ELEVENTH QUARTERLY INTERIM COMPLIANCE MONITORING REPORT (JULY-SEPTEMBER OF 2010) CHARBERT DIVISION OF NFA RICHMOND, RHODE ISLAND RIDEM CASE # 99-037

PREPARED FOR:
Rhode Island Department of Environmental Management
Providence, Rhode Island

PREPARED BY:
GZA GeoEnvironmental, Inc.
Providence, Rhode Island

November 2010
File No. 32795.29

GZA
GeoEnvironmental, Inc.

Engineers and
Scientists

December 1, 2010
File No. 32795.29

Mr. Gary Jablonski
Rhode Island Department of Environmental Management
Office of Waste Management
235 Promenade Street
Providence, Rhode Island 02908

530 Broadway
Providence
Rhode Island
02909
401-421-4140
Fax: 401-751-8613
http://www.gza.com

Re: Eleventh Quarterly (July-September of 2010) Interim Compliance Monitoring Report
Charbert Division of NFA
Richmond, Rhode Island
RIDEM Case # 99-037

Dear Mr. Jablonski:

This letter with attachments serves as the eleventh quarterly Interim Compliance Monitoring Report. The work was conducted in compliance with the December 18, 2007 Order of Approval and the October 15, 2007 *Remedial Action Work Plan (RAWP)* that was prepared to address the applicable requirements of Section 9.00 of the RIDEM's Rules and Regulations for the Investigation and Remediation of Hazardous Materials Releases, (DEM-DSR01-93 Remediation Regulations) for the Charbert facility located at 299 Church Street in Richmond (Alton), Rhode Island. It was prepared by GZA GeoEnvironmental, Inc., on behalf of our client Charbert Division of NFA.

As you are aware, the air sparge and soil vapor extraction system at the Charbert facility was damaged and turned off due to flooding on March 15, and March 30, 2010. The March flooding damaged the electrical components of the system. At this time the system has been repaired and the complete system resumed operations on August 26, 2010.

The quarterly ICMP samples for this round were collected on October 13th of 2010. Samples were collected in accordance with the ICMP approved in the December 19, 2007 Order of Approval and modified on February 27 and October 18, 2010.

DATA SUMMARY

The following subsections summarize the results of four ongoing environmental monitoring programs at the facility. This information is subject to the Limitations presented in Attachment A:

Groundwater Monitoring Results

- The eleventh round of groundwater sampling was conducted on October 12th of 2010 and consisted of 15 monitoring wells within areas of active treatment and along the downgradient compliance boundaries, see attached Figure 1 for monitoring well locations. Groundwater was analyzed for volatile organic compounds (VOCs) via EPA Method 8260B. The detected analytes have been summarized and compared to RIDEM's Method 1 GA Groundwater Objectives and Groundwater Quality Preventative Action Limits (PALs) in the attached Tables 1 through 19 (including 4 historical background wells, previously sampled as part of past quarterly monitoring rounds). The laboratory certificates of analysis are provided in Attachment B.

- Groundwater sampling was performed in general accordance with EPA's January 19, 2010 *Low Stress (low flow) Purging and Sampling Procedure* (Low Flow SOP). Low flow sampling equipment (exclusive of tubing which is dedicated) was decontaminated prior to use on-site and between each location following EPA's recommended protocols. Water quality monitoring for stabilization was conducted utilizing a Horiba multi-meter in a flow through cell. Field equipment used to perform the testing was calibrated according to the manufacturer's instructions before each sampling day, and confirmatory readings were taken at the end of each sampling day.

Air Sparge and Soil Vapor Extraction System Monitoring Results

- On April 26, 2010 RIDEM approved GZA's request to conduct bi-monthly (6-times annually) monitoring of the air sparge and soil vapor extraction system. GZA will be conducting the bi-monthly monitoring during the odd numbered months of the year (January, March, May, July, September and November). The air sparge and soil vapor extraction bi-monthly monitoring report and associated data tables for September of 2010 are included as Attachment C. Soil vapor extraction and sparge wells for the interior and exterior remedial systems are shown on Figures 2 and 3, respectively. The bi-monthly report includes the following information:

  Soil Vapor Extraction System

  During each visit, the following data was measured and recorded at each of the vent wells:

  1. Air flow rates;
  2. Vacuum response in inches of water column (WC);
  3. Total volatile organic compounds (TVOC) measurements using a PID equipped with a 10.6 eV lamp; and

4. Oxygen (O_2), carbon dioxide (CO_2) and Lower Explosive Limit (LEL) measurements were collected utilizing a Land-Tech infrared gas meter.

Air Sparge System

During each visit, the following information was measured and recorded at each of the sparge points:

1. Air flow rates; and
2. Air pressures.

Underground Injection Control System Monitoring Results

As you are aware, GZA submitted a UIC closure application for decommissioning Lagoons 1, 2 and 3 to Mr. Craig Roy of the Office of Water Resources on December 15, 2008 and received approval of the closure application on September 14, 2009. Construction work associated with the lagoon closure commenced in late October 2009 and was completed in June 2010. As part of the closure, Mr. Roy has requested the decommissioning of the six UIC monitoring well (MW-1A, MW-2A, MW-3, MW-4A, MW-5B and MW-6).

GZA requested the Interim Compliance Monitoring Plan (ICMP) be modified to no longer include the submission of the quarterly UIC reports on October 7, 2010 and the request was approved by RIDEM on October 18, 2010. As such, the UIC monitoring program has been terminated and no third quarter UIC sampling was conducted.

Perimeter Groundwater Quality Monitoring Results

The eleventh round of groundwater sampling from the three upgradient perimeter wells, conducted at the request of RIDEM, was performed October 12, 2010. These three wells are generally located between the Charbert facility and nearby private homes with potable supply wells. The eleventh quarterly groundwater sampling report has is included as Attachment D.

EVALUATION

The October 13, 2010 groundwater results have been compared to the applicable groundwater standards for Rhode Island. Contaminants were observed at concentrations that exceed the RIDEM GA Groundwater Objectives or RIDEM's Preventative Action Limits (PALs) in 13 of the 15 program monitoring wells. Monitoring wells GZ-26 and GP-26 showed no detection of any of the target analytes (i.e., full VOCs by EPA 8260B). Vinyl chloride, cis-1,2-dichloroethene, trichloroethene (TCE) and tetrachloroethene (PCE) were the primary contaminants that exceeded the GA Groundwater Objectives established for these compounds. Tables 1 through 19 show the detected constituents for all program wells for this quarter as well as the previous monitoring results.

As shown on the tables, the detected levels of each of these compounds are within historical ranges of analytical data collected from the Site. A comparison of baseline results with the eleventh quarter results shows that there have been changes in the distribution of contaminant concentrations within the identified zone of contamination. There are also changes in the ratio of parent to daughter products (i.e., PCE concentrations relative to TCE, 1,2-DCE and VC). The observed changes are not unexpected given the treatment level and disturbance to the aquifer introduced by the sparging system. As shown in Tables 1 through 19, contaminant concentrations in some wells have declined significantly (e.g., GZ-19, GP-28, GZ-28, GZ-3 and GP-26), while concentrations in other wells have increased (e.g., GZ-20, GZ-7, GZ-24 and GZ-3). The decrease in chlorinated daughter products is also consistent with a decrease in the level of reductive dechlorination caused by the oxygen introduced by the sparging system.

The quarterly monitoring program will be continued for 1 more quarter through December 2010. At that time, an evaluation will be made of the future sampling frequency, potentially moving to a semi-annual program corresponding to periods of seasonal high and low groundwater (e.g., March and September) with RIDEM's approval. Seasonal groundwater levels will be evaluated prior to choosing a time (date) in which these samples will be collected.

We trust that this information fulfills your present needs. If you have any questions please call Stephen Andrus or Edward Summerly at (401) 421-4140.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

Stephen Andrus, P.E.
Assistant Project Manager

Albert Flori
Project Reviewer

Edward A. Summerly, P.G.
Principal

EAS/SA:aa

CC: Tracy Nelson Hay, Richmond Town Clerk (CD)
Clark Memorial Library – Charbert Repository (CD)

Attachments: Tables 1 through 19: Detected Constituents Summary
Figure 1: Monitoring Well Locations
Figure 2: Interior AS-SVE Monitoring System
Figure 3: Exterior AS-SVE Monitoring System
Appendix A – Limitations
Appendix B – Laboratory Certificates of Analysis
Appendix C –AS/SVE System Monitoring Data
Appendix D –Eleventh Quarterly Perimeter Well Monitoring Results

TABLES

TABLE 1
MW-GZ-21 DETECTED CONSTITUENTS SUMMARY

Third Quarter 2010 ICMP
Charbert Facility
Richmond, Rhode Island

GZ-21		RIDEM GA	RIDEM Groundwater	Units	Date																							
Shallow Aquifer Monitoring Well		Groundwater	Quality		Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/05/2009		04/01/2009		07/09/2009		10/12/2009		12/31/2009		04/30/2010		07/08/2010		10/13/2010	
Screen From 10'-20' BGS		Objectives	PALs		Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
	VOLATILE ORGANICS																											
EPA 8260	Vinyl Chloride	2	1	ug/L	<	1.0	**8.4**	1.0	**2.8**	1.0	**3.4**	1.0	**2.3**	1.0	<	1.0	**1.0**	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	cis-1,2-Dichloroethene	70	35	ug/L	**7.8**	1.0	**10.0**	1.0	**7.7**	1.0	**4.7**	1.0	**1.7**	1.0	<	1.0	<	1.0	**1.8**	1.0	<	1.0	<	1.0	<	1.0	**1.7**	1.0
	Trichloroethene	5	2.5	ug/L	**3.5**	1.0	**1.7**	1.0	**2.3**	1.0	**2.7**	1.0	**1.7**	1.0	**1.4**	1.0	**1.4**	1.0	**2.4**	1.0	<	1.0	<	1.0	**1.2**	1.0	**2.1**	1.0
	Tetrachloroethene	5	2.5	ug/L	**7.2**	1.0	**2.4**	1.0	**7.6**	1.0	**6.1**	1.0	**6.2**	1.0	**7.1**	1.0	**4.1**	1.0	**2.5**	1.0	**2.0**	1.0	**3.2**	1.0	**3.1**	1.0	**3.6**	1.0
Mod. EPA 8100	**TOTAL PETROLEUM HYDROCARBON**																											
	Hydrocarbon Content	NS	NS	ug/L	<	200	NT		NT		NT		<	200	NT		NT		NT		**270**	200	NT		NT		NT	
	FIELD PARAMETERS																											
	pH	NS	NS	SU	4.0		5.0		5.7		6.2		5.4		6.4		7.0		6.2		5.5		5.9		6.4		6.2	
	CONDUCTIVITY	NS	NS	mS/cm	0.337		0.660		0.480		0.378		0.788		0.369		0.406		0.885		0.380		0.387		0.476		0.135	
	TURBIDITY	NS	NS	NTU	5		3		80		12		4		4		108		1		4		0		210		1	
	DISSOLVED OXYGEN	NS	NS	mg/L	1.0		0.0		1.4		0.6		0.45		6.51		0.0		0.0		0.0		0.0		0.2		0.5	
	TEMPERATURE	NS	NS	°C	16.4		14.4		14.8		17.9		13.2		9.8		13.0		16.0		11.7		10.2		17.1		15.6	
	ORP	NS	NS	mV	191		-58		-64		34		67		-64		-33		-8		59		140		NT		109	

Notes:
PAL = RIDEM's Preventative Action Limit
RIDEM GA EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED GREEN
PALs EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED BLUE
< = NO DETECTS
NS = NO STANDARD
NT = NOT TESTED
BGS = BELOW GROUND SURFACE

TABLE 2
MW-GZ-22 DETECTED CONSTITUENTS SUMMARY

Third Quarter 2010 ICMP
Charbert Facility
Richmond, Rhode Island

GZ-22		RIDEM GA	RIDEM Groundwater	Units	Date																							
					Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/05/2009		04/01/2009		07/08/2009		10/12/2009		12/31/2009		04/30/2010		07/08/2010		10/13/2010	
Deep Aquifer Monitoring Well		Groundwater	Quality																									
Screen From 25'-30' BGS		Objectives	PALs		Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
	VOLATILE ORGANICS																											
EPA 8260	Vinyl Chloride	2	1	ug/L	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	cis-1,2-Dichloroethene	70	35	ug/L	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Trichloroethene	5	2.5	ug/L	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Tetrachloroethene	5	2.5	ug/L	**14**	1.0	**12**	1.0	**86**	1.0	<	1.0	**28**	1.0	**17**	1.0	**35**	1.0	**45**	1.0	**49**	1.0	**57**	1.0	**50**	1.0	**50**	1.0		
	FIELD PARAMETERS																											
	pH	NS	NS	SU	4.0		5.0		5.1		6.1		6.4		6.3		6.2		6.3		5.1		6.0		6.5		6.3			
	CONDUCTIVITY	NS	NS	mS/cm	0.330		0.218		0.173		0.146		0.128		0.127		0.137		0.227		0.139		0.126		0.17		0.134			
	TURBIDITY	NS	NS	NTU	5		5		25		31		126		141		NT		20		55		5		260		1			
	DISSOLVED OXYGEN	NS	NS	mg/L	1.0		0.0		1.5		0.5		0.2		0.1		0.0		0.0		0.0		0.0		0.8		0.3			
	TEMPERATURE	NS	NS	°C	15.8		15.1		15.9		16.6		11.7		11.0		14.0		14.5		11.8		11.1		16.4		14.9			
	ORP	NS	NS	mV	198		91		32		154		81		12		76		-25		36		101		75		102			

Notes:
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TABLE 3
MW-GZ-23 DETECTED CONSTITUENTS SUMMARY

Third Quarter 2010 ICMP
Charbert Facility
Richmond, Rhode Island

GZ-23		RIDEM GA	RIDEM Groundwater	Units	Date																							
Shallow Aquifer Monitoring Well		Groundwater	Quality		Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/05/2009		04/01/2009		07/08/2009		10/12/2009		12/31/2009		04/30/2010		07/08/2010		10/13/2010	
Screen From 10'-20' BGS		Objectives	PALs		Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
	VOLATILE ORGANICS																											
EPA 8260	Vinyl Chloride	2	1	ug/L	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	cis-1,2-Dichloroethene	70	35	ug/L	<	1.0	<	1.0	**6.5**	1.0	**<**	1.0	**<**	1.0	**3**	1.0	**3.4**	1.0	**6.4**	1.0	**1.4**	1.0	**11**	1.0	**2.4**	1.0	**1.1**	1.0
	Trichloroethene	5	2.5	ug/L	<	1.0	**1.8**	1.0	**27**	1.0	**1.8**	1.0	**1.4**	1.0	**14**	1.0	**21**	1.0	**18**	1.0	**1.4**	1.0	**46**	1.0	**15**	1.0	**6.9**	1.0
	Tetrachloroethene	5	2.5	ug/L	<	1.0	**2.4**	1.0	**59**	1.0	**1.7**	1.0	**2**	1.0	**24**	1.0	**17**	1.0	**10**	1.0	<	1.0	**29**	1.0	**30**	1.0	**1.2**	1.0
Mod. EPA 8100	**TOTAL PETROLEUM HYDROCARBON**																											
	Hydrocarbon Content	NS	NS	ug/L	<	200	NT		NT		NT		<	200	NT		NT		NT		<	200	NT		NT		NT	
	FIELD PARAMETERS																											
	pH	NS	NS	SU	4.0		5.0		5.7		6.5		6.5		6.3		6.7		6.4		5.6		6.0		6.4		6.4	
	CONDUCTIVITY	NS	NS	mS/cm	0.339		0.428		0.254		0.109		0.129		0.481		0.335		0.266		0.134		0.144		0.456		0.195	
	TURBIDITY	NS	NS	NTU	157		0		224		12.2		4		2		59		0		5		0		393		4	
	DISSOLVED OXYGEN	NS	NS	mg/L	0.0		0.0		0.3		0.1		0.1		0.0		0.0		0.1		0.0		0.2		0.2		0.1	
	TEMPERATURE	NS	NS	°C	16.6		16.1		15.4		14.6		11.6		11.8		13.7		12.8		10.5		12.2		16.1		14.2	
	ORP	NS	NS	mV	-8		-60		-78		-106		25		-77		-39		-258		-59		-8		NT		34	

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TABLE 4
MW-GZ-19 DETECTED CONSTITUENTS SUMMARY

Third Quarter 2010 ICMP
Charbert Facility
Richmond, Rhode Island

GZ-19		RIDEM GA	RIDEM Groundwater	Units	Date																							
Deep Aquifer Monitoring Well		Groundwater	Quality		Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/05/2009		04/01/2009		07/08/2009		10/12/2009		12/31/2009		04/30/2010		07/13/2010		10/13/2010	
Screen From 25'-30' BGS		Objectives	PALs		Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
	VOLATILE ORGANICS																											
EPA 8260	cis-1,2-Dichloroethene	70	35	ug/L	**4.6**	1.0	<	250	**4.2**	1.0	<	250	<	250	<	3	<	10	<	5	<	5	<	5	<	5	<	5
	1,1,1-Trichloroethane	200	100	ug/L	**13**	1.0	<	250	**9.0**	1.0	<	250	<	250	<	3	<	10	<	5	<	5	<	5	<	5	<	5
	1,1,2-Trichloroethane	200	100	ug/L	<	1.0	<	250	<	1.0	<	250	<	250	<	3	<	10	**12**	5	<	5	<	5	<	5	<	5
	Trichloroethene	5	2.5	ug/L	**260**	1.0	**390**	250	**200**	1.0	<	250	<	250	<	3	<	10	**7.7**	5	<	5	<	5	<	5	<	5
	Tetrachloroethene	5	2.5	ug/L	**16,000**	1.0	**20,000**	250	**19,000**	1.0	**16,000**	250	**8,400**	250	**2,900**	3	**1,300**	10	**780**	5	**650**	5	**600**	5	**570**	5	**560**	5
	FIELD PARAMETERS																											
	pH	NS	NS	SU	4.0		5.0		5.0		6.1		6.4		6.2		6.3		6.3		5.0		6.0		6.3		6.2	
	CONDUCTIVITY	NS	NS	mS/cm	0.338		0.453		0.106		0.085		0.114		0.211		0.130		0.145		0.108		0.122		0.166		0.110	
	TURBIDITY	NS	NS	NTU	68		1		240		31.7		4		3		27.4		5		5		5		0		4	
	DISSOLVED OXYGEN	NS	NS	mg/L	0.0		0.0		0.3		0.1		0.2		0.8		0.0		0.3		0.0		0.0		0.1		0.4	
	TEMPERATURE	NS	NS	°C	16.5		15.6		15.6		14		12.4		11.6		14.1		12.7		11.8		12.1		16.7		13.8	
	ORP	NS	NS	mV	24		79		105		113		51		58		89		-10		73		85		154		135	

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TABLE 5
MW-RIZ-7 DETECTED CONSTITUENTS SUMMARY

Third Quarter 2010 ICMP
Charbert Facility
Richmond, Rhode Island

RIZ-7		RIDEM GA	RIDEM Groundwater	Units	Date																							
Shallow Aquifer Monitoring Well		Groundwater	Quality		Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/05/2009		04/01/2009		07/08/2009		10/12/2009		12/31/2009		04/30/2010		07/13/2010		10/13/2010	
Screen From 5'-15' BGS		Objectives	PALs		Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
	VOLATILE ORGANICS																											
	Vinyl Chloride	2	1	ug/L	**15**	1.0	**120**	1.0	**85**	2.5	**100**	1.0	**130**	1.0	**150**	1.0	**130**	2.5	**97**	1.0	**49**	1.0	**82**	1.0	**43**	1.0	**110**	1.0
	trans-1,2-Dichloroethene	100	50	ug/L	<	1.0	**2.6**	1.0	**3.1**	2.5	**3**	1.0	**3.6**	1.0	**5.6**	1.0	**5.4**	2.5	**2.8**	1.0	**1.5**	1.0	**2.1**	1.0	**1.9**	1.0	**3.0**	1.0
	cis-1,2-Dichloroethene	70	35	ug/L	**2.5**	1.0	**64**	1.0	**41**	2.5	**54**	1.0	**100**	1.0	**190**	1.0	**160**	2.5	**57**	1.0	**42**	1.0	**51**	1.0	**70**	1.0	**78**	1.0
	Trichloroethene	5	2.5	ug/L	<	1.0	<	1.0	<	2.5	<	1.0	<	1.0	<	0.0	<	2.5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Tetrachloroethene	5	2.5	ug/L	<	1.0	<	1.0	**7**	2.5	<	1.0	<	1.0	<	1.0	<	2.5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
EPA 8260	Ethylbenzene	700	350	ug/L	<	1.0	**2.7**	1.0	**2.8**	2.5	<	1.0	<	1.0	<	1.0	<	2.5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	m&p-Xylene	NS	NS	ug/L	<	2.0	**2.9**	2.0	<	5.0	<	2.0	<	2.0	<	2.0	<	5.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0
	o-Xylene	NS	NS	ug/L	**1.7**	1.0	**2.6**	1.0	**3.2**	2.5	**1.6**	1.0	**1.3**	1.0	<	1.0	<	2.5	**1.1**	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Total Xylenes	1000	500	ug/L	**1.7**	2.0	**5.7**	2.0	**3.2**	5.0	**1.6**	2.0	<	2.0	<	2.0	<	5.0	**1.1**	2.0	<	2.0	<	2.0	<	2.0	<	2.0
	2-Chlorotoluene	NS	NS	ug/L	**1.0**	1.0	**1.2**	1.0	<	2.5	**3.2**	1.0	**3**	1.0	**2.8**	1.0	**3.6**	2.5	**3.5**	1.0	**2.5**	1.0	**2.8**	1.0	**1.1**	1.0	**2.4**	1.0
	N-Propylbenzene	NS	NS	ug/L	<	1.0	<	1.0	**1.0**	2.5	<	1.0	<	1.0	<	1.0	<	2.5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	sec-Butylbenzene	NS	NS	ug/L	<	1.0	<	1.0	**1.0**	2.5	<	1.0	<	1.0	<	1.0	<	2.5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Mod. EPA 8100	**TOTAL PETROLEUM HYDROCARBON**																											
	Hydrocarbon Content	NS	NS	ug/L	**300**	200	NT		NT		NT		**570**	200	NT		NT		NT		**470**	200	NT		NT		NT	
	FIELD PARAMETERS																											
	pH	NS	NS	SU	4.0		5.0		6.1		6.4		6.7		6.4		7.6		6.7		5.9		6.4		6.6		6.8	
	CONDUCTIVITY	NS	NS	mS/cm	0.786		0.748		0.357		0.249		0.316		0.090		0.474		0.332		0.227		0.229		0.399		0.227	
	TURBIDITY	NS	NS	NTU	5		0		153		20		0		3		4		5		5		0		0		4	
	DISSOLVED OXYGEN	NS	NS	mg/L	0.0		0.0		0.2		0.0		0.1		0.0		0.0		0.1		0.0		0.0		4.0		0.3	
	TEMPERATURE	NS	NS	°C	16.5		14.4		15.8		15.8		13.1		10.7		13.6		14.5		12.2		10.5		16.9		15.3	
	ORP	NS	NS	mV	-23		-53		-112		-117		5		-92		-46		-149		-85		-99		60		-10	

Notes:
PAL = RIDEM's Preventative Action Limit
RIDEM GA EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED GREEN
PALs EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED BLUE
ND = NO DETECTS
NS = NO STANDARD
NT = NOT TESTED
BGS = BELOW GROUND SURFACE

TABLE 6
MW-GP-28 DETECTED CONSTITUENTS SUMMARY

Third Quarter 2010 ICMP
Charbert Facility
Richmond, Rhode Island

GP-28		RIDEM GA	RIDEM Groundwater	Units	Date																									
Shallow Aquifer Monitoring Well		Groundwater	Quality		Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/05/2009		04/01/2009		07/08/2009		10/12/2009		01/04/2010		04/30/2010		07/10/2010		10/13/2010	
Screen From 3'-15' BGS		Objectives	PALs		Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
	VOLATILE ORGANICS																													
EPA 8260	Vinyl Chloride	2	1	ug/L	**1,200**	5.0	**180**	2.5	<	1.0	**10**	1.0	**140**	1.0	**52**	50.0	**440**	5.0	**18**	1.0	**28**	1.0	**150**	1.0	**62**	1.0	**4**	1.0
	cis-1,2-Dichloroethene	70	35	ug/L	**1,400**	5.0	**200**	2.5	**6.2**	1.0	**2.9**	1.0	**940**	1.0	**2,900**	50.0	**560**	5.0	**12**	1.0	**91**	1.0	**500**	1.0	**100**	1.0	**2.4**	1.0
	Trichloroethene	5	2.5	ug/L	<	5.0	<	2.5	<	1.0	<	1.0	**350**	1.0	<	50.0	**23**	5.0	<	1.0	**6.4**	1.0	**46**	1.0	**7.2**	1.0	<	1.0
	Tetrachloroethene	5	2.5	ug/L	<	5.0	<	2.5	<	1.0	<	1.0	**2,900**	1.0	<	50.0	**15**	5.0	**1.5**	1.0	<	1.0	**30**	1.0	**61**	1.0	<	1.0
	trans-1,2-Dichloroethene	100	50	ug/L	**11**	5.0	<	2.5	<	1.0	<	1.0	**<**	25.0	<	50.0	**7**	5.0	<	1.0	**1.3**	1.0	<	1.0	**1.5**	1.0	<	1.0
	Ethylbenzene	700	350	ug/L	<	5.0	<	2.5	**1.2**	1.0		1.0	<	1.0	<	50.0	<	5.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	o-Xylene	NS	NS	ug/L	<	5.0	<	2.5	**1.8**	1.0	**1.9**	1.0	<	1.0	<	50.0	<	5.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Total Xylenes	1000	500	ug/L	<	10	<	5.0	**1.8**	2.0	**<**	2.0	<	2.0	<	50.0	<	10.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0
	2-Chlorotoluene	NS	NS	ug/L	<	5.0	<	2.5	**1.3**	1.0	**1.0**	1.0	<	1.0	<	50.0	<	5.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Mod. EPA 8100	**TOTAL PETROLEUM HYDROCARBON**																													
	Hydrocarbon Content	NS	NS	ug/L	**350**	200	NT		NT		NT		**290**	200	**NT**		**NT**		**NT**		**240**	200	NT		NT		NT	
	FIELD PARAMETERS																													
	pH	NS	NS	SU	4.0		5.0		5.5		6.5		6.9		6.8		7.2		6.7		6.5		6.7		6.7		6.6	
	CONDUCTIVITY	NS	NS	mS/cm	0.900		0.492		0.700		0.410		0.135		0.191		0.230		0.197		0.443		0.156		0.277		0.169	
	TURBIDITY	NS	NS	NTU	5		30		270		116		420		399		11		4		5		0		0		3	
	DISSOLVED OXYGEN	NS	NS	mg/L	0.0		0.0		0.6		0.1		0.32		0		0.71		0.19		0		3.4		0.77		0.04	
	TEMPERATURE	NS	NS	°C	12.0		11.1		17.6		16.8		5.9		7.9		19.6		15.1		6.2		11.2		21.2		17.5	
	ORP	NS	NS	mV	-47		-71		-112		-144		8		-117		-96		-138		21		-101		-10		-33	

Notes:
PAL = RIDEM's Preventative Action Limit
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PALs EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED BLUE
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TABLE 7
MW-GZ-24 DETECTED CONSTITUENTS SUMMARY

Third Quarter 2010 ICMP
Charbert Facility
Richmond, Rhode Island

GZ-24 Deep Aquifer Monitoring Well Screen From 24'-34' BGS		RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	Units	Date Baseline 7/10/2009		06/17/2010		07/08/2010		10/13/2010	
					Result	Limit	Result	Limit	Result	Limit	Result	Limit
	VOLATILE ORGANICS											
EPA 8260	Vinyl Chloride	2	1	ug/L	**30**	5.0	**63**	2.5	**62**	1.0	**150**	1.0
	trans-1,2-Dichloroethene	100	50	ug/L	**5**	5.0	**3**	2.5	1.5	1.0	**11**	1.0
	cis-1,2-Dichloroethene	70	35	ug/L	**390**	5.0	**210**	2.5	**100**	1.0	**960**	1.0
	Trichloroethene	5	2.5	ug/L	**22**	5.0	**11**	2.5	**7**	1.0	**22**	1.0
	Tetrachloroethene	5	2.5	ug/L	**150**	5.0	**100**	2.5	**61**	1.0	**46**	1.0
	FIELD PARAMETERS											
	pH	NS	NS	SU	7.6		5.9		6.6		6.3	
	CONDUCTIVITY	NS	NS	mS/cm	0.233		0.180		0.429		0.170	
	TURBIDITY	NS	NS	NTU	0		3		0		1	
	DISSOLVED OXYGEN	NS	NS	mg/L	0.0		1.6		1.81		0.42	
	TEMPERATURE	NS	NS	°C	14.0		15.2		15.9		14.8	
	ORP	NS	NS	mV	-65		7		79		-7	

Notes:
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PALs EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED BLUE
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NT = NOT TESTED
BGS = BELOW GROUND SURFACE

TABLE 8

MW-RIZ-5 DETECTED CONSTITUENTS SUMMARY

Third Quarter 2010 ICMP
Charbert Facility
Richmond, Rhode Island

RIZ-5		RIDEM GA	RIDEM Groundwater	Units	Date																							
Shallow Aquifer Monitoring Well		Groundwater	Quality		Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/05/2009		04/01/2009		07/08/2009		10/12/2009		12/31/2009		04/30/2010		07/08/2010		10/13/2010	
Screen From 9.5'-19.5' BGS		Objectives	PALs		Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
	VOLATILE ORGANICS																											
EPA 8260	Vinyl Chloride	2	1	ug/L	<	1.0	<	1.0	<	2.5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	NT		NT		NT	
	cis-1,2-Dichloroethene	70	35	ug/L	**2.9**	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	NT		NT		NT	
	Trichloroethene	5	2.5	ug/L	**2.4**	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	NT		NT		NT	
	Tetrachloroethene	5	2.5	ug/L	**5.3**	1.0	<	1.0	<	1.0	<	1.0	**1.9**	1.0	<	1.0	<	1.0	<	1.0	<	1.0	NT		NT		NT	
Mod. EPA 8100	**TOTAL PETROLEUM HYDROCARBON**																											
	Hydrocarbon Content	NS	NS	ug/L	<	200	NT		NT		NT		<	200	NT		NT		NT		<	200	NT		NT		NT	
	FIELD PARAMETERS																											
	pH	NS	NS	SU	4.0		5.0		5.6		6.0		6.6		7.0		6.3		6.8		5.1		NT		NT		NT	
	CONDUCTIVITY	NS	NS	mS/cm	0.465		0.919		0.181		0.226		0.353		0.221		0.165		0.185		0.234		NT		NT		NT	
	TURBIDITY	NS	NS	NTU	64		110		713		325		1		5		3		3		5		NT		NT		NT	
	DISSOLVED OXYGEN	NS	NS	mg/L	0.0		7.0		7.4		8.59		3.55		12.51		10.3		9.69		0		NT		NT		NT	
	TEMPERATURE	NS	NS	°C	14.7		13.5		14.2		14.5		11.4		11.5		12.9		13.6		12		NT		NT		NT	
	ORP	NS	NS	mV	26		135		140		154		143		42		119		-44		68		NT		NT		NT	

Notes:
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BGS = BELOW GROUND SURFACE

TABLE 9
MW-GZ-20 DETECTED CONSTITUENTS SUMMARY

Third Quarter 2010 ICMP
Charbert Facility
Richmond, Rhode Island

GZ-20		RIDEM GA	RIDEM Groundwater	Units	Date																							
Deep Aquifer Monitoring Well		Groundwater	Quality		Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/05/2009		04/01/2009		07/08/2009		10/12/2009		12/31/2009		04/30/2010		07/13/2010		10/13/2010	
Screen From 25'-30' BGS		Objectives	PALs		Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
	VOLATILE ORGANICS																											
EPA 8260	Vinyl Chloride	2	1	ug/L	**1.2**	1.0	**1.3**	1.0	<	5.0	<	5.0	**35**	5.0	**48**	10.0	**71**	10.0	**84**	10.0	**66**	25	**72**	25	**44**	25	**50**	25
	cis-1,2-Dichloroethene	70	35	ug/L	**52**	1.0	**64**	1.0	**120**	5.0	**230**	5.0	**500**	5.0	**600**	10.0	**830**	10.0	**790**	10.0	**740**	25	**870**	25	**510**	25	**520**	25
	1,1,2-Trichloroethane	200	100	ug/L	<	1.0	<	1.0	<	5.0	<	5.0	<	5.0	<	10.0	<	10.0	**35**	10.0	<	25	<	25	<	25	<	25
	Trichloroethene	5	2.5	ug/L	**52**	1.0	**60**	1.0	**99**	5.0	**180**	5.0	**400**	5.0	**520**	10.0	**690**	10.0	**1,200**	10.0	**1,300**	25	**1,400**	25	**1,300**	25	**1,400**	25
	Tetrachloroethene	5	2.5	ug/L	**89**	1.0	**130**	1.0	**230**	5.0	**430**	5.0	**880**	5.0	**110**	10.0	**1,200**	10.0	**2,100**	10.0	**2,300**	25	**2,400**	25	**2,800**	25	**3,100**	25
	FIELD PARAMETERS																											
	pH	NS	NS	SU	4.0		5.0		5.4		6.1		6.4		6.4		6.4		6.3		5.1		6.2		6.2		6.1	
	CONDUCTIVITY	NS	NS	mS/cm	0.346		0.220		0.124		0.139		0.132		0.148		0.163		0.146		0.125		0.140		0.183		0.125	
	TURBIDITY	NS	NS	NTU	280		165		585		118		42		185		52		5		112		5		0		2	
	DISSOLVED OXYGEN	NS	NS	mg/L	0.0		0.0		0.6		0.1		0.23		1.0		0.0		0.0		0.0		0.1		1.2		0.4	
	TEMPERATURE	NS	NS	°C	15.3		14.6		15.0		14.4		12.0		11.9		14.5		12.6		11.7		11.8		15.1		13.6	
	ORP	NS	NS	mV	8		-38		66		73		86		40		86		-7		59		51		202		119	

Notes:
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TABLE 10
MW-GP-26 DETECTED CONSTITUENTS SUMMARY

Third Quarter 2010 ICMP
Charbert Facility
Richmond, Rhode Island

GP-26		RIDEM GA	RIDEM Groundwater	Units	Date																					
Shallow Aquifer Monitoring Well		Groundwater	Quality		Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/05/2009		04/01/2009		07/08/2009		10/12/2009		01/04/2010		04/30/2010		07/08/2010		10/13/2010	
Screen From 4'-16' BGS		Objectives	PALs		Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
	VOLATILE ORGANICS																											
	Vinyl Chloride	2	1	ug/L	**530**	25	**100**	1.0	**100**	5.0	**16**	10	**96**	10	**9**	2.5	**81**	10.0	**42**	1.0	**29**	5.0	**15**	5.0	**3.6**	2.0	<	2.0
	1,1-Dichloroethene	7	3.5	ug/L	<	25	**1.1**	1.0	<	5.0	<	10	<	10	<	2.5	<	10.0	<	1.0	<	5.0	<	5.0	<	1.0	<	1.0
EPA 8260	trans-1,2-Dichloroethene	100	50	ug/L	**70**	25	**20**	1.0	<	5.0	**19**	10	<	10	<	2.5	<	10.0	**1.4**	1.0	<	5.0	**1.2**	5.0	<	1.0	<	1.0
	cis-1,2-Dichloroethene	70	35	ug/L	**6,800**	25	**2,100**	1.0	**160**	5.0	**2,300**	100	**1,200**	100	**110**	2.5	**910**	10.0	**190**	1.0	**640**	5.0	**170**	5.0	**5.8**	1.0	<	1.0
	Trichloroethene	5	2.5	ug/L	**1,200**	25	**2,500**	1.0	**82**	5.0	**2,300**	100	**1,600**	100	**120**	2.5	**310**	10.0	**41**	1.0	**470**	5.0	**40**	5.0	**13**	1.0	<	1.0
	Tetrachloroethene	5	2.5	ug/L	**1,800**	25	**4,100**	1.0	**330**	5.0	**2,900**	100	**2,100**	100	**210**	2.5	**330**	10.0	**30**	1.0	**490**	5.0	**56**	5.0	**32**	1.0	<	1.0
Mod. EPA 8100	**TOTAL PETROLEUM HYDROCARBON**																											
	Hydrocarbon Content	NS	NS	ug/L	**800**	200	NT		NT		NT		**450**	200	NT		NT		NT		**660**	200	NT		NT		NT	
	FIELD PARAMETERS																											
	pH	NS	NS	SU	4.0		6.0		5.3		6.5		6.8		6.6		7.0		6.7		6.3		7.2		6.9		6.8	
	CONDUCTIVITY	NS	NS	mS/cm	3.00		3.49		0.462		0.341		0.490		0.267		0.449		0.278		0.346		0.269		0.305		0.268	
	TURBIDITY	NS	NS	NTU	5		1		51		31		5		35		19		4		5		2		NT		1	
	DISSOLVED OXYGEN	NS	NS	mg/L	0.0		0.0		0.3		0.3		0.3		0		0		0.2		0.0		11.7		0.4		0.6	
	TEMPERATURE	NS	NS	°C	13.9		12.5		14.6		17.7		10.4		10.6		15.4		14.5		10.4		10.4		16.5		16.4	
	ORP	NS	NS	mV	31		61		-40		-8		89		10		-24		-122		31		-136		5		-11	

Notes:
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TABLE 11
MW-GZ-7 DETECTED CONSTITUENTS SUMMARY

Third Quarter 2010 ICMP
Charbert Facility
Richmond, Rhode Island

GZ-7		RIDEM GA	RIDEM Groundwater	Units	Date																					
Deep Aquifer Monitoring Well					Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/05/2009		04/01/2009		07/08/2009		10/12/2009		01/04/2010		04/30/2010		07/08/2010		10/13/2010	
Screen From 33'-43' BGS		Groundwater Objectives	Quality PALs		Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
	VOLATILE ORGANICS																									
EPA 8260	Vinyl Chloride	2	1	ug/L	<	1.0	<	1.0	**1.3**	1.0	<	1.0	<	1.0	<	1.0	**2.2**	1.0	<	1.0	<	1.0	<	1.0	<	1.0	**150**	1.0
	cis-1,2-Dichloroethene	70	35	ug/L	<	1.0	**13**	1.0	**140**	1.0	**33**	1.0	**4.2**	1.0	**72**	1.0	**100**	1.0	**27**	1.0	**24**	1.0	**260**	1.0	**60**	1.0	**510**	1.0
	Trichloroethene	5	2.5	ug/L	<	1.0	**74**	1.0	**140**	1.0	**37**	1.0	<	1.0	**97**	1.0	**42**	1.0	**43**	1.0	**14**	1.0	**40**	1.0	**17**	1.0	**350**	1.0
	Tetrachloroethene	5	2.5	ug/L	<	1.0	**26**	1.0	**15**	1.0	**7.1**	1.0	<	1.0	**30**	1.0	**18**	1.0	**28**	1.0	**9.7**	1.0	**56**	1.0	**41**	1.0	**600**	1.0
	FIELD PARAMETERS																									
	pH	NS	NS	SU	4.0		5.0		5.5		6.3		7.2		6.6		7.7		6.5		6.4		6.8		6.6		6.3	
	CONDUCTIVITY	NS	NS	mS/cm	0.223		0.359		0.226		0.106		0.168		0.185		0.175		0.166		0.185		0.15		0.179		0.119	
	TURBIDITY	NS	NS	NTU	5		5		17		0.3		4		1.4		2		4		5		0		114		2	
	DISSOLVED OXYGEN	NS	NS	mg/L	0.0		0.0		1.0		0.4		0.3		0.0		0.0		0.1		0.0		0.1		0.6		0.3	
	TEMPERATURE	NS	NS	°C	14.5		14.3		13.9		13.9		12.2		12.6		13.5		12.6		11.0		11.0		16.5		14.1	
	ORP	NS	NS	mV	-8		-55		-80		-48		-18		-74		-98		-114		32		-98		69		57	

Notes:
PAL = RIDEM's Preventative Action Limit
RIDEM GA EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED GREEN
PALs EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED BLUE
ND = NO DETECTS
NS = NO STANDARD
NT = NOT TESTED
BGS = BELOW GROUND SURFACE

TABLE 12
MW-GZ-3 DETECTED CONSTITUENTS SUMMARY

Third Quarter 2010 ICMP
Charbert Facility
Richmond, Rhode Island

GZ-3		RIDEM GA	RIDEM Groundwater	Units	Date																					
Deep Aquifer Monitoring Well		Groundwater	Quality		Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/06/2009		04/01/2009		07/08/2009		10/12/2009		01/04/2010		04/30/2010		07/08/2010		10/13/2010	
Screen From 30'-40' BGS		Objectives	PALs		Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
	VOLATILE ORGANICS																											
	Vinyl Chloride	2	1	ug/L	<	1.0	<	1.0	**3.1**	1.0	<	10	**8.1**	10	**16**	5	**19**	5	**35**	5	**23**	5	**84**	5	**56**	5	<	5
EPA 8260	cis-1,2-Dichloroethene	70	35	ug/L	**9.3**	1.0	**16**	1.0	**65**	1.0	**86**	10	**110**	10	**180**	5	**180**	5	**230**	5	**160**	5	**450**	5	**290**	5	**23**	5
	Trichloroethene	5	2.5	ug/L	**10**	1.0	**17**	1.0	**91**	1.0	**93**	10	**81**	10	**150**	5	**180**	5	**210**	5	**130**	5	**380**	5	**320**	5	**14**	5
	Tetrachloroethene	5	2.5	ug/L	**12**	1.0	**22**	1.0	**440**	1.0	**180**	10	**160**	10	**450**	5	**560**	5	**630**	5	**370**	5	**610**	5	**600**	5	**5**	5
	FIELD PARAMETERS																											
	pH	NS	NS	SU	4.0		5.0		5.1		6.5		6.2		6.4		7.4		6.5		6.4		6.5		6.4		6.3	
	CONDUCTIVITY	NS	NS	mS/cm	0.339		0.392		0.206		0.114		0.415		0.419		0.171		0.152		0.150		0.149		0.265		0.128	
	TURBIDITY	NS	NS	NTU	5		5		34		7		5		4		19		3		2		5		230		4	
	DISSOLVED OXYGEN	NS	NS	mg/L	0.0		0.0		0.7		0.28		0.25		0		0		0.1		1.0		0.0		1.5		0.3	
	TEMPERATURE	NS	NS	°C	15.4		15.4		14.8		14.6		12.4		12.2		13.1		13.1		11.6		11.1		15.3		14.6	
	ORP	NS	NS	mV	-15		8		-22		-41		49		-25		-41		-90		14		-33		46		58	

Notes:
PAL = RIDEM's Preventative Action Limit
RIDEM GA EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED GREEN
PALs EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED BLUE
ND = NO DETECTS
NS = NO STANDARD
NT = NOT TESTED
BGS = BELOW GROUND SURFACE

TABLE 13
MW-GZ-25 DETECTED CONSTITUENTS SUMMARY

Third Quarter 2010 ICMP
Charbert Facility
Richmond, Rhode Island

GZ-25 Deep Aquifer Monitoring Well Screen From 20'-30' BGS		RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	Units	Date Baseline 7/10/2009		06/17/2010		07/08/2010		10/13/2010	
					Result	Limit	Result	Limit	Result	Limit	Result	Limit
	VOLATILE ORGANICS											
EPA 8260	Vinyl Chloride	2	1	ug/L	<	2.5	<	2.5	<	2.5	<	2.5
	trans-1,2-Dichloroethene	100	50	ug/L	<	2.5	<	2.5	<	2.5	<	2.5
	cis-1,2-Dichloroethene	70	35	ug/L	**11.0**	2.5	**14.0**	2.5	**36**	2.5	**6.4**	2.5
	Trichloroethene	5	2.5	ug/L	**15**	2.5	**16**	2.5	**35**	2.5	**10**	2.5
	Tetrachloroethene	5	2.5	ug/L	**220**	2.5	**200**	2.5	**200**	2.5	**130**	2.5
	FIELD PARAMETERS											
	pH	NS	NS	SU	6.7		6.3		6.7		6.5	
	CONDUCTIVITY	NS	NS	mS/cm	0.174		0.153		0.179		0.169	
	TURBIDITY	NS	NS	NTU	0		3		0		3	
	DISSOLVED OXYGEN	NS	NS	mg/L	0.0		0.6		1.36		0.19	
	TEMPERATURE	NS	NS	°C	14.0		14.3		15.4		16.8	
	ORP	NS	NS	mV	20		-18		70		23	

Notes:
PAL = RIDEM's Preventative Action Limit
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PALs EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED BLUE
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NT = NOT TESTED
BGS = BELOW GROUND SURFACE

TABLE 14
MW-GZ-27 DETECTED CONSTITUENTS SUMMARY

Third *Quarter 2010 ICMP*
Charbert Facility
Richmond, Rhode Island

GZ-27 Shallow Aquifer Monitoring Well Screen From 3'-15' BGS		RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	Units	Date Baseline 6/17/2010		07/18/2010		10/13/2010	
					Result	Limit	Result	Limit	Result	Limit
	VOLATILE ORGANICS									
EPA 8260	Vinyl Chloride	2	1	ug/L	**11**	1.0	**16**	1.0	**21**	1.0
	trans-1,2-Dichloroethene	100	50	ug/L	<	1.0	<	1.0	<	1.0
	cis-1,2-Dichloroethene	70	35	ug/L	**20**	1.0	**45**	1.0	**44**	1.0
	Trichloroethene	5	2.5	ug/L	<	1.0	**1**	1.0	**1.4**	1.0
	Tetrachloroethene	5	2.5	ug/L	<	1.0	<	1.0	<	1.0
	FIELD PARAMETERS									
	pH	NS	NS	SU	6.5		6.9		6.5	
	CONDUCTIVITY	NS	NS	mS/cm	0.142		0.209		0.201	
	TURBIDITY	NS	NS	NTU	2		0		1	
	DISSOLVED OXYGEN	NS	NS	mg/L	1.1		1.2		0.2	
	TEMPERATURE	NS	NS	°C	16.0		17.9		19	
	ORP	NS	NS	mV	-7		12		-12	

Notes:
PAL = RIDEM's Preventative Action Limit
RIDEM GA EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED GREEN
PALs EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED BLUE
ND = NO DETECTS
NS = NO STANDARD
NT = NOT TESTED
BGS = BELOW GROUND SURFACE

TABLE 15
MW-GZ-26 DETECTED CONSTITUENTS SUMMARY

Third Quarter 2010 ICMP
Charbert Facility
Richmond, Rhode Island

GZ-26 Deep Aquifer Monitoring Well Screen From 20'-30' BGS		RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	Units	Date Baseline 7/10/2009		06/17/2010		07/08/2010		10/13/2010	
					Result	Limit	Result	Limit	Result	Limit	Result	Limit
	VOLATILE ORGANICS											
EPA 8260	Vinyl Chloride	2	1	ug/L	<	1.0	<	1.0	<	1.0	<	1.0
	trans-1,2-Dichloroethene	100	50	ug/L	<	1.0	<	1.0	<	1.0	<	1.0
	cis-1,2-Dichloroethene	70	35	ug/L	<	1.0	<	1.0	<	1.0	<	1.0
	Trichloroethene	5	2.5	ug/L	<	1.0	<	1.0	<	1.0	<	1.0
	Tetrachloroethene	5	2.5	ug/L	<	1.0	<	1.0	<	1.0	<	1.0
	FIELD PARAMETERS											
	pH	NS	NS	SU	5.7		5.5		6.5		6.0	
	CONDUCTIVITY	NS	NS	mS/cm	0.156		0.135		0.160		0.133	
	TURBIDITY	NS	NS	NTU	0		4		144		1	
	DISSOLVED OXYGEN	NS	NS	mg/L	1.5		1.8		230		1	
	TEMPERATURE	NS	NS	°C	14.0		14.0		15.6		15.1	
	ORP	NS	NS	mV	175		55		72		140	

Notes:
PAL = RIDEM's Preventative Action Limit
RIDEM GA EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED GREEN
PALs EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED BLUE
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NT = NOT TESTED
BGS = BELOW GROUND SURFACE

TABLE 16
MW-GZ-28 DETECTED CONSTITUENTS SUMMARY

Third Quarter 2010 ICMP
Charbert Facility
Richmond, Rhode Island

GZ-28 Shallow Aquifer Monitoring Well Screen From 3'-15' BGS		RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	Units	Date Baseline 6/17/2010		07/18/2010		10/13/2010	
					Result	Limit	Result	Limit	Result	Limit
	VOLATILE ORGANICS									
EPA 8260	Vinyl Chloride	2	1	ug/L	**26**	2.5	**16**	1.0	**17**	1.0
	trans-1,2-Dichloroethene	100	50	ug/L	<	2.5	**1.2**	1.0	<	1.0
	cis-1,2-Dichloroethene	70	35	ug/L	**210**	2.5	**130**	1.0	**85**	1.0
	Trichloroethene	5	2.5	ug/L	**78**	2.5	**37**	1.0	**8**	1.0
	Tetrachloroethene	5	2.5	ug/L	**52**	2.5	**25**	1.0	<	1.0
	FIELD PARAMETERS									
	pH	NS	NS	SU	6.2		7.2		6.6	
	CONDUCTIVITY	NS	NS	mS/cm	0.154		0.234		0.206	
	TURBIDITY	NS	NS	NTU	3		0		4	
	DISSOLVED OXYGEN	NS	NS	mg/L	0.0		1.2		0.3	
	TEMPERATURE	NS	NS	°C	15.0		18.7		18.8	
	ORP	NS	NS	mV	-30		-24		-50	

Notes:
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TABLE 17
MW-RIZ-13 DETECTED CONSTITUENTS SUMMARY

Third Quarter 2010 ICMP
Charbert Facility
Richmond, Rhode Island

RIZ-13		RIDEM GA	RIDEM Groundwater	Units	Date																	
Shallow Aquifer Monitoring Well		Groundwater	Quality		Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/06/2009		04/01/2009		07/09/2009		10/12/2009		01/04/2010	
Screen From 14'-24' BGS		Objectives	PALs		Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
	VOLATILE ORGANICS																					
EPA 8260	Vinyl Chloride	2	1	ug/L	**4.4**	1.0	<	1.0	<	1.0	<	1.0	**1.1**	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Tetrahydrofuran	NS	NS	ug/L	<	10.0	<	10.0	<	10.0	<	10.0	<	10.0	<	10.0	**17**	10.0	<	10.0	<	10.0
	cis-1,2-Dichloroethene	70	35	ug/L	**6.6**	1.0	<	1.0	<	1.0	<	1.0	**3.8**	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Trichloroethene	5	2.5	ug/L	**5.6**	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Tetrachloroethene	5	2.5	ug/L	**6.9**	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Mod. EPA 8100	**TOTAL PETROLEUM HYDROCARBON**																					
	Hydrocarbon Content	NS	NS	ug/L	<	200	NT		NT		NT		**1,100**	200	NT		NT		NT		**680**	200
	FIELD PARAMETERS																					
	pH	NS	NS	SU	5.0		6.0		4.8		6.83		5.8		5.6		4.5		4.8		5.2	
	CONDUCTIVITY	NS	NS	mS/cm	0.392		0.900		0.773		0.361		0.875		0.571		0.562		0.910		0.822	
	TURBIDITY	NS	NS	NTU	3		5		208		54.8		4		88		22.2		11		5	
	DISSOLVED OXYGEN	NS	NS	mg/L	1.0		10.0		12.0		7.7		5.7		10.1		8.9		8.8		0.2	
	TEMPERATURE	NS	NS	°C	14.8		14.8		15.6		16.2		12.4		9.8		13.3		15.2		11.4	
	ORP	NS	NS	mV	28		56		34		-9		176		109		290		-160		193	

Notes:
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PALs EXCEEDANCES ARE IN BOLD AND HIGHLIGHTED BLUE
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TABLE 18
MW-RIZ-1 DETECTED CONSTITUENTS SUMMARY

Third Quarter 2010 ICMP
Charbert Facility
Richmond, Rhode Island

RIZ-1		RIDEM GA	RIDEM Groundwater	Units	Date																	
Shallow Aquifer Monitoring Well		Groundwater	Quality		Baseline 1/2/2008		04/01/2008		07/07/2008		10/01/2008		01/06/2009		04/01/2009		07/09/2009		10/12/2009		01/04/2010	
Screen From 5'-15' BGS		Objectives	PALs		Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
	VOLATILE ORGANICS																					
EPA 8260	Vinyl Chloride	2	1	ug/L	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	cis-1,2-Dichloroethene	70	35	ug/L	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Trichloroethene	5	2.5	ug/L	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Tetrachloroethene	5	2.5	ug/L	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Mod. EPA 8100	**TOTAL PETROLEUM HYDROCARBON**																					
	Hydrocarbon Content	NS	NS	ug/L	<	200	NT		NT		NT		<	200	NT		NT		NT		<	200
	FIELD PARAMETERS																					
	pH	NS	NS	SU	4.0		5.1		4.9		5.42		5.5		5.8		5.3		5.9		6.3	
	CONDUCTIVITY	NS	NS	mS/cm	0.912		0.368		0.508		0.199		0.342		0.79		0.962		0.515		0.362	
	TURBIDITY	NS	NS	NTU	5		4		3		1		3		5		3.4		1		0	
	DISSOLVED OXYGEN	NS	NS	mg/L	4.0		5.8		5.2		3		5.6		7.3		7.1		6.0		4.4	
	TEMPERATURE	NS	NS	°C	13.5		9.8		13.5		19.2		11.3		9.2		16.1		18.2		11.1	
	ORP	NS	NS	mV	256		168		189		248		222		115		222		-22		185	

Notes:
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TABLE 19
MW-RIZ-6 DETECTED CONSTITUENTS SUMMARY

Third Quarter 2010 ICMP
Charbert Facility
Richmond, Rhode Island

RIZ-6 Shallow Aquifer Background Monitoring Well		RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	Units	Date																							
					Baseline		04/01/2008		07/07/2008		10/01/2008		01/05/2009		04/01/2009		07/09/2009		10/12/2009		01/04/2010		04/30/2010		07/08/2010		10/13/2010	
					Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
	VOLATILE ORGANICS																											
EPA 8260	Vinyl Chloride	2	1	ug/L	<	1.0	NT		NT		NT		<	1.0	NT		NT		NT		<	1.0	NT		NT		NT	
	cis-1,2-Dichloroethene	70	35	ug/L	<	1.0	NT		NT		NT		<	1.0	NT		NT		NT		<	1.0	NT		NT		NT	
	Trichloroethene	5	2.5	ug/L	<	1.0	NT		NT		NT		<	1.0	NT		NT		NT		<	1.0	NT		NT		NT	
	Tetrachloroethene	5	2.5	ug/L	<	1.0	NT		NT		NT		<	1.0	NT		NT		NT		<	1.0	NT		NT		NT	
Mod. EPA 8100	**TOTAL PETROLEUM HYDROCARBON**																											
	Hydrocarbon Content	NS	NS	ug/L	<	200	NT		NT		NT		<	200	NT		NT		NT		<	200	NT		NT		NT	
	FIELD PARAMETERS																											
	pH	NS	NS	SU	4.0		NT		NT		NT		6.8		NT		NT		NT		6.54		NT		NT		NT	
	CONDUCTIVITY	NS	NS	mS/cm	0.312		NT		NT		NT		0.142		NT		NT		NT		0.302		NT		NT		NT	
	TURBIDITY	NS	NS	NTU	5		NT		NT		NT		4		NT		NT		NT		5		NT		NT		NT	
	DISSOLVED OXYGEN	NS	NS	mg/L	0.0		NT		NT		NT		1.9		NT		NT		NT		0.64		NT		NT		NT	
	TEMPERATURE	NS	NS	°C	14.1		NT		NT		NT		11.6		NT		NT		NT		11.5		NT		NT		NT	
	ORP	NS	NS	mV	-28		NT		NT		NT		19		NT		NT		NT		33		NT		NT		NT	

Notes:
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FIGURES

GENERAL NOTES

1 BASE MAP DEVELOPED FROM ELECTRONIC CAD FILES PROVIDED BY AEROTECH INTERNATIONAL DIGITAL PHOTOGRAMMETRIC MAPPING DATED 12-01-04, DATE FLOWN MARCH 26, 1999. THE TOPOGRAPHY OF THE LAGOONS, THE 1998, 2001 AND 2004 SOIL STOCK PILES WERE UPDATED BY INSTRUMENT SURVEY CONDUCTED BY GZA PERSONNEL IN SEPTEMBER 2004 THROUGH FEBRUARY 2005.

2 THE LOCATIONS AND ELEVATIONS OF MONITORING WELLS AND EXPLORATIONS WERE APPROXIMATELY DETERMINED BY SURVEY. THIS DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

GZA

GZ-27
GZ-25
GP-28
GZ-24
WOOD RIVER
GZ-28
GZ-26
SW-1
EXTERIOR SVE/AS AREA
WATER TOWER
RIZ-5
GZ-20
RIZ-7
GZ-19
FORMER (LAGOON 5)
RIZ-6
GZ-ML-3
RIZ-13
GZ-3
GZ-7
GP-26
INDUSTRIAL WASTE PUMP HOUSE
GZ-23
GZ-21
GZ-ML-4
GZ-22
OIL BUNKER
DRUM STORAGE AREA
GP-25
RIZ-3
INTERIOR SVE/AS AREA
CHARBERT MILL BUILDING
GZ-6
GZ-ML-5
GP-27B
GZ-8
GP-27A
EW-4
CB-9
PT-4
PT-5
EW-3
PT-1
EW-2
EW-1
GP-22
INTERIOR SVE/AS AREA
WETLANDS BOUNDARY
RIVER EDGE
PT-2
RIZ-21
RIZ-1
GZ-1
RIVER STREET
#18
#16
#14
#12
#10
GZ-ML-2
CHARBERT EMPLOYEE PARKING LOT
PSFM
UIC-MW6

REV. NO.	DESCRIPTION	BY	DATE

PROJ MGR: SMA
DESIGNED BY: SMA
REVIEWED BY: EAS
OPERATOR: DL
DATE: AUG., 2008

GZA
GeoEnvironmental, Inc.
Engineers and Scientists
530 BROADWAY
PROVIDENCE, RI 02909
(401) 421-4140
(401) 751-8613

1 INCH = 80 FEET
0 40 80 160

CHARBERT FACILITY
ALTON, RHODE ISLAND

INTERUM COMPLIANCE MONITORING REPORT
MONITORING WELL LOCATIONS

JOB NO.
32795.29

FIGURE NO.
1

AS-21
SVE-24
SVE-23
SVE-22
GP-26
SVE-21
GZ-3
SVE-32
SVE-31
AS-31
SVE-20
SVE-19
SVE-18
SVE-17
AS-20
AS-19
AS-18
AS-17
W
PIV
W/BALLARDS
SS
LOCATION OF BLOWERS, AIR DRYERS AND CARBON DRUMS FOR INTERIOR AND EXTERIOR SOIL VAPOR EXTRACTION SYSTEMS AND AIR COMPRESSOR FOR INTERIOR AND EXTERIOR SPARGE SYSTEMS
DYE LAB AND BASEMENT
SSVW-7
SSVW-6
OFFICES
SSVW-5
AS-12
AS-11
AS-10
AS-16
SVE-16
SVE-10
SVE-12
SVE-11
AS-15
SVE-15
CHARBERT MILL BUILDING
INTERIOR SPARGE AND VENT SYSTEM
AS-9
AS-8
AS-7
SSVW-4
SVE-9
SVE-8
SVE-7
OFFICE
AS-14
SVE-14
AS-6
AS-5
AS-4
SVE-6
SVE-5
SVE-4
SSVW-3
FLOOR DRAINS
AS-3
AS-2
AS-1
AS-13
SVE-3
SVE-2
SVE-1
SVE-13
SSVW-2
SSVW-1
GZA
1 INCH = 25 FEET
0 12.5 25 50

REV. NO.	DESCRIPTION	BY	DATE

PROJ MGR:
DESIGNED BY: SMA
REVIEWED BY: EAS
OPERATOR: DL
DATE: AUG., 2008

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GeoEnvironmental, Inc.
Engineers and Scientists
530 BROADWAY
PROVIDENCE, RI 02909
(401) 421-4140
(401) 751-8613

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ALTON, RHODE ISLAND

INTERUM COMPLIANCE MONITORING REPORT
INTERIOR AS-SVE SYSTEM

JOB NO.
32795.29

FIGURE NO.
2

WOOD

FORMER (LAGOON 5)

GZ-28 GZ-26 GZ-27 GZ-25 AS-37 AS-36 AS-35 GP-25 GZ-24 AS-26 SVE-26 RIZ-5 GZ-20 SVE-27 AS-27 AS-25 SVE-25 RIZ-13 AS-24 GZ-7 AS-23 AS-22 SVE-22 SVE-24 SVE-23 AS-21 GZ-3 SVE-21 GP-26 SVE-32 SVE-31 AS-31 SVE-28 AS-28 RIZ-7 AS-29 SVE-29 GZ-19 SVE-30 AS-30 SVE-20 AS-20 SVE-19 AS-19 SVE-18 AS-18 SVE-17 AS-17 GZ-23 GZ-21 GZ-22 SVE-36 SVE-37 AS-34 SVE-35 AS-32 SVE-34 AS-33 SVE-33 SFM OIL SS W PIV W/BALLARDS MH EW-F4

LOCATION OF BLOWERS, AIR DRYERS AND CARBON DRUMS FOR INTERIOR AND EXTERIOR SOIL VAPOR EXTRACTION SYSTEMS AND AIR COMPRESSOR FOR INTERIOR AND EXTERIOR SPARGE SYSTEMS

CHARBERT MILL BUILDING INTERIOR SPARGE AND VENT SYSTEM

DYE LAB AND BASEMENT

OFFICES

OFFICE

SSVW-7 SSVW-6 SSVW-5 SSVW-4 AS-16 SVE-16 AS-15 SVE-15 AS-14 SVE-14 AS-12 AS-11 AS-10 SVE-12 SVE-11 SVE-10 AS-9 AS-8 AS-7 SVE-9 SVE-8 SVE-7 AS-6 AS-5 AS-4

42 44 46 48 50 52

1 INCH = 40 FEET

0 20 40 80

REV. NO.	DESCRIPTION	BY	DATE

PROJ MGR:
DESIGNED BY: SMA
REVIEWED BY: EAS

OPERATOR: DL
DATE: AUG., 2008

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GeoEnvironmental, Inc.
Engineers and Scientists
530 BROADWAY
PROVIDENCE, RI 02909
(401) 421-4140
(401) 751-8613

CHARBERT FACILITY
ALTON, RHODE ISLAND

INTERUM COMPLIANCE MONITORING REPORT
EXTERIOR AS-SVE SYSTEM

JOB NO.
32795.29

FIGURE NO.
3

APPENDIX A

LIMITATIONS

GEOHYDROLOGICAL LIMITATIONS

1. The conclusions and recommendations submitted in this report are based in part upon the data obtained from a limited number of soil samples from widely spaced subsurface explorations. The nature and extent of variations between these explorations may not become evident until further investigation. If variations or other latent conditions then appear evident, it will be necessary to reevaluate the recommendations of this report.

2. The generalized soil profile described in the text is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized and have been developed by interpretations of widely spaced explorations and samples; actual soil transitions are probably more gradual. For specific information, refer to the boring logs.

3. Water level readings have been made in the test pits, borings and/or observation wells at times and under conditions stated on the exploration logs. These data have been reviewed and interpretations have been made in the text of this report. However, it must be noted that fluctuations in the level of the groundwater may occur due to variations in rainfall and other factors different from those prevailing at the time measurements were made.

4. The conclusions and recommendations contained in this report are based in part upon various types of chemical data and are contingent upon their validity. These data have been reviewed and interpretations made in the report. As indicated within the report, some of these data are preliminary "screening" level data, and should be confirmed with quantitative analyses if more specific information is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, these data should be reviewed by GZA, and the conclusions and recommendations presented therein modified accordingly.

5. Chemical analyses have been performed for specific parameters during the course of this study, as detailed in the text. It must be noted that additional constituents not searched for during the current study may be present in soil and groundwater at the site.

6. It is recommended that this firm be retained to provide further engineering services during design, implementation, and/or construction of any remedial measures, if necessary. This is to observe compliance with the concepts and recommendations contained herein and to allow design changes in the event that subsurface conditions differ from those anticipated.

APPENDIX B

LABORATORY CERTIFICATES OF ANALYSIS

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

Laboratory Identification Numbers:
MA and ME: **MA092** NH: **2028**
CT: **PH0579** RI: **LAO00236**
NELAC - NYS DOH: **11063**

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project No.: **03.0032795.29**
Work Order No.: **1010-00128**
Date Received: **10/18/2010**
Date Reported: **10/26/2010**

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
10/13/2010	Aqueous	1010-00128 001	GZ-26
10/13/2010	Aqueous	1010-00128 002	GZ-27
10/13/2010	Aqueous	1010-00128 003	GZ-28
10/13/2010	Aqueous	1010-00128 004	GZ-25
10/13/2010	Aqueous	1010-00128 005	GP-28
10/13/2010	Aqueous	1010-00128 006	GZ-24
10/13/2010	Aqueous	1010-00128 007	GZ-3
10/13/2010	Aqueous	1010-00128 008	GZ-7
10/13/2010	Aqueous	1010-00128 009	GP-26
10/13/2010	Aqueous	1010-00128 010	GZ-20
10/13/2010	Aqueous	1010-00128 011	GZ-19
10/13/2010	Aqueous	1010-00128 012	GZ-23
10/13/2010	Aqueous	1010-00128 013	RIZ-7
10/13/2010	Aqueous	1010-00128 014	GZ-22
10/13/2010	Aqueous	1010-00128 015	GZ-21
10/13/2010	Aqueous	1010-00128 016	Trip Blank

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106 South Street
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Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 10/15/10 via _x_GZA courier, __EC, __FEDEX, or ___hand delivered. The temperature of the __temperature blank/_x_cooler air, was 3.4 degrees C. The temperature requirement for most analyses is above freezing to 6 degrees C. The samples were received intact for all requested analyses.

The chain of custody indicates that the samples, when required, were chemically preserved in accordance with the method they reference.

2. EPA Method 8260 - VOCs

The elevated reporting limits for samples GZ-24 (1010-00128-006), GZ-3 (1010-00128-007), GZ-20 (1010-00128-010), and GZ-19 (1010-00128-011) are due to initial dilution of the sample in order to get target compounds within the calibration range of the instrument. The dilution was based upon screening data for the sample.

Attach QC 8260 10/21/10 (1) "S" - Aqueous
Attach QC 8260 10/21/10 (2) "S" - Aqueous

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Stephen Andrus

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Work Order No.: **1010-00128**

Data Authorized By: _____

NELAC certification, as indicated by the NELAC Lab ID Number, is per analyte. For a complete list of NELAC validated analytes, please contact the laboratory.

Abbreviations:
% R = % Recovery
DF = Dilution Factor
DFS = Dilution Factor Solids
CF = Calculation Factor
DO = Diluted Out

Method Key:
Method 8260: The current version of the method is 8260B.
Method 8270: The current version of the method is 8270D.
Method 6010: The current version of the method is 6010C.

Please note that the laboratory signed copy of the chain of custody record is an integral part of the data report.

Soil data is reported on a dry weight basis unless otherwise specified.
Matrix Spike / Matrix Spike Duplicate sets are performed as per method and are reported at the end of the analytical report if assigned on the Chain of Custody.

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Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-26** Sample No.: **001**
Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	10/21/2010
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Diethylether	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Acetone	EPA 8260	<10	10	ug/L	MQS	10/21/2010
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
2-Butanone	EPA 8260	<10	10	ug/L	MQS	10/21/2010
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
cis-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	10/21/2010
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
4-Methyl-2-Pentanone	EPA 8260	<10	10	ug/L	MQS	10/21/2010
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
2-Hexanone	EPA 8260	<10	10	ug/L	MQS	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

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140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-26** Sample No.: **001**
Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	114	70-130	% R	MQS	10/21/2010
***Toluene-D8	EPA 8260	113	70-130	% R	MQS	10/21/2010

GZA GeoEnvironmental, Inc.
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Providence, RI 02903

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Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-26** Sample No.: **001**
Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	105	70-130	% R	MQS	10/21/2010
Preparation	EPA 5030B	1.0		CF	KAC	10/21/2010

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ANALYTICAL REPORT

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Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-27** Sample No.: **002**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	10/21/2010
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Vinyl Chloride	EPA 8260	21	1.0	ug/L	MQS	10/21/2010
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Diethylether	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Acetone	EPA 8260	<10	10	ug/L	MQS	10/21/2010
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
2-Butanone	EPA 8260	<10	10	ug/L	MQS	10/21/2010
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
cis-1,2-Dichloroethene	EPA 8260	44	1.0	ug/L	MQS	10/21/2010
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	10/21/2010
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Trichloroethene	EPA 8260	1.4	1.0	ug/L	MQS	10/21/2010
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
4-Methyl-2-Pentanone	EPA 8260	<10	10	ug/L	MQS	10/21/2010
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
2-Hexanone	EPA 8260	<10	10	ug/L	MQS	10/21/2010

GZA GeoEnvironmental, Inc.
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Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-27** Sample No.: **002**
Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	114	70-130	% R	MQS	10/21/2010
***Toluene-D8	EPA 8260	114	70-130	% R	MQS	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-27** Sample No.: **002**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	102	70-130	% R	MQS	10/21/2010
Preparation	EPA 5030B	1.0		CF	KAC	10/21/2010

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106 South Street
Hopkinton, MA 01748
(781) 278-4700

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140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-28** Sample No.: **003**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	10/21/2010
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Vinyl Chloride	EPA 8260	17	1.0	ug/L	MQS	10/21/2010
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Diethylether	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Acetone	EPA 8260	<10	10	ug/L	MQS	10/21/2010
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
2-Butanone	EPA 8260	<10	10	ug/L	MQS	10/21/2010
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
cis-1,2-Dichloroethene	EPA 8260	85	1.0	ug/L	MQS	10/21/2010
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	10/21/2010
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Trichloroethene	EPA 8260	8.3	1.0	ug/L	MQS	10/21/2010
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
4-Methyl-2-Pentanone	EPA 8260	<10	10	ug/L	MQS	10/21/2010
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
2-Hexanone	EPA 8260	<10	10	ug/L	MQS	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-28** Sample No.: **003**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	106	70-130	% R	MQS	10/21/2010
***Toluene-D8	EPA 8260	110	70-130	% R	MQS	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

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GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-28** Sample No.: **003**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	101	70-130	% R	MQS	10/21/2010
Preparation	EPA 5030B	1.0		CF	KAC	10/21/2010

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106 South Street
Hopkinton, MA 01748
(781) 278-4700

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GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-25** Sample No.: **004**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	10/21/2010
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Diethylether	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Acetone	EPA 8260	<10	10	ug/L	MQS	10/21/2010
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
2-Butanone	EPA 8260	<10	10	ug/L	MQS	10/21/2010
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
cis-1,2-Dichloroethene	EPA 8260	6.4	1.0	ug/L	MQS	10/21/2010
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	10/21/2010
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Trichloroethene	EPA 8260	10	1.0	ug/L	MQS	10/21/2010
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
4-Methyl-2-Pentanone	EPA 8260	<10	10	ug/L	MQS	10/21/2010
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
2-Hexanone	EPA 8260	<10	10	ug/L	MQS	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

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GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-25** Sample No.: **004**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Tetrachloroethene	EPA 8260	130	1.0	ug/L	MQS	10/21/2010
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	103	70-130	% R	MQS	10/21/2010
***Toluene-D8	EPA 8260	110	70-130	% R	MQS	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

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GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-25** Sample No.: **004**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	101	70-130	% R	MQS	10/21/2010
Preparation	EPA 5030B	1.0		CF	KAC	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

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140 Broadway
Providence, RI 02903

Stephen Andrus

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Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GP-28** Sample No.: **005**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	10/21/2010
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Vinyl Chloride	EPA 8260	3.9	1.0	ug/L	MQS	10/21/2010
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Diethylether	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Acetone	EPA 8260	<10	10	ug/L	MQS	10/21/2010
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
2-Butanone	EPA 8260	<10	10	ug/L	MQS	10/21/2010
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
cis-1,2-Dichloroethene	EPA 8260	2.4	1.0	ug/L	MQS	10/21/2010
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	10/21/2010
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
4-Methyl-2-Pentanone	EPA 8260	<10	10	ug/L	MQS	10/21/2010
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
2-Hexanone	EPA 8260	<10	10	ug/L	MQS	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GP-28** Sample No.: **005**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	10/21/2010
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/21/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	108	70-130	% R	MQS	10/21/2010
***Toluene-D8	EPA 8260	111	70-130	% R	MQS	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GP-28** Sample No.: **005**
Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	105	70-130	% R	MQS	10/21/2010
Preparation	EPA 5030B	1.0		CF	KAC	10/21/2010

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106 South Street
Hopkinton, MA 01748
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140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-24** Sample No.: **006**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	10/21/2010
Dichlorodifluoromethane	EPA 8260	<20	20	ug/L	MQS	10/21/2010
Chloromethane	EPA 8260	<20	20	ug/L	MQS	10/21/2010
Vinyl Chloride	EPA 8260	150	10	ug/L	MQS	10/21/2010
Bromomethane	EPA 8260	<20	20	ug/L	MQS	10/21/2010
Chloroethane	EPA 8260	<10	10	ug/L	MQS	10/21/2010
Trichlorofluoromethane	EPA 8260	<20	20	ug/L	MQS	10/21/2010
Diethylether	EPA 8260	<20	20	ug/L	MQS	10/21/2010
Acetone	EPA 8260	<100	100	ug/L	MQS	10/21/2010
1,1-Dichloroethene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
Dichloromethane	EPA 8260	<20	20	ug/L	MQS	10/21/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<10	10	ug/L	MQS	10/21/2010
trans-1,2-Dichloroethene	EPA 8260	11	10	ug/L	MQS	10/21/2010
1,1-Dichloroethane	EPA 8260	<10	10	ug/L	MQS	10/21/2010
2-Butanone	EPA 8260	<100	100	ug/L	MQS	10/21/2010
2,2-Dichloropropane	EPA 8260	<10	10	ug/L	MQS	10/21/2010
cis-1,2-Dichloroethene	EPA 8260	960	10	ug/L	MQS	10/21/2010
Chloroform	EPA 8260	<10	10	ug/L	MQS	10/21/2010
Bromochloromethane	EPA 8260	<10	10	ug/L	MQS	10/21/2010
Tetrahydrofuran	EPA 8260	<100	100	ug/L	MQS	10/21/2010
1,1,1-Trichloroethane	EPA 8260	<10	10	ug/L	MQS	10/21/2010
1,1-Dichloropropene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
Carbon Tetrachloride	EPA 8260	<10	10	ug/L	MQS	10/21/2010
1,2-Dichloroethane	EPA 8260	<10	10	ug/L	MQS	10/21/2010
Benzene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
Trichloroethene	EPA 8260	22	10	ug/L	MQS	10/21/2010
1,2-Dichloropropane	EPA 8260	<10	10	ug/L	MQS	10/21/2010
Bromodichloromethane	EPA 8260	<10	10	ug/L	MQS	10/21/2010
Dibromomethane	EPA 8260	<10	10	ug/L	MQS	10/21/2010
4-Methyl-2-Pentanone	EPA 8260	<100	100	ug/L	MQS	10/21/2010
cis-1,3-Dichloropropene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
Toluene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
trans-1,3-Dichloropropene	EPA 8260	<20	20	ug/L	MQS	10/21/2010
1,1,2-Trichloroethane	EPA 8260	<10	10	ug/L	MQS	10/21/2010
2-Hexanone	EPA 8260	<100	100	ug/L	MQS	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

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GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
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Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-24** Sample No.: **006**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<10	10	ug/L	MQS	10/21/2010
Tetrachloroethene	EPA 8260	46	10	ug/L	MQS	10/21/2010
Dibromochloromethane	EPA 8260	<10	10	ug/L	MQS	10/21/2010
1,2-Dibromoethane (EDB)	EPA 8260	<20	20	ug/L	MQS	10/21/2010
Chlorobenzene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<10	10	ug/L	MQS	10/21/2010
Ethylbenzene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
m&p-Xylene	EPA 8260	<20	20	ug/L	MQS	10/21/2010
o-Xylene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
Styrene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
Bromoform	EPA 8260	<20	20	ug/L	MQS	10/21/2010
Isopropylbenzene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<10	10	ug/L	MQS	10/21/2010
1,2,3-Trichloropropane	EPA 8260	<10	10	ug/L	MQS	10/21/2010
Bromobenzene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
N-Propylbenzene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
2-Chlorotoluene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
1,3,5-Trimethylbenzene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
4-Chlorotoluene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
tert-Butylbenzene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
1,2,4-Trimethylbenzene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
sec-Butylbenzene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
p-Isopropyltoluene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
1,3-Dichlorobenzene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
1,4-Dichlorobenzene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
n-Butylbenzene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
1,2-Dichlorobenzene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<20	20	ug/L	MQS	10/21/2010
1,2,4-Trichlorobenzene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
Hexachlorobutadiene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
Naphthalene	EPA 8260	<20	20	ug/L	MQS	10/21/2010
1,2,3-Trichlorobenzene	EPA 8260	<10	10	ug/L	MQS	10/21/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	102	70-130	% R	MQS	10/21/2010
***Toluene-D8	EPA 8260	110	70-130	% R	MQS	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

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GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-24** Sample No.: **006**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	104	70-130	% R	MQS	10/21/2010
Preparation	EPA 5030B	10		CF	KAC	10/21/2010

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106 South Street
Hopkinton, MA 01748
(781) 278-4700

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140 Broadway
Providence, RI 02903

Stephen Andrus

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Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-3** Sample No.: **007**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	10/22/2010
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Diethylether	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Acetone	EPA 8260	<10	10	ug/L	MQS	10/22/2010
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
2-Butanone	EPA 8260	<10	10	ug/L	MQS	10/22/2010
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
cis-1,2-Dichloroethene	EPA 8260	23	1.0	ug/L	MQS	10/22/2010
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	10/22/2010
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Trichloroethene	EPA 8260	14	1.0	ug/L	MQS	10/22/2010
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
4-Methyl-2-Pentanone	EPA 8260	<10	10	ug/L	MQS	10/22/2010
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
2-Hexanone	EPA 8260	<10	10	ug/L	MQS	10/22/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

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GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-3** Sample No.: **007**
Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Tetrachloroethene	EPA 8260	4.9	1.0	ug/L	MQS	10/22/2010
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	104	70-130	% R	MQS	10/22/2010
***Toluene-D8	EPA 8260	112	70-130	% R	MQS	10/22/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-3** Sample No.: **007**
Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	101	70-130	% R	MQS	10/22/2010
Preparation	EPA 5030B	1.0		CF	KAC	10/21/2010

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106 South Street
Hopkinton, MA 01748
(781) 278-4700

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GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
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Work Order No.: **1010-00128**

Sample ID: **GZ-7** Sample No.: **008**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	10/22/2010
Dichlorodifluoromethane	EPA 8260	<10	10	ug/L	MQS	10/22/2010
Chloromethane	EPA 8260	<10	10	ug/L	MQS	10/22/2010
Vinyl Chloride	EPA 8260	150	5.0	ug/L	MQS	10/22/2010
Bromomethane	EPA 8260	<10	10	ug/L	MQS	10/22/2010
Chloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Trichlorofluoromethane	EPA 8260	<10	10	ug/L	MQS	10/22/2010
Diethylether	EPA 8260	<10	10	ug/L	MQS	10/22/2010
Acetone	EPA 8260	<50	50	ug/L	MQS	10/22/2010
1,1-Dichloroethene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Dichloromethane	EPA 8260	<10	10	ug/L	MQS	10/22/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
trans-1,2-Dichloroethene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,1-Dichloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
2-Butanone	EPA 8260	<50	50	ug/L	MQS	10/22/2010
2,2-Dichloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
cis-1,2-Dichloroethene	EPA 8260	510	5.0	ug/L	MQS	10/22/2010
Chloroform	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Bromochloromethane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Tetrahydrofuran	EPA 8260	<50	50	ug/L	MQS	10/22/2010
1,1,1-Trichloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,1-Dichloropropene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Carbon Tetrachloride	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,2-Dichloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Benzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Trichloroethene	EPA 8260	350	5.0	ug/L	MQS	10/22/2010
1,2-Dichloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Bromodichloromethane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Dibromomethane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
4-Methyl-2-Pentanone	EPA 8260	<50	50	ug/L	MQS	10/22/2010
cis-1,3-Dichloropropene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Toluene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
trans-1,3-Dichloropropene	EPA 8260	<10	10	ug/L	MQS	10/22/2010
1,1,2-Trichloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
2-Hexanone	EPA 8260	<50	50	ug/L	MQS	10/22/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

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Work Order No.: **1010-00128**

Sample ID: **GZ-7** Sample No.: **008**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Tetrachloroethene	EPA 8260	600	5.0	ug/L	MQS	10/22/2010
Dibromochloromethane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,2-Dibromoethane (EDB)	EPA 8260	<10	10	ug/L	MQS	10/22/2010
Chlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Ethylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
m&p-Xylene	EPA 8260	<10	10	ug/L	MQS	10/22/2010
o-Xylene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Styrene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Bromoform	EPA 8260	<10	10	ug/L	MQS	10/22/2010
Isopropylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,2,3-Trichloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Bromobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
N-Propylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
2-Chlorotoluene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,3,5-Trimethylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
4-Chlorotoluene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
tert-Butylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,2,4-Trimethylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
sec-Butylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
p-Isopropyltoluene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,3-Dichlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,4-Dichlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
n-Butylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,2-Dichlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<10	10	ug/L	MQS	10/22/2010
1,2,4-Trichlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Hexachlorobutadiene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Naphthalene	EPA 8260	<10	10	ug/L	MQS	10/22/2010
1,2,3-Trichlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	102	70-130	% R	MQS	10/22/2010
***Toluene-D8	EPA 8260	110	70-130	% R	MQS	10/22/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

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Sample ID: **GZ-7** Sample No.: **008**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	101	70-130	% R	MQS	10/22/2010
Preparation	EPA 5030B	5.0		CF	KAC	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

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140 Broadway
Providence, RI 02903

Stephen Andrus

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Project No.: **03.0032795.29**

Date Received: **10/18/2010**
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Work Order No.: **1010-00128**

Sample ID: **GP-26** Sample No.: **009**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	10/22/2010
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Diethylether	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Acetone	EPA 8260	<10	10	ug/L	MQS	10/22/2010
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
2-Butanone	EPA 8260	<10	10	ug/L	MQS	10/22/2010
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
cis-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	10/22/2010
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
4-Methyl-2-Pentanone	EPA 8260	<10	10	ug/L	MQS	10/22/2010
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
2-Hexanone	EPA 8260	<10	10	ug/L	MQS	10/22/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GP-26** Sample No.: **009**
Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	99.4	70-130	% R	MQS	10/22/2010
***Toluene-D8	EPA 8260	108	70-130	% R	MQS	10/22/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

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GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

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Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	99.4	70-130	% R	MQS	10/22/2010
Preparation	EPA 5030B	1.0		CF	KAC	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

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Sample ID: **GZ-20** Sample No.: **010**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	10/22/2010
Dichlorodifluoromethane	EPA 8260	<50	50	ug/L	MQS	10/22/2010
Chloromethane	EPA 8260	<50	50	ug/L	MQS	10/22/2010
Vinyl Chloride	EPA 8260	50	25	ug/L	MQS	10/22/2010
Bromomethane	EPA 8260	<50	50	ug/L	MQS	10/22/2010
Chloroethane	EPA 8260	<25	25	ug/L	MQS	10/22/2010
Trichlorofluoromethane	EPA 8260	<50	50	ug/L	MQS	10/22/2010
Diethylether	EPA 8260	<50	50	ug/L	MQS	10/22/2010
Acetone	EPA 8260	<250	250	ug/L	MQS	10/22/2010
1,1-Dichloroethene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
Dichloromethane	EPA 8260	<50	50	ug/L	MQS	10/22/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<25	25	ug/L	MQS	10/22/2010
trans-1,2-Dichloroethene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
1,1-Dichloroethane	EPA 8260	<25	25	ug/L	MQS	10/22/2010
2-Butanone	EPA 8260	<250	250	ug/L	MQS	10/22/2010
2,2-Dichloropropane	EPA 8260	<25	25	ug/L	MQS	10/22/2010
cis-1,2-Dichloroethene	EPA 8260	520	25	ug/L	MQS	10/22/2010
Chloroform	EPA 8260	<25	25	ug/L	MQS	10/22/2010
Bromochloromethane	EPA 8260	<25	25	ug/L	MQS	10/22/2010
Tetrahydrofuran	EPA 8260	<250	250	ug/L	MQS	10/22/2010
1,1,1-Trichloroethane	EPA 8260	<25	25	ug/L	MQS	10/22/2010
1,1-Dichloropropene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
Carbon Tetrachloride	EPA 8260	<25	25	ug/L	MQS	10/22/2010
1,2-Dichloroethane	EPA 8260	<25	25	ug/L	MQS	10/22/2010
Benzene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
Trichloroethene	EPA 8260	1400	25	ug/L	MQS	10/22/2010
1,2-Dichloropropane	EPA 8260	<25	25	ug/L	MQS	10/22/2010
Bromodichloromethane	EPA 8260	<25	25	ug/L	MQS	10/22/2010
Dibromomethane	EPA 8260	<25	25	ug/L	MQS	10/22/2010
4-Methyl-2-Pentanone	EPA 8260	<250	250	ug/L	MQS	10/22/2010
cis-1,3-Dichloropropene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
Toluene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
trans-1,3-Dichloropropene	EPA 8260	<50	50	ug/L	MQS	10/22/2010
1,1,2-Trichloroethane	EPA 8260	<25	25	ug/L	MQS	10/22/2010
2-Hexanone	EPA 8260	<250	250	ug/L	MQS	10/22/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

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Providence, RI 02903

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Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-20** Sample No.: **010**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<25	25	ug/L	MQS	10/22/2010
Tetrachloroethene	EPA 8260	3100	25	ug/L	MQS	10/22/2010
Dibromochloromethane	EPA 8260	<25	25	ug/L	MQS	10/22/2010
1,2-Dibromoethane (EDB)	EPA 8260	<50	50	ug/L	MQS	10/22/2010
Chlorobenzene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<25	25	ug/L	MQS	10/22/2010
Ethylbenzene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
m&p-Xylene	EPA 8260	<50	50	ug/L	MQS	10/22/2010
o-Xylene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
Styrene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
Bromoform	EPA 8260	<50	50	ug/L	MQS	10/22/2010
Isopropylbenzene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<25	25	ug/L	MQS	10/22/2010
1,2,3-Trichloropropane	EPA 8260	<25	25	ug/L	MQS	10/22/2010
Bromobenzene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
N-Propylbenzene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
2-Chlorotoluene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
1,3,5-Trimethylbenzene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
4-Chlorotoluene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
tert-Butylbenzene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
1,2,4-Trimethylbenzene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
sec-Butylbenzene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
p-Isopropyltoluene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
1,3-Dichlorobenzene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
1,4-Dichlorobenzene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
n-Butylbenzene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
1,2-Dichlorobenzene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<50	50	ug/L	MQS	10/22/2010
1,2,4-Trichlorobenzene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
Hexachlorobutadiene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
Naphthalene	EPA 8260	<50	50	ug/L	MQS	10/22/2010
1,2,3-Trichlorobenzene	EPA 8260	<25	25	ug/L	MQS	10/22/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	108	70-130	% R	MQS	10/22/2010
***Toluene-D8	EPA 8260	113	70-130	% R	MQS	10/22/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-20** Sample No.: **010**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	100	70-130	% R	MQS	10/22/2010
Preparation	EPA 5030B	25		CF	KAC	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

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GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-19** Sample No.: **011**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	10/22/2010
Dichlorodifluoromethane	EPA 8260	<10	10	ug/L	MQS	10/22/2010
Chloromethane	EPA 8260	<10	10	ug/L	MQS	10/22/2010
Vinyl Chloride	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Bromomethane	EPA 8260	<10	10	ug/L	MQS	10/22/2010
Chloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Trichlorofluoromethane	EPA 8260	<10	10	ug/L	MQS	10/22/2010
Diethylether	EPA 8260	<10	10	ug/L	MQS	10/22/2010
Acetone	EPA 8260	<50	50	ug/L	MQS	10/22/2010
1,1-Dichloroethene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Dichloromethane	EPA 8260	<10	10	ug/L	MQS	10/22/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
trans-1,2-Dichloroethene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,1-Dichloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
2-Butanone	EPA 8260	<50	50	ug/L	MQS	10/22/2010
2,2-Dichloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
cis-1,2-Dichloroethene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Chloroform	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Bromochloromethane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Tetrahydrofuran	EPA 8260	<50	50	ug/L	MQS	10/22/2010
1,1,1-Trichloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,1-Dichloropropene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Carbon Tetrachloride	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,2-Dichloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Benzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Trichloroethene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,2-Dichloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Bromodichloromethane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Dibromomethane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
4-Methyl-2-Pentanone	EPA 8260	<50	50	ug/L	MQS	10/22/2010
cis-1,3-Dichloropropene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Toluene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
trans-1,3-Dichloropropene	EPA 8260	<10	10	ug/L	MQS	10/22/2010
1,1,2-Trichloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
2-Hexanone	EPA 8260	<50	50	ug/L	MQS	10/22/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-19** Sample No.: **011**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Tetrachloroethene	EPA 8260	560	5.0	ug/L	MQS	10/22/2010
Dibromochloromethane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,2-Dibromoethane (EDB)	EPA 8260	<10	10	ug/L	MQS	10/22/2010
Chlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Ethylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
m&p-Xylene	EPA 8260	<10	10	ug/L	MQS	10/22/2010
o-Xylene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Styrene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Bromoform	EPA 8260	<10	10	ug/L	MQS	10/22/2010
Isopropylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,2,3-Trichloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Bromobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
N-Propylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
2-Chlorotoluene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,3,5-Trimethylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
4-Chlorotoluene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
tert-Butylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,2,4-Trimethylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
sec-Butylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
p-Isopropyltoluene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,3-Dichlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,4-Dichlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
n-Butylbenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,2-Dichlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<10	10	ug/L	MQS	10/22/2010
1,2,4-Trichlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Hexachlorobutadiene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Naphthalene	EPA 8260	<10	10	ug/L	MQS	10/22/2010
1,2,3-Trichlorobenzene	EPA 8260	<5.0	5.0	ug/L	MQS	10/22/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	99.1	70-130	% R	MQS	10/22/2010
***Toluene-D8	EPA 8260	110	70-130	% R	MQS	10/22/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

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GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-19** Sample No.: **011**
Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	103	70-130	% R	MQS	10/22/2010
Preparation	EPA 5030B	5.0		CF	KAC	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

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Date Received: **10/18/2010**
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Work Order No.: **1010-00128**

Sample ID: **GZ-23** Sample No.: **012**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	10/22/2010
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Diethylether	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Acetone	EPA 8260	<10	10	ug/L	MQS	10/22/2010
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
2-Butanone	EPA 8260	<10	10	ug/L	MQS	10/22/2010
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
cis-1,2-Dichloroethene	EPA 8260	1.1	1.0	ug/L	MQS	10/22/2010
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	10/22/2010
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Trichloroethene	EPA 8260	6.9	1.0	ug/L	MQS	10/22/2010
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
4-Methyl-2-Pentanone	EPA 8260	<10	10	ug/L	MQS	10/22/2010
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
2-Hexanone	EPA 8260	<10	10	ug/L	MQS	10/22/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-23** Sample No.: **012**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Tetrachloroethene	EPA 8260	1.2	1.0	ug/L	MQS	10/22/2010
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	10/22/2010
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	10/22/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	104	70-130	% R	MQS	10/22/2010
***Toluene-D8	EPA 8260	109	70-130	% R	MQS	10/22/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-23** Sample No.: **012**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	103	70-130	% R	MQS	10/22/2010
Preparation	EPA 5030B	1.0		CF	KAC	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

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GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **RIZ-7** Sample No.: **013**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				KAC	10/22/2010
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Chloromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Vinyl Chloride	EPA 8260	110	2.5	ug/L	KAC	10/22/2010
Bromomethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Chloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Diethylether	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Acetone	EPA 8260	<10	10	ug/L	KAC	10/22/2010
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
trans-1,2-Dichloroethene	EPA 8260	3.0	1.0	ug/L	KAC	10/22/2010
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
2-Butanone	EPA 8260	<10	10	ug/L	KAC	10/22/2010
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
cis-1,2-Dichloroethene	EPA 8260	78	1.0	ug/L	KAC	10/22/2010
Chloroform	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Tetrahydrofuran	EPA 8260	<10	10	ug/L	KAC	10/22/2010
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Benzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
4-Methyl-2-Pentanone	EPA 8260	<10	10	ug/L	KAC	10/22/2010
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Toluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
2-Hexanone	EPA 8260	<10	10	ug/L	KAC	10/22/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **RIZ-7** Sample No.: **013**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
o-Xylene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Styrene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Bromoform	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
2-Chlorotoluene	EPA 8260	2.4	1.0	ug/L	KAC	10/22/2010
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Naphthalene	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	112	70-130	% R	KAC	10/22/2010
***Toluene-D8	EPA 8260	108	70-130	% R	KAC	10/22/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **RIZ-7** Sample No.: **013**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	101	70-130	% R	KAC	10/22/2010
Preparation	EPA 5030B	1.0		CF	KAC	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-22** Sample No.: **014**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				KAC	10/22/2010
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Chloromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Bromomethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Chloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Diethylether	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Acetone	EPA 8260	<10	10	ug/L	KAC	10/22/2010
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
2-Butanone	EPA 8260	<10	10	ug/L	KAC	10/22/2010
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
cis-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Chloroform	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Tetrahydrofuran	EPA 8260	<10	10	ug/L	KAC	10/22/2010
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Benzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
4-Methyl-2-Pentanone	EPA 8260	<10	10	ug/L	KAC	10/22/2010
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Toluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
2-Hexanone	EPA 8260	<10	10	ug/L	KAC	10/22/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-22** Sample No.: **014**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Tetrachloroethene	EPA 8260	50	1.0	ug/L	KAC	10/22/2010
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
o-Xylene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Styrene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Bromoform	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Naphthalene	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	104	70-130	% R	KAC	10/22/2010
***Toluene-D8	EPA 8260	110	70-130	% R	KAC	10/22/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-22** Sample No.: **014**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	102	70-130	% R	KAC	10/22/2010
Preparation	EPA 5030B	1.0		CF	KAC	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

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140 Broadway
Providence, RI 02903

Stephen Andrus

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Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-21** Sample No.: **015**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				KAC	10/22/2010
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Chloromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Bromomethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Chloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Diethylether	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Acetone	EPA 8260	<10	10	ug/L	KAC	10/22/2010
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
2-Butanone	EPA 8260	<10	10	ug/L	KAC	10/22/2010
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
cis-1,2-Dichloroethene	EPA 8260	1.7	1.0	ug/L	KAC	10/22/2010
Chloroform	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Tetrahydrofuran	EPA 8260	<10	10	ug/L	KAC	10/22/2010
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Benzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Trichloroethene	EPA 8260	2.1	1.0	ug/L	KAC	10/22/2010
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
4-Methyl-2-Pentanone	EPA 8260	<10	10	ug/L	KAC	10/22/2010
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Toluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
2-Hexanone	EPA 8260	<10	10	ug/L	KAC	10/22/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

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140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
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Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-21** Sample No.: **015**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Tetrachloroethene	EPA 8260	3.6	1.0	ug/L	KAC	10/22/2010
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
o-Xylene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Styrene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Bromoform	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Naphthalene	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	105	70-130	% R	KAC	10/22/2010
***Toluene-D8	EPA 8260	110	70-130	% R	KAC	10/22/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **GZ-21** Sample No.: **015**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	102	70-130	% R	KAC	10/22/2010
Preparation	EPA 5030B	1.0		CF	KAC	10/21/2010

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106 South Street
Hopkinton, MA 01748
(781) 278-4700

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **Trip Blank** Sample No.: **016**
Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				KAC	10/22/2010
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Chloromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Bromomethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Chloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Diethylether	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Acetone	EPA 8260	<10	10	ug/L	KAC	10/22/2010
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
2-Butanone	EPA 8260	<10	10	ug/L	KAC	10/22/2010
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
cis-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Chloroform	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Tetrahydrofuran	EPA 8260	<10	10	ug/L	KAC	10/22/2010
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Benzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
4-Methyl-2-Pentanone	EPA 8260	<10	10	ug/L	KAC	10/22/2010
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Toluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
2-Hexanone	EPA 8260	<10	10	ug/L	KAC	10/22/2010

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106 South Street
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A N A L Y T I C A L R E P O R T

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140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **Trip Blank** Sample No.: **016**
Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
o-Xylene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Styrene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Bromoform	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Naphthalene	EPA 8260	<2.0	2.0	ug/L	KAC	10/22/2010
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/22/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	104	70-130	% R	KAC	10/22/2010
***Toluene-D8	EPA 8260	111	70-130	% R	KAC	10/22/2010

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Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00128**

Sample ID: **Trip Blank** Sample No.: **016**

Sample Date: **10/13/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	99.5	70-130	% R	KAC	10/22/2010
Preparation	EPA 5030B	1.0		CF	KAC	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

EPA Method 8260 / 524.2 Aqueous Method Blank (MB) and Laboratory Control Sample/Duplicate (LCS/LCSD) Data

Method Blank			Laboratory Control Sample				Laboratory Control Sample Duplicate					
Date Analyzed:	10/21/10		Date Analyzed:	10/21/10			10/21/10					
Volatile Organics	Conc. ug/L	Acceptance Limit	Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict	% Recovery	Acceptance Limits	Verdict	RPD	Limit	Verdict
dichlorodifluoromethane	< 1.0	< 1.0	dichlorodifluoromethane	113	70-130	ok	110	70-130	ok	2.79	<25	ok
chloromethane	< 1.0	< 1.0	chloromethane	112	70-130	ok	108	70-130	ok	3.53	<25	ok
vinyl chloride	< 0.5	< 0.5	vinyl chloride	111	80-120	ok	106	70-130	ok	4.95	<25	ok
bromomethane	< 1.0	< 1.0	bromomethane	101	70-130	ok	96.6	70-130	ok	4.90	<25	ok
chloroethane	< 0.5	< 0.5	chloroethane	98.3	70-130	ok	90.2	70-130	ok	8.64	<25	ok
trichlorofluoromethane	< 1.0	< 1.0	trichlorofluoromethane	110	70-130	ok	103	70-130	ok	6.75	<25	ok
diethyl ether	< 2.5	< 2.5	diethyl ether	81.7	70-130	ok	81.6	70-130	ok	0.13	<25	ok
acetone	< 10	< 10	acetone	90.7	70-130	ok	92.9	70-130	ok	2.39	<25	ok
1,1-dichloroethene	< 0.5	< 0.5	1,1-dichloroethene	97.6	80-120	ok	94.8	70-130	ok	2.86	<25	ok
dichloromethane	< 1.0	< 1.0	dichloromethane	94.3	70-130	ok	92.1	70-130	ok	2.40	<25	ok
methyl-tert-butyl-ether	< 0.5	< 0.5	methyl-tert-butyl-ether	99.3	70-130	ok	101	70-130	ok	1.69	<25	ok
trans-1,2-dichloroethene	< 0.5	< 0.5	trans-1,2-dichloroethene	94.8	70-130	ok	91.3	70-130	ok	3.71	<25	ok
1,1-dichloroethane	< 0.5	< 0.5	1,1-dichloroethane	93.7	70-130	ok	91.0	70-130	ok	2.92	<25	ok
2-butanone	< 10	< 10	2-butanone	91.1	70-130	ok	93.4	70-130	ok	2.54	<25	ok
2,2-dichloropropane	< 0.5	< 0.5	2,2-dichloropropane	103	70-130	ok	96.4	70-130	ok	6.27	<25	ok
cis-1,2-dichloroethene	< 0.5	< 0.5	cis-1,2-dichloroethene	94.7	70-130	ok	94.4	70-130	ok	0.30	<25	ok
chloroform	< 0.5	< 0.5	chloroform	91.4	80-120	ok	90.6	70-130	ok	0.90	<25	ok
bromochloromethane	< 0.5	< 0.5	bromochloromethane	98.2	70-130	ok	99.2	70-130	ok	1.07	<25	ok
tetrahydrofuran	< 5.0	< 5.0	tetrahydrofuran	99.8	70-130	ok	103	70-130	ok	2.81	<25	ok
1,1,1-trichloroethane	< 0.5	< 0.5	1,1,1-trichloroethane	97.3	70-130	ok	95.2	70-130	ok	2.20	<25	ok
1,1-dichloropropene	< 0.5	< 0.5	1,1-dichloropropene	95.1	70-130	ok	92.9	70-130	ok	2.31	<25	ok
carbon tetrachloride	< 0.5	< 0.5	carbon tetrachloride	99.1	70-130	ok	97.3	70-130	ok	1.78	<25	ok
1,2-dichloroethane	< 0.5	< 0.5	1,2-dichloroethane	93.1	70-130	ok	94.6	70-130	ok	1.59	<25	ok
benzene	< 0.5	< 0.5	benzene	96.4	70-130	ok	94.8	70-130	ok	1.69	<25	ok
trichloroethene	< 0.5	< 0.5	trichloroethene	97.5	70-130	ok	97.3	70-130	ok	0.21	<25	ok
1,2-dichloropropane	< 0.5	< 0.5	1,2-dichloropropane	96.0	80-120	ok	96.3	70-130	ok	0.29	<25	ok
bromodichloromethane	< 0.5	< 0.5	bromodichloromethane	94.2	70-130	ok	94.2	70-130	ok	0.04	<25	ok
dibromomethane	< 0.5	< 0.5	dibromomethane	97.0	70-130	ok	99.7	70-130	ok	2.73	<25	ok
4-methyl-2-pentanone	< 10	< 10	4-methyl-2-pentanone	99.3	70-130	ok	100	70-130	ok	1.03	<25	ok
cis-1,3-dichloropropene	< 0.5	< 0.5	cis-1,3-dichloropropene	97.1	70-130	ok	98.4	70-130	ok	1.40	<25	ok
toluene	< 0.5	< 0.5	toluene	98.8	80-120	ok	96.4	70-130	ok	2.43	<25	ok
trans-1,3-dichloropropene	< 1.0	< 1.0	trans-1,3-dichloropropene	94.2	70-130	ok	93.4	70-130	ok	0.88	<25	ok
1,1,2-trichloroethane	< 0.5	< 0.5	1,1,2-trichloroethane	96.9	70-130	ok	100	70-130	ok	3.18	<25	ok
2-hexanone	< 10	< 10	2-hexanone	98.3	70-130	ok	104	70-130	ok	5.40	<25	ok
1,3-dichloropropane	< 0.5	< 0.5	1,3-dichloropropane	96.2	70-130	ok	98.6	70-130	ok	2.55	<25	ok
tetrachloroethene	< 0.5	< 0.5	tetrachloroethene	102	70-130	ok	99.7	70-130	ok	1.84	<25	ok
dibromochloromethane	< 0.5	< 0.5	dibromochloromethane	101	70-130	ok	101	70-130	ok	0.58	<25	ok
1,2-dibromoethane (EDB)	< 1.0	< 1.0	1,2-dibromoethane (EDB)	103	70-130	ok	104	70-130	ok	1.36	<25	ok
chlorobenzene	< 0.5	< 0.5	chlorobenzene	101	70-130	ok	102	70-130	ok	0.94	<25	ok
1,1,1,2-tetrachloroethane	< 0.5	< 0.5	1,1,1,2-tetrachloroethane	103	70-130	ok	102	70-130	ok	1.14	<25	ok
ethylbenzene	< 0.5	< 0.5	ethylbenzene	101	80-120	ok	98.5	70-130	ok	2.43	<25	ok
1,1,2,2-tetrachloroethane	< 0.5	< 0.5	1,1,2,2-tetrachloroethane	106	70-130	ok	108	70-130	ok	1.85	<25	ok
m&p-xylene	< 1.0	< 1.0	m&p-xylene	101	70-130	ok	101	70-130	ok	0.28	<25	ok
o-xylene	< 0.5	< 0.5	o-xylene	94.0	70-130	ok	93.2	70-130	ok	0.87	<25	ok
styrene	< 0.5	< 0.5	styrene	96.3	70-130	ok	94.9	70-130	ok	1.44	<25	ok
bromoform	< 1.0	< 1.0	bromoform	95.3	70-130	ok	99.5	70-130	ok	4.31	<25	ok
isopropylbenzene	< 0.5	< 0.5	isopropylbenzene	98.7	70-130	ok	94.6	70-130	ok	4.22	<25	ok
1,2,3-trichloropropane	< 0.5	< 0.5	1,2,3-trichloropropane	93.2	70-130	ok	94.6	70-130	ok	1.51	<25	ok
bromobenzene	< 0.5	< 0.5	bromobenzene	96.5	70-130	ok	96.7	70-130	ok	0.24	<25	ok
n-propylbenzene	< 0.5	< 0.5	n-propylbenzene	96.2	70-130	ok	94.8	70-130	ok	1.52	<25	ok
2-chlorotoluene	< 0.5	< 0.5	2-chlorotoluene	98.6	70-130	ok	95.7	70-130	ok	3.00	<25	ok
1,3,5-trimethylbenzene	< 0.5	< 0.5	1,3,5-trimethylbenzene	100	70-130	ok	98.6	70-130	ok	1.61	<25	ok
4-chlorotoluene	< 0.5	< 0.5	4-chlorotoluene	96.7	70-130	ok	95.4	70-130	ok	1.28	<25	ok
tert-butyl-benzene	< 0.5	< 0.5	tert-butyl-benzene	98.0	70-130	ok	97.3	70-130	ok	0.70	<25	ok
1,2,4-trimethylbenzene	< 0.5	< 0.5	1,2,4-trimethylbenzene	101	70-130	ok	98.0	70-130	ok	2.71	<25	ok
sec-butyl-benzene	< 0.5	< 0.5	sec-butyl-benzene	101	70-130	ok	99.7	70-130	ok	1.72	<25	ok
p-isopropyltoluene	< 0.5	< 0.5	p-isopropyltoluene	103	70-130	ok	101	70-130	ok	2.34	<25	ok
1,3-dichlorobenzene	< 0.5	< 0.5	1,3-dichlorobenzene	100	70-130	ok	100	70-130	ok	0.13	<25	ok
1,4-dichlorobenzene	< 0.5	< 0.5	1,4-dichlorobenzene	101	70-130	ok	101	70-130	ok	0.20	<25	ok
n-butylbenzene	< 0.5	< 0.5	n-butylbenzene	102	70-130	ok	101	70-130	ok	1.21	<25	ok
1,2-dichlorobenzene	< 0.5	< 0.5	1,2-dichlorobenzene	101	70-130	ok	103	70-130	ok	1.67	<25	ok
1,2-dibromo-3-chloropropane	< 2.5	< 2.5	1,2-dibromo-3-chloropropane	102	70-130	ok	103	70-130	ok	1.04	<25	ok
1,2,4-trichlorobenzene	< 0.5	< 0.5	1,2,4-trichlorobenzene	107	70-130	ok	108	70-130	ok	1.12	<25	ok
hexachlorobutadiene	< 0.5	< 0.5	hexachlorobutadiene	102	70-130	ok	103	70-130	ok	0.20	<25	ok
naphthalene	< 1.0	< 1.0	naphthalene	106	70-130	ok	111	70-130	ok	5.05	<25	ok

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict	Recovery (%)	Acceptance Limits	Verdict	RPD	Acceptance Limits	Verdict
DIBROMOFLUOROMETHANE	107	70-130	DIBROMOFLUOROMETHANE	106	70-130	ok	105	70-130	ok	1.44	<25	ok
1,2-DICHLOROETHANE-D4	97.2	70-130	1,2-DICHLOROETHANE-D4	109	70-130	ok	106	70-130	ok	2.49	<25	ok
TOLUENE-D8	113	70-130	TOLUENE-D8	112	70-130	ok	110	70-130	ok	1.59	<25	ok
4-BROMOFLUOROBENZENE	102	70-130	4-BROMOFLUOROBENZENE	107	70-130	ok	110	70-130	ok	2.99	<25	ok
1,2-DICHLOROBENZENE-D4	102	70-130	1,2-DICHLOROBENZENE-D4	107	70-130	ok	110	70-130	ok	2.55	<25	ok

Instrument: HP GC/MS "S"

GZA GeoEnvironmental, Inc.
106 South Street
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EPA Method 8260 / 524.2 Aqueous Method Blank (MB) and Laboratory Control Sample/Duplicate (LCS/LCSD) Data

Method Blank 2			Laboratory Control Sample 2				Laboratory Control Sample Duplicate 2						
Date Analyzed:	10/21/10		Date Analyzed:	10/21/10			10/21/10						
Volatile Organics	Conc. ug/L	Acceptance Limit	Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict	% Recovery	Acceptance Limits	Verdict	RPD	Limit	Verdict
dichlorodifluoromethane	< 1.0	< 1.0	dichlorodifluoromethane	108	70-130	ok	110	70-130	ok	2.41	<25	ok
chloromethane	< 1.0	< 1.0	chloromethane	111	70-130	ok	112	70-130	ok	1.69	<25	ok
vinyl chloride	< 0.5	< 0.5	vinyl chloride	105	80-120	ok	107	70-130	ok	1.30	<25	ok
bromomethane	< 1.0	< 1.0	bromomethane	96.9	70-130	ok	96.7	70-130	ok	0.18	<25	ok
chloroethane	< 0.5	< 0.5	chloroethane	94.8	70-130	ok	96.3	70-130	ok	1.59	<25	ok
trichlorofluoromethane	< 1.0	< 1.0	trichlorofluoromethane	107	70-130	ok	108	70-130	ok	0.48	<25	ok
diethyl ether	< 2.5	< 2.5	diethyl ether	78.3	70-130	ok	73.7	70-130	ok	6.01	<25	ok
acetone	< 10	< 10	acetone	89.2	70-130	ok	82.0	70-130	ok	8.46	<25	ok
1,1-dichloroethene	< 0.5	< 0.5	1,1-dichloroethene	95.9	80-120	ok	95.4	70-130	ok	0.56	<25	ok
dichloromethane	< 1.0	< 1.0	dichloromethane	93.0	70-130	ok	91.0	70-130	ok	2.12	<25	ok
methyl-tert-butyl-ether	< 0.5	< 0.5	methyl-tert-butyl-ether	92.6	70-130	ok	90.1	70-130	ok	2.71	<25	ok
trans-1,2-dichloroethene	< 0.5	< 0.5	trans-1,2-dichloroethene	93.5	70-130	ok	93.3	70-130	ok	0.22	<25	ok
1,1-dichloroethane	< 0.5	< 0.5	1,1-dichloroethane	93.3	70-130	ok	92.7	70-130	ok	0.65	<25	ok
2-butanone	< 10	< 10	2-butanone	87.0	70-130	ok	79.8	70-130	ok	8.72	<25	ok
2,2-dichloropropane	< 0.5	< 0.5	2,2-dichloropropane	82.5	70-130	ok	86.4	70-130	ok	4.62	<25	ok
cis-1,2-dichloroethene	< 0.5	< 0.5	cis-1,2-dichloroethene	93.1	70-130	ok	94.2	70-130	ok	1.14	<25	ok
chloroform	< 0.5	< 0.5	chloroform	91.5	80-120	ok	91.6	70-130	ok	0.14	<25	ok
bromochloromethane	< 0.5	< 0.5	bromochloromethane	95.7	70-130	ok	93.1	70-130	ok	2.82	<25	ok
tetrahydrofuran	< 5.0	< 5.0	tetrahydrofuran	92.1	70-130	ok	84.0	70-130	ok	9.11	<25	ok
1,1,1-trichloroethane	< 0.5	< 0.5	1,1,1-trichloroethane	93.9	70-130	ok	97.6	70-130	ok	3.85	<25	ok
1,1-dichloropropene	< 0.5	< 0.5	1,1-dichloropropene	93.2	70-130	ok	93.5	70-130	ok	0.37	<25	ok
carbon tetrachloride	< 0.5	< 0.5	carbon tetrachloride	98.3	70-130	ok	101	70-130	ok	2.67	<25	ok
1,2-dichloroethane	< 0.5	< 0.5	1,2-dichloroethane	92.8	70-130	ok	88.7	70-130	ok	4.58	<25	ok
benzene	< 0.5	< 0.5	benzene	94.2	70-130	ok	95.4	70-130	ok	1.30	<25	ok
trichloroethene	< 0.5	< 0.5	trichloroethene	96.7	70-130	ok	99.7	70-130	ok	2.99	<25	ok
1,2-dichloropropane	< 0.5	< 0.5	1,2-dichloropropane	94.8	80-120	ok	94.3	70-130	ok	0.56	<25	ok
bromodichloromethane	< 0.5	< 0.5	bromodichloromethane	94.7	70-130	ok	91.9	70-130	ok	3.01	<25	ok
dibromomethane	< 0.5	< 0.5	dibromomethane	94.2	70-130	ok	91.4	70-130	ok	2.97	<25	ok
4-methyl-2-pentanone	< 10	< 10	4-methyl-2-pentanone	93.7	70-130	ok	87.3	70-130	ok	7.04	<25	ok
cis-1,3-dichloropropene	< 0.5	< 0.5	cis-1,3-dichloropropene	90.1	70-130	ok	90.2	70-130	ok	0.09	<25	ok
toluene	< 0.5	< 0.5	toluene	99.2	80-120	ok	98.8	70-130	ok	0.35	<25	ok
trans-1,3-dichloropropene	< 1.0	< 1.0	trans-1,3-dichloropropene	86.9	70-130	ok	83.9	70-130	ok	3.50	<25	ok
1,1,2-trichloroethane	< 0.5	< 0.5	1,1,2-trichloroethane	94.8	70-130	ok	91.1	70-130	ok	4.02	<25	ok
2-hexanone	< 10	< 10	2-hexanone	94.9	70-130	ok	88.2	70-130	ok	7.28	<25	ok
1,3-dichloropropane	< 0.5	< 0.5	1,3-dichloropropane	92.7	70-130	ok	88.9	70-130	ok	4.28	<25	ok
tetrachloroethene	< 0.5	< 0.5	tetrachloroethene	101	70-130	ok	100	70-130	ok	0.51	<25	ok
dibromochloromethane	< 0.5	< 0.5	dibromochloromethane	95.5	70-130	ok	93.8	70-130	ok	1.78	<25	ok
1,2-dibromoethane (EDB)	< 1.0	< 1.0	1,2-dibromoethane (EDB)	100	70-130	ok	93.7	70-130	ok	6.91	<25	ok
chlorobenzene	< 0.5	< 0.5	chlorobenzene	104	70-130	ok	102	70-130	ok	1.30	<25	ok
1,1,1,2-tetrachloroethane	< 0.5	< 0.5	1,1,1,2-tetrachloroethane	102	70-130	ok	100	70-130	ok	1.99	<25	ok
ethylbenzene	< 0.5	< 0.5	ethylbenzene	103	80-120	ok	103	70-130	ok	0.49	<25	ok
1,1,2,2-tetrachloroethane	< 0.5	< 0.5	1,1,2,2-tetrachloroethane	97.8	70-130	ok	93.0	70-130	ok	5.06	<25	ok
m&p-xylene	< 1.0	< 1.0	m&p-xylene	101	70-130	ok	102	70-130	ok	0.76	<25	ok
o-xylene	< 0.5	< 0.5	o-xylene	96.7	70-130	ok	98.0	70-130	ok	1.34	<25	ok
styrene	< 0.5	< 0.5	styrene	98.5	70-130	ok	96.5	70-130	ok	2.02	<25	ok
bromoform	< 1.0	< 1.0	bromoform	92.9	70-130	ok	93.5	70-130	ok	0.61	<25	ok
isopropylbenzene	< 0.5	< 0.5	isopropylbenzene	102	70-130	ok	103	70-130	ok	0.90	<25	ok
1,2,3-trichloropropane	< 0.5	< 0.5	1,2,3-trichloropropane	90.7	70-130	ok	88.1	70-130	ok	2.87	<25	ok
bromobenzene	< 0.5	< 0.5	bromobenzene	97.1	70-130	ok	96.1	70-130	ok	1.09	<25	ok
n-propylbenzene	< 0.5	< 0.5	n-propylbenzene	99.6	70-130	ok	100	70-130	ok	0.50	<25	ok
2-chlorotoluene	< 0.5	< 0.5	2-chlorotoluene	98.1	70-130	ok	97.2	70-130	ok	0.95	<25	ok
1,3,5-trimethylbenzene	< 0.5	< 0.5	1,3,5-trimethylbenzene	102	70-130	ok	103	70-130	ok	1.65	<25	ok
4-chlorotoluene	< 0.5	< 0.5	4-chlorotoluene	98.3	70-130	ok	99.0	70-130	ok	0.69	<25	ok
tert-butyl-benzene	< 0.5	< 0.5	tert-butyl-benzene	101	70-130	ok	99.5	70-130	ok	1.02	<25	ok
1,2,4-trimethylbenzene	< 0.5	< 0.5	1,2,4-trimethylbenzene	102	70-130	ok	103	70-130	ok	0.90	<25	ok
sec-butyl-benzene	< 0.5	< 0.5	sec-butyl-benzene	103	70-130	ok	103	70-130	ok	0.71	<25	ok
p-isopropyltoluene	< 0.5	< 0.5	p-isopropyltoluene	105	70-130	ok	105	70-130	ok	0.32	<25	ok
1,3-dichlorobenzene	< 0.5	< 0.5	1,3-dichlorobenzene	102	70-130	ok	99.3	70-130	ok	2.28	<25	ok
1,4-dichlorobenzene	< 0.5	< 0.5	1,4-dichlorobenzene	100	70-130	ok	97.8	70-130	ok	2.63	<25	ok
n-butylbenzene	< 0.5	< 0.5	n-butylbenzene	103	70-130	ok	105	70-130	ok	1.58	<25	ok
1,2-dichlorobenzene	< 0.5	< 0.5	1,2-dichlorobenzene	101	70-130	ok	100	70-130	ok	0.79	<25	ok
1,2-dibromo-3-chloropropane	< 2.5	< 2.5	1,2-dibromo-3-chloropropane	99.0	70-130	ok	89.4	70-130	ok	10.1	<25	ok
1,2,4-trichlorobenzene	< 0.5	< 0.5	1,2,4-trichlorobenzene	109	70-130	ok	109	70-130	ok	0.13	<25	ok
hexachlorobutadiene	< 0.5	< 0.5	hexachlorobutadiene	109	70-130	ok	109	70-130	ok	0.05	<25	ok
naphthalene	< 1.0	< 1.0	naphthalene	103	70-130	ok	101	70-130	ok	1.64	<25	ok

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict	Recovery (%)	Acceptance Limits	Verdict	RPD	Acceptance Limits	Verdict
DIBROMOFLUOROMETHANE	106	70-130	DIBROMOFLUOROMETHANE	104	70-130	ok	104	70-130	ok	0.11	<25	ok
1,2-DICHLOROETHANE-D4	103	70-130	1,2-DICHLOROETHANE-D4	101	70-130	ok	96.9	70-130	ok	4.54	<25	ok
TOLUENE-D8	112	70-130	TOLUENE-D8	109	70-130	ok	108	70-130	ok	0.32	<25	ok
4-BROMOFLUOROBENZENE	97.1	70-130	4-BROMOFLUOROBENZENE	102	70-130	ok	106	70-130	ok	3.58	<25	ok
1,2-DICHLOROBENZENE-D4	101	70-130	1,2-DICHLOROBENZENE-D4	107	70-130	ok	103	70-130	ok	2.98	<25	ok

Instrument: HP GC/MS "S"

W.O. # 10C-CC125
(for lab use only)

CHAIN-OF-CUSTODY RECORD

Sample I.D.	Date/Time Sampled	Matrix (A=Air, S=Soil, GW=Ground W., SW=Surface W., WW=Waste W., DW=Drinking W., P=Product, Other (specify))	ANALYSIS REQUIRED: ☐ pH ☐ Cond.	GC Methane, Ethane, Ethene	EPA 8260	EPA 8260-8010 List (Chlor.)	EPA 8260-8021 list	EPA 8021-8020 List (BTEX)	EPA 524.2 DW VOCs	EPA 624 WW VOCs	☐ 601 ☐ 602 WW VOCs	EPA 8270 SVOCs	EPA 8270 ☐ PAH ☐ A ☐ BN	EPA 625 WW SVOCs	EPA 8082-PCBs	EPA 8081-Pest	TPH-GC (Mod. 8100)	TPH-GC w/FING.	EPH (MA DEP)	VPH (MA DEP)	Metals ☐ PPM-13 ☐ R-8	MCP 14 Metals	Metals (List Below) **	TCLP - Specify Below	SPLP - Specify Below	EPA 300 ☐ Cl ☐ NO3 ☐ SO3	Total No. of Cont.	Note #
GZ-26	10-13-10 10:20	GW			X																						3	
GZ27	10:35																											
GZ28	10:50																											
GZ 25	11:10																											
GP-28	11:35																											
GZ 24	12:05																											
GZ3	12:20																											
GZ7	12:55																											
GP 26	13:12																											
GZ-20	14:20																											
GZ 19	14:45																											
GZ23	15:03																											
RIZ-7	15:25																											
PRESERVATIVE (CI-HCI, M-Methanol, N-HNO3, S-H2SO4, Na-NaOH, O-Other) *					H																							
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Teflon, O-Other)*					V																							

RELINQUISHED BY: DATE/TIME RECEIVED BY:
10-14-10 1230 CS

RELINQUISHED BY: DATE/TIME RECEIVED BY:
CS 10/15/10 0900 Brad Buecan

RELINQUISHED BY: DATE/TIME RECEIVED BY:
Brad Buecan 10/15/10 1200

Project Manager: Steve Anders

NOTES: (Unless otherwise noted, all samples have been refrigerated to 4 +/- 2°C)
*Specify "Other" preservatives and container types in this space.

TURNAROUND TIME: (Standard) Rush ____ Days, Approved by: ____

LAB USE: TEMP. OF COOLER 3.4 °C Temp Blank Cooler Air ICE

GZA FILE NO. 03.0030795.09 TASK NO: ____ P.O. NO. ____ 10/15/10 1215

PROJECT Chesbert Jcmp

LOCATION Alton RI

COLLECTOR(S) M. Beagen SHEET 1 OF 2

GZA GEOENVIRONMENTAL, INC.
Laboratory Division

106 South Street
Hopkinton, MA 01748
(781) 278-4700
FAX (508)435-9912

W.O. # 10C - 0025
(for lab use only)

CHAIN-OF-CUSTODY RECORD

Sample I.D.	Date/Time Sampled	Matrix (A=Air, S=Soil, GW=Ground W., SW=Surface W., WW=Waste W., DW=Drinking W., P=Product, Other (specify))	ANALYSIS REQUIRED: ☐ pH ☐ Cond.	GC Methane, Ethane, Ethene	EPA 8260	EPA 8260-8010 List (Chlor.)	EPA 8260-8021 list	EPA 8021-8020 List (BTEX)	EPA 524.2 DW VOCs	EPA 624 WW VOCs	☐ 601 ☐ 602 WW VOCs	EPA 8270 SVOCs	EPA 8270 ☐ PAH ☐ A ☐ BN	EPA 625 WW SVOCs	EPA 8082-PCBs	EPA 8081-Pest	TPH-GC (Mod. 8100)	TPH-GC w/FING.	EPH (MA DEP)	VPH (MA DEP)	Metals ☐ PPM-13 ☐ R-8	MCP 14 Metals	Metals (List Below) **	TCLP - Specify Below	SPLP - Specify Below	EPA 300 ☐ Cl ☐ NO3 ☐ SO3	Total No. of Cont.	Note #
GZ-22	10-13-10 1555	Gw			X																						3	
GZ-21	1607																											
TRIP BLANK																												
PRESERVATIVE (Cl-HCl, M-Methanol, N-HNO3, S-H2SO4, Na-NaOH, O-Other) *					Cj																							
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Teflon, O-Other)*					J																							

RELINQUISHED BY: Mike DATE/TIME: 10-14-10 / 1230 RECEIVED BY: CS

RELINQUISHED BY: CS DATE/TIME: 10/15/10 0900 RECEIVED BY: Bill Buecon

RELINQUISHED BY: Bill Buecon DATE/TIME: 10/15/10 1200 RECEIVED BY: [illegible]

Project Manager: Steve Ankus 10/19/10 1019

NOTES: (Unless otherwise noted, all samples have been refrigerated to 4 +/- 2°C)
*Specify "Other" preservatives and container types in this space.

TURNAROUND TIME: (Standard) Rush _____ Days, Approved by: _____ LAB USE: TEMP. OF COOLER 3.4 °C Temp Blank (Cooler Air) TBC

GZA FILE NO: 05.0073795.79 (10) TASK NO: _____ P.O. NO. _____ 10/15/10 11/15 (10)

PROJECT Chemical Comp

LOCATION Alton RI

COLLECTOR(S) M Bergan SHEET 2 OF 2

GZA GEOENVIRONMENTAL, INC.
Laboratory Division

106 South Street
Hopkinton, MA 01748
(781) 278-4700
FAX (508)435-9912

APPENDIX C

BI-MONTHLY AS/SVE SYSTEM MONITORING DATA

Name: Matt Bergen and Sophia Narkiewicz
Date: 9/2/10
Hour meter: 192251 hours

TABLE 1

INTERIOR SVE SYSTEM
Charbert Facility
Alton, Rhode Island

Location	Order	TVOC (ppm)	O2 (%)	CO2 (%)	CH4 (%)	LEL (%)	Vacuum (in.)	Diff Pressure (in of water)	Flow (ft^3/min)	Notes:
SVE-1	16	0.6	20.6	0.1	0.0	0	2.40	0.009	5.12	
SVE-2	17	0.6	20.7	0.1	0.0	0	2.70	0.009	5.12	
SVE-3	18	0.0	20.7	0.0	0.0	0	2.30	0.010	5.50	
SVE-4	13	3.0	20.5	0.1	0.0	0	2.00	0.008	4.95	
SVE-5	14	0.0	20.5	0.1	0.0	0	4.40	0.009	5.12	
SVE-6	15	0.0	20.7	0.1	0.0	0	2.80	0.010	5.50	
SVE-7	10	0.0	20.7	0.0	0.0	0	15.90	0.010	5.50	
SVE-8	11	0.0	20.6	0.0	0.0	0	15.90	0.008	4.95	
SVE-9	12	0.0	20.5	0.0	0.0	0	15.90	0.012	6.00	will not adjust any lower
SVE-10	7	0.0	20.5	0.1	0.0	0	2.10	0.009	5.12	
SVE-11	8	1.2	20.5	0.1	0.0	0	2.60	0.009	5.12	
SVE-12	9	0.0	20.6	0.1	0.0	0	3.10	0.009	5.12	
SVE-13	22	0.0	20.6	0.1	0.0	0	2.60	0.008	4.95	
SVE-14	23	0.6	20.6	0.1	0.0	0	3.10	0.009	5.12	
SVE-15	4	0.6	20.5	0.0	0.0	0	1.50	0.009	5.12	
SVE-16	3	0.6	20.6	0.0	0.0	0	2.60	0.009	5.12	
SVE-31	24	0.6	20.6	0.0	0.0	0	1.80	0.009	5.12	
SVE-32	25	0.0	20.4	0.2	0.1	0	7.10	0.009	5.12	
SSVW-1	19	0.0	20.4	0.1	0.0	0	2.20	0.010	5.50	
SSVW-2	20	0.0	20.7	0.0	0.0	0	3.60	0.009	5.12	
SSVW-3	21	0.0	20.5	0.1	0.0	0	1.20	0.009	5.12	
SSVW-4	6	0.0	20.5	0.2	0.1	0	2.00	0.009	5.12	
SSVW-5	5	0.0	20.5	0.1	0.0	0	1.20	0.008	4.95	
SSVW-6	2	0.0	20.7	0.1	0.0	0	2.30	0.009	5.12	
SSVW-7	1	1.2	20.7	0.1	0.0	0	1.30	0.009	5.12	
Combine (Before Drum)		0.0	20.6	0.0	0.0	0	19.50	--	129.72	
Combine (Drum Gauge)		--	--	--	--	--	28.00	--	--	
Combine (After Drum)		--	--	--	--	--	34.20	--	--	
Combine (After Blower)		--	--	--	--	--	14.00	--	--	
Effluent 1st drum		0.0	--	--	--	--	--	--	--	
Effluent 2nd drum		0.0	--	--	--	--	--	--	--	

Combined 126 scfm per 25 wells = 5.04 scfm per well = 0.009 inches DP per well.

Baselines: Landtec: O2 = , CO2 = , CH4 = , LEL = % **NOT RECORDED**
OVM: 93.5 ppmv after calibration

Name: Matt Bergen and Sophia Narkiewicz
Date: 9/2/2010
Hour meter: 182230 hours

TABLE 2

EXTERIOR SVE SYSTEM
Charbert Facility
Alton, Rhode Island

Location	Order	TVOC (ppm)	O2 (%)	CO2 (%)	CH4 (%)	LEL (%)	Vacuum (in.)	Diff Pressure (in of water)	Flow (ft^3/min)	Notes:
SVE-17	1	4.1	19.8	0.6	0.0	0	2.90	0.016	6.70	fully open
SVE-18	2	1.9	20.1	0.4	0.0	0	3.00	0.017	6.85	fully open
SVE-19	3	0.6	20.7	0.0	0.0	0	3.10	0.007	4.60	fully open
SVE-20	4	0.0	20.8	0.0	0.0	0	1.90	0.017	6.85	
SVE-21	5	0.0	20.5	0.1	0.0	0	1.40	0.000	0.00	fully open and no flow
SVE-22	6	5.1	20.0	0.5	0.0	0	1.00	0.018	7.00	
SVE-23	7	3.2	19.7	0.6	0.0	0	1.40	0.005	3.90	fully open
SVE-24	8	0.0	20.3	0.3	0.0	0	1.30	0.019	7.40	
SVE-25	9	0.0	20.4	0.1	0.0	0	1.40	0.012	6.00	fully open
SVE-26	10	0.0	20.5	0.2	0.0	0	0.70	0.017	6.85	
SVE-27	11	0.0	20.4	0.1	0.0	0	1.50	0.018	7.00	
SVE-28	12	0.0	20.3	0.1	0.0	0	2.10	0.017	6.85	
SVE-29	13	0.0	20.4	0.1	0.0	0	2.20	0.010	5.50	
SVE-30	14	0.0	20.1	0.2	0.0	0	2.00	0.019	7.40	fully open
SVE-33	15	0.0	20.0	0.2	0.0	0	1.40	0.017	6.85	
SVE-34	16	0.0	21.1	0.1	0.0	0	1.50	0.018	7.00	
SVE-35	17	0.0	21.0	0.1	0.0	0	2.60	0.005	3.90	fully open
SVE-36	18	0.6	20.7	0.2	0.0	0	1.70	0.019	7.40	
SVE-37	19	0.6	20.5	0.2	0.0	0	1.50	0.018	7.00	
Combine (Before Drum)		0.6	20.6	0.0	0.0	0	14.60	--	115.05	
Combine (Drum Guage)		--	--	--	--	--	18.00	--	--	
Combine (After Drum)		--	--	--	--	--	27.00	--	--	
Combine (After Blower)		--	--	--	--	--	5.20	--	--	
Effluent 1st drum		--	--	--	--	--	--	--	--	
Effluent 2nd drum		0.6	--	--	--	--	--	--	--	

Combined 133 scfm per 19 wells = 7 scfm per well = 0.018 inches DP per well.
*Estimated flow rate

Name: Matt Bergen and Sophia Narkiewicz
Date: 9/2/2010

TABLE 3

INTERIOR AS SYSTEM

Charbert Facility
Alton, Rhode Island

Location	Pressure (psi)	Diff Pressure (in of water)	Flow (ft^3/min)	Notes:
AS-1	12	1.8	2.15	
AS-2		1.8	2.15	
AS-3		1.8	2.15	
AS-4	12	1.8	2.15	
AS-5		1.7	2.09	
AS-6		1.7	2.09	
AS-7	12	1.8	2.15	
AS-8		1.8	2.15	
AS-9		1.7	2.09	
AS-10	12	1.8	2.15	
AS-11		1.6	2.03	
AS-12		1.7	2.09	
AS-13	12	1.9	2.03	
AS-14		1.7	2.09	
AS-15	12	1.8	2.15	
AS-16	12	1.7	2.09	
AS-31	12	1.8	2.15	not included in totals
Combine	18	8.0	33.80	

Combined 8 inches DP @ 18 psi = 33.8 scfm per 16 wells = 2.1 scfm per well = 1.8 inches DP per well.

Name: Matt Bergen and Sophia Narkiewicz
Date: 9/2/2010

TABLE 4

EXTERIOR AS SYSTEM

Charbert Facility
Alton, Rhode Island

Location	Pressure (psi)	Diff Pressure (in of water)	Flow (ft^3/min)	Notes:
AS-17	10	2.1	2.26	
AS-18		1.4	1.83	Fully open
AS-19		2.1	2.26	
AS-20		2.2	2.4	
AS-21	10	2.1	2.26	
AS-22		2.0	2.17	
AS-23		1.4	1.83	Fully open
AS-24		2.0	2.17	
AS-25		2.2	2.35	
AS-26	9	2.0	2.13	
AS-27		2.0	2.13	
AS-28		2.0	2.13	
AS-29		2.0	2.13	
AS-30		2.0	2.13	
AS-32	9	2.2	2.26	
AS-33		2.1	2.2	
AS-34		2.2	2.26	
AS-35	9	2.2	2.26	
AS-36		2.1	2.2	
AS-37		2.1	2.2	
Combine	16	16.0	43.51	

Combined 16 inches DP @ 16 psi = 45 scfm per 20 wells = 2.25 scfm per well = 2.1 inches DP per well.

CHARBERT FACILITY
Alton, RI

Name: Matt Bergen and Sophia Narkiewicz
Date: 9/2/2010

Onsite: 0800
Offsite: 1545

	Yes	No	
Soil Vapor Extraction System			
Interior System Operating:	X		
Exterior System Operating:	X		
Check Interior Knock-Out Drum for Condensate:	X		
Check Exterior Knock-Out Drum for Condensate:	X		
Condensate Removed from Interior Knock-Out Drum (gallons):			0.0 gal.
Condensate Removed from Exterior Knock-Out Drum (gallons):			0.0 gal.
Vaccum Relief Valve for Interior Knock-Out Drum Operational:	X		
Vaccum Relief Valve for Interior Knock-Out Drum Operational:	X		
Air Sparge System			
Air Sparge System Operating (yes/no):	X		
Compressor			
Check/Clean air filter:	X		
Check oil level (oil level at mid bubble):	X		
Automatic tank blowoff operational:	X		
Hour Meters			
Interior SVE Blower			192251 hr.
Exterior SVE Blower			182230 hr.
Compressor			28 hr.

SOIL VAPOR EXTRACTION & AIR SPARGE OPERATIONS LOG

CHARBERT FACILITY
Alton, Rhode Island

Date:		9/2/2010
Personnel:		Matt Bergen and Sophia Narkiewicz
Company (GZA/Charbert):		GZA
Interior SVE System		
	- On (yes/no):	Yes
	- Operational (cont./hr):	192251 hours
Exterior SVE System		
	- On (yes/no):	yes
	- Operational (cont./hr):	182230 hours
Interior SVE System		
	- 5Hp hr meter (hrs):	---
	- Vac. (DH) in. of H_20:	28
	- Flow (scfm):	126
Exterior SVE System		
	- 1Hp hr meter (hrs):	---
	- Vac. (DH) in. of H_20:	17.5
	- Flow (scfm):	133
AS Compressor hr meter (hrs):		
Combine Pressure AS		
	- Interior (psi):	18
	- Exterior (psi):	15.5
SVE Condensate Collection		
	- Interior (yes/no/gal):	yes/ 0 gallons
	- Exterior (yes/no/gal):	yes/ 0 gallons
Notes:		

SVE/AS Monitoring Order:

Fill out Site & Field Operations Logs
Balance AS Flows then,
Balance SVE Flows then,
Monitor SVE System for (O2%, CO2%, CH4%, LEL%, TVOC ppmv, Vacuum in.)

Equipment Needed:

Landtec (O_2%, CO_2%, CH_4%, LEL%)
OVM 10.6 PID (TVOC ppmv)
Air Pump
Digital Manometer
- (1.0 - 0.001)
- (20.0 - 0.01)
- (200.0 - 1.0)
Extension Cord (100 ft)
Flat head screw driver
9/16" socket wrench
2 small adjustable wrenchs
last months field notes
Oriface flow curves
Pitot tube flow curves

APPENDIX D

ELEVENTH QUARTERLY PERIMETER WELL MONITORING RESULTS

GZA
GeoEnvironmental, Inc.

Engineers and
Scientists

December 1, 2010
File No. 32795.29

530 Broadway
Providence
Rhode Island
02909
401-421-4140
Fax: 401-751-8613
http://www.gza.com

Mr. Gary Jablonski
Rhode Island Department of Environmental Management
Office of Waste Management
235 Promenade Street
Providence, Rhode Island 02908

Re: Eleventh Quarterly (July through September) Perimeter Well Monitoring Report
Charbert Division of NFA
Richmond, Rhode Island
RIDEM Case # 99-037

Dear Mr. Jablonski:

This letter with attachments serves as the eleventh quarterly Perimeter Well Monitoring Report for the Charbert facility located at 299 Church Street in Richmond (Alton), Rhode Island. It was prepared by GZA GeoEnvironmental, Inc., on behalf of our client Charbert Division of NFA.

In accordance with discussions during the conference call on April 23, 2008 between RIDEM and Charbert, it was agreed that, as part of the environmental monitoring, additional groundwater samples would be collected from perimeter wells located between the Charbert facility and nearby private wells and analyzed for VOCs, see Figure 1, attached. Perimeter monitoring wells included RIZ-1, RIZ-14, RIZ-21, GP-22 and GZ-1. Based on previous results and the results of the Piezometric Monitoring Report dated May 2, 2008, RIDEM concurred with Charbert's recommendation (received via email 5/9/08) to sample these wells for a total of eight quarters and include the data as an attachment to the quarterly Interim Compliance Monitoring Plan reports. After the eight quarters the need for future monitoring was assessed and it was recommended by GZA that two of the monitoring wells (RIZ-1 and RIZ-14) be removed from the quarterly monitoring program. The recommendation was approved by RIDEM in a letter dated April 26, 2010.

Groundwater Sampling

GZA personnel were on site on October 12, 2010 and collected samples from three monitoring wells, RIZ-21, GP-22 and GZ-1. Groundwater sampling was performed in general accordance with EPA's January 2010 *Low Stress (low flow) Purging and Sampling Procedure* (Low Flow SOP). Low flow sampling equipment (exclusive of tubing which was dedicated to the wells) was decontaminated prior to use on-site and between each location following EPA's

required protocols. Water quality monitoring for stabilization was conducted utilizing a Horiba multi-meter in a flow through cell.

Analysis

As agreed upon, groundwater was analyzed for volatile organic compounds (VOCs) via EPA Method 8260B in samples from the three monitoring wells. The detected analytes have been summarized and compared to RIDEM's Method 1 GA Groundwater Quality Standards and Groundwater Quality Preventative Action Limits (PALs) in the attached Table 1. The low flow field screening results are provided in Table 2, attached, and the laboratory certificates of analysis are provided in Attachment A.

Results

The October 12, 2010 groundwater results have been compared to the applicable groundwater standards for Rhode Island and there are GA Groundwater Objective exceedances for VOCs in one of the three wells. Monitoring well GP-22 had no VOCs detected above the method detection limits and monitoring well RIZ-21 had methyl-tert-butyl-ether (MTBE) present at 1.6 µg/l. This is the first time MTBE has been detected in this well. MTBE has previously been detected in Alton village water supply wells, and we believe it is migrating toward the Charbert property from an offsite source. It should be noted that MTBE is not a contaminant of concern on the Charbert property and has not previously been detected in onsite monitoring wells.

Five VOCs were detected in the sample from monitoring well GZ-1 has with cis-1,2-dichloroethene present at 56 µg/L, (above the PAL of 35 µg/L), tetrachloroethene at 2.2 µg/L, and trichloroethene present at 12.0 µg/L, (above the GA Groundwater Objective of 5 µg/L). The two other detects were 1,1-dichloroethane at 2.4 µg/L, and 1,2,4-trichlorobenzene at 3.0 µg/L. These results are consistent with prior contaminant levels observed in samples from monitoring well GZ-1. For reference, all previous analytical testing results for the three wells tested on July 13, 2010 have been included in Table 1.

At this time, we do not see any significant change in the pattern of migration of contaminants from the previously delineated areas of concern. Given that wells GP-22, RIZ-21 and GZ-1 are sentinel wells between the release area at the mill and the adjacent residences, we recommend that monitoring of these wells continue quarterly through January 2011. At this time, the need for future monitoring should be re-assessed.

Please feel free to call Ed or Steve (401) 421-4140 (or via email at *esummerly@gza.com or stephen.andrus@gza.com*) with any questions or comments.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

Stephen Andrus, P.E.
Assistant Project Manager

Edward A. Summerly, P.G.
Principal

SA/EAS:aa

CC: Tracy Nelson Hay, Richmond Town Clerk (CD)
Clark Memorial Library – Charbert Repository (CD)

Attachments: Tables: Table 1 - Detected Constituents
Table 2 - Low Flow Field Screening Readings
Figure 1 - Monitoring Well Locations
Attachment A - Laboratory Certification Sheets

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TABLES

TABLE 1
DETECTED CONSTITUENTS SUMMARY

Third Quarter 2010 Perimeter Wells
Charbert Facility
Richmond, Rhode Island

GZ-1	UNITS	RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	DATE																							
				8/6/2004		2/15/2005		4/25/2008		7/7/2008		10/3/2008		1/6/2009		4/1/2009		7/9/2009		10/12/2009		1/4/2010		4/30/2010		7/13/2010		10/12/2010	
				Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
VOLATILE ORGANICS																											
1,2,4-Trimethylbenzene	ug/L (ppb)	NS	NS	<	1	<	1	<	1	**4.2**	1	**4.2**	1	**3.9**	1	<	1	<	1	<	1	<	1	<	1	<	1		1
1,1-Dichloroethane	ug/L (ppb)	---	---	**2.2**	1	**2.0**	1	**1.0**	1	<	1	**1.5**	1	**1.8**	1	**1.8**	1	**2.3**	1	**2.2**	1	**2.2**	1	**2.6**	1	**2.4**	1	**2.4**	1
1,2,3-Trichlorobenzene	ug/L (ppb)	---	---	<	1	**8.3**	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1		1
1,2,4-Trichlorobenzene	ug/L (ppb)	70	35	**9.5**	1	<	1	**3.0**	1	<	1	<	1	<	1	**3.6**	1	**4.3**	1	**3.4**	1	**2.4**	1	**3.7**	1	**3.8**	1	**3.0**	1
cis-1,2-Dichloroethene	ug/L (ppb)	70	35	**73**	1	**68**	1	**29**	1	**20**	1	**39**	1	**45**	1	**41**	1	**50**	1	**49**	1	**46**	1	**64**	1	**53**	1	**56**	1
Tetrachloroethene	ug/L (ppb)	5	2.5	**2.2**	1	**2.0**	1	<	1	**1.2**	1	**1.6**	1	**2.0**	1	**2.1**	1	**2.1**	1	**1.8**	1	**1.9**	1	**2.5**	1	**2.5**	1	**2.2**	1
trans-1,2-Dichloroethene	ug/L (ppb)	100	50	<	1	**1.0**	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1		1
Trichloroethene	ug/L (ppb)	5	2.5	**12**	1	**8.6**	1	**5.0**	1	**4.2**	1	**8.0**	1	**10**	1	**9.6**	1	**10**	1	**11**	1	**9.8**	1	**13**	1	**11**	1	**12**	1
Vinyl Chloride	ug/L (ppb)	2	1	**1.1**	1	**1.4**	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1		1

RIZ-21	UNITS	RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	DATE																					
				4/25/2008		7/7/2008		10/3/2008		1/6/2009		4/1/2009		7/9/2009		10/12/2009		1/4/2010		4/30/2010		7/13/2010		10/12/2010	
				Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
Methyl-Tert-Butyl-Ether	ug/L (ppb)	40	20	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	1.6	1

GP-22	UNITS	RIDEM GA Groundwater Objectives	RIDEM Groundwater Quality PALs	DATE																					
				2/15/2005		4/25/2008		7/7/2008		10/3/2008		10/28/2008		1/6/2009		4/1/2009		7/9/2009		10/12/2009		1/4/2010		4/30/2010		7/13/2010		10/12/2010	
				Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit
VOLATILE ORGANICS																											
Tetrachloroethene	ug/L (ppb)	5	2.5	<	1	<	1	<	1	**12**	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1		1

Notes:
1. Cells shaded yellow have results above the method detection limit.
2. Cells shaded green are above RIDEM GA Groundwater Objective.
3. Cells shaded blueare above RIDEM Preventative Action Limit.

TABLE 2
LOW FLOW SCREENING RESULTS

Third *Quarter 2010 Perimeter Wells*
Charbert Facility
Richmond, RI

OCTOBER 2010 GROUNDWATER SAMPLING FIELD DATA								
WELL ID	pH	CONDUCTIVITY	TURBIDITY	DISSOLVED OXYGEN	TEMPERATURE	ORP	DEPTH TO GWT	GW ELEV.
	SU	mS/cm	NTU	mg/l	^{o}C	mV	FT	FT
RIZ-21	5.7	0.243	2	5.0	14.3	215	12.6	40.3
GZ-1	7.7	0.268	2	0.1	15.4	-43	16.2	40.3
GP-22	5.7	0.212	2	7.0	17.1	204	8.0	40.6

Notes:
1. Field screening parameters were collected using a Horiba Model U-10 Water Quality Monitor.

FIGURES

GENERAL NOTES

1 BASE MAP DEVELOPED FROM ELECTRONIC CAD FILES PROVIDED BY AEROTECH INTERNATIONAL DIGITAL PHOTOGRAMMETRIC MAPPING DATED 12-01-04, DATE FLOWN MARCH 26, 1999. THE TOPOGRAPHY OF THE LAGOONS, THE 1998, 2001 AND 2004 SOIL STOCK PILES WERE UPDATED BY INSTRUMENT SURVEY CONDUCTED BY GZA PERSONNEL IN SEPTEMBER 2004 THROUGH FEBRUARY 2005.

2 THE LOCATIONS AND ELEVATIONS OF MONITORING WELLS AND EXPLORATIONS WERE APPROXIMATELY DETERMINED BY SURVEY. THIS DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

INDUSTRIAL WASTE PUMP HOUSE
OIL BUNKER
DRUM STORAGE AREA
FORMER (LAGOON 5)
INTERIOR SVE/AS AREA
CHARBERT MILL BUILDING
INTERIOR SVE/AS AREA
WETLANDS BOUNDARY
RIVER EDGE
RIVER STREET
CATION SYSTEM
PSFM
CHARBERT EMPLOYEE PARKING LOT
PRIVATE WELL-16 RIVER STREET
PRIVATE WELL-14 RIVER STREET
PRIVATE WELL-18 RIVER STREET
#18
#16
#14
#12
#10

GZ-19
GZ-23
GZ-21
GZ-22
GZ-ML-3
RIZ-13
GZ-3
GZ-7
GP-26
RIZ-6
GP-25
RIZ-3
GZ-6
CB-9
EW-4
PT-4
PT-5
EW-3
PT-1
EW-2
EW-1
RIZ-21
GP-22
GP-27B
GP-27A
GZ-8
RIZ-1
PT-2
GZ-1
RIZ-14
GZ-4A
GP-18
GP-19
GZ-2
GZ-ML-2
GP-15
IC-MW6

REV. NO. | DESCRIPTION | BY | DATE

PROJ MGR: SMA
DESIGNED BY: SMA
REVIEWED BY: EAS
OPERATOR: DL
DATE: MAY, 2008

1 INCH = 80 FEET
0 40 80 160

GZA
GeoEnvironmental, Inc.
Engineers and Scientists
530 BROADWAY
PROVIDENCE, RI 02909
(401) 421-4140
(401) 751-8613

CHARBERT FACILITY
ALTON, RHODE ISLAND

SUPPLEMENTAL GROUNDWATER SAMPLING LOCATIONS

JOB NO.
32795.29

FIGURE NO.
1

APPENDIX A

LABORATORY CERTIFICATES OF ANALYSIS

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

Laboratory Identification Numbers:
MA and ME: **MA092** NH: **2028**
CT: **PH0579** RI: **LAO00236**
NELAC - NYS DOH: **11063**

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project No.: **03.0032795.29**
Work Order No.: **1010-00126**
Date Received: **10/18/2010**
Date Reported: **10/26/2010**

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
10/14/2010	Aqueous	1010-00126 001	GP-22
10/14/2010	Aqueous	1010-00126 002	RIZ-21
10/14/2010	Aqueous	1010-00126 003	GZ-1
10/14/2010	Aqueous	1010-00126 004	Trip Blank

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00126**

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 10/15/10 via _x_GZA courier, __EC, __FEDEX, or ___hand delivered. The temperature of the __temperature blank/_x_cooler air, was 3.4 degrees C. The temperature requirement for most analyses is above freezing to 6 degrees C. The samples were received intact for all requested analyses.

The chain of custody indicates that the samples, when required, were chemically preserved in accordance with the method they reference.

2. EPA Method 8260 - VOCs

Attach QC 8260 10/21/10 "S" - Aqueous

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00126**

Data Authorized By: _____

NELAC certification, as indicated by the NELAC Lab ID Number, is per analyte. For a complete list of NELAC validated analytes, please contact the laboratory.

Abbreviations:
% R = % Recovery
DF = Dilution Factor
DFS = Dilution Factor Solids
CF = Calculation Factor
DO = Diluted Out

Method Key:
Method 8260: The current version of the method is 8260B.
Method 8270: The current version of the method is 8270D.
Method 6010: The current version of the method is 6010C.

Please note that the laboratory signed copy of the chain of custody record is an integral part of the data report.

Soil data is reported on a dry weight basis unless otherwise specified.
Matrix Spike / Matrix Spike Duplicate sets are performed as per method and are reported at the end of the analytical report if assigned on the Chain of Custody.

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00126**

Sample ID: **GP-22** Sample No.: **001**
Sample Date: **10/14/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				KAC	10/21/2010
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Chloromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Bromomethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Chloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Diethylether	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Acetone	EPA 8260	<10	10	ug/L	KAC	10/21/2010
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
2-Butanone	EPA 8260	<10	10	ug/L	KAC	10/21/2010
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
cis-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Chloroform	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Tetrahydrofuran	EPA 8260	<10	10	ug/L	KAC	10/21/2010
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Benzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
4-Methyl-2-Pentanone	EPA 8260	<10	10	ug/L	KAC	10/21/2010
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Toluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
2-Hexanone	EPA 8260	<10	10	ug/L	KAC	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00126**

Sample ID: **GP-22** Sample No.: **001**
Sample Date: **10/14/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
o-Xylene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Styrene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Bromoform	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Naphthalene	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	99.5	70-130	% R	KAC	10/21/2010
***Toluene-D8	EPA 8260	111	70-130	% R	KAC	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00126**

Sample ID: **GP-22** Sample No.: **001**
Sample Date: **10/14/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	101	70-130	% R	KAC	10/21/2010
Preparation	EPA 5030B	1.0		CF	KAC	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00126**

Sample ID: **RIZ-21** Sample No.: **002**

Sample Date: **10/14/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				KAC	10/21/2010
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Chloromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Bromomethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Chloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Diethylether	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Acetone	EPA 8260	<10	10	ug/L	KAC	10/21/2010
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Methyl-Tert-Butyl-Ether	EPA 8260	1.6	1.0	ug/L	KAC	10/21/2010
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
2-Butanone	EPA 8260	<10	10	ug/L	KAC	10/21/2010
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
cis-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Chloroform	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Tetrahydrofuran	EPA 8260	<10	10	ug/L	KAC	10/21/2010
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Benzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
4-Methyl-2-Pentanone	EPA 8260	<10	10	ug/L	KAC	10/21/2010
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Toluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
2-Hexanone	EPA 8260	<10	10	ug/L	KAC	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
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Work Order No.: **1010-00126**

Sample ID: **RIZ-21** Sample No.: **002**

Sample Date: **10/14/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
o-Xylene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Styrene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Bromoform	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Naphthalene	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	106	70-130	% R	KAC	10/21/2010
***Toluene-D8	EPA 8260	116	70-130	% R	KAC	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
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Sample ID: **RIZ-21** Sample No.: **002**
Sample Date: **10/14/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	105	70-130	% R	KAC	10/21/2010
Preparation	EPA 5030B	1.0		CF	KAC	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

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GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00126**

Sample ID: **GZ-1** Sample No.: **003**

Sample Date: **10/14/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				KAC	10/21/2010
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Chloromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Bromomethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Chloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Diethylether	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Acetone	EPA 8260	<10	10	ug/L	KAC	10/21/2010
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,1-Dichloroethane	EPA 8260	2.4	1.0	ug/L	KAC	10/21/2010
2-Butanone	EPA 8260	<10	10	ug/L	KAC	10/21/2010
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
cis-1,2-Dichloroethene	EPA 8260	56	1.0	ug/L	KAC	10/21/2010
Chloroform	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Tetrahydrofuran	EPA 8260	<10	10	ug/L	KAC	10/21/2010
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Benzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Trichloroethene	EPA 8260	12	1.0	ug/L	KAC	10/21/2010
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
4-Methyl-2-Pentanone	EPA 8260	<10	10	ug/L	KAC	10/21/2010
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Toluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
2-Hexanone	EPA 8260	<10	10	ug/L	KAC	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00126**

Sample ID: **GZ-1** Sample No.: **003**

Sample Date: **10/14/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Tetrachloroethene	EPA 8260	2.2	1.0	ug/L	KAC	10/21/2010
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
o-Xylene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Styrene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Bromoform	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
1,2,4-Trichlorobenzene	EPA 8260	3.0	1.0	ug/L	KAC	10/21/2010
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Naphthalene	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	113	70-130	% R	KAC	10/21/2010
***Toluene-D8	EPA 8260	113	70-130	% R	KAC	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

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Work Order No.: **1010-00126**

Sample ID: **GZ-1** Sample No.: **003**

Sample Date: **10/14/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	105	70-130	% R	KAC	10/21/2010
Preparation	EPA 5030B	1.0		CF	KAC	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
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Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00126**

Sample ID: **Trip Blank** Sample No.: **004**
Sample Date: **10/14/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				KAC	10/21/2010
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Chloromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Bromomethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Chloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Diethylether	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Acetone	EPA 8260	<10	10	ug/L	KAC	10/21/2010
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
2-Butanone	EPA 8260	<10	10	ug/L	KAC	10/21/2010
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
cis-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Chloroform	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Tetrahydrofuran	EPA 8260	<10	10	ug/L	KAC	10/21/2010
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Benzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
4-Methyl-2-Pentanone	EPA 8260	<10	10	ug/L	KAC	10/21/2010
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Toluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
2-Hexanone	EPA 8260	<10	10	ug/L	KAC	10/21/2010

GZA GeoEnvironmental, Inc.
106 South Street
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(781) 278-4700

A N A L Y T I C A L R E P O R T

GZA GeoEnvironmental, Inc.
140 Broadway
Providence, RI 02903

Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00126**

Sample ID: **Trip Blank** Sample No.: **004**
Sample Date: **10/14/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
o-Xylene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Styrene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Bromoform	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Naphthalene	EPA 8260	<2.0	2.0	ug/L	KAC	10/21/2010
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	KAC	10/21/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	99.5	70-130	% R	KAC	10/21/2010
***Toluene-D8	EPA 8260	115	70-130	% R	KAC	10/21/2010

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Stephen Andrus

Project Name.: **Charbert ICMP**
Project No.: **03.0032795.29**

Date Received: **10/18/2010**
Date Reported: **10/26/2010**
Work Order No.: **1010-00126**

Sample ID: **Trip Blank** Sample No.: **004**
Sample Date: **10/14/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	110	70-130	% R	KAC	10/21/2010
Preparation	EPA 5030B	1.0		CF	KAC	10/21/2010

GZA GeoEnvironmental, Inc.
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Hopkinton, MA 01748

EPA Method 8260 / 524.2 Aqueous Method Blank (MB) and Laboratory Control Sample/Duplicate (LCS/LCSD) Data

Method Blank			Laboratory Control Sample				Laboratory Control Sample Duplicate					
Date Analyzed:	10/21/10		Date Analyzed:	10/21/10			10/21/10					
Volatile Organics	Conc. ug/L	Acceptance Limit	Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict	% Recovery	Acceptance Limits	Verdict	RPD	Limit	Verdict
dichlorodifluoromethane	< 1.0	< 1.0	dichlorodifluoromethane	113	70-130	ok	110	70-130	ok	2.79	<25	ok
chloromethane	< 1.0	< 1.0	chloromethane	112	70-130	ok	108	70-130	ok	3.53	<25	ok
vinyl chloride	< 0.5	< 0.5	vinyl chloride	111	80-120	ok	106	70-130	ok	4.95	<25	ok
bromomethane	< 1.0	< 1.0	bromomethane	101	70-130	ok	96.6	70-130	ok	4.90	<25	ok
chloroethane	< 0.5	< 0.5	chloroethane	98.3	70-130	ok	90.2	70-130	ok	8.64	<25	ok
trichlorofluoromethane	< 1.0	< 1.0	trichlorofluoromethane	110	70-130	ok	103	70-130	ok	6.75	<25	ok
diethyl ether	< 2.5	< 2.5	diethyl ether	81.7	70-130	ok	81.6	70-130	ok	0.13	<25	ok
acetone	< 10	< 10	acetone	90.7	70-130	ok	92.9	70-130	ok	2.39	<25	ok
1,1-dichloroethene	< 0.5	< 0.5	1,1-dichloroethene	97.6	80-120	ok	94.8	70-130	ok	2.86	<25	ok
dichloromethane	< 1.0	< 1.0	dichloromethane	94.3	70-130	ok	92.1	70-130	ok	2.40	<25	ok
methyl-tert-butyl-ether	< 0.5	< 0.5	methyl-tert-butyl-ether	99.3	70-130	ok	101	70-130	ok	1.69	<25	ok
trans-1,2-dichloroethene	< 0.5	< 0.5	trans-1,2-dichloroethene	94.8	70-130	ok	91.3	70-130	ok	3.71	<25	ok
1,1-dichloroethane	< 0.5	< 0.5	1,1-dichloroethane	93.7	70-130	ok	91.0	70-130	ok	2.92	<25	ok
2-butanone	< 10	< 10	2-butanone	91.1	70-130	ok	93.4	70-130	ok	2.54	<25	ok
2,2-dichloropropane	< 0.5	< 0.5	2,2-dichloropropane	103	70-130	ok	96.4	70-130	ok	6.27	<25	ok
cis-1,2-dichloroethene	< 0.5	< 0.5	cis-1,2-dichloroethene	94.7	70-130	ok	94.4	70-130	ok	0.30	<25	ok
chloroform	< 0.5	< 0.5	chloroform	91.4	80-120	ok	90.6	70-130	ok	0.90	<25	ok
bromochloromethane	< 0.5	< 0.5	bromochloromethane	98.2	70-130	ok	99.2	70-130	ok	1.07	<25	ok
tetrahydrofuran	< 5.0	< 5.0	tetrahydrofuran	99.8	70-130	ok	103	70-130	ok	2.81	<25	ok
1,1,1-trichloroethane	< 0.5	< 0.5	1,1,1-trichloroethane	97.3	70-130	ok	95.2	70-130	ok	2.20	<25	ok
1,1-dichloropropene	< 0.5	< 0.5	1,1-dichloropropene	95.1	70-130	ok	92.9	70-130	ok	2.31	<25	ok
carbon tetrachloride	< 0.5	< 0.5	carbon tetrachloride	99.1	70-130	ok	97.3	70-130	ok	1.78	<25	ok
1,2-dichloroethane	< 0.5	< 0.5	1,2-dichloroethane	93.1	70-130	ok	94.6	70-130	ok	1.59	<25	ok
benzene	< 0.5	< 0.5	benzene	96.4	70-130	ok	94.8	70-130	ok	1.69	<25	ok
trichloroethene	< 0.5	< 0.5	trichloroethene	97.5	70-130	ok	97.3	70-130	ok	0.21	<25	ok
1,2-dichloropropane	< 0.5	< 0.5	1,2-dichloropropane	96.0	80-120	ok	96.3	70-130	ok	0.29	<25	ok
bromodichloromethane	< 0.5	< 0.5	bromodichloromethane	94.2	70-130	ok	94.2	70-130	ok	0.04	<25	ok
dibromomethane	< 0.5	< 0.5	dibromomethane	97.0	70-130	ok	99.7	70-130	ok	2.73	<25	ok
4-methyl-2-pentanone	< 10	< 10	4-methyl-2-pentanone	99.3	70-130	ok	100	70-130	ok	1.03	<25	ok
cis-1,3-dichloropropene	< 0.5	< 0.5	cis-1,3-dichloropropene	97.1	70-130	ok	98.4	70-130	ok	1.40	<25	ok
toluene	< 0.5	< 0.5	toluene	98.8	80-120	ok	96.4	70-130	ok	2.43	<25	ok
trans-1,3-dichloropropene	< 1.0	< 1.0	trans-1,3-dichloropropene	94.2	70-130	ok	93.4	70-130	ok	0.88	<25	ok
1,1,2-trichloroethane	< 0.5	< 0.5	1,1,2-trichloroethane	96.9	70-130	ok	100	70-130	ok	3.18	<25	ok
2-hexanone	< 10	< 10	2-hexanone	98.3	70-130	ok	104	70-130	ok	5.40	<25	ok
1,3-dichloropropane	< 0.5	< 0.5	1,3-dichloropropane	96.2	70-130	ok	98.6	70-130	ok	2.55	<25	ok
tetrachloroethene	< 0.5	< 0.5	tetrachloroethene	102	70-130	ok	99.7	70-130	ok	1.84	<25	ok
dibromochloromethane	< 0.5	< 0.5	dibromochloromethane	101	70-130	ok	101	70-130	ok	0.58	<25	ok
1,2-dibromoethane (EDB)	< 1.0	< 1.0	1,2-dibromoethane (EDB)	103	70-130	ok	104	70-130	ok	1.36	<25	ok
chlorobenzene	< 0.5	< 0.5	chlorobenzene	101	70-130	ok	102	70-130	ok	0.94	<25	ok
1,1,1,2-tetrachloroethane	< 0.5	< 0.5	1,1,1,2-tetrachloroethane	103	70-130	ok	102	70-130	ok	1.14	<25	ok
ethylbenzene	< 0.5	< 0.5	ethylbenzene	101	80-120	ok	98.5	70-130	ok	2.43	<25	ok
1,1,2,2-tetrachloroethane	< 0.5	< 0.5	1,1,2,2-tetrachloroethane	106	70-130	ok	108	70-130	ok	1.85	<25	ok
m&p-xylene	< 1.0	< 1.0	m&p-xylene	101	70-130	ok	101	70-130	ok	0.28	<25	ok
o-xylene	< 0.5	< 0.5	o-xylene	94.0	70-130	ok	93.2	70-130	ok	0.87	<25	ok
styrene	< 0.5	< 0.5	styrene	96.3	70-130	ok	94.9	70-130	ok	1.44	<25	ok
bromoform	< 1.0	< 1.0	bromoform	95.3	70-130	ok	99.5	70-130	ok	4.31	<25	ok
isopropylbenzene	< 0.5	< 0.5	isopropylbenzene	98.7	70-130	ok	94.6	70-130	ok	4.22	<25	ok
1,2,3-trichloropropane	< 0.5	< 0.5	1,2,3-trichloropropane	93.2	70-130	ok	94.6	70-130	ok	1.51	<25	ok
bromobenzene	< 0.5	< 0.5	bromobenzene	96.5	70-130	ok	96.7	70-130	ok	0.24	<25	ok
n-propylbenzene	< 0.5	< 0.5	n-propylbenzene	96.2	70-130	ok	94.8	70-130	ok	1.52	<25	ok
2-chlorotoluene	< 0.5	< 0.5	2-chlorotoluene	98.6	70-130	ok	95.7	70-130	ok	3.00	<25	ok
1,3,5-trimethylbenzene	< 0.5	< 0.5	1,3,5-trimethylbenzene	100	70-130	ok	98.6	70-130	ok	1.61	<25	ok
4-chlorotoluene	< 0.5	< 0.5	4-chlorotoluene	96.7	70-130	ok	95.4	70-130	ok	1.28	<25	ok
tert-butyl-benzene	< 0.5	< 0.5	tert-butyl-benzene	98.0	70-130	ok	97.3	70-130	ok	0.70	<25	ok
1,2,4-trimethylbenzene	< 0.5	< 0.5	1,2,4-trimethylbenzene	101	70-130	ok	98.0	70-130	ok	2.71	<25	ok
sec-butyl-benzene	< 0.5	< 0.5	sec-butyl-benzene	101	70-130	ok	99.7	70-130	ok	1.72	<25	ok
p-isopropyltoluene	< 0.5	< 0.5	p-isopropyltoluene	103	70-130	ok	101	70-130	ok	2.34	<25	ok
1,3-dichlorobenzene	< 0.5	< 0.5	1,3-dichlorobenzene	100	70-130	ok	100	70-130	ok	0.13	<25	ok
1,4-dichlorobenzene	< 0.5	< 0.5	1,4-dichlorobenzene	101	70-130	ok	101	70-130	ok	0.20	<25	ok
n-butylbenzene	< 0.5	< 0.5	n-butylbenzene	102	70-130	ok	101	70-130	ok	1.21	<25	ok
1,2-dichlorobenzene	< 0.5	< 0.5	1,2-dichlorobenzene	101	70-130	ok	103	70-130	ok	1.67	<25	ok
1,2-dibromo-3-chloropropane	< 2.5	< 2.5	1,2-dibromo-3-chloropropane	102	70-130	ok	103	70-130	ok	1.04	<25	ok
1,2,4-trichlorobenzene	< 0.5	< 0.5	1,2,4-trichlorobenzene	107	70-130	ok	108	70-130	ok	1.12	<25	ok
hexachlorobutadiene	< 0.5	< 0.5	hexachlorobutadiene	102	70-130	ok	103	70-130	ok	0.20	<25	ok
naphthalene	< 1.0	< 1.0	naphthalene	106	70-130	ok	111	70-130	ok	5.05	<25	ok

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict	Recovery (%)	Acceptance Limits	Verdict	RPD	Acceptance Limits	Verdict
DIBROMOFLUOROMETHANE	107	70-130	DIBROMOFLUOROMETHANE	106	70-130	ok	105	70-130	ok	1.44	<25	ok
1,2-DICHLOROETHANE-D4	97.2	70-130	1,2-DICHLOROETHANE-D4	109	70-130	ok	106	70-130	ok	2.49	<25	ok
TOLUENE-D8	113	70-130	TOLUENE-D8	112	70-130	ok	110	70-130	ok	1.59	<25	ok
4-BROMOFLUOROBENZENE	102	70-130	4-BROMOFLUOROBENZENE	107	70-130	ok	110	70-130	ok	2.99	<25	ok
1,2-DICHLOROBENZENE-D4	102	70-130	1,2-DICHLOROBENZENE-D4	107	70-130	ok	110	70-130	ok	2.55	<25	ok

Instrument: HP GC/MS "S"

WHITE COPY - Original YELLOW COPY - Lab Files PINK COPY - Project Manager

CHAIN-OF-CUSTODY RECORD

W.O. # 1010-0026 *(for lab use only)*

Sample I.D.	Date/Time Sampled	Matrix (A=Air, S=Soil, GW=Ground W., SW=Surface W., WW=Waste W., DW=Drinking W., P=Product, Other (specify))	ANALYSIS REQUIRED: pH, Cond.; GC Methane, Ethane, Ethene; EPA 8260; EPA 8260 - Landfill List; EPA 8021 - Full List; EPA 8021 - 8010 List (Chlor.); EPA 8021 - 8020 List (BTEX); EPA 254.2 DW VOCs; EPA 624 WW VOCs; 601 02 WW VOCs; EPA 8270 SVOCs; EPA 8270 PAH A BN; EPA 625 WW SVOCs; EPA 8082-PCBs; EPA 8081-Pest; TPH-GC (Mod. 8100); TPH-GC w/FING.; EPH (MA DEP); VPH (MA DEP); Metals PPM-13 R-8; MCP 14 Metals (MA); METALS LF-15 (RI); Metals (List Below)**; TCLP – Specify Below; SPLP – Specify Below; EPA 300 Cl NO3 SO4	Total No. of Cont.	Note #
SP-22	10/14/10 900	GW	4	3
RIZ-21	1 933	1	1	
GE-1	1 1005	1	1	
TRIP BLANK	1	1	1	
PRESERVATIVE (Cl - HCl, M=Methanol, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*			Cl		
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Teflon, O-Other)*			V		

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
[signature]	10-14-10/1230	CS
CS	10/15/10 0900	Bill Beacon
Bill Beacon	10/15/10 1200	[signature] 10/15/10 1015

NOTES: (Unless otherwise noted, all samples have been refrigerated to 4 +/- 2° C)
*Specify "Other" preservatives and containers types in this space.

LAB USE: Temp. Blank

TURNAROUND TIME: Standard Rush___ Days, Approved by _____ TEMP. OF COOLER 3.4 °C Cooler Air (CS)

PROJECT MANAGER: Steve Andrus

GZA GeoEnvironmental, Inc.

140 Broadway
Providence, RI 02903
(401) 421-4140
FAX (401) 751-8613

GZA FILE NO: 32795.29 TASK NO. _____ P.O. NO. _____ 10/15/10 1122

PROJECT Perimeter well Check

LOCATION Alton RI

COLLECTOR(S) M. Beacon

SHEET 1 OF 1

GZAP033