CG	40 mL Vial	HCl	N/A	10.50	SW 846 8260B	ESP

Remarks: GROUNDWATER ELEVATION = 949.72 FEET (NCGS)

Material Codes: AG = Amber Glass, CG = Clear Glass, PE = Polyethylene, S = Silicone, T = Teflon, O = Other (Specify)

Sampling / Purging: APP = After Peristaltic Pump, B = Bailer, BP = Bladder Pump, ESP = Electric Submersible Pump, PP = Peristaltic Pump

Equipment Codes: RFPP = Reverse Flow Peristaltic Pump, SM = Straw Method (Tubing Gravity Drain), VT = Vacuum Trap, O = Other (Specify)

Notes:

1. The above do not constitute all of the information required.
2. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings:

pH = ± 0.1 Units; Temperature = ± 3%; Specific Conductance = ± 3%; Dissolved Oxygen = ± 0.3 mg/L; Turbidity = ± 10%

W. Z Baumgartner Associates, Inc.

Environmental Engineers and Consultants
1113 Murfreesboro Rd. Suite 310; Franklin TN; 37064

Groundwater Sampling Log

Site Name:	OMNISOURCE SOUTHEAST LANDFILL	Site Location:	KERNERSVILLE, NC
Well No:	MW-12	Sample ID: 32015 MW-12	Date: 9/11/2013

Purging Data

Well Diameter (Inches):	2	Tubing Diameter (Inches):	0.5	Well Screen Interval Depth	13.50 feet to 28.50 feet	Static Depth to Water (ft):	8.16	Purge Pump Type or Bailer	ESP

Well Volume Purge: 1 Well Volume = (Total Well Depth - Static Depth to Water) X Well Capacity
(only fill out if applicable)

(28.5 feet- 8.16 feet) X 0.16 gallons foot 3.25 gallons

Equipment Volume Purge. 1 Equipment Volume = Pump Volume + (Tubing Capacity X Tubing Length) + Flow Cell Volume
(only fill out if applicable)

gallons + (gallons foot X feet) + gallons gallons

Initial Pump or Tubing Depth in Well (ft):	23	Final Pump or Tubing Depth in Well (ft):	23	Purging Initiated at:	4:20:00 PM	Purging Ended at:	5:13:00 PM	Total Volume Purged (Gallons):	9.75

Time	Volume Purged (Gallons)	Cumulative Volume Purged (Gallons)	Purge Rate (G/m)	Depth to Water (ft)	pH (Standard Units)	Temp (°C)	Cond (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Color (Describe)	Sheen (Describe)	Odor (Describe)	Notes
4:44:00 PM	3.25	3.25	0.14	10.28	5.29	17.4	342	N/A	22.80	Clear	None	None	
4:58:00 PM	3.25	6.5	0.23	9.68	5.26	16.9	344	N/A	20.80	Clear	None	None	
5:13:00 PM	3.25	9.75	0.22	9.81	5.33	16.6	344	N/A	5.76	Clear	None	None	

Well Capacity (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Tubing Inside Diameter Capacity (Gallons Per Foot): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.01; 5/8" = 0.016

Sampling Data

Sampled By (Print) / Affiliation: Daniel M. Prabonick / WZB	Sampler(s) Signatures: [signature]	Sampling Initiated at: 5:15:00 PM	Sampling Ended at:
Pump or Tubing Depth in Well (ft): 23	Sample Pump Flow Rate (G/m): 0.22	Tubing Material Code: PE	
Field Decontamination: Y N	Field Filtered: Y N; Filtration Equipment type:	Filter Size: µm	Duplicate: Y

Sample Container Specification				Sample Preservation			Intended Analysis and/or Method	Sampling Equipment Code
Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Total Volume Added in Field (ml)	Final pH		
32015 MW-12	1	PE	250 mL	HNO_3	N/A	5.33	SW 846 6010C	ESP
32015 MW-12	3	CG	40 mL Vial	HCl	N/A	5.33	SW 846 8260B	ESP

Remarks: GROUNDWATER ELEVATION = 847.69 FEET (NCGS)

Material Codes: AG = Amber Glass, CG = Clear Glass, PE = Polyethylene, S = Silicone, T = Teflon, O = Other (Specify)

Sampling / Purging: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump, ESP = Electric Submersible Pump, PP = Peristaltic Pump

Equipment Codes: RFPP = Reverse Flow Peristaltic Pump, SM = Straw Method (Tubing Gravity Drain), VT = Vacuum Trap, O = Other (Specify)

Notes:

1. The above do not constitute all of the information required
2. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings:

pH = ± 0.1 Units; Temperature = ± 3%, Specific Conductance = ± 3%, Dissolved Oxygen = ± 0.3 mg/l, Turbidity = ± 10%

W. Z Baumgartner Associates, Inc.

Environmental Engineers and Consultants
1113 Murfreesboro Rd. Suite 310; Franklin TN; 37064

Groundwater Sampling Log

Site Name:	OMNISOURCE SOUTHEAST LANDFILL	Site Location:	KERNERSVILLE, NC
Well No:	MW-13	Sample ID:	32015 MW-13
Date:	9/11/2013		

Purging Data

Well Diameter (Inches):	2	Tubing Diameter (Inches):	0.5	Well Screen Interval Depth:	17.00 feet to	27.00 feet	Static Depth to Water (ft):	5.90	Purge Pump Type or Bailer: ESP

Well Volume Purge: 1 Well Volume = (Total Well Depth - Static Depth to Water) X Well Capacity
(only fill out if applicable)

= (27 feet- 5.9 feet) X 0.16 gallons/foot 3.38 gallons

Equipment Volume Purge: 1 Equipment Volume = Pump Volume + (Tubing Capacity X Tubing Length) + Flow Cell Volume
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

Initial Pump or Tubing Depth in Well (ft):	22	Final Pump or Tubing Depth in Well (ft):	22	Purging Initiated at:	1:12:00 PM	Purging Ended at:	2:50:00 PM	Total Volume Purged (Gallons):	11				

Time	Volume Purged (Gallons)	Cumulative Volume Purged (Gallons)	Purge Rate (G/m)	Depth to Water (ft)	pH (Standard Units)	Temp (°C)	Cond (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Color (Describe)	Sheen (Describe)	Odor (Describe)	Notes
1:43:00 PM	3.5	3.5	0.11	7.42	5.92	18.6	453	N/A	3.53	Clear	None	None	
2:12:00 PM	3.5	7	0.12	7.48	6.19	18.7	449	N/A	1.99	Clear	None	None	
2:50:00 PM	4	20	0.11	7.32	6.00	19.0	441	N/A	0.95	Clear	None	None	

Well Capacity (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Tubing Inside Diameter Capacity (Gallons Per Foot): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.01; 5/8" = 0.016

Sampling Data

Sampler(s) (Print) - Affiliation: Daniel M. Pedersick - WZB	Sampler(s) Signatures:	Sampling Initiated at: 2:55:00 PM	Sampling Ended at:
Pump or Tubing Depth in Well (ft): 22	Sample Pump Flow Rate (G/m): 0.11	Tubing Material Code: PE	
Field Decontamination: Y / N	Field Filtered: Y / N; Filtration Equipment type:	Filter Size: µm	Duplicate: Y / N

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Total Volume Added in Field (ml)	Final pH	Intended Analysis and/or Method	Sampling Equipment Code
32015 MW-13	1	PE	250 mL	HNO_3	N/A	6.00	SW 846 6010C	ESP
32015 MW-13	3	CG	40 mL Vial	HCl	N/A	6.00	SW 846 8260B	ESP

Remarks: GROUNDWATER ELEVATION = 832.55 FEET (NCGS)

Material Codes: AG = Amber Glass, CG = Clear Glass, PE = Polyethylene, S = Silicone, T = Teflon; O = Other (Specify)

Sampling / Purging: APP = After Peristaltic Pump, B = Bailer, BP = Bladder Pump; ESP = Electric Submersible Pump, PP = Peristaltic Pump

Equipment Codes: RFPP = Reverse Flow Peristaltic Pump, SM = Straw Method (Tubing Gravity Drain), VT = Vacuum Trap, O = Other (Specify)

Notes:

1. The above do not constitute all of the information required
2. Stabilization Criteria for Range of Variation of Last Three Consecutive Readings:

pH = ± 0.1 Units, Temperature = ± 3%; Specific Conductance = ± 3%; Dissolved Oxygen = ± 0.3 mg/l, Turbidity = ± 10%

W. Z Baumgartner & Associates, Inc.
ENGINEERS AND ENVIRONMENTAL CONSULTANTS
1113 MURFREESBORO ROAD · SUITE 310 · FRANKLIN, TN 37064
P. O BOX 680369 (37068-0369) · 615-595-0025 · FAX: 615-595-1595
E-MAIL: WZB1@AOL.COM

CHAIN OF CUSTODY

PART I - Client: OMNISOURCE SOUTHEAST LANDFILL | Event ID:

Proj. No: 32015 | City: KERNERSVILLE | ST: NC | Sampling Point: GW MONITORING NETWORK

PART II - Container Information

	Preservative						Plastic Containers							Glass Containers							
Code	A	B	C	D	E	F	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Quantity of Sample Containers Shipped	H_2SO_4	HNO_3	HCL	$Na_2S_2O_3$	NaOH	Unpreserved	125 ml HDPE	250 ml HDPE	500 ml HDPE	1L HDPE	1gal HDPE	Poly Bag	5 gal. Bucket	40 ml Vial	4 oz Jar	9 oz Jar	16 oz Jar	1L Clear	1L Amber	Trip Blank	Notes
24			✓											✓							
8		✓						✓													

Preservative Added: ☑ By Contract Laboratory ☐ By WZB Laboratory ☐ In Field

PART III - Sample Information

Sample Matrix Codes

DW	Drinking Water	OL	Oil
WW	Waste Water	SL	Sludge
GW	Ground Water	SO	Soil
SW	Storm Water	SR	Shredder Residue
SU	Surface Water	EC	Eddy Current

Requested Analysis

Sample I. D.	Date	Time	Matrix	Comp.	Grab.	C	B													Total No. of Containers
						B	2													
MW-1R	9/11/13	1120	GW		✓	3	1													4
MW-12	9/11/13	1715	GW		✓	3	1													4
MW-13	9/11/13	1455	GW		✓	3	1													4
MW-14	9/11/13	1445	GW		✓	3	1													4
SW-1	9/11/13	1800	SU		✓	3	1													4
SW-2	9/11/13	1435	SU		✓	3	1													4
FIELD BLANK	9/11/13	1405				3	1													4
TRIP BLANK	9/11/13	1120				3	1													4

Sampler's Name (Print): D. PREBONICK

PART IV - Chain of Custody

	Relinquished By: (Signature)	Date	Time	Received By: (Signature)
1	[signature]	9/11/13		
2				
3				
4				

Received for Laboratory By: (Signature)

Custody Seals Intact: ☐ Yes ☐ No Temperature: (°C)

EXHIBIT 7
ENVIRONMENTAL MONITORING REPORTING FORM

WZB

DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i)
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

W.Z. BAUMGARTNER & ASSOCIATES, INC. / TESTAMERICA, INC.

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: DANIEL PREBONICK Phone: (615) 595-0025 EXT. 156

E-mail: DMP@WZBINC.COM

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
OMNISOURCE SOUTHEAST	1426 WEST MOUNTAIN STREET KERNERSVILLE, NC 27284	3417-TP	.0500	SEPTEMBER 11, 2013

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☐ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify) _____

Notification attached?

☒ No. No groundwater or surface water standards were exceeded.
☐ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

WILLIAM Z. BAUMGARTNER, JR. PRESIDENT (615) 595-0025

Facility Representative Name (Print) Title (Area Code) Telephone Number

Signature 11/22/13 Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA PROFESSIONAL SEAL 17882 ENGINEER W. Z. BAUMGARTNER, JR.

11/22/13

PO BOX 680369 FRANKLIN, TN 37068-0369

Facility Representative Address

C-2883

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

APPENDIX A

TESTAMERICA, INC.
ANALYTICAL REPORT

WZB

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-35156-1
TestAmerica Sample Delivery Group: 32015
Client Project/Site: 32015

For:
W.Z. Baumgartner & Associates
1113 Murfreesboro Road
Suite 310
Franklin, Tennessee 37064

Attn: Brandon Walsh - Rpt

Roxanne L Connor

Authorized for release by:
9/26/2013 2:07:30 PM
Roxanne Connor, Senior Project Manager
roxanne.connor@testamericainc.com

Designee for

Ken Hayes, Project Manager I
(615)301-5035
ken.hayes@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: W.Z. Baumgartner & Associates
Project/Site: 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-35156-1	32015 MW-1R	Ground Water	09/11/13 11:20	09/12/13 08:15
490-35156-2	32015 MW-12	Ground Water	09/11/13 17:15	09/12/13 08:15
490-35156-3	32015 MW-13	Ground Water	09/11/13 14:55	09/12/13 08:15
490-35156-4	32015 MW-14	Ground Water	09/11/13 14:45	09/12/13 08:15
490-35156-5	32015 SW-1	Ground Water	09/11/13 18:00	09/12/13 08:15
490-35156-6	32015 SW-2	Ground Water	09/11/13 14:35	09/12/13 08:15
490-35156-7	32015 FIELD BLANK	Ground Water	09/11/13 14:05	09/12/13 08:15
490-35156-8	32015 TRIP BLANK	Ground Water	09/11/13 11:20	09/12/13 08:15

Job ID: 490-35156-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-35156-1

Comments
No additional comments.

Receipt
The samples were received on 9/12/2013 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

GC/MS VOA
Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 107138 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8260B: The method blank for batch 107138 contained Hexachlorobutadiene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other analytical or quality issues were noted.

Metals
Method(s) 3010A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 109772.

Method(s) 6010B, 6010C: The serial dilution performed for the following sample(s) associated with batch 107292 was outside control limits for Zinc. (490-35156-1 SD)

Method(s) 6010C: The method blank for batch 107292 contained Zinc above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: W.Z. Baumgartner & Associates
Project/Site: 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

Client Sample ID: 32015 MW-1R
Date Collected: 09/11/13 11:20
Date Received: 09/12/13 08:15

Lab Sample ID: 490-35156-1
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			09/14/13 22:14	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			09/14/13 22:14	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			09/14/13 22:14	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			09/14/13 22:14	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			09/14/13 22:14	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			09/14/13 22:14	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			09/14/13 22:14	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			09/14/13 22:14	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			09/14/13 22:14	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			09/14/13 22:14	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			09/14/13 22:14	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			09/14/13 22:14	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			09/14/13 22:14	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			09/14/13 22:14	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			09/14/13 22:14	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			09/14/13 22:14	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			09/14/13 22:14	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			09/14/13 22:14	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			09/14/13 22:14	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			09/14/13 22:14	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			09/14/13 22:14	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			09/14/13 22:14	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			09/14/13 22:14	1
2-Hexanone	ND		5.00	1.28	ug/L			09/14/13 22:14	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			09/14/13 22:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810	ug/L			09/14/13 22:14	1
Acetone	ND		5.00	2.66	ug/L			09/14/13 22:14	1
Benzene	ND		1.00	0.200	ug/L			09/14/13 22:14	1
Bromobenzene	ND		1.00	0.210	ug/L			09/14/13 22:14	1
Bromochloromethane	ND		1.00	0.150	ug/L			09/14/13 22:14	1
Bromodichloromethane	ND		1.00	0.170	ug/L			09/14/13 22:14	1
Bromoform	ND		1.00	0.290	ug/L			09/14/13 22:14	1
Bromomethane	ND		1.00	0.350	ug/L			09/14/13 22:14	1
Carbon disulfide	ND		1.00	0.220	ug/L			09/14/13 22:14	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			09/14/13 22:14	1
Chlorobenzene	ND		1.00	0.180	ug/L			09/14/13 22:14	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			09/14/13 22:14	1
Chloroethane	ND		1.00	0.360	ug/L			09/14/13 22:14	1
Chloroform	ND		1.00	0.230	ug/L			09/14/13 22:14	1
Chloromethane	ND		1.00	0.360	ug/L			09/14/13 22:14	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			09/14/13 22:14	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/14/13 22:14	1
Dibromomethane	ND		1.00	0.450	ug/L			09/14/13 22:14	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			09/14/13 22:14	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/14/13 22:14	1
Hexachlorobutadiene	ND		2.00	0.360	ug/L			09/14/13 22:14	1
Isopropylbenzene	ND		1.00	0.330	ug/L			09/14/13 22:14	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			09/14/13 22:14	1
Methylene Chloride	ND		5.00	0.220	ug/L			09/14/13 22:14	1

Client Sample Results

Client: W.Z. Baumgartner & Associates
Project/Site: 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

Client Sample ID: 32015 MW-1R
Date Collected: 09/11/13 11:20
Date Received: 09/12/13 08:15

Lab Sample ID: 490-35156-1
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00	0.210	ug/L			09/14/13 22:14	1
n-Butylbenzene	ND		1.00	0.240	ug/L			09/14/13 22:14	1
N-Propylbenzene	ND		1.00	0.170	ug/L			09/14/13 22:14	1
p-Isopropyltoluene	ND		1.00	0.170	ug/L			09/14/13 22:14	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			09/14/13 22:14	1
Styrene	ND		1.00	0.280	ug/L			09/14/13 22:14	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			09/14/13 22:14	1
Tetrachloroethene	ND		1.00	0.140	ug/L			09/14/13 22:14	1
Toluene	ND		1.00	0.170	ug/L			09/14/13 22:14	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			09/14/13 22:14	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/14/13 22:14	1
Trichloroethene	**0.286**	**J**	1.00	0.200	ug/L			09/14/13 22:14	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			09/14/13 22:14	1
Vinyl chloride	ND		1.00	0.180	ug/L			09/14/13 22:14	1
Xylenes, Total	ND		2.00	0.380	ug/L			09/14/13 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*09/14/13 22:14*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*09/14/13 22:14*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*09/14/13 22:14*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*09/14/13 22:14*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0100	0.00670	mg/L		09/16/13 08:35	09/17/13 17:29	1
Arsenic	ND		0.0100	0.00470	mg/L		09/16/13 08:35	09/17/13 17:29	1
Barium	**0.0394**		0.0100	0.000500	mg/L		09/16/13 08:35	09/17/13 17:29	1
Beryllium	ND		0.00400	0.000300	mg/L		09/16/13 08:35	09/17/13 17:29	1
Cadmium	ND		0.00100	0.000200	mg/L		09/16/13 08:35	09/17/13 17:29	1
Chromium	**0.00180**	**J**	0.00500	0.00120	mg/L		09/16/13 08:35	09/17/13 17:29	1
Cobalt	ND		0.0100	0.000900	mg/L		09/16/13 08:35	09/17/13 17:29	1
Copper	**0.0101**		0.0100	0.00700	mg/L		09/16/13 08:35	09/17/13 17:29	1
Lead	**0.00620**		0.00500	0.00350	mg/L		09/16/13 08:35	09/17/13 17:29	1
Nickel	ND		0.0100	0.00130	mg/L		09/16/13 08:35	09/17/13 17:29	1
Selenium	ND		0.0100	0.00640	mg/L		09/16/13 08:35	09/17/13 17:29	1
Silver	ND		0.00500	0.00130	mg/L		09/16/13 08:35	09/17/13 17:29	1
Thallium	ND		0.0100	0.00450	mg/L		09/16/13 08:35	09/17/13 17:29	1
Vanadium	ND		0.0200	0.0150	mg/L		09/16/13 08:35	09/17/13 17:29	1
Zinc	**0.0294**	**J B**	0.0500	0.000400	mg/L		09/16/13 08:35	09/17/13 17:29	1

Client Sample Results

Client: W.Z. Baumgartner & Associates
Project/Site: 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

Client Sample ID: 32015 MW-12

Date Collected: 09/11/13 17:15
Date Received: 09/12/13 08:15

Lab Sample ID: 490-35156-2

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			09/14/13 22:41	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			09/14/13 22:41	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			09/14/13 22:41	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			09/14/13 22:41	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			09/14/13 22:41	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			09/14/13 22:41	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			09/14/13 22:41	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			09/14/13 22:41	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			09/14/13 22:41	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			09/14/13 22:41	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			09/14/13 22:41	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			09/14/13 22:41	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			09/14/13 22:41	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			09/14/13 22:41	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			09/14/13 22:41	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			09/14/13 22:41	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			09/14/13 22:41	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			09/14/13 22:41	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			09/14/13 22:41	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			09/14/13 22:41	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			09/14/13 22:41	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			09/14/13 22:41	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			09/14/13 22:41	1
2-Hexanone	ND		5.00	1.28	ug/L			09/14/13 22:41	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			09/14/13 22:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810	ug/L			09/14/13 22:41	1
Acetone	ND		5.00	2.66	ug/L			09/14/13 22:41	1
Benzene	**0.411**	**J**	1.00	0.200	ug/L			09/14/13 22:41	1
Bromobenzene	ND		1.00	0.210	ug/L			09/14/13 22:41	1
Bromochloromethane	ND		1.00	0.150	ug/L			09/14/13 22:41	1
Bromodichloromethane	ND		1.00	0.170	ug/L			09/14/13 22:41	1
Bromoform	ND		1.00	0.290	ug/L			09/14/13 22:41	1
Bromomethane	ND		1.00	0.350	ug/L			09/14/13 22:41	1
Carbon disulfide	ND		1.00	0.220	ug/L			09/14/13 22:41	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			09/14/13 22:41	1
Chlorobenzene	ND		1.00	0.180	ug/L			09/14/13 22:41	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			09/14/13 22:41	1
Chloroethane	ND		1.00	0.360	ug/L			09/14/13 22:41	1
Chloroform	ND		1.00	0.230	ug/L			09/14/13 22:41	1
Chloromethane	ND		1.00	0.360	ug/L			09/14/13 22:41	1
cis-1,2-Dichloroethene	**0.287**	**J**	1.00	0.210	ug/L			09/14/13 22:41	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/14/13 22:41	1
Dibromomethane	ND		1.00	0.450	ug/L			09/14/13 22:41	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			09/14/13 22:41	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/14/13 22:41	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			09/14/13 22:41	1
Isopropylbenzene	ND		1.00	0.330	ug/L			09/14/13 22:41	1
Methyl tert-butyl ether	**0.335**	**J**	1.00	0.170	ug/L			09/14/13 22:41	1
Methylene Chloride	ND		5.00	0.220	ug/L			09/14/13 22:41	1

Client: W.Z. Baumgartner & Associates
Project/Site: 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

Client Sample ID: 32015 MW-12
Date Collected: 09/11/13 17:15
Date Received: 09/12/13 08:15

Lab Sample ID: 490-35156-2
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00	0.210	ug/L			09/14/13 22:41	1
n-Butylbenzene	ND		1.00	0.240	ug/L			09/14/13 22:41	1
N-Propylbenzene	ND		1.00	0.170	ug/L			09/14/13 22:41	1
p-Isopropyltoluene	ND		1.00	0.170	ug/L			09/14/13 22:41	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			09/14/13 22:41	1
Styrene	ND		1.00	0.280	ug/L			09/14/13 22:41	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			09/14/13 22:41	1
Tetrachloroethene	ND		1.00	0.140	ug/L			09/14/13 22:41	1
Toluene	ND		1.00	0.170	ug/L			09/14/13 22:41	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			09/14/13 22:41	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/14/13 22:41	1
Trichloroethene	ND		1.00	0.200	ug/L			09/14/13 22:41	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			09/14/13 22:41	1
Vinyl chloride	ND		1.00	0.180	ug/L			09/14/13 22:41	1
Xylenes, Total	ND		2.00	0.380	ug/L			09/14/13 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*09/14/13 22:41*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*09/14/13 22:41*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/14/13 22:41*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*09/14/13 22:41*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0100	0.00670	mg/L		09/16/13 08:35	09/17/13 17:43	1
Arsenic	ND		0.0100	0.00470	mg/L		09/16/13 08:35	09/17/13 17:43	1
Barium	**0.196**		0.0100	0.000500	mg/L		09/16/13 08:35	09/17/13 17:43	1
Beryllium	ND		0.00400	0.000300	mg/L		09/16/13 08:35	09/17/13 17:43	1
Cadmium	ND		0.00100	0.000200	mg/L		09/16/13 08:35	09/17/13 17:43	1
Chromium	ND		0.00500	0.00120	mg/L		09/16/13 08:35	09/17/13 17:43	1
Cobalt	**0.00260**	J	0.0100	0.000900	mg/L		09/16/13 08:35	09/17/13 17:43	1
Copper	ND		0.0100	0.00700	mg/L		09/16/13 08:35	09/17/13 17:43	1
Lead	ND		0.00500	0.00350	mg/L		09/16/13 08:35	09/17/13 17:43	1
Nickel	**0.00260**	J	0.0100	0.00130	mg/L		09/16/13 08:35	09/17/13 17:43	1
Selenium	ND		0.0100	0.00640	mg/L		09/16/13 08:35	09/17/13 17:43	1
Silver	ND		0.00500	0.00130	mg/L		09/16/13 08:35	09/17/13 17:43	1
Thallium	ND		0.0100	0.00450	mg/L		09/16/13 08:35	09/17/13 17:43	1
Vanadium	ND		0.0200	0.0150	mg/L		09/16/13 08:35	09/17/13 17:43	1
Zinc	**0.00800**	J B	0.0500	0.000400	mg/L		09/16/13 08:35	09/17/13 17:43	1

Client Sample Results

Client: W.Z. Baumgartner & Associates
Project/Site: 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

Client Sample ID: 32015 MW-13
Date Collected: 09/11/13 14:55
Date Received: 09/12/13 08:15

Lab Sample ID: 490-35156-3
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			09/14/13 23:09	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			09/14/13 23:09	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			09/14/13 23:09	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			09/14/13 23:09	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			09/14/13 23:09	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			09/14/13 23:09	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			09/14/13 23:09	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			09/14/13 23:09	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			09/14/13 23:09	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			09/14/13 23:09	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			09/14/13 23:09	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			09/14/13 23:09	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			09/14/13 23:09	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			09/14/13 23:09	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			09/14/13 23:09	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			09/14/13 23:09	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			09/14/13 23:09	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			09/14/13 23:09	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			09/14/13 23:09	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			09/14/13 23:09	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			09/14/13 23:09	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			09/14/13 23:09	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			09/14/13 23:09	1
2-Hexanone	ND		5.00	1.28	ug/L			09/14/13 23:09	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			09/14/13 23:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810	ug/L			09/14/13 23:09	1
Acetone	ND		5.00	2.66	ug/L			09/14/13 23:09	1
Benzene	**0.203**	**J**	1.00	0.200	ug/L			09/14/13 23:09	1
Bromobenzene	ND		1.00	0.210	ug/L			09/14/13 23:09	1
Bromochloromethane	ND		1.00	0.150	ug/L			09/14/13 23:09	1
Bromodichloromethane	ND		1.00	0.170	ug/L			09/14/13 23:09	1
Bromoform	ND		1.00	0.290	ug/L			09/14/13 23:09	1
Bromomethane	ND		1.00	0.350	ug/L			09/14/13 23:09	1
Carbon disulfide	ND		1.00	0.220	ug/L			09/14/13 23:09	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			09/14/13 23:09	1
Chlorobenzene	ND		1.00	0.180	ug/L			09/14/13 23:09	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			09/14/13 23:09	1
Chloroethane	ND		1.00	0.360	ug/L			09/14/13 23:09	1
Chloroform	ND		1.00	0.230	ug/L			09/14/13 23:09	1
Chloromethane	ND		1.00	0.360	ug/L			09/14/13 23:09	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			09/14/13 23:09	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/14/13 23:09	1
Dibromomethane	ND		1.00	0.450	ug/L			09/14/13 23:09	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			09/14/13 23:09	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/14/13 23:09	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			09/14/13 23:09	1
Isopropylbenzene	ND		1.00	0.330	ug/L			09/14/13 23:09	1
Methyl tert-butyl ether	**0.285**	**J**	1.00	0.170	ug/L			09/14/13 23:09	1
Methylene Chloride	ND		5.00	0.220	ug/L			09/14/13 23:09	1

Client Sample Results

Client: W.Z. Baumgartner & Associates
Project/Site: 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

Client Sample ID: 32015 MW-13
Date Collected: 09/11/13 14:55
Date Received: 09/12/13 08:15

Lab Sample ID: 490-35156-3
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00	0.210	ug/L			09/14/13 23:09	1
n-Butylbenzene	ND		1.00	0.240	ug/L			09/14/13 23:09	1
N-Propylbenzene	ND		1.00	0.170	ug/L			09/14/13 23:09	1
p-Isopropyltoluene	ND		1.00	0.170	ug/L			09/14/13 23:09	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			09/14/13 23:09	1
Styrene	ND		1.00	0.280	ug/L			09/14/13 23:09	1
tert-Butylbenzene	**0.376**	**J**	1.00	0.170	ug/L			09/14/13 23:09	1
Tetrachloroethene	ND		1.00	0.140	ug/L			09/14/13 23:09	1
Toluene	ND		1.00	0.170	ug/L			09/14/13 23:09	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			09/14/13 23:09	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/14/13 23:09	1
Trichloroethene	ND		1.00	0.200	ug/L			09/14/13 23:09	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			09/14/13 23:09	1
Vinyl chloride	ND		1.00	0.180	ug/L			09/14/13 23:09	1
Xylenes, Total	ND		2.00	0.380	ug/L			09/14/13 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*09/14/13 23:09*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/14/13 23:09*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*09/14/13 23:09*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*09/14/13 23:09*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0100	0.00670	mg/L		09/16/13 08:35	09/17/13 17:48	1
Arsenic	ND		0.0100	0.00470	mg/L		09/16/13 08:35	09/17/13 17:48	1
Barium	**0.0298**		0.0100	0.000500	mg/L		09/16/13 08:35	09/17/13 17:48	1
Beryllium	ND		0.00400	0.000300	mg/L		09/16/13 08:35	09/17/13 17:48	1
Cadmium	ND		0.00100	0.000200	mg/L		09/16/13 08:35	09/17/13 17:48	1
Chromium	ND		0.00500	0.00120	mg/L		09/16/13 08:35	09/17/13 17:48	1
Cobalt	**0.00410**	**J**	0.0100	0.000900	mg/L		09/16/13 08:35	09/17/13 17:48	1
Copper	ND		0.0100	0.00700	mg/L		09/16/13 08:35	09/17/13 17:48	1
Lead	ND		0.00500	0.00350	mg/L		09/16/13 08:35	09/17/13 17:48	1
Nickel	ND		0.0100	0.00130	mg/L		09/16/13 08:35	09/17/13 17:48	1
Selenium	ND		0.0100	0.00640	mg/L		09/16/13 08:35	09/17/13 17:48	1
Silver	ND		0.00500	0.00130	mg/L		09/16/13 08:35	09/17/13 17:48	1
Thallium	ND		0.0100	0.00450	mg/L		09/16/13 08:35	09/17/13 17:48	1
Vanadium	ND		0.0200	0.0150	mg/L		09/16/13 08:35	09/17/13 17:48	1
Zinc	**0.00410**	**J B**	0.0500	0.000400	mg/L		09/16/13 08:35	09/17/13 17:48	1

Client Sample Results

Client: W.Z. Baumgartner & Associates
Project/Site: 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

Client Sample ID: 32015 MW-14
Date Collected: 09/11/13 14:45
Date Received: 09/12/13 08:15

Lab Sample ID: 490-35156-4
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			09/14/13 23:36	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			09/14/13 23:36	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			09/14/13 23:36	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			09/14/13 23:36	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			09/14/13 23:36	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			09/14/13 23:36	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			09/14/13 23:36	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			09/14/13 23:36	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			09/14/13 23:36	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			09/14/13 23:36	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			09/14/13 23:36	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			09/14/13 23:36	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			09/14/13 23:36	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			09/14/13 23:36	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			09/14/13 23:36	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			09/14/13 23:36	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			09/14/13 23:36	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			09/14/13 23:36	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			09/14/13 23:36	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			09/14/13 23:36	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			09/14/13 23:36	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			09/14/13 23:36	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			09/14/13 23:36	1
2-Hexanone	ND		5.00	1.28	ug/L			09/14/13 23:36	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			09/14/13 23:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810	ug/L			09/14/13 23:36	1
Acetone	ND		5.00	2.66	ug/L			09/14/13 23:36	1
Benzene	ND		1.00	0.200	ug/L			09/14/13 23:36	1
Bromobenzene	ND		1.00	0.210	ug/L			09/14/13 23:36	1
Bromochloromethane	ND		1.00	0.150	ug/L			09/14/13 23:36	1
Bromodichloromethane	ND		1.00	0.170	ug/L			09/14/13 23:36	1
Bromoform	ND		1.00	0.290	ug/L			09/14/13 23:36	1
Bromomethane	ND		1.00	0.350	ug/L			09/14/13 23:36	1
Carbon disulfide	ND		1.00	0.220	ug/L			09/14/13 23:36	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			09/14/13 23:36	1
Chlorobenzene	ND		1.00	0.180	ug/L			09/14/13 23:36	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			09/14/13 23:36	1
Chloroethane	ND		1.00	0.360	ug/L			09/14/13 23:36	1
Chloroform	ND		1.00	0.230	ug/L			09/14/13 23:36	1
Chloromethane	ND		1.00	0.360	ug/L			09/14/13 23:36	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			09/14/13 23:36	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/14/13 23:36	1
Dibromomethane	ND		1.00	0.450	ug/L			09/14/13 23:36	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			09/14/13 23:36	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/14/13 23:36	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			09/14/13 23:36	1
Isopropylbenzene	ND		1.00	0.330	ug/L			09/14/13 23:36	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			09/14/13 23:36	1
Methylene Chloride	ND		5.00	0.220	ug/L			09/14/13 23:36	1

Client Sample Results

Client: W.Z Baumgartner & Associates
Project/Site: 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

Client Sample ID: 32015 MW-14
Date Collected: 09/11/13 14:45
Date Received: 09/12/13 08:15

Lab Sample ID: 490-35156-4
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00	0.210	ug/L			09/14/13 23:36	1
n-Butylbenzene	ND		1.00	0.240	ug/L			09/14/13 23:36	1
N-Propylbenzene	ND		1.00	0.170	ug/L			09/14/13 23:36	1
p-Isopropyltoluene	ND		1.00	0.170	ug/L			09/14/13 23:36	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			09/14/13 23:36	1
Styrene	ND		1.00	0.280	ug/L			09/14/13 23:36	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			09/14/13 23:36	1
Tetrachloroethene	ND		1.00	0.140	ug/L			09/14/13 23:36	1
Toluene	ND		1.00	0.170	ug/L			09/14/13 23:36	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			09/14/13 23:36	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/14/13 23:36	1
Trichloroethene	ND		1.00	0.200	ug/L			09/14/13 23:36	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			09/14/13 23:36	1
Vinyl chloride	ND		1.00	0.180	ug/L			09/14/13 23:36	1
Xylenes, Total	ND		2.00	0.380	ug/L			09/14/13 23:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*09/14/13 23:36*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*09/14/13 23:36*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*09/14/13 23:36*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*09/14/13 23:36*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0100	0.00670	mg/L		09/25/13 13:58	09/26/13 11:06	1
Arsenic	ND		0.0100	0.00470	mg/L		09/25/13 13:58	09/26/13 11:06	1
Barium	**0.100**		0.0100	0.000500	mg/L		09/25/13 13:58	09/26/13 11:06	1
Beryllium	**0.000800**	J	0.00400	0.000300	mg/L		09/25/13 13:58	09/26/13 11:06	1
Cadmium	ND		0.00100	0.000200	mg/L		09/25/13 13:58	09/26/13 11:06	1
Chromium	ND		0.00500	0.00120	mg/L		09/25/13 13:58	09/26/13 11:06	1
Cobalt	**0.00400**	J	0.0100	0.000900	mg/L		09/25/13 13:58	09/26/13 11:06	1
Copper	ND		0.0100	0.00700	mg/L		09/25/13 13:58	09/26/13 11:06	1
Lead	**0.00460**	J	0.00500	0.00350	mg/L		09/25/13 13:58	09/26/13 11:06	1
Nickel	**0.00220**	J	0.0100	0.00130	mg/L		09/25/13 13:58	09/26/13 11:06	1
Selenium	ND		0.0100	0.00640	mg/L		09/25/13 13:58	09/26/13 11:06	1
Silver	ND		0.00500	0.00130	mg/L		09/25/13 13:58	09/26/13 11:06	1
Thallium	ND		0.0100	0.00450	mg/L		09/25/13 13:58	09/26/13 11:06	1
Vanadium	ND		0.0200	0.0150	mg/L		09/25/13 13:58	09/26/13 11:06	1
Zinc	**0.00500**	J	0.0500	0.000400	mg/L		09/25/13 13:58	09/26/13 11:06	1

Client Sample Results

Client: W.Z. Baumgartner & Associates
Project/Site: 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

Client Sample ID: 32015 SW-1
Date Collected: 09/11/13 18:00
Date Received: 09/12/13 08:15

Lab Sample ID: 490-35156-5
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			09/15/13 00:04	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			09/15/13 00:04	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			09/15/13 00:04	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			09/15/13 00:04	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			09/15/13 00:04	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			09/15/13 00:04	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			09/15/13 00:04	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			09/15/13 00:04	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			09/15/13 00:04	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			09/15/13 00:04	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			09/15/13 00:04	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			09/15/13 00:04	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			09/15/13 00:04	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			09/15/13 00:04	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			09/15/13 00:04	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			09/15/13 00:04	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			09/15/13 00:04	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			09/15/13 00:04	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			09/15/13 00:04	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			09/15/13 00:04	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			09/15/13 00:04	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			09/15/13 00:04	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			09/15/13 00:04	1
2-Hexanone	ND		5.00	1.28	ug/L			09/15/13 00:04	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			09/15/13 00:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810	ug/L			09/15/13 00:04	1
Acetone	ND		5.00	2.66	ug/L			09/15/13 00:04	1
Benzene	ND		1.00	0.200	ug/L			09/15/13 00:04	1
Bromobenzene	ND		1.00	0.210	ug/L			09/15/13 00:04	1
Bromochloromethane	ND		1.00	0.150	ug/L			09/15/13 00:04	1
Bromodichloromethane	ND		1.00	0.170	ug/L			09/15/13 00:04	1
Bromoform	ND		1.00	0.290	ug/L			09/15/13 00:04	1
Bromomethane	ND		1.00	0.350	ug/L			09/15/13 00:04	1
Carbon disulfide	ND		1.00	0.220	ug/L			09/15/13 00:04	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			09/15/13 00:04	1
Chlorobenzene	ND		1.00	0.180	ug/L			09/15/13 00:04	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			09/15/13 00:04	1
Chloroethane	ND		1.00	0.360	ug/L			09/15/13 00:04	1
Chloroform	ND		1.00	0.230	ug/L			09/15/13 00:04	1
Chloromethane	ND		1.00	0.360	ug/L			09/15/13 00:04	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			09/15/13 00:04	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/15/13 00:04	1
Dibromomethane	ND		1.00	0.450	ug/L			09/15/13 00:04	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			09/15/13 00:04	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/15/13 00:04	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			09/15/13 00:04	1
Isopropylbenzene	ND		1.00	0.330	ug/L			09/15/13 00:04	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			09/15/13 00:04	1
Methylene Chloride	ND		5.00	0.220	ug/L			09/15/13 00:04	1

Client Sample Results

Client: W.Z. Baumgartner & Associates
Project/Site: 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

Client Sample ID: 32015 SW-1
Date Collected: 09/11/13 18:00
Date Received: 09/12/13 08:15

Lab Sample ID: 490-35156-5
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00	0.210	ug/L			09/15/13 00:04	1
n-Butylbenzene	ND		1.00	0.240	ug/L			09/15/13 00:04	1
N-Propylbenzene	ND		1.00	0.170	ug/L			09/15/13 00:04	1
p-Isopropyltoluene	ND		1.00	0.170	ug/L			09/15/13 00:04	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			09/15/13 00:04	1
Styrene	ND		1.00	0.280	ug/L			09/15/13 00:04	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			09/15/13 00:04	1
Tetrachloroethene	ND		1.00	0.140	ug/L			09/15/13 00:04	1
Toluene	ND		1.00	0.170	ug/L			09/15/13 00:04	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			09/15/13 00:04	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/15/13 00:04	1
Trichloroethene	ND		1.00	0.200	ug/L			09/15/13 00:04	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			09/15/13 00:04	1
Vinyl chloride	ND		1.00	0.180	ug/L			09/15/13 00:04	1
Xylenes, Total	ND		2.00	0.380	ug/L			09/15/13 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*09/15/13 00:04*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*09/15/13 00:04*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*09/15/13 00:04*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*09/15/13 00:04*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0100	0.00670	mg/L		09/16/13 08:35	09/17/13 18:08	1
Arsenic	ND		0.0100	0.00470	mg/L		09/16/13 08:35	09/17/13 18:08	1
Barium	**0.0527**		0.0100	0.000500	mg/L		09/16/13 08:35	09/17/13 18:08	1
Beryllium	ND		0.00400	0.000300	mg/L		09/16/13 08:35	09/17/13 18:08	1
Cadmium	ND		0.00100	0.000200	mg/L		09/16/13 08:35	09/17/13 18:08	1
Chromium	ND		0.00500	0.00120	mg/L		09/16/13 08:35	09/17/13 18:08	1
Cobalt	ND		0.0100	0.000900	mg/L		09/16/13 08:35	09/17/13 18:08	1
Copper	ND		0.0100	0.00700	mg/L		09/16/13 08:35	09/17/13 18:08	1
Lead	ND		0.00500	0.00350	mg/L		09/16/13 08:35	09/17/13 18:08	1
Nickel	ND		0.0100	0.00130	mg/L		09/16/13 08:35	09/17/13 18:08	1
Selenium	ND		0.0100	0.00640	mg/L		09/16/13 08:35	09/17/13 18:08	1
Silver	ND		0.00500	0.00130	mg/L		09/16/13 08:35	09/17/13 18:08	1
Thallium	ND		0.0100	0.00450	mg/L		09/16/13 08:35	09/17/13 18:08	1
Vanadium	ND		0.0200	0.0150	mg/L		09/16/13 08:35	09/17/13 18:08	1
Zinc	**0.0169**	**J B**	0.0500	0.000400	mg/L		09/16/13 08:35	09/17/13 18:08	1

Client Sample Results

Client: W.Z. Baumgartner & Associates
Project/Site: 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

Client Sample ID: 32015 SW-2
Date Collected: 09/11/13 14:35
Date Received: 09/12/13 08:15

Lab Sample ID: 490-35156-6
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			09/15/13 00:31	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			09/15/13 00:31	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			09/15/13 00:31	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			09/15/13 00:31	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			09/15/13 00:31	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			09/15/13 00:31	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			09/15/13 00:31	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			09/15/13 00:31	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			09/15/13 00:31	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			09/15/13 00:31	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			09/15/13 00:31	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			09/15/13 00:31	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			09/15/13 00:31	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			09/15/13 00:31	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			09/15/13 00:31	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			09/15/13 00:31	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			09/15/13 00:31	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			09/15/13 00:31	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			09/15/13 00:31	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			09/15/13 00:31	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			09/15/13 00:31	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			09/15/13 00:31	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			09/15/13 00:31	1
2-Hexanone	ND		5.00	1.28	ug/L			09/15/13 00:31	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			09/15/13 00:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810	ug/L			09/15/13 00:31	1
Acetone	ND		5.00	2.66	ug/L			09/15/13 00:31	1
Benzene	**0.481**	**J**	1.00	0.200	ug/L			09/15/13 00:31	1
Bromobenzene	ND		1.00	0.210	ug/L			09/15/13 00:31	1
Bromochloromethane	ND		1.00	0.150	ug/L			09/15/13 00:31	1
Bromodichloromethane	ND		1.00	0.170	ug/L			09/15/13 00:31	1
Bromoform	ND		1.00	0.290	ug/L			09/15/13 00:31	1
Bromomethane	ND		1.00	0.350	ug/L			09/15/13 00:31	1
Carbon disulfide	ND		1.00	0.220	ug/L			09/15/13 00:31	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			09/15/13 00:31	1
Chlorobenzene	ND		1.00	0.180	ug/L			09/15/13 00:31	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			09/15/13 00:31	1
Chloroethane	ND		1.00	0.360	ug/L			09/15/13 00:31	1
Chloroform	ND		1.00	0.230	ug/L			09/15/13 00:31	1
Chloromethane	ND		1.00	0.360	ug/L			09/15/13 00:31	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			09/15/13 00:31	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/15/13 00:31	1
Dibromomethane	ND		1.00	0.450	ug/L			09/15/13 00:31	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			09/15/13 00:31	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/15/13 00:31	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			09/15/13 00:31	1
Isopropylbenzene	**0.481**	**J**	1.00	0.330	ug/L			09/15/13 00:31	1
Methyl tert-butyl ether	**1.20**		1.00	0.170	ug/L			09/15/13 00:31	1
Methylene Chloride	ND		5.00	0.220	ug/L			09/15/13 00:31	1

Client Sample Results

Client: W.Z. Baumgartner & Associates
Project/Site. 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

Client Sample ID: 32015 SW-2

Date Collected: 09/11/13 14:35
Date Received: 09/12/13 08:15

Lab Sample ID: 490-35156-6

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00	0.210	ug/L			09/15/13 00:31	1
n-Butylbenzene	ND		1 00	0.240	ug/L			09/15/13 00:31	1
N-Propylbenzene	ND		1 00	0 170	ug/L			09/15/13 00:31	1
p-Isopropyltoluene	ND		1.00	0 170	ug/L			09/15/13 00:31	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			09/15/13 00:31	1
Styrene	ND		1.00	0.280	ug/L			09/15/13 00:31	1
tert-Butylbenzene	ND		1.00	0 170	ug/L			09/15/13 00:31	1
Tetrachloroethene	ND		1 00	0.140	ug/L			09/15/13 00:31	1
Toluene	ND		1.00	0 170	ug/L			09/15/13 00:31	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			09/15/13 00:31	1
trans-1,3-Dichloropropene	ND		1 00	0.170	ug/L			09/15/13 00:31	1
Trichloroethene	ND		1.00	0 200	ug/L			09/15/13 00:31	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			09/15/13 00:31	1
Vinyl chloride	ND		1.00	0.180	ug/L			09/15/13 00:31	1
Xylenes, Total	ND		2.00	0.380	ug/L			09/15/13 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*09/15/13 00:31*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*09/15/13 00:31*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*09/15/13 00:31*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*09/15/13 00.31*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0100	0.00670	mg/L		09/16/13 08:35	09/17/13 18:12	1
Arsenic	ND		0.0100	0 00470	mg/L		09/16/13 08:35	09/17/13 18:12	1
Barium	**0.0993**		0.0100	0.000500	mg/L		09/16/13 08:35	09/17/13 18:12	1
Beryllium	ND		0.00400	0.000300	mg/L		09/16/13 08.35	09/17/13 18:12	1
Cadmium	ND		0.00100	0.000200	mg/L		09/16/13 08:35	09/17/13 18:12	1
Chromium	ND		0 00500	0.00120	mg/L		09/16/13 08:35	09/17/13 18:12	1
Cobalt	ND		0.0100	0.000900	mg/L		09/16/13 08:35	09/17/13 18:12	1
Copper	ND		0.0100	0 00700	mg/L		09/16/13 08:35	09/17/13 18:12	1
Lead	ND		0.00500	0.00350	mg/L		09/16/13 08:35	09/17/13 18:12	1
Nickel	**0.00450**	**J**	0.0100	0.00130	mg/L		09/16/13 08:35	09/17/13 18:12	1
Selenium	ND		0.0100	0.00640	mg/L		09/16/13 08:35	09/17/13 18:12	1
Silver	ND		0.00500	0.00130	mg/L		09/16/13 08:35	09/17/13 18.12	1
Thallium	ND		0.0100	0.00450	mg/L		09/16/13 08:35	09/17/13 18:12	1
Vanadium	ND		0.0200	0.0150	mg/L		09/16/13 08:35	09/17/13 18:12	1
Zinc	**0.0232**	**J B**	0.0500	0.000400	mg/L		09/16/13 08:35	09/17/13 18:12	1

Client Sample Results

Client: W.Z. Baumgartner & Associates
Project/Site: 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

Client Sample ID: 32015 FIELD BLANK
Date Collected: 09/11/13 14:05
Date Received: 09/12/13 08:15

Lab Sample ID: 490-35156-7
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			09/14/13 18:07	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			09/14/13 18:07	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			09/14/13 18:07	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			09/14/13 18:07	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			09/14/13 18:07	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			09/14/13 18:07	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			09/14/13 18:07	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			09/14/13 18:07	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			09/14/13 18:07	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			09/14/13 18:07	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			09/14/13 18:07	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			09/14/13 18:07	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			09/14/13 18:07	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			09/14/13 18:07	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			09/14/13 18:07	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			09/14/13 18:07	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			09/14/13 18:07	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			09/14/13 18:07	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			09/14/13 18:07	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			09/14/13 18:07	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			09/14/13 18:07	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			09/14/13 18:07	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			09/14/13 18:07	1
2-Hexanone	ND		5.00	1.28	ug/L			09/14/13 18:07	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			09/14/13 18:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810	ug/L			09/14/13 18:07	1
Acetone	ND		5.00	2.66	ug/L			09/14/13 18:07	1
Benzene	ND		1.00	0.200	ug/L			09/14/13 18:07	1
Bromobenzene	ND		1.00	0.210	ug/L			09/14/13 18:07	1
Bromochloromethane	ND		1.00	0.150	ug/L			09/14/13 18:07	1
Bromodichloromethane	ND		1.00	0.170	ug/L			09/14/13 18:07	1
Bromoform	ND		1.00	0.290	ug/L			09/14/13 18:07	1
Bromomethane	ND		1.00	0.350	ug/L			09/14/13 18:07	1
Carbon disulfide	ND		1.00	0.220	ug/L			09/14/13 18:07	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			09/14/13 18:07	1
Chlorobenzene	ND		1.00	0.180	ug/L			09/14/13 18:07	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			09/14/13 18:07	1
Chloroethane	ND		1.00	0.360	ug/L			09/14/13 18:07	1
Chloroform	**2.13**		1.00	0.230	ug/L			09/14/13 18:07	1
Chloromethane	ND		1.00	0.360	ug/L			09/14/13 18:07	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			09/14/13 18:07	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/14/13 18:07	1
Dibromomethane	ND		1.00	0.450	ug/L			09/14/13 18:07	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			09/14/13 18:07	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/14/13 18:07	1
Hexachlorobutadiene	ND		2.00	0.360	ug/L			09/14/13 18:07	1
Isopropylbenzene	ND		1.00	0.330	ug/L			09/14/13 18:07	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			09/14/13 18:07	1
Methylene Chloride	ND		5.00	0.220	ug/L			09/14/13 18:07	1

Client Sample Results

Client: W.Z. Baumgartner & Associates
Project/Site: 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

Client Sample ID: 32015 FIELD BLANK

Date Collected: 09/11/13 14:05
Date Received: 09/12/13 08:15

Lab Sample ID: 490-35156-7

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00	0.210	ug/L			09/14/13 18:07	1
n-Butylbenzene	ND		1.00	0.240	ug/L			09/14/13 18:07	1
N-Propylbenzene	ND		1.00	0.170	ug/L			09/14/13 18:07	1
p-Isopropyltoluene	ND		1.00	0.170	ug/L			09/14/13 18:07	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			09/14/13 18:07	1
Styrene	ND		1.00	0.280	ug/L			09/14/13 18:07	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			09/14/13 18:07	1
Tetrachloroethene	ND		1.00	0.140	ug/L			09/14/13 18:07	1
Toluene	ND		1.00	0.170	ug/L			09/14/13 18:07	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			09/14/13 18:07	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/14/13 18:07	1
Trichloroethene	ND		1.00	0.200	ug/L			09/14/13 18:07	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			09/14/13 18:07	1
Vinyl chloride	ND		1.00	0.180	ug/L			09/14/13 18:07	1
Xylenes, Total	ND		2.00	0.380	ug/L			09/14/13 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*09/14/13 18:07*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*09/14/13 18:07*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*09/14/13 18:07*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*09/14/13 18:07*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0100	0.00670	mg/L		09/16/13 08:35	09/17/13 18:17	1
Arsenic	ND		0.0100	0.00470	mg/L		09/16/13 08:35	09/17/13 18:17	1
Barium	ND		0.0100	0.000500	mg/L		09/16/13 08:35	09/17/13 18:17	1
Beryllium	ND		0.00400	0.000300	mg/L		09/16/13 08:35	09/17/13 18:17	1
Cadmium	ND		0.00100	0.000200	mg/L		09/16/13 08:35	09/17/13 18:17	1
Chromium	ND		0.00500	0.00120	mg/L		09/16/13 08:35	09/17/13 18:17	1
Cobalt	ND		0.0100	0.000900	mg/L		09/16/13 08:35	09/17/13 18:17	1
Copper	ND		0.0100	0.00700	mg/L		09/16/13 08:35	09/17/13 18:17	1
Lead	ND		0.00500	0.00350	mg/L		09/16/13 08:35	09/17/13 18:17	1
Nickel	ND		0.0100	0.00130	mg/L		09/16/13 08:35	09/17/13 18:17	1
Selenium	ND		0.0100	0.00640	mg/L		09/16/13 08:35	09/17/13 18:17	1
Silver	ND		0.00500	0.00130	mg/L		09/16/13 08:35	09/17/13 18:17	1
Thallium	ND		0.0100	0.00450	mg/L		09/16/13 08:35	09/17/13 18:17	1
Vanadium	ND		0.0200	0.0150	mg/L		09/16/13 08:35	09/17/13 18:17	1
Zinc	0.00470	J B	0.0500	0.000400	mg/L		09/16/13 08:35	09/17/13 18:17	1

Client Sample Results

Client: W.Z. Baumgartner & Associates
Project/Site: 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

Client Sample ID: 32015 TRIP BLANK

Lab Sample ID: 490-35156-8

Date Collected: 09/11/13 11:20
Matrix: Ground Water
Date Received: 09/12/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			09/14/13 18:34	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			09/14/13 18:34	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			09/14/13 18:34	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			09/14/13 18:34	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			09/14/13 18:34	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			09/14/13 18:34	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			09/14/13 18:34	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			09/14/13 18:34	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			09/14/13 18:34	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			09/14/13 18:34	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			09/14/13 18:34	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			09/14/13 18:34	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			09/14/13 18:34	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			09/14/13 18:34	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			09/14/13 18:34	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			09/14/13 18:34	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			09/14/13 18:34	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			09/14/13 18:34	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			09/14/13 18:34	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			09/14/13 18:34	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			09/14/13 18:34	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			09/14/13 18:34	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			09/14/13 18:34	1
2-Hexanone	ND		5.00	1.28	ug/L			09/14/13 18:34	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			09/14/13 18:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810	ug/L			09/14/13 18:34	1
Acetone	ND		5.00	2.66	ug/L			09/14/13 18:34	1
Benzene	ND		1.00	0.200	ug/L			09/14/13 18:34	1
Bromobenzene	ND		1.00	0.210	ug/L			09/14/13 18:34	1
Bromochloromethane	ND		1.00	0.150	ug/L			09/14/13 18:34	1
Bromodichloromethane	ND		1.00	0.170	ug/L			09/14/13 18:34	1
Bromoform	ND		1.00	0.290	ug/L			09/14/13 18:34	1
Bromomethane	ND		1.00	0.350	ug/L			09/14/13 18:34	1
Carbon disulfide	ND		1.00	0.220	ug/L			09/14/13 18:34	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			09/14/13 18:34	1
Chlorobenzene	ND		1.00	0.180	ug/L			09/14/13 18:34	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			09/14/13 18:34	1
Chloroethane	ND		1.00	0.360	ug/L			09/14/13 18:34	1
Chloroform	ND		1.00	0.230	ug/L			09/14/13 18:34	1
Chloromethane	ND		1.00	0.360	ug/L			09/14/13 18:34	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			09/14/13 18:34	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/14/13 18:34	1
Dibromomethane	ND		1.00	0.450	ug/L			09/14/13 18:34	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			09/14/13 18:34	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/14/13 18:34	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			09/14/13 18:34	1
Isopropylbenzene	ND		1.00	0.330	ug/L			09/14/13 18:34	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			09/14/13 18:34	1
Methylene Chloride	ND		5.00	0.220	ug/L			09/14/13 18:34	1

Client Sample Results

Client: W.Z. Baumgartner & Associates
Project/Site: 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

Client Sample ID: 32015 TRIP BLANK

Date Collected: 09/11/13 11:20
Date Received: 09/12/13 08:15

Lab Sample ID: 490-35156-8

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00	0.210	ug/L			09/14/13 18:34	1
n-Butylbenzene	ND		1.00	0.240	ug/L			09/14/13 18:34	1
N-Propylbenzene	ND		1.00	0.170	ug/L			09/14/13 18:34	1
p-Isopropyltoluene	ND		1.00	0.170	ug/L			09/14/13 18:34	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			09/14/13 18:34	1
Styrene	ND		1.00	0.260	ug/L			09/14/13 18:34	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			09/14/13 18:34	1
Tetrachloroethene	ND		1.00	0.140	ug/L			09/14/13 18:34	1
Toluene	ND		1.00	0.170	ug/L			09/14/13 18:34	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			09/14/13 18:34	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/14/13 18:34	1
Trichloroethene	ND		1.00	0.200	ug/L			09/14/13 18:34	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			09/14/13 18:34	1
Vinyl chloride	ND		1.00	0.180	ug/L			09/14/13 18:34	1
Xylenes, Total	ND		2.00	0.380	ug/L			09/14/13 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*09/14/13 18:34*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*09/14/13 18:34*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*09/14/13 18:34*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*09/14/13 18:34*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0100	0.00670	mg/L		09/16/13 08:35	09/17/13 18:22	1
Arsenic	ND		0.0100	0.00470	mg/L		09/16/13 08:35	09/17/13 18:22	1
Barium	ND		0.0100	0.000500	mg/L		09/16/13 08:35	09/17/13 18:22	1
Beryllium	ND		0.00400	0.000300	mg/L		09/16/13 08:35	09/17/13 18:22	1
Cadmium	ND		0.00100	0.000200	mg/L		09/16/13 08:35	09/17/13 18:22	1
Chromium	ND		0.00500	0.00120	mg/L		09/16/13 08:35	09/17/13 18:22	1
Cobalt	ND		0.0100	0.000900	mg/L		09/16/13 08:35	09/17/13 18:22	1
Copper	ND		0.0100	0.00700	mg/L		09/16/13 08:35	09/17/13 18:22	1
Lead	ND		0.00500	0.00350	mg/L		09/16/13 08:35	09/17/13 18:22	1
Nickel	ND		0.0100	0.00130	mg/L		09/16/13 08:35	09/17/13 18:22	1
Selenium	ND		0.0100	0.00640	mg/L		09/16/13 08:35	09/17/13 18:22	1
Silver	ND		0.00500	0.00130	mg/L		09/16/13 08:35	09/17/13 18:22	1
Thallium	ND		0.0100	0.00450	mg/L		09/16/13 08:35	09/17/13 18:22	1
Vanadium	ND		0.0200	0.0150	mg/L		09/16/13 08:35	09/17/13 18:22	1
Zinc	0.00170	J B	0.0500	0.000400	mg/L		09/16/13 08:35	09/17/13 18:22	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-107138/7
Matrix: Water
Analysis Batch: 107138

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			09/14/13 15:50	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			09/14/13 15:50	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			09/14/13 15:50	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			09/14/13 15:50	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			09/14/13 15:50	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			09/14/13 15:50	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			09/14/13 15:50	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			09/14/13 15:50	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			09/14/13 15:50	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			09/14/13 15:50	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			09/14/13 15:50	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			09/14/13 15:50	1
1,2-Dibromoethane (EDB)	ND		1.00	0.210	ug/L			09/14/13 15:50	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			09/14/13 15:50	1
1,2-Dichloroethane	ND		1.00	0.200	ug/L			09/14/13 15:50	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			09/14/13 15:50	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			09/14/13 15:50	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			09/14/13 15:50	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			09/14/13 15:50	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			09/14/13 15:50	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			09/14/13 15:50	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			09/14/13 15:50	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			09/14/13 15:50	1
2-Hexanone	ND		5.00	1.28	ug/L			09/14/13 15:50	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			09/14/13 15:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810	ug/L			09/14/13 15:50	1
Acetone	ND		5.00	2.66	ug/L			09/14/13 15:50	1
Benzene	ND		1.00	0.200	ug/L			09/14/13 15:50	1
Bromobenzene	ND		1.00	0.210	ug/L			09/14/13 15:50	1
Bromochloromethane	ND		1.00	0.150	ug/L			09/14/13 15:50	1
Bromodichloromethane	ND		1.00	0.170	ug/L			09/14/13 15:50	1
Bromoform	ND		1.00	0.290	ug/L			09/14/13 15:50	1
Bromomethane	ND		1.00	0.350	ug/L			09/14/13 15:50	1
Carbon disulfide	ND		1.00	0.220	ug/L			09/14/13 15:50	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			09/14/13 15:50	1
Chlorobenzene	ND		1.00	0.180	ug/L			09/14/13 15:50	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			09/14/13 15:50	1
Chloroethane	ND		1.00	0.360	ug/L			09/14/13 15:50	1
Chloroform	ND		1.00	0.230	ug/L			09/14/13 15:50	1
Chloromethane	ND		1.00	0.360	ug/L			09/14/13 15:50	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			09/14/13 15:50	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/14/13 15:50	1
Dibromomethane	ND		1.00	0.450	ug/L			09/14/13 15:50	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			09/14/13 15:50	1
Ethylbenzene	ND		1.00	0.190	ug/L			09/14/13 15:50	1
Hexachlorobutadiene	1.259	J	2.00	0.380	ug/L			09/14/13 15:50	1
Isopropylbenzene	ND		1.00	0.330	ug/L			09/14/13 15:50	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			09/14/13 15:50	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-107138/7
Matrix: Water
Analysis Batch: 107138

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	0.220	ug/L			09/14/13 15:50	1
Naphthalene	ND		5.00	0.210	ug/L			09/14/13 15:50	1
n-Butylbenzene	ND		1.00	0.240	ug/L			09/14/13 15:50	1
N-Propylbenzene	ND		1.00	0.170	ug/L			09/14/13 15:50	1
p-Isopropyltoluene	ND		1.00	0.170	ug/L			09/14/13 15:50	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			09/14/13 15:50	1
Styrene	ND		1.00	0.280	ug/L			09/14/13 15:50	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			09/14/13 15:50	1
Tetrachloroethene	ND		1.00	0.140	ug/L			09/14/13 15:50	1
Toluene	ND		1.00	0.170	ug/L			09/14/13 15:50	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			09/14/13 15:50	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			09/14/13 15:50	1
Trichloroethene	ND		1.00	0.200	ug/L			09/14/13 15:50	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			09/14/13 15:50	1
Vinyl chloride	ND		1.00	0.180	ug/L			09/14/13 15:50	1
Xylenes, Total	ND		2.00	0.380	ug/L			09/14/13 15:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*09/14/13 15:50*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/14/13 15:50*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*09/14/13 15:50*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*09/14/13 15:50*	*1*

Lab Sample ID: LCS 490-107138/3
Matrix: Water
Analysis Batch: 107138

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	48.85		ug/L		98	74 - 135
1,1,1-Trichloroethane	50.0	51.89		ug/L		104	78 - 135
1,1,2,2-Tetrachloroethane	50.0	44.85		ug/L		90	69 - 131
1,1,2-Trichloroethane	50.0	47.41		ug/L		95	80 - 124
1,1-Dichloroethane	50.0	52.38		ug/L		105	78 - 125
1,1-Dichloroethene	50.0	54.14		ug/L		108	79 - 124
1,1-Dichloropropene	50.0	50.71		ug/L		101	80 - 122
1,2,3-Trichlorobenzene	50.0	51.92		ug/L		104	62 - 133
1,2,3-Trichloropropane	50.0	45.84		ug/L		92	70 - 131
1,2,4-Trichlorobenzene	50.0	50.24		ug/L		100	63 - 133
1,2,4-Trimethylbenzene	50.0	50.98		ug/L		102	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	46.75		ug/L		94	54 - 125
1,2-Dibromoethane (EDB)	50.0	46.48		ug/L		93	80 - 129
1,2-Dichlorobenzene	50.0	46.21		ug/L		92	80 - 121
1,2-Dichloroethane	50.0	48.33		ug/L		97	77 - 121
1,2-Dichloropropane	50.0	49.70		ug/L		99	75 - 120
1,3,5-Trimethylbenzene	50.0	48.30		ug/L		97	77 - 127
1,3-Dichlorobenzene	50.0	50.84		ug/L		102	80 - 122
1,3-Dichloropropane	50.0	46.39		ug/L		93	80 - 125
1,4-Dichlorobenzene	50.0	50.49		ug/L		101	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-107138/3
Matrix: Water
Analysis Batch: 107138

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	50.0	52.00		ug/L		104	43 - 161
2-Butanone (MEK)	250	238.9		ug/L		96	62 - 133
2-Chlorotoluene	50.0	50.97		ug/L		102	75 - 126
2-Hexanone	250	228.4		ug/L		91	60 - 142
4-Chlorotoluene	50.0	51.23		ug/L		102	75 - 130
4-Methyl-2-pentanone (MIBK)	250	224.5		ug/L		90	60 - 137
Acetone	250	234.5		ug/L		94	54 - 145
Benzene	50.0	51.62		ug/L		103	80 - 121
Bromobenzene	50.0	46.05		ug/L		92	68 - 130
Bromochloromethane	50.0	51.07		ug/L		102	78 - 129
Bromodichloromethane	50.0	51.26		ug/L		103	75 - 129
Bromoform	50.0	49.76		ug/L		100	46 - 145
Bromomethane	50.0	51.76		ug/L		104	41 - 150
Carbon disulfide	50.0	54.73		ug/L		109	77 - 126
Carbon tetrachloride	50.0	54.53		ug/L		109	64 - 147
Chlorobenzene	50.0	47.44		ug/L		95	80 - 120
Chlorodibromomethane	50.0	49.40		ug/L		99	69 - 133
Chloroethane	50.0	48.65		ug/L		97	72 - 120
Chloroform	50.0	50.13		ug/L		100	73 - 129
Chloromethane	50.0	50.42		ug/L		101	12 - 150
cis-1,2-Dichloroethene	50.0	52.01		ug/L		104	76 - 125
cis-1,3-Dichloropropene	50.0	48.23		ug/L		96	74 - 140
Dibromomethane	50.0	52.00		ug/L		104	71 - 125
Dichlorodifluoromethane	50.0	56.63		ug/L		113	37 - 127
Ethylbenzene	50.0	51.08		ug/L		102	80 - 130
Hexachlorobutadiene	50.0	50.53		ug/L		101	49 - 146
Isopropylbenzene	50.0	49.83		ug/L		100	80 - 141
Methyl tert-butyl ether	50.0	48.01		ug/L		96	72 - 133
Methylene Chloride	50.0	52.47		ug/L		105	79 - 123
Naphthalene	50.0	53.02		ug/L		106	62 - 138
n-Butylbenzene	50.0	52.98		ug/L		106	68 - 132
N-Propylbenzene	50.0	47.11		ug/L		94	75 - 129
p-Isopropyltoluene	50.0	48.94		ug/L		98	75 - 128
sec-Butylbenzene	50.0	49.75		ug/L		100	76 - 128
Styrene	50.0	47.78		ug/L		96	80 - 127
tert-Butylbenzene	50.0	48.75		ug/L		98	76 - 126
Tetrachloroethene	50.0	44.87		ug/L		90	80 - 126
Toluene	50.0	51.34		ug/L		103	80 - 126
trans-1,2-Dichloroethene	50.0	51.44		ug/L		103	79 - 126
trans-1,3-Dichloropropene	50.0	46.75		ug/L		94	63 - 134
Trichloroethene	50.0	50.84		ug/L		102	80 - 123
Trichlorofluoromethane	50.0	53.63		ug/L		107	65 - 124
Vinyl chloride	50.0	51.60		ug/L		103	68 - 120
Xylenes, Total	100	102.6		ug/L		103	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-107138/3
Matrix: Water
Analysis Batch: 107138

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	103		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCSD 490-107138/4
Matrix: Water
Analysis Batch: 107138

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	48.89		ug/L		98	74 - 135	0	16
1,1,1-Trichloroethane	50.0	50.92		ug/L		102	78 - 135	2	17
1,1,2,2-Tetrachloroethane	50.0	46.11		ug/L		92	69 - 131	3	20
1,1,2-Trichloroethane	50.0	48.76		ug/L		98	80 - 124	3	15
1,1-Dichloroethane	50.0	51.96		ug/L		104	78 - 125	1	17
1,1-Dichloroethene	50.0	53.54		ug/L		107	79 - 124	1	17
1,1-Dichloropropene	50.0	49.34		ug/L		99	80 - 122	3	17
1,2,3-Trichlorobenzene	50.0	55.04		ug/L		110	62 - 133	6	25
1,2,3-Trichloropropane	50.0	47.83		ug/L		96	70 - 131	4	19
1,2,4-Trichlorobenzene	50.0	51.69		ug/L		103	63 - 133	3	19
1,2,4-Trimethylbenzene	50.0	50.72		ug/L		101	77 - 126	1	16
1,2-Dibromo-3-Chloropropane	50.0	47.71		ug/L		95	54 - 125	2	24
1,2-Dibromoethane (EDB)	50.0	47.71		ug/L		95	80 - 129	3	15
1,2-Dichlorobenzene	50.0	46.78		ug/L		94	80 - 121	1	15
1,2-Dichloroethane	50.0	48.08		ug/L		96	77 - 121	1	17
1,2-Dichloropropane	50.0	49.57		ug/L		99	75 - 120	0	17
1,3,5-Trimethylbenzene	50.0	48.14		ug/L		96	77 - 127	0	17
1,3-Dichlorobenzene	50.0	51.30		ug/L		103	80 - 122	1	15
1,3-Dichloropropane	50.0	47.42		ug/L		95	80 - 125	2	14
1,4-Dichlorobenzene	50.0	51.24		ug/L		102	80 - 120	1	15
2,2-Dichloropropane	50.0	50.74		ug/L		101	43 - 161	2	18
2-Butanone (MEK)	250	238.7		ug/L		95	62 - 133	0	19
2-Chlorotoluene	50.0	50.96		ug/L		102	75 - 126	0	17
2-Hexanone	250	238.0		ug/L		95	60 - 142	4	15
4-Chlorotoluene	50.0	51.47		ug/L		103	75 - 130	0	18
4-Methyl-2-pentanone (MIBK)	250	235.1		ug/L		94	60 - 137	5	17
Acetone	250	250.4		ug/L		100	54 - 145	7	21
Benzene	50.0	50.79		ug/L		102	80 - 121	2	17
Bromobenzene	50.0	46.62		ug/L		93	68 - 130	1	20
Bromochloromethane	50.0	51.09		ug/L		102	78 - 129	0	17
Bromodichloromethane	50.0	51.17		ug/L		102	75 - 129	0	18
Bromoform	50.0	51.65		ug/L		103	46 - 145	4	16
Bromomethane	50.0	52.58		ug/L		105	41 - 150	2	50
Carbon disulfide	50.0	53.16		ug/L		106	77 - 126	3	21
Carbon tetrachloride	50.0	52.95		ug/L		106	64 - 147	3	19
Chlorobenzene	50.0	47.80		ug/L		96	80 - 120	1	14
Chlorodibromomethane	50.0	50.47		ug/L		101	69 - 133	2	15
Chloroethane	50.0	48.21		ug/L		96	72 - 120	1	20
Chloroform	50.0	50.12		ug/L		100	73 - 129	0	18
Chloromethane	50.0	48.74		ug/L		97	12 - 150	3	31

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-107138/4
Matrix: Water
Analysis Batch: 107138

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	50.0	51.10		ug/L		102	76 - 125	2	17
cis-1,3-Dichloropropene	50.0	48.59		ug/L		97	74 - 140	1	15
Dibromomethane	50.0	52.35		ug/L		105	71 - 125	1	16
Dichlorodifluoromethane	50.0	54.61		ug/L		109	37 - 127	4	18
Ethylbenzene	50.0	50.86		ug/L		102	80 - 130	0	15
Hexachlorobutadiene	50.0	52.47		ug/L		105	49 - 146	4	23
Isopropylbenzene	50.0	49.12		ug/L		98	80 - 141	1	16
Methyl tert-butyl ether	50.0	49.50		ug/L		99	72 - 133	3	16
Methylene Chloride	50.0	52.26		ug/L		105	79 - 123	0	17
Naphthalene	50.0	54.11		ug/L		108	62 - 138	2	26
n-Butylbenzene	50.0	52.41		ug/L		105	68 - 132	1	18
N-Propylbenzene	50.0	46.54		ug/L		93	75 - 129	1	17
p-Isopropyltoluene	50.0	48.43		ug/L		97	75 - 128	1	16
sec-Butylbenzene	50.0	48.95		ug/L		98	76 - 128	2	16
Styrene	50.0	48.12		ug/L		96	80 - 127	1	24
tert-Butylbenzene	50.0	48.36		ug/L		97	76 - 126	1	16
Tetrachloroethene	50.0	45.29		ug/L		91	80 - 126	1	16
Toluene	50.0	51.35		ug/L		103	80 - 126	0	15
trans-1,2-Dichloroethene	50.0	51.32		ug/L		103	79 - 126	0	16
trans-1,3-Dichloropropene	50.0	47.56		ug/L		95	63 - 134	2	14
Trichloroethene	50.0	49.80		ug/L		100	80 - 123	2	17
Trichlorofluoromethane	50.0	51.27		ug/L		103	65 - 124	4	18
Vinyl chloride	50.0	49.74		ug/L		99	68 - 120	4	17
Xylenes, Total	100	101.8		ug/L		102	80 - 132	1	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: 490-35019-B-1 MSD
Matrix: Water
Analysis Batch: 107138

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		50.0	47.97		ug/L		96	73 - 141	1	16
1,1,1-Trichloroethane	ND		50.0	52.30		ug/L		105	76 - 149	2	17
1,1,2,2-Tetrachloroethane	ND		50.0	44.60		ug/L		89	56 - 143	2	20
1,1,2-Trichloroethane	ND		50.0	46.01		ug/L		92	74 - 134	2	15
1,1-Dichloroethane	ND		50.0	50.51		ug/L		101	71 - 139	2	17
1,1-Dichloroethene	ND		50.0	54.35		ug/L		109	70 - 142	3	17
1,1-Dichloropropene	ND		50.0	50.92		ug/L		102	76 - 139	2	17
1,2,3-Trichlorobenzene	ND		50.0	50.11		ug/L		100	55 - 138	14	25
1,2,3-Trichloropropane	ND		50.0	45.91		ug/L		92	53 - 144	3	19
1,2,4-Trichlorobenzene	ND		50.0	47.95		ug/L		96	60 - 136	9	19
1,2,4-Trimethylbenzene	ND		50.0	47.54		ug/L		95	69 - 136	1	16
1,2-Dibromo-3-Chloropropane	ND		50.0	44.24		ug/L		88	52 - 126	2	24

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-35019-B-1 MSD
Matrix: Water
Analysis Batch: 107138

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND		50.0	45.39		ug/L		91	75 - 137	0	15
1,2-Dichlorobenzene	ND		50.0	43.55		ug/L		87	79 - 128	0	15
1,2-Dichloroethane	ND		50.0	47.29		ug/L		95	64 - 136	1	17
1,2-Dichloropropane	ND		50.0	49.12		ug/L		98	67 - 131	0	17
1,3,5-Trimethylbenzene	ND		50.0	45.05		ug/L		90	69 - 139	0	17
1,3-Dichlorobenzene	ND		50.0	47.45		ug/L		95	77 - 131	1	15
1,3-Dichloropropane	ND		50.0	45.49		ug/L		91	72 - 134	0	14
1,4-Dichlorobenzene	ND		50.0	47.80		ug/L		96	78 - 126	0	15
2,2-Dichloropropane	ND		50.0	48.79		ug/L		98	37 - 175	1	18
2-Butanone (MEK)	ND		250	224.0		ug/L		90	50 - 138	4	19
2-Chlorotoluene	ND		50.0	48.03		ug/L		96	67 - 138	0	17
2-Hexanone	ND		250	232.2		ug/L		93	50 - 150	4	15
4-Chlorotoluene	ND		50.0	48.14		ug/L		96	69 - 138	0	18
4-Methyl-2-pentanone (MIBK)	ND		250	231.3		ug/L		93	50 - 147	3	17
Acetone	ND		250	253.3		ug/L		101	45 - 141	9	21
Benzene	ND		50.0	51.60		ug/L		103	75 - 133	0	17
Bromobenzene	ND		50.0	43.61		ug/L		87	60 - 138	1	20
Bromochloromethane	ND		50.0	49.36		ug/L		99	67 - 139	0	17
Bromodichloromethane	ND		50.0	50.51		ug/L		101	70 - 140	1	18
Bromoform	ND		50.0	48.98		ug/L		98	42 - 147	2	16
Bromomethane	ND		50.0	50.88		ug/L		102	16 - 163	8	50
Carbon disulfide	ND		50.0	57.43		ug/L		115	48 - 152	1	21
Carbon tetrachloride	ND		50.0	54.81		ug/L		110	62 - 164	2	19
Chlorobenzene	ND		50.0	46.29		ug/L		93	80 - 129	1	14
Chlorodibromomethane	ND		50.0	48.88		ug/L		98	66 - 140	3	15
Chloroethane	ND		50.0	50.90		ug/L		102	58 - 137	3	20
Chloroform	ND		50.0	49.69		ug/L		99	66 - 138	0	18
Chloromethane	ND		50.0	49.18		ug/L		98	10 - 169	1	31
cis-1,2-Dichloroethene	0.243	J	50.0	50.91		ug/L		101	68 - 138	3	17
cis-1,3-Dichloropropene	ND		50.0	46.08		ug/L		92	71 - 141	1	15
Dibromomethane	ND		50.0	51.14		ug/L		102	58 - 140	2	16
Dichlorodifluoromethane	ND		50.0	64.41	F	ug/L		129	40 - 127	5	18
Ethylbenzene	ND		50.0	50.17		ug/L		100	79 - 139	1	15
Hexachlorobutadiene	0.494	J B	50.0	47.93		ug/L		95	45 - 155	11	23
Isopropylbenzene	ND		50.0	48.47		ug/L		97	80 - 153	1	16
Methyl tert-butyl ether	ND		50.0	47.53		ug/L		95	66 - 141	2	16
Methylene Chloride	ND		50.0	51.37		ug/L		103	64 - 139	1	17
Naphthalene	1.15	J	50.0	51.24		ug/L		100	55 - 140	8	26
n-Butylbenzene	ND		50.0	49.25		ug/L		99	66 - 141	2	18
N-Propylbenzene	ND		50.0	44.11		ug/L		88	69 - 142	1	17
p-Isopropyltoluene	ND		50.0	46.15		ug/L		92	71 - 137	2	16
sec-Butylbenzene	ND		50.0	47.02		ug/L		94	73 - 138	3	16
Styrene	ND		50.0	46.74		ug/L		93	61 - 148	1	24
tert-Butylbenzene	ND		50.0	46.62		ug/L		93	70 - 138	0	16
Tetrachloroethene	ND		50.0	42.66		ug/L		85	72 - 145	0	16
Toluene	ND		50.0	50.52		ug/L		101	75 - 136	0	15
trans-1,2-Dichloroethene	ND		50.0	51.62		ug/L		103	66 - 143	0	16
trans-1,3-Dichloropropene	ND		50.0	45.35		ug/L		91	59 - 135	1	14

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-35019-B-1 MSD
Matrix: Water
Analysis Batch: 107138

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichloroethene	ND		50.0	50.40		ug/L		101	73 - 144	1	17
Trichlorofluoromethane	ND		50.0	55.98		ug/L		112	58 - 139	2	18
Vinyl chloride	ND		50.0	55.85		ug/L		112	56 - 129	1	17
Xylenes, Total	ND		100	98.85		ug/L		99	74 - 141	1	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: 490-35019-C-1 MS
Matrix: Water
Analysis Batch: 107138

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		50.0	47.64		ug/L		95	73 - 141
1,1,1-Trichloroethane	ND		50.0	53.28		ug/L		107	76 - 149
1,1,2,2-Tetrachloroethane	ND		50.0	43.87		ug/L		88	56 - 143
1,1,2-Trichloroethane	ND		50.0	47.11		ug/L		94	74 - 134
1,1-Dichloroethane	ND		50.0	51.70		ug/L		103	71 - 139
1,1-Dichloroethene	ND		50.0	55.83		ug/L		112	70 - 142
1,1-Dichloropropene	ND		50.0	52.11		ug/L		104	76 - 139
1,2,3-Trichlorobenzene	ND		50.0	43.54		ug/L		87	55 - 138
1,2,3-Trichloropropane	ND		50.0	44.63		ug/L		89	53 - 144
1,2,4-Trichlorobenzene	ND		50.0	43.96		ug/L		88	60 - 136
1,2,4-Trimethylbenzene	ND		50.0	47.97		ug/L		96	69 - 136
1,2-Dibromo-3-Chloropropane	ND		50.0	43.48		ug/L		87	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	45.48		ug/L		91	75 - 137
1,2-Dichlorobenzene	ND		50.0	43.37		ug/L		87	79 - 128
1,2-Dichloroethane	ND		50.0	47.97		ug/L		96	64 - 136
1,2-Dichloropropane	ND		50.0	49.14		ug/L		98	67 - 131
1,3,5-Trimethylbenzene	ND		50.0	45.14		ug/L		90	69 - 139
1,3-Dichlorobenzene	ND		50.0	47.74		ug/L		95	77 - 131
1,3-Dichloropropane	ND		50.0	45.45		ug/L		91	72 - 134
1,4-Dichlorobenzene	ND		50.0	48.01		ug/L		96	78 - 126
2,2-Dichloropropane	ND		50.0	48.26		ug/L		97	37 - 175
2-Butanone (MEK)	ND		250	214.9		ug/L		86	50 - 138
2-Chlorotoluene	ND		50.0	48.26		ug/L		97	67 - 138
2-Hexanone	ND		250	222.1		ug/L		89	50 - 150
4-Chlorotoluene	ND		50.0	48.31		ug/L		97	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		250	224.4		ug/L		90	50 - 147
Acetone	ND		250	232.1		ug/L		93	45 - 141
Benzene	ND		50.0	51.78		ug/L		104	75 - 133
Bromobenzene	ND		50.0	43.96		ug/L		88	60 - 138
Bromochloromethane	ND		50.0	49.12		ug/L		98	67 - 139
Bromodichloromethane	ND		50.0	49.86		ug/L		100	70 - 140
Bromoform	ND		50.0	48.07		ug/L		96	42 - 147

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-35019-C-1 MS
Matrix: Water
Analysis Batch: 107138

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	ND		50.0	47.00		ug/L		94	16 - 163
Carbon disulfide	ND		50.0	58.10		ug/L		116	48 - 152
Carbon tetrachloride	ND		50.0	55.71		ug/L		111	62 - 164
Chlorobenzene	ND		50.0	45.95		ug/L		92	80 - 129
Chlorodibromomethane	ND		50.0	47.65		ug/L		95	66 - 140
Chloroethane	ND		50.0	52.69		ug/L		105	58 - 137
Chloroform	ND		50.0	49.56		ug/L		99	66 - 138
Chloromethane	ND		50.0	48.88		ug/L		98	10 - 169
cis-1,2-Dichloroethene	0.243	J	50.0	49.62		ug/L		99	68 - 138
cis-1,3-Dichloropropene	ND		50.0	45.74		ug/L		91	71 - 141
Dibromomethane	ND		50.0	52.16		ug/L		104	58 - 140
Dichlorodifluoromethane	ND		50.0	67.45	F	ug/L		135	40 - 127
Ethylbenzene	ND		50.0	49.66		ug/L		99	79 - 139
Hexachlorobutadiene	0.494	J B	50.0	42.74		ug/L		84	45 - 155
Isopropylbenzene	ND		50.0	48.04		ug/L		96	80 - 153
Methyl tert-butyl ether	ND		50.0	48.27		ug/L		97	66 - 141
Methylene Chloride	ND		50.0	51.95		ug/L		104	64 - 139
Naphthalene	1.15	J	50.0	47.30		ug/L		92	55 - 140
n-Butylbenzene	ND		50.0	48.34		ug/L		97	66 - 141
N-Propylbenzene	ND		50.0	44.39		ug/L		89	69 - 142
p-Isopropyltoluene	ND		50.0	45.36		ug/L		91	71 - 137
sec-Butylbenzene	ND		50.0	45.72		ug/L		91	73 - 138
Styrene	ND		50.0	46.05		ug/L		92	61 - 146
tert-Butylbenzene	ND		50.0	46.73		ug/L		93	70 - 138
Tetrachloroethene	ND		50.0	42.79		ug/L		86	72 - 145
Toluene	ND		50.0	50.68		ug/L		101	75 - 136
trans-1,2-Dichloroethene	ND		50.0	51.51		ug/L		103	66 - 143
trans-1,3-Dichloropropene	ND		50.0	44.89		ug/L		90	59 - 135
Trichloroethene	ND		50.0	51.09		ug/L		102	73 - 144
Trichlorofluoromethane	ND		50.0	56.89		ug/L		114	58 - 139
Vinyl chloride	ND		50.0	56.24		ug/L		112	56 - 129
Xylenes, Total	ND		100	98.35		ug/L		98	74 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 490-107292/1-A
Matrix: Water
Analysis Batch: 107945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0100	0.00670	mg/L		09/16/13 08:35	09/17/13 17:10	1
Arsenic	ND		0.0100	0.00470	mg/L		09/16/13 08:35	09/17/13 17:10	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 490-107292/1-A
Matrix: Water
Analysis Batch: 107945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.0100	0.000500	mg/L		09/16/13 08:35	09/17/13 17:10	1
Beryllium	ND		0.00400	0.000300	mg/L		09/16/13 08:35	09/17/13 17:10	1
Cadmium	ND		0.00100	0.000200	mg/L		09/16/13 08:35	09/17/13 17:10	1
Chromium	ND		0.00500	0.00120	mg/L		09/16/13 08:35	09/17/13 17:10	1
Cobalt	ND		0.0100	0.000900	mg/L		09/16/13 08:35	09/17/13 17:10	1
Copper	ND		0.0100	0.00700	mg/L		09/16/13 08:35	09/17/13 17:10	1
Lead	ND		0.00500	0.00350	mg/L		09/16/13 08:35	09/17/13 17:10	1
Nickel	ND		0.0100	0.00130	mg/L		09/16/13 08:35	09/17/13 17:10	1
Selenium	ND		0.0100	0.00640	mg/L		09/16/13 08:35	09/17/13 17:10	1
Silver	ND		0.00500	0.00130	mg/L		09/16/13 08:35	09/17/13 17:10	1
Thallium	ND		0.0100	0.00450	mg/L		09/16/13 08:35	09/17/13 17:10	1
Vanadium	ND		0.0200	0.0150	mg/L		09/16/13 08:35	09/17/13 17:10	1
Zinc	0.004000	J	0.0500	0.000400	mg/L		09/16/13 08:35	09/17/13 17:10	1

Lab Sample ID: LCS 490-107292/2-A
Matrix: Water
Analysis Batch: 107945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107292

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.100	0.09990		mg/L		100	80 - 120
Arsenic	0.0500	0.04790		mg/L		96	80 - 120
Barium	2.00	2.199		mg/L		110	80 - 120
Beryllium	0.0500	0.05330		mg/L		107	80 - 120
Cadmium	0.0500	0.05400		mg/L		108	80 - 120
Chromium	0.200	0.2141		mg/L		107	80 - 120
Cobalt	0.500	0.5266		mg/L		105	80 - 120
Copper	0.250	0.2595		mg/L		104	80 - 120
Lead	0.0500	0.05460		mg/L		109	80 - 120
Nickel	0.500	0.5368		mg/L		107	80 - 120
Selenium	0.0500	0.05380		mg/L		108	80 - 120
Silver	0.0500	0.05440		mg/L		109	80 - 120
Thallium	0.0500	0.05520		mg/L		110	80 - 120
Vanadium	0.500	0.5292		mg/L		106	80 - 120
Zinc	0.500	0.5282		mg/L		106	80 - 120

Lab Sample ID: 490-35156-1 MS
Matrix: Ground Water
Analysis Batch: 107945

Client Sample ID: 32015 MW-1R
Prep Type: Total/NA
Prep Batch: 107292

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		0.100	0.1068		mg/L		107	75 - 125
Arsenic	ND		0.0500	0.05290		mg/L		106	75 - 125
Barium	0.0394		2.00	2.162		mg/L		106	75 - 125
Beryllium	ND		0.0500	0.05320		mg/L		106	75 - 125
Cadmium	ND		0.0500	0.05290		mg/L		106	75 - 125
Chromium	0.00180	J	0.200	0.2118		mg/L		105	75 - 125
Cobalt	ND		0.500	0.5229		mg/L		105	75 - 125
Copper	0.0101		0.250	0.2667		mg/L		103	75 - 125
Lead	0.00620		0.0500	0.06010		mg/L		108	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 490-35156-1 MS
Matrix: Ground Water
Analysis Batch: 107945

Client Sample ID: 32015 MW-1R
Prep Type: Total/NA
Prep Batch: 107292

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	ND		0.500	0.5335		mg/L		107	75 - 125
Selenium	ND		0.0500	0.04190		mg/L		84	75 - 125
Silver	ND		0.0500	0.05390		mg/L		108	75 - 125
Thallium	ND		0.0500	0.05220		mg/L		104	75 - 125
Vanadium	ND		0.500	0.5250		mg/L		105	75 - 125
Zinc	0.0294	J B	0.500	0.5554		mg/L		105	75 - 125

Lab Sample ID: 490-35156-1 MSD
Matrix: Ground Water
Analysis Batch: 107945

Client Sample ID: 32015 MW-1R
Prep Type: Total/NA
Prep Batch: 107292

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		0.100	0.1093		mg/L		109	75 - 125	2	20
Arsenic	ND		0.0500	0.05200		mg/L		104	75 - 125	2	20
Barium	0.0394		2.00	2.180		mg/L		107	75 - 125	1	20
Beryllium	ND		0.0500	0.05410		mg/L		108	75 - 125	2	20
Cadmium	ND		0.0500	0.05340		mg/L		107	75 - 125	1	20
Chromium	0.00180	J	0.200	0.2134		mg/L		106	75 - 125	1	20
Cobalt	ND		0.500	0.5286		mg/L		106	75 - 125	1	20
Copper	0.0101		0.250	0.2785		mg/L		107	75 - 125	4	20
Lead	0.00620		0.0500	0.06230		mg/L		112	75 - 125	4	20
Nickel	ND		0.500	0.5401		mg/L		108	75 - 125	1	20
Selenium	ND		0.0500	0.04320		mg/L		86	75 - 125	3	20
Silver	ND		0.0500	0.05450		mg/L		109	75 - 125	1	20
Thallium	ND		0.0500	0.05200		mg/L		104	75 - 125	0	20
Vanadium	ND		0.500	0.5330		mg/L		107	75 - 125	2	20
Zinc	0.0294	J B	0.500	0.5609		mg/L		106	75 - 125	1	20

Lab Sample ID: MB 490-109772/1-A
Matrix: Water
Analysis Batch: 110053

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109772

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0100	0.00670	mg/L		09/25/13 13:58	09/26/13 10:56	1
Arsenic	ND		0.0100	0.00470	mg/L		09/25/13 13:58	09/26/13 10:56	1
Barium	ND		0.0100	0.000500	mg/L		09/25/13 13:58	09/26/13 10:56	1
Beryllium	ND		0.00400	0.000300	mg/L		09/25/13 13:58	09/26/13 10:56	1
Cadmium	ND		0.00100	0.000200	mg/L		09/25/13 13:58	09/26/13 10:56	1
Chromium	ND		0.00500	0.00120	mg/L		09/25/13 13:58	09/26/13 10:56	1
Cobalt	ND		0.0100	0.000900	mg/L		09/25/13 13:58	09/26/13 10:56	1
Copper	ND		0.0100	0.00700	mg/L		09/25/13 13:58	09/26/13 10:56	1
Lead	ND		0.00500	0.00350	mg/L		09/25/13 13:58	09/26/13 10:56	1
Nickel	ND		0.0100	0.00130	mg/L		09/25/13 13:58	09/26/13 10:56	1
Selenium	ND		0.0100	0.00640	mg/L		09/25/13 13:58	09/26/13 10:56	1
Silver	ND		0.00500	0.00130	mg/L		09/25/13 13:58	09/26/13 10:56	1
Thallium	ND		0.0100	0.00450	mg/L		09/25/13 13:58	09/26/13 10:56	1
Vanadium	ND		0.0200	0.0150	mg/L		09/25/13 13:58	09/26/13 10:56	1
Zinc	ND		0.0500	0.000400	mg/L		09/25/13 13:58	09/26/13 10:56	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 490-109772/2-A
Matrix: Water
Analysis Batch: 110053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109772

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.100	0.1059		mg/L		106	80 - 120
Arsenic	0.0500	0.05150		mg/L		103	80 - 120
Barium	2.00	2.214		mg/L		111	80 - 120
Beryllium	0.0500	0.05470		mg/L		109	80 - 120
Cadmium	0.0500	0.05230		mg/L		105	80 - 120
Chromium	0.200	0.2099		mg/L		105	80 - 120
Cobalt	0.500	0.5317		mg/L		106	80 - 120
Copper	0.250	0.2692		mg/L		108	80 - 120
Lead	0.0500	0.05650		mg/L		113	80 - 120
Nickel	0.500	0.5469		mg/L		109	80 - 120
Selenium	0.0500	0.05680		mg/L		114	80 - 120
Silver	0.0500	0.05570		mg/L		111	80 - 120
Thallium	0.0500	0.05300		mg/L		106	80 - 120
Vanadium	0.500	0.5436		mg/L		109	80 - 120
Zinc	0.500	0.5093		mg/L		102	80 - 120

Lab Sample ID: LCSD 490-109772/3-A
Matrix: Water
Analysis Batch: 110053

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109772

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.100	0.1067		mg/L		107	80 - 120	1	20
Arsenic	0.0500	0.05010		mg/L		100	80 - 120	3	20
Barium	2.00	2.228		mg/L		111	80 - 120	1	20
Beryllium	0.0500	0.05500		mg/L		110	80 - 120	1	20
Cadmium	0.0500	0.05230		mg/L		105	80 - 120	0	20
Chromium	0.200	0.2102		mg/L		105	80 - 120	0	20
Cobalt	0.500	0.5371		mg/L		107	80 - 120	1	20
Copper	0.250	0.2673		mg/L		107	80 - 120	1	20
Lead	0.0500	0.05580		mg/L		112	80 - 120	1	20
Nickel	0.500	0.5518		mg/L		110	80 - 120	1	20
Selenium	0.0500	0.05570		mg/L		111	80 - 120	2	20
Silver	0.0500	0.05620		mg/L		112	80 - 120	1	20
Thallium	0.0500	0.05260		mg/L		105	80 - 120	1	20
Vanadium	0.500	0.5442		mg/L		109	80 - 120	0	20
Zinc	0.500	0.5159		mg/L		103	80 - 120	1	20

QC Association Summary

Client: W.Z. Baumgartner & Associates
Project/Site: 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

GC/MS VOA

Analysis Batch: 107138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35019-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
490-35019-C-1 MS	Matrix Spike	Total/NA	Water	8260B	
490-35156-1	32015 MW-1R	Total/NA	Ground Water	8260B	
490-35156-2	32015 MW-12	Total/NA	Ground Water	8260B	
490-35156-3	32015 MW-13	Total/NA	Ground Water	8260B	
490-35156-4	32015 MW-14	Total/NA	Ground Water	8260B	
490-35156-5	32015 SW-1	Total/NA	Ground Water	8260B	
490-35156-6	32015 SW-2	Total/NA	Ground Water	8260B	
490-35156-7	32015 FIELD BLANK	Total/NA	Ground Water	8260B	
490-35156-8	32015 TRIP BLANK	Total/NA	Ground Water	8260B	
LCS 490-107138/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-107138/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-107138/7	Method Blank	Total/NA	Water	8260B	

Metals

Prep Batch: 107292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35156-1	32015 MW-1R	Total/NA	Ground Water	3010A	
490-35156-1 MS	32015 MW-1R	Total/NA	Ground Water	3010A	
490-35156-1 MSD	32015 MW-1R	Total/NA	Ground Water	3010A	
490-35156-2	32015 MW-12	Total/NA	Ground Water	3010A	
490-35156-3	32015 MW-13	Total/NA	Ground Water	3010A	
490-35156-5	32015 SW-1	Total/NA	Ground Water	3010A	
490-35156-6	32015 SW-2	Total/NA	Ground Water	3010A	
490-35156-7	32015 FIELD BLANK	Total/NA	Ground Water	3010A	
490-35156-8	32015 TRIP BLANK	Total/NA	Ground Water	3010A	
LCS 490-107292/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 490-107292/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 107945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35156-1	32015 MW-1R	Total/NA	Ground Water	6010C	107292
490-35156-1 MS	32015 MW-1R	Total/NA	Ground Water	6010C	107292
490-35156-1 MSD	32015 MW-1R	Total/NA	Ground Water	6010C	107292
490-35156-2	32015 MW-12	Total/NA	Ground Water	6010C	107292
490-35156-3	32015 MW-13	Total/NA	Ground Water	6010C	107292
490-35156-5	32015 SW-1	Total/NA	Ground Water	6010C	107292
490-35156-6	32015 SW-2	Total/NA	Ground Water	6010C	107292
490-35156-7	32015 FIELD BLANK	Total/NA	Ground Water	6010C	107292
490-35156-8	32015 TRIP BLANK	Total/NA	Ground Water	6010C	107292
LCS 490-107292/2-A	Lab Control Sample	Total/NA	Water	6010C	107292
MB 490-107292/1-A	Method Blank	Total/NA	Water	6010C	107292

Prep Batch: 109772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35156-4	32015 MW-14	Total/NA	Ground Water	3010A	
LCS 490-109772/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 490-109772/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 490-109772/1-A	Method Blank	Total/NA	Water	3010A	

QC Association Summary

Client: W.Z. Baumgartner & Associates
Project/Site: 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

Metals (Continued)

Analysis Batch: 110053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35156-4	32015 MW-14	Total/NA	Ground Water	6010C	109772
LCS 490-109772/2-A	Lab Control Sample	Total/NA	Water	6010C	109772
LCSD 490-109772/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	109772
MB 490-109772/1-A	Method Blank	Total/NA	Water	6010C	109772

Lab Chronicle

Client: W.Z. Baumgartner & Associates
Project/Site: 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

Client Sample ID: 32015 MW-1R

Lab Sample ID: 490-35156-1
Matrix: Ground Water

Date Collected: 09/11/13 11:20
Date Received: 09/12/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	107138	09/14/13 22:14	MJH	TAL NSH
Total/NA	Prep	3010A			107292	09/16/13 08:35	NLI	TAL NSH
Total/NA	Analysis	6010C		1	107945	09/17/13 17:29	KDJ	TAL NSH

Client Sample ID: 32015 MW-12

Lab Sample ID: 490-35156-2
Matrix: Ground Water

Date Collected: 09/11/13 17:15
Date Received: 09/12/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	107138	09/14/13 22:41	MJH	TAL NSH
Total/NA	Prep	3010A			107292	09/16/13 08:35	NLI	TAL NSH
Total/NA	Analysis	6010C		1	107945	09/17/13 17:43	KDJ	TAL NSH

Client Sample ID: 32015 MW-13

Lab Sample ID: 490-35156-3
Matrix: Ground Water

Date Collected: 09/11/13 14:55
Date Received: 09/12/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	107138	09/14/13 23:09	MJH	TAL NSH
Total/NA	Prep	3010A			107292	09/16/13 08:35	NLI	TAL NSH
Total/NA	Analysis	6010C		1	107945	09/17/13 17:48	KDJ	TAL NSH

Client Sample ID: 32015 MW-14

Lab Sample ID: 490-35156-4
Matrix: Ground Water

Date Collected: 09/11/13 14:45
Date Received: 09/12/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	107138	09/14/13 23:36	MJH	TAL NSH
Total/NA	Prep	3010A			109772	09/25/13 13:58	NLI	TAL NSH
Total/NA	Analysis	6010C		1	110053	09/26/13 11:06	KDJ	TAL NSH

Client Sample ID: 32015 SW-1

Lab Sample ID: 490-35156-5
Matrix: Ground Water

Date Collected: 09/11/13 18:00
Date Received: 09/12/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	107138	09/15/13 00:04	MJH	TAL NSH
Total/NA	Prep	3010A			107292	09/16/13 08:35	NLI	TAL NSH
Total/NA	Analysis	6010C		1	107945	09/17/13 18:08	KDJ	TAL NSH

Lab Chronicle

Client: W.Z. Baumgartner & Associates
Project/Site: 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

Client Sample ID: 32015 SW-2

Lab Sample ID: 490-35156-6
Matrix: Ground Water

Date Collected: 09/11/13 14:35
Date Received: 09/12/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	107138	09/15/13 00:31	MJH	TAL NSH
Total/NA	Prep	3010A			107292	09/16/13 08:35	NLI	TAL NSH
Total/NA	Analysis	6010C		1	107945	09/17/13 18:12	KDJ	TAL NSH

Client Sample ID: 32015 FIELD BLANK

Lab Sample ID: 490-35156-7
Matrix: Ground Water

Date Collected: 09/11/13 14:05
Date Received: 09/12/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	107138	09/14/13 18:07	MJH	TAL NSH
Total/NA	Prep	3010A			107292	09/16/13 08:35	NLI	TAL NSH
Total/NA	Analysis	6010C		1	107945	09/17/13 18:17	KDJ	TAL NSH

Client Sample ID: 32015 TRIP BLANK

Lab Sample ID: 490-35156-8
Matrix: Ground Water

Date Collected: 09/11/13 11:20
Date Received: 09/12/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	107138	09/14/13 18:34	MJH	TAL NSH
Total/NA	Prep	3010A			107292	09/16/13 08:35	NLI	TAL NSH
Total/NA	Analysis	6010C		1	107945	09/17/13 18:22	KDJ	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: W.Z. Baumgartner & Associates
Project/Site: 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
6010C	Metals (ICP)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: W.Z. Baumgartner & Associates
Project/Site: 32015

TestAmerica Job ID: 490-35156-1
SDG: 32015

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-14
Arizona	State Program	9	AZ0473	05-05-14 *
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-13
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-14
Illinois	NELAP	5	200010	12-09-13
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	06-30-14
Louisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	01-01-20
Nevada	State Program	9	TN00032	07-31-14
New Hampshire	NELAP	1	2963	10-10-13
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-14
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-14
USDA	Federal		S-48469	11-02-13
Utah	NELAP	8	TN00032	07-31-14
Virginia	NELAP	3	460152	06-14-14
Washington	State Program	10	C789	07-19-14
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-14
Wyoming (UST)	A2LA	8	453.07	12-31-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-35156 Chain of Custody

Cooler Received/Opened On 9/12/2013 @ 0815

1. Tracking # 6669 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 17960358

2. Temperature of rep. sample or temp blank when opened: 1.4 *Degrees Celsius*

3. If item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 (Front)

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) _____

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (initial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) AJH

I certify that I attached a label with the unique LIMS number to each container (initial) AJH

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/2012

CHAIN OF CUSTODY RECORD

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring? Yes No
Enforcement Action? Yes No

Client Name/Account #: W.Z. Baumgartner & Associates (4016)
Address: P.O. Box 680369
City/State/Zip: Franklin, TN 67068-0369
Project Manager:
Telephone Number: 615-595-0025 Fax No.: 615-595-1595
Sampler Name: (Print)
Sampler Signature:

State Site: NC
Project ID:
Project #: 32015

	Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H2SO4 Plastic (Yellow Label)	H2SO4 Glass(Yellow Label)	None (Black Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: SEE ATTACHED	RUSH TAT (Pre-Schedule)	Standard TAT	Fax Results	Send QC with report
1	MW-1R	9/11/13	1120	4	X			X	1	3						X						X		X		X
2	MW-12	9/11/13	1715	4	X			X	1	3						X						X		X		X
3	MW-13	9/11/13	1455	4	X			X	1	3						X						X		X		X
4	MW-14	9/11/13	1445	4	X			X	1	3						X						X		X		X
5	SW-1	9/11/13	1800	4	X			X	1	3						X						X		X		X
6	SW-2	9/11/13	1435	4	X			X	1	3						X						X		X		X
7	FIELD BLANK	9/11/13	1405	4				X	1	3												X		X		X
8	TRIP BLANK	9/11/13	1120	4																						

Loc: 490
35156

Special Instructions: ALL MDLs NEED TO MEET NC SWSL
REPORT QC SEPARATE on EDD
Date needed if RUSH:
Method of Shipment: FEDEX

Relinquished by:	Date	Time	Received by:	Date	Time
WMH	9/11/13	1915			
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
			Adam Pinsky	9/12/13	8:15

Laboratory Comments:
Temperature Upon Receipt: 1.4
VOCs Free of Headspace? Y N

Parameter List For Project 32015

Loc: 490
35156

Metals:
- Antimony
- Arsenic
- Beryllium
- Barium
- cadmium
- Chromium
- Cobalt
- Copper
- Lead
- Nickel
- Selenium
- Silver
- Thallium
- Vanadium
- Zinc

VOCs:
- SW-846-8260B

All MDLs must meet NC SWSL
QC must be reported separately in the EDD

Page 41 of 42 9/26/2013

Login Sample Receipt Checklist

Client: W.Z. Baumgartner & Associates

Job Number: 490-35156-1
SDG Number: 32015

Login Number: 35156
List Number: 1
Creator: Huskey, Adam

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	