

TECHNICAL MEMORANDUM #2

TO:	Joan Taylor and Cynthia Gianfrancesco/RIDEM
FROM:	Stephen Andrus (GZA) and Edward Summerly (GZA)
DATE:	May 12, 2009
FILE NO:	32795.16-C
SUBJECT:	Remedial Activities Progress Report for Lagoon 5 Remediation, Passive Petroleum Recovery Trench Installation and Oil Line Rupture Area Soil Removal

The purpose of this memorandum is to present the progress of remedial activities associated with Lagoon 5 at the Charbert Facility in Alton, Rhode Island and to present recommendations for additional investigations for discussion with RIDEM. This progress report also addresses the status of the passive oil recovery trench installation, and oil line rupture area soil removal.

At this time, the dredging work has been completed, bathymetry has been performed, the passive petroleum recovery trench has been installed and soils contaminated by the 2005 oil line rupture have been partially removed. Each of these items is discussed in detail below.

LAGOON 5 SLUICEWAY REMEDIATION

The following sections summarized remedial work task and additional investigations performed between December 23, 2008 and February 28, 2009.

Surface Water Treatment

TFord, Charbert's remediation contractor, completed dredging activities on December 17, 2008 and initiated the construction and operation of the proposed water treatment system, as described in GZA's August 22, 2008, Revised Remedial Work Plan. The water treatment system was constructed with staked hay bales, cribbing mats, a 40 mil PVC liner, bag filtering pad and gravity / stepped aeration process. The system was constructed on the southeastern edge of Lagoon 5 with an extraction submersible pump installed within the north end of the sluiceway as shown on attached Figure A-1.

The system operated for approximately 14 days at an average flow rate of approximately 60 to 70 gallons per minute approximately 1,210,000 gallons of water was treated by the system. This volume is equivalent to approximately 2.25 pond volumes. After 14 days of operation, surface water samples were collected from the sluiceway area and from the western portion of the lagoon (outside the work area) for volatile organic compounds testing (VOCs), via EPA Method 8260, semi-volatile organics (SVOCs), via EPA Method 8270, total petroleum hydrocarbon (TPH), via

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EPA Method 8100 and priority pollutant metals (PP13), via EPA Method 6010B. The results are summarized and compared to the pre-remedial Lagoon 5 water characterization performed on July 23, 2008; RIDEM's Ambient Water Quality Criteria and to RIDEM's Method 1 GA Groundwater Objectives are provided on attached Table 1. The Laboratory certificates of analysis are included as Attachment A.

The results of the post-remedial surface water analysis identified the VOCs listed below and TPH at greater concentrations than the pre-remedial water characterization results. Metals and SVOC concentrations observed in the post remedial analysis are at similar pre-remedial concentrations. The post remedial VOC contamination distribution is as follows:

POST REME	POST REMEDIAL SURFACE WATER ANALYSIS SUMMARY											
	LINUTC	Lagoon 5	Lagoon 5 Shalf	Lagoon 5								
	UNITS	12/30/2008	12/30/2008	01/30/2009								
Vinyl Chloride	μg/L	34	24	12								
trans-1,2-Dichloroethene	μg/L	4.4	3.3	NOT DETECTED								
cis-1,2-Dichloroethene	μg/L	380	300	280								
Trichloroethene	μg/L	130	97	100								
Tetrachloroethene	μg/L	1200	940	930								

The pre-remedial surface water sample taken in July 23, 2008 detected vinyl chloride at 5 μ g/L and cis-1,2-dichloroethene at 22 μ g/L, with remaining VOC compounds not detected above the method detection limits. Historically surface water samples collected at locations designated SW-1 and SW-2 within Lagoon 5 and reported by GZA in the January 9, 2006 *Supplemental Site Investigation Report* only detected cis-1,2-dichloroethene at 1.9 μ g/L and 2.6 μ g/L, respectively.

Excavated Sediment Disposal Characterization

Approximately 400 yards of oily sediment was removed from Lagoon 5, and placed directly into a bermed and lined storage area, and covered with 10-mil polyethylene. The pile has been configured to shed stormwater runoff which comes in contact with the 10 mil polyethylene, beyond and outside of the lined containment berm. On January 5, 2009 two composite samples, DRSTPL-1 and DRSTPL-2 consisting of 8 to 10 aliquots each were collected and characterized for disposal. Analysis included VOCs, via EPA Method 8260, SVOCs, via EPA Method 8270, TPH, via EPA Method 8100, RCRA 8 Metals, and TCLP-RCRA 8 Metals. The results of the analysis are summarized in attached Table 2 and have been compared to the RIDEM's Industrial Commercial Direct Exposure criteria (DEC). Laboratory data sheets are provided in Attachment A.

The characterization analysis identified several VOCs and SVOCs associated with weathered petroleum products, chlorinated solvents, and various metals. Tetrachloroethene (240 mg/kg and 250 mg/kg) was the only compound that exceeded the Industrial / commercial DEC which is used by Rhode Island Resource Recovery Corporation to screen soils proposed for use as alternate cover material.

Note: During the site investigations phase of the project, GZA collected two (2) sediment samples on October 26, 2005 identified as SED-1 and SED-2 from the Lagoon 5 sluiceway area, which were analyzed for VOCs via EPA Method 8260 among other parameters. The results of the analysis did not detect any VOCs above the method detection limits. The sampling locations associated with SED-1 and SED-2 are shown on Figure A-1, attached.

Lagoon 5 Bottom Stabilization

After reviewing the results of the surface water and sediment analysis it was suspected that volatile organic solvents had been discharged to Lagoon 5 in the past, and a source area was present in the Lagoon 5 sluiceway bottom area. To stabilize the lagoon bottom and provide a barrier above the exposed bottom sediments, a 6-ounce geotextile was installed and a 12-inch thick sand barrier placed above the geotextile. The sand placed above the geotextile was transported from the on-site gravel borrow pit. Prior to placement the sand was analyzed in accordance with the sampling plan presented in the approved Lagoon 5 remedial plan and was confirmed "clean". The geotextile was installed with an approximately 2-foot overlap at panel joints.

Lagoon 5 Shallow Groundwater Investigation & Wood River Surface Water Sampling

To further evaluate the VOC contaminant distribution below the exposed Lagoon 5 bottom, GZA installed 7-micro wells through the bottom of the lagoon sluiceway, in pre-remedial topographic low points on January 20, 2009. The micro wells were hand driven ½-inch interior diameter (ID) cast iron pipe with a 2-foot screen section and were installed in three clusters. The installation logs for each well are included as Attachment B. For each of the three clusters, GZA was able to install 1 well, screened approximately 3 to 5 feet below the pond bottom and 1 well screened approximately 8 to 10 feet below the pond bottom. In addition, one well was installed with screen depths ranging from approximately 13 to 15 feet below the pond bottom. The micro well locations and identifications are shown on Figure A-1. Attempts to install a 13 to 15 foot deep well at the other locations failed due to subsurface obstructions, likely cobbles or a gravel layer.

Each well was purged of approximately 1 gallon of groundwater and a sample was collected for VOC analysis, via EPA Method 8260. The detected analytes have been summarized and compared to RIDEM's Method 1 GA Groundwater Objectives and Groundwater Quality Preventative Action Limits (PALs) in attached Table 3. A summery of the contaminant distribution is as follows:

	MICRO V	VELL VOC ANALY	SIS SUMMARY			
		Micro-1	Micro-3	Micro-4		
	UNITO	SCREEN 8-10 FT	SCREEN 3-5 FT	SCREEN 8-10 FT		
ANALYTE	UNITS	BPB	BPB	BPB		
		01/20/2009	01/20/2009	01/20/2009		
Vinyl Chloride	μg/L	6,000	3,200	220		
trans-1,2-						
Dichloroethene	μg/L	ND	530	ND		
cis-1,2-Dichloroethene	μg/L	85,000	38,000	1,000		
Trichloroethene	μg/L	12,000	16,000	370		
Tetrachloroethene	μg/L	170,000	11,000	2,000		
TOTAL						
CHLORINATED						
SOLVENTS	μg/L	273,000	68,730	3,590		
		Micro-5	Micro-6	Micro-7		
	UNITS	SCREEN 4-6-FT	SCREEN 13-15-FT	SCREEN 8-10-FT		
ANALYTE	UNITS	BPB	BPB	BPB		
		01/20/2009	01/20/2009	01/20/2009		
Vinyl Chloride	μg/L	190	ND	1,800		
trans-1,2-						
Dichloroethene	μg/L	ND	ND	ND		
cis-1,2-Dichloroethene	μg/L	1,400	5	6,700		
Trichloroethene	μg/L	580	6	440		
Tetrachloroethene	μg/L	1,000	94	710		
TOTAL						
CHLORINATED						
SOLVENTS	μg/L	3,170	105	9,650		
		Micro-8				
	UNITS	SCREEN 3-5 FT				
ANALYTE	Units	BPB				
		01/20/2009				
Vinyl Chloride	μg/L	2,200				
trans-1,2-						
Dichloroethene	μg/L	ND				
cis-1,2-Dichloroethene	μg/L	7,600				
Trichloroethene	μg/L	1,300				
Tetrachloroethene	μg/L	5,000				
TOTAL						
CHLORINATED						
SOLVENTS	μg/L	16,100				

The results of the groundwater sampling identified elevated levels of chlorinated solvents in each of the seven wells with five contaminants exceeding the GA Groundwater Objectives. The total detected levels of chlorinated solvents in the seven well samples range from 105 μ g/L in the sample from Micro Well 6 (13 to 15 feet below pond bottom) to 273,000 μ g/L in the sample from Micro Well-1 (8 to 10 feet below pond bottom). Tetrachloroethene concentrations identified at Micro Well-1 are at or slightly above solubility limits (+/-140,000 ppb) for the compound.

To assess the potential impact of the elevated concentrations of VOCs identified in the Lagoon 5 surface water and shallow groundwater underlying Lagoon 5 on the adjacent river, three surface water samples identified as WR-1, WR-2 and WR-3, were collected from the Wood River on January 30, 2009. These samples were analyzed for VOCs via EPA Method 8260. In addition, one surface water sample identified as LAG 5 CHNL, was collected from the Lagoon 5 sluiceway area and analyzed for VOCs, via EPA Method 8260. The approximate sample locations are shown on Figure A-1.

The three surface water samples collected from the Wood River on January 30, 2009 did not contain any volatile organic compounds above the method detection limits and the surface water sample collected from the Lagoon 5 sluiceway contained contaminants similar to those observed in the December 30, 2008 post-remedial surface water sample analysis.

Additional Proposed Investigations

GZA proposes the following possible actions that we can discuss with RIDEM to further delineate the VOC contaminant distribution around the perimeter of Lagoon 5 as follows. It should be noted that data will be evaluated as the investigation proceeds and the field investigation will be adjusted as needed.

 Further investigate VOC contaminant distribution and migration to delineate the horizontal extent of groundwater contamination between Lagoon 5 and the Wood River: GZA proposes to install 3 deep aquifer groundwater monitoring wells to the top of the underlying till layer, approximately 35 to 40 feet deep below the existing ground surface elevation. Two monitoring wells would be located to the south of Lagoon 5 between the fence and the Wood River. The third monitoring well will be installed to the west of Lagoon 5 between the fence and the wetland area adjacent to the Wood River.

The wells will be drilled using standard wash and drive drilling techniques and 3- to 4inch steel casing. Continuous soil sampling using 2- or 3-inch ID split-spoon samplers employing Standard Penetration Test methods will be employed during the drilling process to access the presents of potential confining layers. A 2-inch ID PVC monitoring well with a 10-foot well screen (0.01-inch slot size) will be installed in each boring. Filter sand will be installed around the screen section and extend approximately 2 feet above the screen section. A two foot long bentonite seal will be installed directly above the filter sand and a high solids bentonite grout will be tremied into place from the bentonite seal to the ground surface. Each monitoring well will be developed by purging the equivalent volume of wash water utilized to install the well. The purge water will be pumped directly into 55-gallon drums for characterization. The wells will be allowed to stabilize for 5 days prior to conducting piezometric measurements and collecting groundwater samples. Each well will be sampled utilizing low flow / low stress methods with VOC sampling receptacles for VOCs via EPA Method 8260.

We estimate that this drilling and sampling program will require 10 to 14 days to complete. Figure A-2 shows the approximate locations of the proposed groundwater monitoring wells. Please note these locations represent our best initial estimate as to the placement of monitoring wells; the locations may be adjusted in the field based on site-specific observations and access considerations. A GZA geologist/engineer will be

present during the field program to collect and screen soil and water samples, and prepare boring/well logs describing subsurface conditions.

2. The detected levels of tetrachloroethene (PCE) in the dredged material exceed the acceptance criteria for disposal at the Rhode Island Resource Recovery's Central Landfill (RIRRC). Currently the material has been stockpiled within a containment cell underlain with a 40-mil PVC liner and covered with 10-mil polyethylene. To reduce the PCE concentrations to acceptable levels for disposal at Central Landfill, GZA recommends installing a temporary soil vapor extraction system equipped with a mechanical blower and activated carbon filters to recover volatile organics. In anticipation of implementing a temporary soil vapor extraction system, four-4-inch diameter perforated SCH-40 PVC lines were installed horizontally within the pile for venting. A pilot test will be performed to determine required blower capacity and approximate contaminant mass within the air stream to size the activated carbon vessel. The material will be treated until the VOC concentrations are within RIRRC's acceptable disposal criteria. The proposed location of the temporary soil vapor extraction system is shown on Figure A-2.

PASSIVE PETROLEUM RECOVERY TRENCH

As part of the Lagoon 5 remedial activities, the proposed petroleum interceptor trench and passive product recovery wells have been installed parallel to the eastern channel of Lagoon 5, see Figure A-1. The recovery trench configuration has been installed in accordance with GZA's August 22, 2008 *Revised Remedial Work Plan* (Work Plan). The recovery system was installed in January of 2009 and the monitoring program proposed in the Work Plan will be incorporated into the monthly air sparge and soil vapor extraction monitoring program. The monitoring results will be summarized in a table and included as an appendix to the Interim Compliance Monitor Program quarterly and yearly reports. A passive petroleum recovery system consisting of the ORS Filter Bucket, 4-Inch GeoSorb sock or similar equipment will be installed in each recovery well based on our ongoing evaluation of the volume and viscosity of the oil present in the wells.

OIL LINE RUPTURE AREA

The remediation of the southern end of the oil line (which was inadvertently broken by the contractor during the installation of the piping to the new ISDS system in 2005) was conducted in accordance with GZA's August 22, 2008 Work Plan. In accordance with the procedures presented in the October 15, 2007 RAWP; Section <u>5.12</u> "Oil Line Rupture Area".

On December 22, 2008 the area of the oil line was excavated and the soils segregated by using visual and olfactory evidence of petroleum contamination. The soils suspected of containing contaminates were loaded on a truck and placed in the lined containment berm for off-site disposal. Clean soils were stockpiled adjacent to the excavation for backfill. Approximately 10 cubic yards of clean soil and 10 cubic yards of contamination appeared to be more extensive than initially delineated. The excavation was extended to the east and to the west across the northern end of the oil tank bunker and to the driveway located approximately 20 feet to the north to a depth of approximately 2-feet below the driveway elevation. The oil contamination appeared to extend under the oil tank bunker and the old fill station concrete pad. At that time the excavation was halted to further evaluate the extent of contamination. The exposed area was covered with 10-mil polyethylene sheeting to prevent stormwater infiltration.

On January 5, 2009 a track mounted geoprobe was brought to the site and a grid pattern of soil explorations was conducted in the vicinity of the oil tank bunker. A total of 13 explorations (GP-101 to 113) were conducted to a depth of 10 to 15-feet below the ground surface and sample tubes were opened and observed on-site for visual and olfactory evidence of petroleum contamination and field screened with a Thermo Environmental Instruments Model 580B photoionization detector with a 10.6 eV bulb. One sample was collected from each soil exploration just above the groundwater table. Three soil samples were also collected from the bottom of the excavation. The samples taken in the remedial excavation were taken 6 to 12-inches below the oil lines in the center of the excavation (BOT EX-1 and 2) and one approximately 2-feet under the oil bunker, approximately 1-foot below the oil line (CNTR BNKR). The boring logs are attached as Appendix B and the soil exploration locations are shown on Figure A-1.

The laboratory analysis consisted of total petroleum hydrocarbons (TPH) via EPA Method 8100M. The samples collected from GP-104 and the CNTR BNKR area were also evaluated using Petroleum Hydrocarbon Fingerprint (PHCF) techniques to evaluate the type and approximate age of the oil release. The results have been summarized and compared to RIDEM's residential direct exposure criteria (RDEC) and RIDEM's industrial/commercial direct exposure criteria (I/CDEC) in Table 4. The results of the geoprobe grid soil analysis did not detect any TPH levels above the RDEC limit of 500 mg/kg. Two of the samples taken from within the excavation did exceeded the I/CDEC of 2,500 for TPH with the sample CNTR BNKR at 3,700 mg/kg and the sample BOT EX-2 at 3,000 mg/kg. The fingerprint analysis of sample GP-104 S-2 estimated the oil was weathered fuel oil/diesel or machine/cutting oil. The fingerprint analysis of sample CNTR BNKR indicated that the petroleum was #2 fuel oil/diesel and that weathering had occurred.

Based on these findings, on January 22, 2009, soil excavations resumed with the intent to excavate the oil contaminated soils within the open excavation that exceeded the I/CDEC for TPH and collect confirmatory samples.

The excavation was expanded to the groundwater table and to the north and south to the extents possible. Approximately 50 cubic yards of additional soil was removed. Excavation was limited in three directions: to the south, excavation was limited by the oil bunker foundation, to the west, excavation was limited by existing underground utilities including the active oil line and to the north, and excavation was limited by a large concrete pad that was historically used as a fill pad for the petroleum distribution. The pad could not be removed with the 40-ton excavator used for the excavation. The excavation extended approximately 6.5 feet below the driveway grade with groundwater at approximately 5.0 feet below the driveway grade.

One confirmatory sample was collected from each of the sidewalls at 3 to 6 feet below the driveway grade for laboratory analysis. The excavation was backfilled with clean sand from the on-Site gravel borrow to the top of the existing oil lines. The remaining excavation was left open as Charbert had contracted with Eastern Piping to install a new double walled oil line from the oil bunker, under the driveway to the main building. The new line was installed and placed in service on February 26, 2009 and the old oil lines running under the driveway were cut, drained and capped in place.

Laboratory analysis results of the four sidewall samples have been summarized and compared to RIDEM's residential direct exposure criteria (RDEC) and RIDEM's industrial/commercial direct exposure criteria (I/CDEC) in Table 4 and the sample locations are shown on Figure A-1. As shown in the summary table below, three of the four sidewall samples contained TPH at levels that

exceed RIDEM's I/CDEC and require alternative remedial methods due to the obstructions discussed above.

OIL LINE SOIL TPH ANALYSIS SUMMARY											
	UNITS	South SW 3-6ft. BGS	West SW 3-6ft. BGS	East SW 3-6ft. BGS	North SW 3-6ft. BGS						
		01/22/2009	01/22/2009	01/22/2009	01/22/2009						
Hydrocarbon Content	mg/kg	7,300	5,800	48	14,000						

In accordance with GZA's January 9, 2006 *Supplemental Site Investigation Report*, remediation of contaminants in the area of the former underground storage tanks (UST) were to be conducted concurrent with the oil line rupture remediation work. Geoprobes conducted in October of 2005 showed three samples (GP-39, 40 and 45) which had detectable levels of tetrachloroethene that were below RIDEM's RDEC, but exceeded the GA-Leachability criterion and one sample that contained TPH above the RDEC. The sample taken from GP-40 contained 1,500 mg/kg of TPH. The October 2005 Geoprobe locations are shown on Figure A-1.

At this time GZA proposes the following remedial action for the oil tank bunker and the former UST area:

- 1. As excavation of additional soil in the oil tank bunker area is limited by the obstructions described above, two 10-foot horizontal vent lines were installed to the north of the bunker, see Figure A-2 for locations. To remediate the chlorinated solvents and petroleum identified in the area of the former UST's, GZA also installed three additional 10-foot horizontal vent lines, two just south of the existing waste oil containment area and one under the center of the driveway, see Figure A-2 for locations.
- 2. After the remaining components required to operate the new vent lines have been installed (vent line installation was completed on February 26, 2009), pilot testing to determine the radius of influence and effectiveness of the vent lines will be conducted with RIDEM's approval. The new vents will then be tied into the existing exterior soil vapor extraction system. The blower currently servicing the exterior SVE/air sparge system will be replaced for increased capacity.

GZA would like to arrange for a meeting to discuss the items covered in this technical memorandum at your earliest convenience.

Attachments: Figures A-1 and A-2 Tables 1 to 4 Appendix A- Boring logs Appendix B- Laboratory Certificates of Analysis

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TABLES

TABLE 1 LAGOON 5 REMEDIATION SURFACE WATER ANALYTICAL RESULTS SUMMARY

Charbert Facility

Alton,	Rhode	Island	
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		STANDARDS	RIDEM		Lagoon 5	Sluiceway	Lagoon 5	Sluiceway	Lagoon 5	Sluiceway	Lagoon	5 Shelf	Trip	Blank	Trip E	Blank
	RIDEN ANGO	STANDARDS	GA		PRE-RE	MEDIAL	POST RE	EMEDIAL	POST RE	MEDIAL	POST RE	EMEDIAL	PRE-RE	MEDIAL	POST RE	MEDIAL
	ACUTE	CHRONIC	Groundwater	UNITS	07/23/	/2008	12/30	/2008	12/30/	2008	12/30	/2008	07/23	/2008	12/30/	/2008
			Objectives		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
EPA 8260 VOLATILE ORGANICS																
Vinyl Chloride	NC	NC	2	µg/L	5	1.0	34	1.0	NT		24	1.0	<	1.0	<	1.0
trans-1,2-Dichloroethene	NC	NC	100	µg/L	ND	1.0	4.4	1.0	NT		3.3	1.0	<	1.0	<	1.0
cis-1,2-Dichloroethene			70	µg/L	22	25	380	25	NT		300	25	<	1.0	<	1.0
Trichloroethene	1950*	43*	5	µg/L	ND	25	130	25	NT		97	1.0	<	1.0	<	1.0
Tetrachloroethene	240*	5.3*	5	µg/L	ND	25	1200	25	NT		940	25	<	1.0	<	1.0
EPA 8270 SEMI-VOLATILE ORGAN	IICS															
ACID FRACTION:					ND		ND		ND		ND		NT		NT	
BASE-NEUTRAL FRACTION:					ND		ND		ND		ND		NT		NT	
Mod. EPA 8100 TOTAL PETROLEU	M HYDROCARBON											-				
Hydrocarbon Content			NS	µg/L	ND	200	NT		510	100	270	200	NT		NT	
EPA 6010B PRIORITY POLLUTANT	METALS															
Barium			2	mg/L	0.016	0.005	0.015	0.015	NT	0.015	<	0.015	NT		NT	
Copper	0.005	0.004	NS	mg/L	0.015	0.015	0.015	0.015	NT	0.015	<	0.015	NT		NT	
Zinc	0.035	0.032	NS	mg/L	0.059	0.010	0.059	0.010	NT	0.010	0.069	0.010	NT		NT	

	RIDEM AWOC STANDARDS		RIDEM		WF	R-1	WF	R-2	WF	२-३	LAG 5	CHNL	Trip	Blank
	KIDEM AWQC	STANDARDS	GA		POST RE	POST REMEDIAL		POST REMEDIAL		EMEDIAL	POST REMEDIAL		POST R	EMEDIAL
	ACUTE	CHRONIC	Groundwater	UNITS	01/30	/2009	01/30	/2009	01/30	/2009	01/30	/2009	01/30	/2009
			Objectives		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
PA 8260 VOLATILE ORGANICS														
Vinyl Chloride	NC	NC	2	µg/L	ND	1	ND	1	ND	1	12	10	ND	1
trans-1,2-Dichloroethene	NC	NC	100	µg/L	ND	1	ND	1	ND	1	ND	10	ND	1
cis-1,2-Dichloroethene			70	µg/L	ND	1	ND	1	ND	1	280	10	ND	1
Trichloroethene	1950*	43*	5	µg/L	ND	1	ND	1	ND	1	100	10	ND	1
Tetrachloroethene	240*	5.3*	5	µg/L	ND	1	ND	1	ND	1	930	10	ND	1
ND = NOT DETECTED														

NT = NOT TESTED

NS = NO STANDARD

ANALYTE DETECTED ABOVE MDL

ANALYTE DETECTED ABOVE RIDEM GA GROUNDWATER STANDARD

SURFACE WATER STANDARDS NOTES * = RIDEM Minimum Database Guidelines

^{\$} = The aquatic life criteria for these compounds were issued in 1980 utilizing the 1980 Guidelines for criteria development. The acute values shown are final acute values which, by the 1980 Guidelines, are instantaneous values as contrasted with a Criteria Maximum Concentration (CMC) which is a one-hour average.

NC = Parameter is Listed in RIDEM Ambient Water Criteria Regulations with no criteria given.

-- = Parameter is not listed in RIDEM Ambient Water Criteria Regulations.

Note: Actual hardness is not known. A hardness of 25 mg/L as CaCO₃ was used for metals criteria calculations.

TABLE 3 LAGOON 5 REMEDIATION MICRO WELL ANALYTICAL RESULTS SUMMARY

Charbert Facility Alton, Rhode Island

	RIDEM		UNITS			ro-1	Micro-3		
	GA	UNITS				-10-FT BPB	SCREEN 3-5-FT BPB		
	Groundwater Objectives		01/16	/2009	01/20	/2009	01/20/2009		
			Result	RL	Result	RL	Result	RL	
VOLATILE ORGANICS EPA 8260									
Vinyl Chloride	2	µg/L	ND	1	6,000	1,000	3,200	500	
trans-1,2-Dichloroethene	100	µg/L	ND	1	ND	1,000	530	500	
cis-1,2-Dichloroethene	70	µg/L	ND	1	85,000	1,000	38,000	500	
Trichloroethene	5	µg/L	ND	1	12,000	1,000	16,000	500	
Tetrachloroethene	5	µg/L	ND	1	170,000	1,000	11,000	500	
TOTAL CHLORINATED SOLVENTS	NS	µg/L	ND		273,000		68,730		

	RIDEM		Mic	ro-4	Mic	ro-5	Micro-6		
	GA		SCREEN 8	-10-FT BPB	SCREEN 4	1-6-FT BPB	SCREEN 13-15-FT BPB		
	Groundwater	UNITS	01/20	/2009	01/20	/2009	01/20/2009		
	Objectives		Result	RL	Result	RL	Result	RL	
VOLATILE ORGANICS EPA 8260									
Vinyl Chloride	2	µg/L	220	50	190	25	ND	1	
trans-1,2-Dichloroethene	100	µg/L	ND	50	ND	25	ND	1	
cis-1,2-Dichloroethene	70	µg/L	1,000	50	1,400	25	5	1	
Trichloroethene	5	µg/L	370	50	580	25	6	1	
Tetrachloroethene	5	µg/L	2,000	50	1,000	25	94	1	
TOTAL CHLORINATED SOLVENTS	NS	µg/L	3,590		3,170		105		

	RIDEM		Mic	ro-7	Micro-8		
	GA		SCREEN 8	-10-FT BPB	SCREEN 3	3-5-FT BPB	
	Groundwater	UNITS	01/20	/2009	01/20	/2009	
	Objectives		Result	RL	Result	RL	
VOLATILE ORGANICS EPA 8260							
Vinyl Chloride	2	µg/L	1,800	100	2,200	100	
trans-1,2-Dichloroethene	100	µg/L	ND	100	ND	100	
cis-1,2-Dichloroethene	70	µg/L	6,700	100	7,600	100	
Trichloroethene	5	µg/L	440	100	1,300	100	
Tetrachloroethene	5	µg/L	710	100	5,000	100	
TOTAL CHLORINATED SOLVENTS	NS	µg/L	9,650		16,100		

ND = NOT DETECTED

NS = NO STANDARD

BPB = BELOW POND BOTTOM

ANALYTE DETECTED ABOVE MDL

ANALYTE DETECTED ABOVE RIDEM GA GROUNDWATER STANDARD

TABLE 2 LAGOON 5 REMEDIATION DREDGE STOCKPILE ANALYTICAL RESULTS SUMMARY

Charbert Facility

Alton, Rhode Island

	RIDEM		DRSTPL-1		DRSTPL-2		
	DIRECT EXPOSURE						
	CRITERIA	UNITS	01/05	/2009	12/30	/2008	
	INDUSTRIAL/						
	COMMERCIAL		Result	RL	Result	RL	
EPA 8260 VOLATILE ORGANICS			-				
1,2,4-Trimethylbenzene	NS	mg/kg	0.07	0.03	0.08	0.03	
1,3,5-Trimethylbenzene	NS	mg/kg	0.05	0.03	0.05	0.03	
2-Chlorotoluene	NS	mg/kg	0.12	0.03	0.17	0.03	
cis-1,2-Dichloroethene	10,000	mg/kg	5.4	1.30	5.8	1.30	
Isopropyl benzene	10,000	mg/kg	0.06	0.03	0.06	0.03	
m,p-Xylene	NS	mg/kg	0.05	0.03	0.07	0.03	
Total Xylene	10,000	mg/kg	0.05	0.03	0.07	0.03	
Naphthalene	NS	mg/kg	0.40	0.03	0.38	0.03	
p-Isopropyl toluene	NS	mg/kg	0.08	0.03	0.09	0.03	
Sec-butylbenzene	NS	mg/kg	0.06	0.03	0.06	0.03	
Tetrachloroethene	110	mg/kg	240	1.30	250	1.30	
trans-1,2-Dichloroethylene	10,000	mg/kg	0.10	0.03	0.1	0.03	
Trichloroethene	520	mg/kg	6.2	1.30	6.7	1.30	
Vinyl Chloride	3	mg/kg	0.13	0.026	0.12	0.027	
EPA 8270 SEMI-VOLATILE ORGANICS							
Benzo(b)fluoranthene	7.8	mg/kg	ND	0.36	0.5	0.38	
Benzo(k)fluoranthene	78	mg/kg	ND	0.36	0.41	0.38	
Benzo(a)pyrene	0.8	mg/kg	ND	0.36	0.44	0.38	
Bis(2-ethylhexyl)phthalate	410	mg/kg	0.38	0.36	0.6	0.38	
Chrysene	780	mg/kg	ND	0.36	0.81	0.38	
Fluoranthene	10,000	mg/kg	0.56	0.36	1.4	0.38	
Phenanthrene	10,000	mg/kg	0.95	0.36	2	0.38	
Pyrene	10,000	mg/kg	0.36	0.36	1.9	0.38	
Mod. EPA 8100 TOTAL PETROLEUM HY	DROCARBON						
Hydrocarbon Content	2,500	mg/kg	560	11	1,000	11	

TABLE 2 LAGOON 5 REMEDIATION DREDGE STOCKPILE ANALYTICAL RESULTS SUMMARY

Charbert Facility Alton. Rhode Island

	RIDEM DIRECT EXPOSURE		DRST	TPL-1	DRST	TPL-2
	CRITERIA	UNITS	01/05	/2009	12/30	/2008
	INDUSTRIAL/					
	COMMERCIAL		Result	RL	Result	RL
TOTAL 8 RCRA METALS						
Arsenic	7	mg/kg	4.8	1.600	3.7	1.700
Barium	10,000	mg/kg	32	0.54	49	0.56
Cadmium	1,000	mg/kg	ND	0.27	ND	0.28
Chromium	10,000	mg/kg	16	1.6	18	1.7
Lead	500	mg/kg	38	2.2	55	2.3
Mercury	610	mg/kg	0.38	0.11	0.38	0.11
Selenium	10,000	mg/kg	ND	11	ND	11
Silver	10,000	mg/kg	ND	1	ND	1.1
TCLP-8 RCRA METALS						
Arsenic	NS	mg/kg	ND	1	ND	1
Barium	NS	mg/kg	ND	2	ND	2
Cadmium	NS	mg/kg	ND	0.05	ND	0.05
Chromium	NS	mg/kg	ND	0.3	ND	0.3
Lead	NS	mg/kg	ND	0.4	ND	0.4
Mercury	NS	mg/kg	ND	0.0005	ND	0.0005
Selenium	NS	mg/kg	ND	1	ND	1
Silver	NS	mg/kg	ND	0.20	ND	0.20

ND = NOT DETECTED

NS = NO STANDARD

ANALYTE DETECTED ABOVE MDL ANALYTE DETECTED ABOVE RIDEM RESIDENTIAL DIRECT EXPOSURE CRITERIA ANALYTE DETECTED ABOVE RIDEM INDUSTRIAL/COMMERCIAL DIRECT EXPOSURE CRITERIA

FIGURES



J:\ENV\32795-16.eas\CADD\TECH MEMO-2.-05-07-09.dwg [EXP LOCATIONS FIG A-1] May 07, 2009 - 1:06pm stephen.andrus



APPENDIX A

LABORATORY CERTIFICATES

LAGOON 5 SW PRE-REMEDIAL



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

Todd Greene

 Project No.:
 03.0032795.26

 Work Order No.:
 0901-00002

 Date Received:
 01/02/2009

 Date Reported:
 01/09/2009

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
12/30/2008	Aqueous	0901-00002 001	Lagoon 5 Sluceway
12/30/2008	Aqueous	0901-00002 002	Lagoon 5 Shelf
12/30/2008	Aqueous	0901-00002 003	Trip Blank

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01/02/2009

Date Received

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

Project Name .:	Charbert UIC Closure	Date Reported:	01/09/2009
Project No .:	03.0032795.26	Work Order No.:	0901-00002

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 01/02/09 via _x_GZA courier, __EC, __FEDEX, or ___hand delivered. The temperature of the __temperature blank/_x_cooler air, was 0.7 degrees C. The temperature requirement for most analyses is above freezing to 6 degrees C. The samples were received intact for all requested analyses except for sample "Lagoon 5 Sluceway" assigned for TPH which was broken when inspected on arrival at the lab.

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 continuing calibration verification standard (CCV) (01/02/09) had an analyte outside of the 30%D QC acceptance limit. The outlier includes tert-butyl alcohol (TBA) (36%).

The Laboratory Control Sample (LCS) (01/02/09 A) had a method 8260 list analyte outside of the 70-130% QC acceptance limits. Specific outlier includes tert-butyl alcohol (TBA) (136%). This analyte was not found in the associated samples

The continuing calibration verification standard (CCV) (01/05/09) had analytes outside of the 30%D QC acceptance limit. The outliers include dichlorodifluoromethane (31%) and tert-butyl alcohol (TBA) (34%).

The Laboratory Control Sample (LCS) (01/05/09 A) had method 8260 list analytes outside of the 70-130% QC acceptance limits. Specific outliers include dichlorodifluoromethane (131%) and tert-butyl alcohol (TBA) (136%). These analytes were not found in the associated samples.

Samples Lagoon 5 Sluceway (0901-0002-001) and Lagoon 5 Shelf (0901-0002-002) were analyzed without dilution with analytes detected above the instrument calibration range. The samples were analyzed again at a 1/25 dilution. The results for both analyses are reported.

The percent recoveries for the surrogates in the diluted runs are as follows:

Lagoon 5 Sluceway: 1,2- Dichloroethane-D4 - 91.0%. Toluene-D8 - 103%, 4-Bromofluorobenzene - 103%. Lagoon 5 Shelf: 1,2- Dichloroethane-D4 - 91.8%, Toluene-D8 - 103%, 4-Bromofluorobenzene - 103%

Attach QC 8260 01/02/09 A - Aqueous Attach QC 8260 01/05/09 A - Aqueous

3. EPA Method 6010B/7470A - Metals

Attach QC 6010B 01/06/09 - Aqueous Attach QC 7570A 01/05/09 - Aqueous

4. EPA Method 8270 - SVOCs

The Laboratory Control Spike (LCS) (01/05/09) had a method 8270 list acid analyte outside of the 30-130% QC acceptance limits. Specific outlier includes benzoic acid (3.50%).

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Attach QC 8270 01/05/09 - Aqueous

A., 1

 $L_{1} = 0$

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

Project Name.: Charbert UIC Closure

Project No.: 03.0032795.26

 Date Received:
 01/02/2009

 Date Reported:
 01/09/2009

 Work Order No.:
 0901-00002

Data Authorized By:	\bigcirc	D	U	LA	
		0			

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 6010B.

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

The laboratory report shall not be reproduced except in full without the written consent of the laboratory.

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.



Sample No.:

001

Analysis

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

Project Name.:Charbert UIC ClosureProject No.:03.0032795.26	Date Received: Date Reported: Work Order No.:	01/02/2009 01/09/2009 0901-00002	
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Sample ID: Lagoon 5 Sluceway

Sample Date: 12/30/2008

test Performed Method Results Units Tech Date VOLATILE ORGANICS EPA 8260 MQS 01/02/2009 Dichlorodifluoromethane <2.0 EPA 8260 ug/L MQS 01/02/2009 Chloromethane EPA 8260 <2.0 ug/L MQS 01/02/2009 Vinyl Chloride EPA 8260 34 ug/L MQS 01/02/2009 Bromomethane EPA 8260 <2.0 ug/L MQS 01/02/2009 Chloroethane EPA 8260 <1.0 MQS ug/L 01/02/2009 Trichlorofluoromethane EPA 8260 <2.0 MQS 01/02/2009 ug/L Diethylether EPA 8260 <5.0 ug/L MQS 01/02/2009 Acetone EPA 8260 <25 ug/L MQS 01/02/2009 1.1-Dichloroethene EPA 8260 <10 ug/L MQS 01/02/2009 Dichloromethane EPA 8260 <2.0 ug/L MQS 01/02/2009 Methyl-Tert-Butyl-Ether EPA 8260 <1.0 ug/L MQS 01/02/2009 trans-1,2-Dichloroethene EPA 8260 4.4 ug/L MQS 01/02/2009 1,1-Dichloroethane EPA 8260 <1.0 MQS ug/L 01/02/2009 EPA 8260 2-Butanone <25 MQS ug/L 01/02/2009 2,2-Dichloropropane EPA 8260 <1.0 ug/L MQS 01/02/2009 cis-1.2-Dichloroethene EPA 8260 380 ug/L MQS 01/05/2009 Chloroform EPA 8260 <1.0 ug/L MQS 01/02/2009 Bromochloromethane EPA 8260 <1.0 ug/L MQS 01/02/2009 Tetrahydrofuran EPA 8260 <10 ug/L MQS 01/02/2009 1.1.1-Trichloroethane EPA 8260 <1.0 ug/L MQS 01/02/2009 1,1-Dichloropropene EPA 8260 <1.0 ug/L MQS 01/02/2009 Carbon Tetrachloride EPA 8260 <1.0 ug/L MQS 01/02/2009 1,2-Dichloroethane EPA 8260 <1.0 ug/L MQS 01/02/2009 Benzene EPA 8260 <1.0 ug/L MQS 01/02/2009 Trichloroethene EPA 8260 130 ug/L MOS 01/05/2009 1.2-Dichloropropane EPA 8260 <1.0 ug/L MQS 01/02/2009 Bromodichloromethane EPA 8260 <1.0 ug/L MQS 01/02/2009 Dibromomethane EPA 8260 <1.0 ug/L MQS 01/02/2009 4-Methyl-2-Pentanone EPA 8260 <25 ug/L MQS 01/02/2009 cis-1,3-Dichloropropene EPA 8260 <1.0 ug/L MQS 01/02/2009 Toluene EPA 8260 <1.0 ug/L MQS 01/02/2009 trans-1,3-Dichloropropene EPA 8260 <2.0 ug/L MQS 01/02/2009 1,1,2-Trichloroethane EPA 8260 <1.0 MQS ug/L 01/02/2009 2-Hexanone EPA 8260 <25 ug/L MQS 01/02/2009 1,3-Dichloropropane EPA 8260 <1.0 ug/L MQS 01/02/2009 Tetrachloroethene EPA 8260 1200 MQS ug/L 01/05/2009



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene Project Name.: ⁴² Project No.:	Charbert UIC Closure 03.0032795.26	Date Received: Date Reported: Work Order No.:	01/02/2009 01/09/2009 0901-00002	۰.
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Sample ID: Lagoon 5 Sluceway

Sample Date: 12/30/2008

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Sample No.: 001

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Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	01/02/2009
o-Xylene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Styrene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Bromoform	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Isopropyibenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,3~Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1 ₃ 4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	01/02/2009
1.2.4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Naphthalene	EPA 8260	<2.0	ug/L	MQS	01/02/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	98.6	% R	MQS	01/02/2009
***Toluene-D8	EPA 8260	104	% R	MQS	01/02/2009
***4-Bromofluorobenzene	EPA 8260	104	% R	MQS	01/02/2009
Preparation	EPA 5030B	1.0	CF	MQS	01/02/2009
SEMI-VOLATILE ORGANICS	EPA 8270			CMG	01/05/2009
ACID FRACTION:	EPA 8270				



Page 7 of 16

Analysis .

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

Project Name.: Project No.:	Charbert UIC Closure 03.0032795.26	Date Received: Date Reported: Work Order No.;	01/02/2009 01/09/2009 0901-00002	

Sample ID: Lagoon 5 Sluceway

Sample Date: 12

12/30/2008

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Date
Phenol	EPA 8270	<10	ug/L	CMG	01/05/2009
2-Chlorophenol	EPA 8270	<10	ug/L	CMG	01/05/2009
2-Methylphenol	EPA 8270	<10	ug/L	CMG	01/05/2009
3&4-Methylphenol	EPA 8270	<10	ug/L	CMG	01/05/2009
2-Nitrophenol	EPA 8270	<10	ug/L	CMG	01/05/2009
2,4-Dimethylphenol	EPA 8270	<10	ug/L	CMG	01/05/2009
Benzoic Acid	EPA 8270	<10	uğ/L	CMG	01/05/2009
2,4-Dichlorophenol	EPA 8270	<10	ug/L	CMG	01/05/2009
4-Chloro-3-Methylphenol	EPA 8270	<20	ug/L	CMG	01/05/2009
2,4,6-Trichlorophenol	EPA 8270	<10	ug/L	CMG	01/05/2009
2,4,5-Trichlorophenol	EPA 8270	<10	ug/L	CMG	01/05/2009
2,4-Dinitrophenol	EPA 8270	<100	ug/L	CMG	01/05/2009
4-Nitrophenol	EPA 8270	<50	ug/L	CMG	01/05/2009
4,6-Dinitro-2-Methylphenol	EPA 8270	<50	ug/L	CMG	01/05/2009
Pentachlorophenol	EPA 8270	<50	ug/L	CMG	01/05/2009
BASE-NEUTRAL FRACTION:			-		
n-Nitrosodimethylamine	EPA 8270	<10	ug/L	CMG	01/05/2009
bis(2-Chloroethyl)Ether	EPA 8270	<10	ug/L	CMG	01/05/2009
1,3-Dichlorobenzene	EPA 8270	<10	ug/L	CMG	01/05/2009
1,4-Dichlorobenzene	EPA 8270	<10	ug/L	CMG	01/05/2009
Benzyl Alcohol	EPA 8270	<20	ug/L	CMG	01/05/2009
1,2-Dichlorobenzene	EPA 8270	<10	ug/L	CMG	01/05/2009
bis(2-Chloroisopropyi)Ether	EPA 8270	<10	ug/L	CMG	01/05/2009
n-Nitrosodi-n-Propylamine	EPA 8270	<10	ug/L	CMG	01/05/2009
Hexachloroethane	EPA 8270	<10	ug/L	CMG	01/05/2009
Nitrobenzene	EPA 8270	<10	ug/L	CMG	01/05/2009
Isophorone	_EPA_8270	<10	ug/L	CMG_	01/05/2009-
bis(2-Chloroethoxy)Methane	EPA 8270	<10	ug/L	CMG	01/05/2009
1,2,4-Trichlorobenzene	EPA 8270	<10	ug/L	CMG	01/05/2009
Naphthalene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
4-Chloroaniline	EPA 8270	<20	ug/L	CMG	01/05/2009
Hexachlorobutadiene	EPA 8270	<10	ug/L	CMG	01/05/2009
2-Methylnaphthalene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Hexachlorocyclopentadiene	EPA 8270	<50	ug/L	CMG	01/05/2009
2-Chloronaphthalene	EPA 8270	<10	ug/L	CMG	01/05/2009
2-Nitroaniline	EPA 8270	<50	ug/L	CMG	01/05/2009
Dimethylphthalate	EPA 8270	<10	ug/L	CMG	01/05/2009



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadwaŷ⁵ Providence, RI 02903

Todd Greene

Project Name.: Project No.:	Charbert UIC Closure 03.0032795.26	Date Received: Date Reported: Work Order No.	01/02/2009 01/09/2009 0901 00002
		Work Order No.:	0901-00002

Sample ID: Lagoon 5 Sluceway

Sample Date: 12/30/2008

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Analysis Test Performed Method Results Units Tech Date Acenaphthylene EPA 8270 <2.0 CMG 01/05/2009 ug/L 2.6-Dinitrotoluene EPA 8270 <10 ug/L CMG 01/05/2009 3-Nitroaniline <50 EPA 8270 ug/L CMG 01/05/2009 Acenaphthene' EPA 8270 <2.0 ug/L CMG 01/05/2009 EPA 8270 Dibenzofuran <10 CMG ug/L 01/05/2009 2.4-Dinitrotoluene EPA 8270 <10 ug/L CMG 01/05/2009 Diethylphthalate EPA 8270 <10 ug/L CMG 01/05/2009 EPA 8270 <2.0 Fluorene ug/L CMG 01/05/2009 4-Chlorophenyl Phenyl Ether EPA 8270 <10 CMG ug/L 01/05/2009 4-Nitroaniline EPA 8270 <20 ug/L CMG 01/05/2009 n-Nitrosodiphenylamine EPA 8270 <10 ug/L CMG 01/05/2009 4-Bromophenyl Phenyl Ether EPA 8270 <10 CMG ug/L 01/05/2009 Hexachlorobenzene EPA 8270 <10 ug/L CMG 01/05/2009 Phenanthrene EPA 8270 <2.0 ug/L CMG 01/05/2009 ÉPA 8270 Anthracene <2.0 ua/L CMG 01/05/2009 Carbazole EPA 8270 <10 CMG ug/L 01/05/2009 di-n-Butylphthalate EPA 8270 <15 ug/L CMG 01/05/2009 <2.0 Fluoranthene EPA 8270 ug/L CMG 01/05/2009 Pyrene EPA 8270 <2.0 ug/L CMG 01/05/2009 Butylbenzylphthalate EPA 8270 <10 CMG ug/L 01/05/2009 Benzo [a] Anthracene EPA 8270 <2.0 CMG ug/L 01/05/2009 3,3'-Dichlorobenzidine EPA 8270 <20 CMG ug/L 01/05/2009 Chrysene EPA 8270 <2.0 ug/L CMG 01/05/2009 bis(2-Ethylhexyl)Phthalate EPA 8270 <10 ug/L CMG 01/05/2009 di-n-Octylphthalate EPA 8270 <10 CMG ug/L 01/05/2009 <2.0 Benzo (b) Fluoranthene EPA 8270 ug/L CMG 01/05/2009 Benzo [k] Fluoranthene EPA 8270 <2.0 ug/L CMG. 01/05/2009 Benzo [a] Pyrene EPA 8270 <2.0 ug/L CMG 01/05/2009 Indeno [1,2,3-cd] Pyrene EPA 8270 <2.0 CMG ug/L 01/05/2009 EPA 8270 Dibenzo [a,h] Anthracene <2.0 ug/L CMG 01/05/2009 Benzo [g,h,i] Perylene EPA 8270 <2.0 ug/L CMG 01/05/2009 Surrogates: EPA 8270 ***2-Fluorophenol EPA 8270 26.3 % R CMG 01/05/2009 ***Phenol-D8 EPA 8270 17.7 % R CMG 01/05/2009 ***Nitrobenzene-D5 EPA 8270 67.5 % R CMG. 01/05/2009 ***2-Fluorobiphenyl EPA 8270 66.4 % R CMG 01/05/2009 ***2,4,6-Tribromophenol EPA 8270 63.1 % R CMG 01/05/2009

Page 8 of 16

Sample No.:

001



Page 9 of 16

Sample No.:

001

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

Project Name.: Charbert UIC Closure Project No.: 03.0032795.26	Date Received: 01/02/2009 Date Reported: 01/09/2009 Work Order No.: 0901-00002	
-------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------	--

Sample (D: Lagoon 5 Sluceway

Sample Date: 12/30/2008

Analysis Test Performed Method Results Units Tech Date ***P-Terphenyl-D14 EPA 8270 64.1 % R CMG 01/05/2009 DF JMB 01/05/2009 EPA 3510C 1.0 Extraction LLZ PRIORITY POLLUTANT METALS 01/08/2009 EPA 6010B < 0.0050 mg/L LLZ 01/08/2009 Silver mg/L ίιz 01/08/2009 Arsenic EPA 6010B <0.010 Beryllium EPA 6010B < 0.0040 mg/L LĻŻ 01/08/2009 <0.0050 LLΖ 01/08/2009 Cadmium mg/L EPA 6010B LLZ Chromium EPA 6010B < 0.0050 mg/L 01/08/2009 LLZ Copper EPA 6010B 0.015 mg/L 01/08/2009 < 0.00040 TN 01/06/2009 Mercury EPA 7470A mg/L LLZ EPA 6010B < 0.010 mg/L -01/08/2009 Nickel LLZ 01/08/2009 Lead EPA 6010B < 0.010 mg/L LLZ < 0.025 01/08/2009 Antimony EPA 6010B mg/L LLZ Selenium EPA 6010B < 0.025 mg/L 01/08/2009 LLΖ Thallium EPA 6010B < 0.025 mg/L 01/08/2009 LLΖ Zinc EPA 6010B 0.059 mg/L 01/08/2009



Sample No.:

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002

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

Project Name .:	Charbert UIC Closure	Date Received:	01/02/2009 01/09/2009
Project No .:	03.0032795.26	Work Order No :	0901-00002
		WORK OTHER ING.	0301-00002

Sample ID: Lagoon 5 Shelf

Sample Date: 12/30/2008

Analysis Test Performed Method Results Units Tech Date VOLATILE ORGANICS EPA 8260 01/02/2009 MQS EPA 8260 <2.0 ug/L MQS 01/02/2009 Dichlorodifluoromethane EPA 8260 <2.0 ug/L MQS 01/02/2009 Chloromethane 01/02/2009 MQS EPA 8260 24 ug/L Vinyl Chloride Bromomethane EPA 8260 <2.0 ug/L MQS 01/02/2009 EPA 8260 MQS 01/02/2009 Chloroethane <1.0 ug/L Trichlorofluoromethane EPA 8260 <2.0 ug/L MQS 01/02/2009 < 5.0 MQS 01/02/2009 EPA 8260 ug/L Diethylether EPA 8260 <25 ug/L MQS 01/02/2009 Acetone MQS 1,1-Dichloroethene EPA 8260 <1.0 ug/L 01/02/2009 Dichloromethane EPA 8260 <2.0 ug/L MQS 01/02/2009 <1.0 MQS 01/02/2009 Methyl-Tert-Butyl-Ether EPA 8260 ug/L trans-1.2-Dichloroethene EPA 8260 3.3 ug/L MQS 01/02/2009 EPA 8260 <1.0 ug/L MQS 01/02/2009 1.1-Dichloroethane EPA 8260 <25 ug/L MOS 01/02/2009 2-Butanone 2,2-Dichloropropane EPA 8260 <1.0 ug/L MQS 01/02/2009 300 ug/L MQS 01/05/2009 cis-1,2-Dichloroethene EPA 8260 EPA 8260 <1.0 ug/L MQS 01/02/2009 Chloroform EPA 8260 MQS 01/02/2009 Bromochloromethane <1.0 ug/L ug/L. EPA 8260 <10 MQS 01/02/2009 Tetrahydrofuran 1,1,1-Trichloroethane EPA 8260 <1.0 ug/L MQS 01/02/2009 MQS 1,1-Dichloropropene EPA 8260 <1.0 ug/L 01/02/2009 EPA 8260 <1.0 MQS 01/02/2009 Carbon Tetrachloride ug/L 1.2-Dichloroethane EPA 8260 <1.0 ug/L MQS 01/02/2009 Benzene EPA 8260 <1.0 ug/L MQS 01/02/2009 EPA 8260 97 ug/L MQS 01/02/2009 Trichloroethene 1,2-Dichloropropane..... EPA 8260 .<1.0 ug/L -MQS-01/02/2009 EPA 8260 <1.0 MQS 01/02/2009 Bromodichloromethane ug/L EPA 8260 <1.0 ug/L MQS 01/02/2009 Dibromomethane <25 MQS 01/02/2009 4-Methyl-2-Pentanone EPA 8260 ug/L ug/L cis-1,3-Dichloropropene EPA 8260 <1.0 MQS 01/02/2009 Toluene EPA 8260 <1.0 ug/L MQS 01/02/2009 EPA 8260 <2.0 ug/L MQS 01/02/2009 trans-1,3-Dichloropropene <1.0 MQS 01/02/2009 1.1.2-Trichloroethane EPA 8260 ug/L EPA 8260 <25 MQS 01/02/2009 2-Hexanone ug/L 1.3-Dichloropropane EPA 8260 <1.0 ug/L MQS 01/02/2009 940 MQS 01/05/2009 Tetrachloroethene EPA 8260 ug/L



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway, Providence, RI 02903

Todd Greene				· · · · · · · · · · · · · · · · · · ·
Decision () (Date Received:	01/02/2009	
Project Name.:		Date Reported:	01/09/2009	
Project No.:	03.0032795.26	Work Order No.:	0901-00002	

Sample ID: Lagoon 5 Shelf

Sample Date: 12/30/2008

Analysis Results Units Tech Test Performed Method Date EPA 8260 <1.0 MQS 01/02/2009 Dibromochloromethane ug/L 1,2-Dibromoethane (EDB) EPA 8260 <2.0 ug/L MQS 01/02/2009 Chlorobenzene EPA 8260 <1.0 ug/L MQS 01/02/2009 EPA 8260 <1.0 MQS 1,1,1,2-Tetrachloroethane ug/L 01/02/2009 <1.0 EPA 8260 ug/L MQS 01/02/2009 Ethylbenzene EPA 8260 m&p-Xylene <2.0 ug/L MOS 01/02/2009 EPA 8260 <1.0 MQS o-Xylene ug/L 01/02/2009 Styrene EPA 8260 <1.0 ug/L MQS 01/02/2009 EPA 8260 <2.0 ug/L MQS 01/02/2009 Bromoform 01/02/2009 EPA 8260 <1.0 ug/L MQS Isopropylbenzene MQS 1,1,2,2-Tetrachloroethane EPA 8260 <1.0 ug/L 01/02/2009 EPA 8260 <1.0 ug/L MQS 01/02/2009 1,2,3-Trichloropropane Bromobenzene EPA 8260 <1.0 ug/L MQS 01/02/2009 EPA 8260 <1.0 ug/L MQS 01/02/2009 N-Propylbenzene EPA 8260 <1.0 ug/L MQS 01/02/2009 2-Chiorotoluene MQS EPA 8260 <1.0 ug/L 01/02/2009 1.3.5-Trimethylbenzene EPA 8260 <1.0 ug/L MQS 01/02/2009 4-Chlorotoluene <1.0 MQS tert-Butylbenzene EPA 8260 ug/L 01/02/2009 1.2.4-Trimethylbenzene EPA 8260 <1.0 ug/L MQS 01/02/2009 EPA 8260 <1.0 MQS ug/L 01/02/2009 sec-Butylbenzene EPA 8260 MQS p-Isopropyltoluene <1.0 ug/L 01/02/2009 EPA 8260 <1.0 MQS 01/02/2009 1,3-Dichlorobenzene ug/L EPA 8260 <1.0 ug/L MQS 01/02/2009 1,4-Dichlorobenzene n-Butylbenzene EPA 8260 <1.0 ug/L MQS 01/02/2009 EPA 8260 <1.0 MQS 1.2-Dichlorobenzene ug/L 01/02/2009 1,2-Dibromo-3-Chloropropane EPA 8260 < 5.0 ug/L MQS 01/02/2009 <1.0. -ug/L---MQS-1,2,4-Trichlorobenzene EPA 8260 01/02/2009-EPA 8260 MQS Hexachlorobutadiene <1.0 ug/L 01/02/2009 EPA 8260 <2.0 MQS Naphthalene ug/L 01/02/2009 EPA 8260 <1.0 ug/L MQS 01/02/2009 1,2,3-Trichlorobenzene Surrogates: EPA 8260 ***1,2-Dichloroethane-D4 94.3 % R MQS EPA 8260 01/02/2009 % R ***Toluene-D8 EPA 8260 102 MQS 01/02/2009 ***4-Bromofluorobenzene EPA 8260 105 % R MQS 01/02/2009 EPA 5030B CF MQS 01/02/2009 Preparation 1.0 CMG SEMI-VOLATILE ORGANICS EPA 8270 01/05/2009 ACID FRACTION: EPA 8270

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Sample No.:

002



Sample No.:

002

14.1

Analysis

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

Project Name.: Charbert UIC Closure Project No.: 03.0032795.26	Date Received: Date Reported: Work Order No.:	01/02/2009 01/09/2009 0901-00002	
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Sample ID: Lagoon 5 Shelf

Sample Date: 12/30/2008

Results Units Test Performed Method Tech Date EPA 8270 <10 CMG 01/05/2009 Phenoi ug/L 2-Chlorophenol EPA 8270 <10 ug/L CMG 01/05/2009 <10 CMG EPA 8270 ug/L 01/05/2009 2-Methylphenol EPA 8270 <10 CMG 01/05/2009 3&4-Methylphenol ug/L EPA 8270 <10 ug/L CMG 01/05/2009 2-Nitrophenol CMG 01/05/2009 2,4-Dimethylphenol EPA 8270 <10 ug/L CMG EPA 8270 <10 ug/L 01/05/2009 Benzoic Acid CMG 2,4-Dichlorophenol EPA 8270 <10 ug/L 01/05/2009 4-Chloro-3-Methylphenol EPA 8270 <20 CMG ug/L 01/05/2009 2,4;6-Trichlorophenol EPA 8270 <10 CMG 01/05/2009 ug/L EPA 8270 2,4,5-Trichlorophenol <10 CMG 01/05/2009 ug/L EPA 8270 <100 CMG 2,4-Dinitrophenol ug/L 01/05/2009 4-Nitrophenol EPA 8270 <50 CMG 01/05/2009 ug/L 4,6-Dinitro-2-Methylphenol CMG EPA 8270 <50 ug/L 01/05/2009 Pentachloropheno1 EPA 8270 <50 ug/L CMG 01/05/2009 BASE-NEUTRAL FRACTION: EPA 8270 <10 CMG 01/05/2009 n-Nitrosodimethylamine ug/L EPA 8270 CMG bis(2-Chloroethyl)Ether <10 ug/L 01/05/2009 EPA 8270 CMG 1,3-Dichlorobenzene <10 ug/L 01/05/2009 1,4-Dichlorobenzene EPA 8270 <10 ug/L CMG 01/05/2009 Benzyl Alcohol EPA 8270 <20 ug/L CMG 01/05/2009 EPA 8270 CMG 1.2-Dichlorobenzene <10 ug/L 01/05/2009 bis(2-Chloroisopropyl)Ether EPA 8270 <10 CMG ug/L 01/05/2009 n-Nitrosodi-n-Propylamine EPA 8270 <10 ug/L CMG 01/05/2009 EPA 8270 <10 CMG **Hexachloroethane** ug/L 01/05/2009 Nitrobenzene EPA 8270 <10 ug/L CMG 01/05/2009 -<10--CMG Isophorone EPA 8270 ug/L -01/05/2009 CMG bis(2-Chloroethoxy)Methane EPA 8270 <10 ug/L 01/05/2009 CMG 1,2,4-Trichlorobenzene EPA 8270 <10 ug/L 01/05/2009 Naphthalene EPA 8270 <2.0 ug/L CMG 01/05/2009 4-Chloroaniline EPA 8270 <20 ug/L CMG 01/05/2009 EPA 8270 <10 CMG Hexachlorobutadiene ug/L 01/05/2009 2-Methylnaphthalene EPA 8270 <2.0 ug/L CMG 01/05/2009 Hexachlorocyclopentadiene EPA 8270 <50 ug/L CMG 01/05/2009 2-Chloronaphthalene EPA 8270 <10 ug/L CMG 01/05/2009 2-Nitroaniline EPA 8270 <50 CMG ug/L 01/05/2009 **Dimethylphthalate** EPA 8270 <10 CMG 01/05/2009 ug/L



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Sample No.: 002

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.							
140 Broadway							
Providence, RI	02903						

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Project Name.:	Charbert UIC Closure	Date Received:	01/02/2009
Project No.:	03.0032795.26	Date Reported:	01/09/2009
Project No.:	03.0032793.26	Work Order No.:	0901-00002

Sample ID: Lagoon 5 Shelf

Sample Date:

12/30/2008

f. Test Performed	Method	Results	Units	Tech	Analysis Date
Acenaphthylene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
2,6-Dinitrotoluene	EPA 8270	<10	ug/L	CMG	01/05/2009
3-Nitroaniline	EPA 8270	<50	ug/L	CMG	01/05/2009
Acenaphthene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Dibenzofuran	EPA 8270	<10	ug/L	CMG	01/05/2009
2,4-Dinitrotoluene	EPA 8270	<10	ug/L	CMG	01/05/2009
Diethylphthalate	EPA 8270	<10	ug/L	CMG	01/05/2009
Fluorene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
4-Chlorophenyl Phenyl Ether	EPA 8270	<10	ug/L	CMG	01/05/2009
4-Nitroaniline	EPA 8270	<20	ug/L	CMG	01/05/2009
n-Nitrosodiphenylamine	EPA 8270	<10	ug/L	CMG	01/05/2009
4-Bromophenyl Phenyl Ether	EPA 8270	<10	ນg/L	CMG	01/05/2009
Hexachlorobenzene	EPA 8270	<10	ug/L	CMG	01/05/2009
Phenanthrene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Anthracene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Carbazole	EPA 8270	<10	ug/L	CMG	01/05/2009
di-n-Butylphthalate	EPA 8270	<15	· ug/L	CMG	01/05/2009
Fluoranthene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Pyrene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Butylbenzylphthalate	EPA 8270	<10	ua/L	CMG	01/05/2009
Benzo [a] Anthracene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
3,3'-Dichlorobenzidine	EPA 8270	<20	ug/L	CMG	01/05/2009
Chrysene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
bis(2-Ethylhexyl)Phthalate	EPA 8270	<10	ug/L	CMG	01/05/2009
di-n-Octylphthalate	EPA 8270	<10	ug/L	CMG	01/05/2009
Benzo [b] Fluoranthene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Benzo (k) Fluoranthene	EPA 8270_	<2.0	ug/L	CMG	01/05/2009
Benzo (a) Pyrene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Indeno [1,2,3-cd] Pyrene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Dibenzo [a,h] Anthracene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Benzo [g,h,i] Perylene	EPA 8270	<2.0	ug/L	CMG	01/05/2009
Surrogates:	EPA 8270		Ū		
***2-Fluorophenol	EPA 8270	25,1	% R	CMG	01/05/2009
***Phenol-D6	EPA 8270	16.6	% R	CMG	01/05/2009
***Nitrobenzene-D5	EPA 8270	67.2	% R	CMG	01/05/2009
***2-Fluorobiphenyl	EPA 8270	70.2	% R	CMG	01/05/2009
***2,4,6-Tribromophenol	EPA 8270	67.9	% R	CMG	01/05/2009



Sample No .:

002

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

Project Name.: Project No.:	Charbert UIC Closure 03.0032795.26	Date Received: Date Reported: Work Order No.:	01/02/2009 01/09/2009 0901-00002	• .	n fail
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Sample ID: Lagoon 5 Shelf

Sample Date: 12/30/2008

Analysis Test Performed Method Results Units Tech Date ***P-Terphenyl-D14 EPA 8270 66.8 % R CMG 01/05/2009 EPA 3510C 1.0 DF JMB. 01/05/2009 Extraction RJD TOTAL PETROLEUM HYDROCARBON Mod. EPA 8100 01/06/2009 Hydrocarbon Content 270 RJD 01/06/2009 ug/L Surrogate: ***p-Terphenyl 80.8 % R RJD 01/06/2009 DF JMB Extraction EPA 3510C 1,0 01/06/2009 PRIORITY POLLUTANT METALS LLZ 01/08/2009 LLZ Silver EPA 6010B < 0.0050 mg/L 01/08/2009 LLΖ Arsenic EPA 6010B <0.010 mg/L 01/08/2009 LLZ Bervllium EPA 6010B < 0.0040 mg/L 01/08/2009 Cadmium EPA 6010B < 0.0050 mg/L LLZ 01/08/2009 LLZ Chromium EPA 6010B < 0.0050 mg/L 01/08/2009 Copper EPA 6010B < 0.015 mg/L LLZ 01/08/2009 Mercury EPA 7470A < 0.00040 mg/L TN 01/06/2009 < 0.010 mg/L LLZ 01/08/2009 Nickel EPA 6010B Lead EPA 6010B < 0.010 mg/L LLZ 01/08/2009 LLZ < 0.025 01/08/2009 Antimony EPA 6010B mg/L Selenium EPA 6010B < 0.025 mg/L LLZ 01/08/2009 Thallium < 0.025 mg/L LLΖ 01/08/2009 EPA 6010B mg/L EPA 6010B 0.069 LLZ 01/08/2009 Zinc

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Sample No .:

003

Analysis

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

Project Name.: Charbert UIC Closure Project No.: 03.0032795.26	Date Received: Date Reported: Work Order No.:	01/02/2009 01/09/2009 0901-00002	
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Sample 1D: Trip Blank

Sample Date: 12/30/2008

Method Results Units Tech Test Performed Date VOLATILE ORGANICS 01/02/2009 EPA 8260 MQS EPA 8260 <2.0 MQS 01/02/2009 Dichlorodifluoromethane ug/L Chloromethane EPA 8260 <2.0 ug/L MQS 01/02/2009 EPA 8260 <1.0 ug/L MQS 01/02/2009 Vinyl Chloride Bromomethane EPA 8260 <2.0 ug/L MQS 01/02/2009 MQS EPA 8260 <1.0 ug/L 01/02/2009 Chloroethane Trichlorofluoromethane EPA 8260 <2.0 ug/L MQS 01/02/2009 Diethylether EPA 8260 <5.0 ug/L MQS 01/02/2009 Acetone EPA 8260 <25 ug/L MQS 01/02/2009 <1.0 MQS 1,1-Dichloroethene EPA 8260 ug/L 01/02/2009 Dichloromethane EPA 8260 <2.0 ug/L MQS 01/02/2009 EPA 8260 <1.0 MQS Methyl-Tert-Butyl-Ether ug/L 01/02/2009 trans-1,2-Dichloroethene EPA 8260 <1.0 ug/L MOS 01/02/2009 1,1-Dichloroethane EPA 8260 <1.0 ug/L MQS 01/02/2009 <25 ug/L MQS 01/02/2009 2-Butanone EPA 8260 2,2-Dichioropropane EPA 8260 <1.0 ug/L MQS 01/02/2009 EPA 8260 <1.0 MQS 01/02/2009 cis-1,2-Dichloroethene ug/L Chloroform EPA 8260 < 1.0ug/L MOS 01/02/2009 MQS Bromochloromethane EPA 8260 <1.0 ug/L 01/02/2009 EPA 8260 <10 ug/L MQS 01/02/2009 Tetrahydrofuran MQS EPA 8260 <1.0 ug/L 01/02/2009 1,1,1-Trichloroethane EPA 8260 <1.0 ug/L MQS 1,1-Dichloropropene 01/02/2009 Carbon Tetrachloride EPA 8260 <1.0 ug/L MQS 01/02/2009 1.2-Dichloroethane EPA 8260 <1.0 ug/L MQS 01/02/2009 <1.0 MQS Benzene EPA 8260 ug/L 01/02/2009 EPA 8260 <1.0 MQS 01/02/2009 Trichloroethene ug/L EPA 8260 <1.0 ua/L MQS 01/02/2009 1.2-Dichloropropane Bromodichloromethane EPA 8260 <1.0 ug/L MQS 01/02/2009 Dibromomethane EPA 8260 <1.0 ug/L MQS 01/02/2009 <25 4-Methyl-2-Pentanone EPA 8260 MQS 01/02/2009 ug/L cis-1,3-Dichloropropene EPA 8260 <1.0 ug/L MQS 01/02/2009 Toluene EPA 8260 <1.0 ug/L MQS 01/02/2009 trans-1,3-Dichloropropene EPA 8260 <2.0 ug/L MQS 01/02/2009 1.1.2-Trichloroethane EPA 8260 <1.0 ug/L MQS 01/02/2009 <25 MQS 2-Hexanone EPA 8260 ug/L 01/02/2009 1.3-Dichloropropane EPA 8260 <1.0 ug/L MQS 01/02/2009 Tetrachloroethene MQS EPA 8260 <1.0 ug/L 01/02/2009



Todd Greene

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

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Sample No.: 003

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Project Name.: Project No.:	Charbert UIC Closure 03.0032795.26	Date Received: Date Reported: Work Order No.:	01/02/2009 01/09/2009 0901-00002
Project No.:	03.0032795.26	Work Order No.:	0901-00

Sample ID: Trip Blank

Sample Date: 12/30/2008

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibramachleramathana	EDA 9260			MOS	01/02/2000
1.2 Dibromochlono (EDB)	EPA 0200	<1.0	ug/t	MOS	01/02/2009
Chlerobergena	EFA 0200	<1.0	ug/L	MOS	01/02/2009
	EFA 0200	<1.0	ugru	MOS	01/02/2009
	EPA 0200	<1.0	ug/L	MOS	01/02/2009
	EFA 0200	<1.0	ug/L	MOS	01/02/2009
map-Ayene	EFA 020V	<2.0	ug/L	MQS	01/02/2009
o-Aylene	EPA 8200	<1.0	ug/L	MQS	01/02/2009
Styrene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Bromotorm	EPA 8260	<2.0	ug/L	MQS	01/02/2009
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQŞ	01/02/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
1.2-Dichlorobenzene	EPA 8260	<1.0	ษฐ/L	MQS	01/02/2009
1.2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	01/02/2009
1.2.4-Trichlorobenzene	EPA 8260	<1.0	uaA	MQS	01/02/2009
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	01/02/2009
Naphthalene	EPA 8260	<2.0	ua/L	MQS	01/02/2009
1 2 3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MOS	01/02/2009
Surrogates:	EPA 8260		+a-		
***1 2-Dichloroethape-D4	EPA 8260	97.5	% R	MOS	01/02/2009
***Toluene-D8	EPA 8260	104	% R	MOS	01/02/2009
***4-Bromofluorobenzene	EPA 8260	103	% R	MOS	01/02/2009
Preparation	EPA 5030B	1.0	CF	MQS	01/02/2009

GZA GeoEnvironmental, Inc. 100 South Street Hopkinton, MA 01748

EPA Method 8200 / 524.2 Aqueoue Method Blank (MB) and Laboratory Control Sample/Duplicate (LCS/LCSD) Data

Method Blank			Laboratory Control Sample				Laboratory Co	introl Sampla Ouplier	ita i			
Date Assiyzed:	1/3/2006		Date Analyzed:	1/2/2008			1/2/2009					
Volstile Organica	Conc. ug/L	Acceptance Limit	Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict	% Recovery	Acceptance Limits	Vardici	RP0	Lind	Verdict
(h(ntopodintationst)tane	< 1.0	< 10 < 10	objorn.co.clinucionalitane objorn.co.clinucion	114	70-130	06 07	121	70-130	OK OK	3.27	<26 <26	ok ok
vinyl chioride	< 0.6	< 0.5	vinyl chioride	104	80-120	04	110	70-130	Qk	5.17	<25	ok
erarthomoment	1.0	* 1.0	bromomethane	100	70-130	ok	107	70-130	ok	0.42	<25	ok
chiorosthans Lichiorofonomonalbace	< 0.5	< 0.5 < 10	enserver and a second sec	102	70-130	ok ofr	106	70-130	ot ch	6.70	~25	ok
diathyl strue:	< 2.5	< 2,5	diathyl ather	99.4	70-130	ek.	104	70-130	c.k	4.03	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ok
applone	< 13	< 13	écoloino	102	70-130	DK.	100	70-130	cak,	5,98	1	pix
1,1-dichiozoothono	< 0,5	< 0.5	1,1-dichioroethens	102	60-120	ok	109	70-130	ok,	6.36	<25	ok
lodomethere	< 0.6	< 0.5	iodomaticans	93.4	70-130	ok.	99.3	70-130	DR.	0.00	<	oK ek
carbon disulfide	< 5.0	< 5.0	cathon dautho	113	70-130	ok	110	70-130	ok	5,53	<26	ok
dichteromathane	* 5.0	4 1.0	dichtoriometharm	97.1	70-130	ude Lucit	104	70-130	ok	D. 80	<25	<u>ak</u>
tert-outyl ascenor (TEX.)	< 0.5	< 13 < 0.5	enviontrile	130	70-130	ok	131	70-130	04.0	4.22	<25	OK OK
mathyl-last-butyl-aliser	< 0.5	< 0,6	mothyl-text-butyl-sther	105	70-130	ok	112	70-130	ok	8.52	<25	ok.
Inins-1,2-dichoroethana	× 0.5	< 0.5	trave-1,2-diohioroethono	89.9	70-130	ok	108	70-130	ok	7.64	<25	ok
discretent after (DPF)	< 1.0	< 0,5 < 1.5	1,1-acteorogutane di-isocrogyl ether (DIPE)	95.8	70-130	OK Dik	100	20-130	ok ok	5.07 4.00	<	ok ok
sthyl lot-buly other (EtBE)	< 1.0	< 1.0	athyl tart-butyl ether (EtBE)	99.7	70-130	ok	104	70-130	ok .	7.61	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ck
vinyi acatata	< 13	4 13	vinyi acotate	88.4	70-130	oK.	90.4	70-130	¢K.	2.25	<25	ok
	< 13	< 13	2-butenone 1 2-distances	124	70-130	ok ek	138	70-130	out	9.27	\$26	QK
ch-1,2-dichicroothere	< 0.5	< 0.5	cist 1.2-dioteoroothena	97.0	70-130	ok	105	70-130	DHK DHK	7,81	<26	OK
ahioroform	< 0.5	< 0.5	motorida	60.2	60-120	ok	98.6	70-130	Diff.	6.61	-25	ak.
bro-mochiosomethane	< 0.5	< 0.5	bromochloromethere	Q6.6	70-130	ok	103	70-130	DÁK	7.49	<26	ok
1.1.1-trictionosthere	* 0.0 * 0.6	< 0.0	1.1.1.1.trictionethane	511	70-130	- 04 - 04	127	70-130	OK	7.34	*22 *25	DE OF
1,1-dichioropropane	< 0.6	< 0.5	1,1-dichiorepropene	91.6	70-130	ok	98.5	70-130	ok	7.22	<25	ok
carbon latrschiorida	< 0.5	< 0.6	cerbon-tetrschloride	65. 0	70-130	ok	102	70-130	ok	7.63	<26	ok
1,2-dictionorationo	< 0,5 < 0,5	< 0.5 < 0.5	1,2-00070907040708340	91,5	70-130	ok ak	98.5	70-130	OR.	7.31	<25	ok
tort-amyl methyl other (TAME)	4 1,0	< 1.0	tert-amyl methyl other (TAME)	104	70-130	ok	110	70-130	ok	6.59	<25	ok
trictvioroethana	< 0.5	< 0.5	trichtoroothene	97.6	70-130	DK.	105	70-130	0k	7.45	<25	ok
1,2-diahioropropense	< 0.5	< 0.5	1.2-dichloropropans	92.0	80-120	ok k	98.4	70-130	ok -r	8.07	\$ 25	ok
1.4-Dioxane	< 50	< 60	1.4-Diaxano	90.6	70-130	DK.	109	70-130	ok.	18.8	<26 <26	ok olt
of bromomothene	< 0,5	4 0.5	dibromonotinen	99.2	70-130	DK.	107	70-130	ok	7.05	<25	ok
4-methyl-2-porteriona	< 13	< 13	4-methyl-2-perilanona	112	70-130	eX.	125	70-130	odi,	11.8	<25	ok
toluene	< 0.6	< 0.5	louene	Q7,3 Q1,7	80-120	ok. pk	140	70-130	ok ok	7.13	<20 625	OK.
trans-1,3-dichloropropene	* 1.0	< 1.0	trans-1,3-dictioropropene	D1.7	70-130	•K	99.9	70-130	ok	8,59	<25	ØN.
1,1,2-trichioroethana	< 0.6	< 0.5	1,1,2-trichlorosthane	103	70-130	ok	107	70-130	ok	3.90	*25	ok
2-hozonone 1.3-dichiooteropene	* 13	< 13 < 05	2-NexeMone 1 3-dichomomoane	115	70-130	ak	127	70-130	ok ok	10,4	<25 <25	ok
teirachtoroethene	< 0.5	< 0.5	tetrachlorgethene	104	70-130	ak	\$10	70-130	ok	5.28	<25	DÅL
dipromocricoromethane	< 0.5	< 0.5	dibromochioromethane	103	70-130	ak	1 10	70-130	ok	6.14	<25	ok
1,2-dibromoethano (EDB)	< 10 ▲ 05	< 1,6 4 DD	1,2-dBromoethene (EDB)	103	70-130	ok ok	106	70-130	ok ok	5.45	<25	ok
1.1,1.2 tetrachiorosthane	< 0.5	< 0.5	1,1,1,2-tetrachioroetheno	102	70-130	cik.	108	70-130	ok	5.96	25	ok
elity/becases	< 0.5	< 0.5	ritybungene	105	90-120	cik 🛛	110	70-130	ok	4.83	*25	ek
1,1,2,24 dirachorodhane	< 0.5	◆ 0.6	F. 1, Z, 2-tetrachioroethene	100,0	70-130	CÁL.	109	70-130	04	8.43	<25	ck
0-XVIONE	< 0.5	< 0.5	cruck- system	92.1	70-130	OK DX	P7.5	70-130	ok ok	5.00	~23 (26	ok ok
Nymno	< 0.5	< 0.5	dyrene	109	70-130	oix	116	70-130	ok	5,78	<26	DK
bromotorm	< 1.0	< 1.0	bromoform	97.2	70-130	ok	106	70-130	ak	9.01	<25	ok.
1.2.3-frichio/concento	< 0.6	< 0.5	1.2.3-bichloroproene	114	70-130	DHK DHK	120	70-130	CK CK	8.02	<25	rait;
bromobenzana	* 0.5	< 0.5	bromobonzene	69.8	70-130	ok	108	70-130	ok	6.48	<25	ok.
n-propybonzeno	4 0.6	- 0,5	n-propylanizano	69.6	70-130	ok	106	70-130	ok	6.05	<25	cat.
1.3 5-frimath/ben/htm	< 0.6	< 0,5 ≼ 0,5	2-chibrosoluona 1.3.6-trimativelpenzane	102	70-130	OK OK	92.6	70-130	ok ok	5.64	<25	ok
trans-1,4-dictvoro-2-buterse	× 1,0	< 1.D	Inens-1, 4-diohioro-2-butena	93.2	70-130	ok	101	70-130	oát	6.51	<25	ck
4-chibroto kana	< 0.6	< 0.5	eneulorondido->	94.2	70-130	ok	101	70-130	ok	6.77	<25	ak
12 Automativenergene	< 0.5	< 0.5 < 0.5	Con-OLEY-Derizone	119	70-130	ok ok	126	70-130	0k ^*	5.78	<25	ok
soo-bayi-benzara	< 0.5	< 0.5	sec-butyl-benzene	98.7	70-130	çir	104	70-130	ok	5.07	<25	ok
p-isopropytoiuene	< 0.5	< 0.6 ×	p-isopropytickiene	101	70-130	ok.	107	70-130	ok	5.7a	<25	DK.
1, 3-dishiorobanasa	< 0.5 c 0.5	< 0.5	1,3-dichlorobergene	93.9	70-130	ek	100	70-130	ok	0.78	<25	ok
n-butylbertzane	< 0.5	< 0.5	C-pritylpanzane	94.1	70-130	ok	99.6	70-130	ok ok	5.07	<25	0K ek
1,2-dictelorobenzene	< 0.5	< 0.5	1,2-dichlorobenzone	92.1	70-130	ok	98.6	70-130	ok	8.96	<25	ok
1,2-dibromo-3-chioropropane	* 2.5	< 2.5	1,2-dibromo-3-ottoropropane	87.1	70-130	ot	97.2	70-130	ok	10.9	<26	ok
hexectionobalacione	< 0.6	< 0.5	horachiorobenzena	104	70-130	CHK CHK	104	70-130	o≮	7.56	<25	ok ok
hiphihilione	4 10	< 1.0	naphthelene	95.0	70-130	ok	110	70-130	ok	14.2	<25	ak
1.2, 3-trichtorybenzone	< 0.5	< 0,5	1,2,3-Irichioroborg.one	<u>98.0</u>	70,130	0)K	105	79-130	ok	9,31	<25	QK.
Surrogates:	Recovery (M)	Approximate Limite	Sumoasiaa:	Recovery (%)	Acceptance Limite	Verdief	Recovery (%)	Ácceptación (imPet	/arrii-t	RPD	Limit	Variat
DIBROMOFLUOROMETHANE	08.0	70-130	DIBROMOFLUOROMETHANE	P7.0	70-130	0 ¹ K	98.8	70-130	ok	0.96	<25	ck
1.2-OICHLOROETHANE-DA	89,4	70-130	1.2-DICHLOROETHANE-D4	108	70-130	ok	108	70-130	OE	0.33	425	ck
4-BROMOFLUOROSENZENE	102	/0-130	4-BROMOFLUOROBENZENE	103	70-130	OK OK	105	70-130	o-K o-k	5.33	<25 (25	cit cit
1,2-DICHLOROBENZENE-D4	97.9	70-130	1,2-DICHLOROBENZENE-04	QQ 7	70-130	ok	102	70-130	olk	1.79	<25	CK

GZA GeoEnvironmentet, inc. 108 South Street Hopkinson, MA 01748

EPA Method 8200 / 524.2 Aqueous Mothod Black (M6) and Laboratory Control Sampla/Dupficate (LCS/LCSD) Data

Nethod Blank			Laboratory Control Sample		Laboratory Control Sample Duplicate							
Date Analyzed:	1/5/2000		Date Analyzed:	1/5/2009			1/6/2009					
Volatile Organica dictionalific promotion an	Conc. ug/L	Acceptance Limit	Spike Concentration = 20ug/L	% Recovery	Acceptance Limita	Verdict	% Recovery	Asseptance Limita	Verdici	RPO	Limb	Verdict
chioromethese	< 10	4 1.0	chloromethane	111	70-130	olt	112	70-130	ok	1 10	<26	OK OK
vinyi chloride	< 0.S	< 0.5	vinyi chioride	112	80-120	ok	114	70-130	ok	1.72	<26	ok
oremomethene	< 1.0	< 1.0	bromomethane	109	70-130	ok.	108	70-130	ok	1.60	<26	¢K.
Chiorochane Mohistefi stantalistor	< 0.5	< 0.5	Chipro-structure Mathematikan	109	70-130	CK.	107	70-130	ok	0.80	<25	ok
chectrol acher	4 2.5	< 2.5	distiwi other	99.2	70-130	ok.	104	70-130	ak	2.91 5.13	<20	OK OK
ncetorie	< 13	< 13	ecelona	103	70-130	ok	108	70-130	ak	4,91	<25	ok
I, 1-dichiorec(meno	< 0.5	< 0.5	1,)-dichiorsothere	100	80-120	ok	109	70-130	ok	2.07	<25	ok
FREON \$13	< 1.0 - 5.5	< 1.0	FREON-113	114	70-130	C.R.	118	70-130	ok	3.44	<26	ok
centron disultide	< 5.0	< 5.0	carbon daulfde	117	70-130	ok.	121	70-130	ok	3.77	<25	OK OK
dichloromethane	< 1.0	< 1.0	dichicromethane	97.7	70-130	ek.	102	70-130	ok	4.56	<26	ok
(ABT) Icriada Noted	* 15	< 13	tert-butyl alcohol (TBA)	134	70-130	out	132	70-130	out	1 95	<25	ok
acrytonitile	< 0.5	< 0.6	ecrylanizita	95.7	70-130	ok	88.1	70-130	ok	0.00	<25	cik.
many-tan-cutyt-kner trans-1.2-dictionositeste	< 0.5 < 0.5	< 0.5 < 0.5	memy-ton-bury-enor	104	70-130	CIE CIE	10	70-130	OK	0,47	<28	DK
1, 1-dichloroetharse	< 0.8	< 0.5	1,1-dichioroothane	94,5	70-130	ak	99.2	70-130	ok	5.03	<25	CK CK
di-leopropyl ather (DIPE)	< 1.0	< 1.0	di-teopropyl other (OIPE)	64.6	70-130	QK	97.8	70-130	ok	3.37	<25	ok
athyl terl-butyl sther (EtBE)	< 1.0	< 1,0	ethyl borl-butyl ethor (Et6E)	8.89	70-130	ole .	106	70-130	ok	6.87	<25	ek,
Veryl acelete	< 13	< 13	Veryl acclate	67.9	70-130	ok	91.7	70-130	o-k	4.23	<25	ok .
2 7-cichioromaene	< 0.5	< 0.5	2-but none 2 7-dichioronropene	122	70-130	ok ok	100	70-130	out	0.90	~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0%. 0%
ca-1,2-dichioro-elbene	< 0.5	< 0.5	cis-1,2-dichioroethene	86.9	70-130	0k	104	70-130	ok	4.09	<25	ok.
chioraform	< 0.5	< 0.5	chioroform	90.1	60-120	ck	95.2	70-130	ok	5.68	<25	ok.
bramochionomethane	< 0.5	< 0.6	bromochloromethene	96.0	70-130	cit	103	70-130	ok	8.71	<25	ak
	* 5.0	* 5.0	letrallydrofuran	98.0	70-130	or k	115	70-130	OK.	15.5	32	ak
1,1,1,1-LILLING(SULTER)	1 05	< 0.5	1.1. Tehenoreaners	02.7	70-130	official and a state of the sta	90.0	70-130	04	4,13	<20 - 25	CR.
carbon setrachio ricle	< 0.5	< 0.5	carbon febrachioride	90.8	70-130	ok	102	70-130	ox.	4.97	<25	ck
1,2-dionionositheme	< 0.5	< 0.5	1,2-dictionostheme	89.3	70-130	ok	90.3	70-130	ok.	7.54	<25	cik
benzene	< 0.5	< 0.5	benzone	95.0	70-130	ok	100	70-130	ok:	4.64	<25	ok
tert-anyi mathyl ether (TAME)	4 1,0	< 1.0	tort-armyl methyl acher (TAME)	103	70-130	ok	109	70-130	ok.	5.B2	<25	ok
1.2-dictionary and	< 0.5	< 0.5	1.2-debaropropena	100	AD-120	ok ok	105	70-130	ok ok	5.14	<20 c25	CK Ok
bramatichiors methere	< 0.5	< 0.5	brombdichioromethane	91.4	70-130	ok	98.4	70-130	ők.	5.31	<25	ak
1,4-Oicozano	< 50	< 60	1,4-Dioxege	91.7	70-130	ok	98.6	70-130	ok.	7.12	<25	çık
dibromomethene	• 0.5	- 0,5	erectionendate	99.0	70-130	ok	108	70-150	ok	8,29	<25	ok
4-methyl-2-portshone	< 13 - 05	< 13	4-mathyl-2-pontanona	110	70-130	ok	123	70-130	ok.	10.9	<25	air
toluana	< 0.5	< 0.5 < 0.5	tobueno	93.0	80-120	ok	97.7	70-130	OK.	4.08	<25	OK.
trans-1,3-dichioropropena	< 10	< 1.0	trens-1,3-dichiaropropene	91.5	70-130	pie	97.5	70-130	ok.	0.36	<25	ok
1, 1, 2-trichtoroetrane	× 0.5	× 0.5	1,1,2-bichoroethene	96.5	70-130	ok	104	70-130	ok	7.58	<25	ok
2-hexanona	< 18	< 13	2-haterone	109	70-130	ok	124	70-130	ok	12.8	<25	ok
1,3-OKTEDPOPOPOP	< 0.5 c 0.5	< 0.5	1,3-dichoropropane	92,4	70-130	OK ok	99,7	70-130	0%	7.87	<25	OK
dibromochionmethane	4 0.5	< 0.5	dibromotheremethene	102	70-130	Dik Dik	110	70-130	ok	9.55	-26	CAL CAL
1,2-dibromochane (EDB)	< 1.0	< 1.0	1,2-dibromoethane (EDB)	95.9	70-130	ok	109	70-130	OK.	8.22	<25	ali
chiorobenzede	< 0.5	< 0.5	chincobercoarte	101	70-130	ok	108	70-130	olk	0.88	<25	ok
1, 1, 1,2-tetrachiorowthene	< 0.5	< 0.5	1,1,1,2-tetractionoethane	100	70-130	Châil	107	70-130	ok.	6.40	<25	ok
1.1.2.2. Metrachiomethene	 ■ 0.5 ■ 0.6 	< 0.5 < 0.5	1 1 2 Stotechonethero	105	80-120	OK Dir	111	70-130	OK AF	10.7	<25 - 25	OK.
må.p-zylene	< 1.0	* 1.0	m&p-xylene	97.3	70-130	ok	103	70-130	a	5.88	<28	OK
o-xylone	< 9.5	< 0,5	o-xylone	91.0	70-130	ok	99.1	70-130	ok	4.81	<25	ek
etyrano	< 0.5	< 0.5	Flyreing	109	70-130	ok	115	70-130	ok	4.75	<25	ok
bramoform	4 10	1.0	bromoform	95.5	70-130	ceix	104	70-130	ok	6.70	-26	c.k
1.2. 3-trichlare-propana	< 0.5	< 0.5	1.2.3-http://actional	943	70-130	ox ok	108	70-130	DRL DRL	■.au ₽.20		OK OK
bromoberczerte	< 0.5	< 0,5	bromoborizone	98.7	70-130	sk	106	70-130	ok.	0.37	<25	Dir.
n-propyfbenzone	< 0.6	₹ 0.5	n-propylbenZene	98.1	70-130	ok	104	70-130	ox.	6.08	<25	c k
2-chicrotolumu	< 0.5	< 0.5	2-chiorotoluone	80.0	70-130	ok	DB.0	70-130	ok	9.68	<25	ok
1,3,5-506060910002000	< 0.5 C 1.0	< 0.5	1,3,6-brimethy/benzene	103	70-130	ok	107	70-130	ok	4.01	<25	ok
4-chtarotobarco	< 0.5	< 0.5	4-chioratoluone	93.5	70-130	Dk.	98.0	70-130	ok.	4.61	125	-
lert-budyt-benzene	4 0.5	< 0.5	test-butyl-benzono	119	70-130	ok	125	70-130	ok	5.11	<25	cak.
1,2,4-bimothy/bonzone	≪ 0.6	< 0:5	1,2,4-Lrimothylbonzene	98.8	70-130	ok	103	70-130	ok	4.84	<26	ok.
end-butyl-bertzona	< 0.5	< 0,5	sec-bulyi-berzene	98.8	70-130	ok	103	70-130	ak	4.51	<25	cak
Cartichicombergane	× 0.6	× 0,5	1 3-dictric programment	102	70-130	OK.	107	70-130	QK Ak	4,44	<25	OK .
1,4-dichioroberozene	< 0.5	< 0.5	1,4-dichiorobanzana	97.0	70-130	ok.	103	70-130	ak	8.22	<25	0%. 0#c
n-butytbanzone	< 0,5	4 0.5	n-butyfornzone	63. F	70-130	ok	98.6	70-130	ok	5,11	<26	OR.
1,2-dichlorobarrzania	< 0.5	< 0.5	1,2-dichiorobenzene	99.4	70-130	OÅ.	97.6	70-130	ok	7,57	<25	ok
1,2-dibiomo-3-dihiofopropano	4 2.5	< 2.5	1,2-dibromo-3-chioroproperse	62.6	70-130	04	94.2	70-130	ok	13,2	<25	ok
have the second se	< 0.6	< 0.5	tra + Utation Deen Eene	103	70-130	DR.	111	70-130	OK OK	7.86	*25	ok nin
nephthalane	< 1.0	< 1.0	respirational	Q1.5	70-130	ok	107	70-130	ak	15.6	<26	ak
1,2.3-trichtorsbenzene	< 0,5	< 0.5	1,2,3-trichlorobenzene	96.5	70-130	ok	108	70-130	ok	10.4	<25	ok
\$umales-	Sector 1	Acceptance }	Burran eta a :	Decement	Annandan as I have	Vardina	8	A	/- 1)+		16.00	ور الله معالم
DISROMOFLUOROVETHANE	07.5	70-130	DIBROMDIFLUOROMETHANE	5000VII(Y (%) D0.0	70-130	pit 0	299.K	70-130		0,48	≤25	vercicit
1,2-DICHLOROETHANE-D4	67.0	70-130	1.2-DICHLOROETHANE-D4	109	70-130	oft	113	70-130	ok	2.92	<25	ok
TOLUENE-CO	100	70-130	TOLUENE-DS	104	70-130	ok	104	70-130	ok	0.20	<25	ok
4-BHOMOFLUOROSENZENE	102	70-130	4-BROMOFLUOROBENZENE	103	70-130	pk	105	70-130	ok	1,35	<26	OK
1,2-DIGHEGROBERZERE-D4	96.0	70-130	12-01CELOHOBENZENE-D4	101	70-130	ox	102	70-130	QK	D.01	<25	OK
GZA GEOENVIRONMENTAL, INC. ENVIRONMENTAL CHEMISTRY LABORATORY 106 SOUTH ST, HOPKINTON, MA 01748 MASSACHUSETTS LABORATORY J.D. NO. MA092

EPA METHOD 6010B ANALYSIS Metals by ICP

QUALITY CONTROL - AQUEOUS

	DATE PREPARED: 1/6/2009							
QC Sample	Method Blank	Lab Control Sample	LC Duplicate	LCS/LCD Diff.				
Units	mg/L	% Recovery	% Recovery	RPD				
Acceptance Limits	Results	80-120	80-120	20%				
Analyte				·				
Silver (Ag)	< 0.0050	92.4	91.9	0.54				
Aluminum (Al)	NA	NA	NA	NA				
Arsenic (As)	<0.010	103	104	1.79				
Boron (B)	NA	NA	NA	NA				
Barium (Ba)	NA	NA	NA	NA				
Beryllium (Be)	<0.0040	102	102	0.58				
Calcium (Ca)	NA	ŇA	NA	NA				
Cadmium (Cd)	< 0.0050	103	104	0.76				
Cobalt (Co)	NA	NA	NA	NA				
Chromium (Cr)	<0.0050	100	101	0.74				
Copper (Cu)	< 0.015	105	106	0.75				
Iron (Fe)	< 0.025	105	106	0.66				
Magnesium (Mg)	NA	NA	NA	NA				
Manganese (Mn)	NA	NA	NA	NA				
Molybdenum (Mo)	NA	NA	NA	NA				
Nickel (Ni)	< 0.010	103	104	0.88				
Lead (Pb)	< 0.010	101	103	1.61				
Antimony (Sb)	<0.025	101	104	2.48				
Selenium (Se)	< 0.025	106	107	1.20				
Strontium (Sr)	NA	NA	NA	NA				
Titanium (Ti)	NA	NA	NA	NA				
Thallium (Tl)	< 0.025	97.8	99.8	2.00				
Vanadium (V)	NA	NA	NA	NA				
Zinc (Zn)	< 0.010	104	105	1.00				
Zirconium (Zr)	NA	NA	NA	NA				

Matrix Spike / Duplicate Spike performed as per method and reported if assigned on Chain of Custody.

GZA GEOENVIRONMENTAL, INC. ENVIRONMENTAL CHEMISTRY LABORATORY 106 SOUTH ST, HOPKINTON, MA 01748 MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 7470A ANALYSIS Mercury by Cold Vapor Atomic Absorption

QUALITY CONTROL - AQUEOUS

Date Prepared: 01/05/09

QC Sample	Method Blank	Lab Control Sample	Lab Control Sample Duplicate	LC/LCD Difference
Units	mg/L	% Recovery	% Recovery	RFD
Acceptance Limits	Results	80-120	80-120	20%
Analyte				
Mercury (Hg)	<0.00040	105	105	0.76

RPD = Relative Percent Difference

GZA GeoEnvironmental, Inc 108 South Street Hopkinton, MA 01745 MA032

EPA Method 8270/825 Aqueous Mathod Blank (M8) and Laboratory Control Sample (LCS) Data

Mainod Blank

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Oals Extracted;	01/05/00	
Date Analyzed: File Name:	D1/D5/09	
		Reporting Limit
Sami-Volatile Organica	Result	(UD/L)
oviding	ND	100
phenol	ND	10
bis(2-ch/orosUnyl)ether	ND	10
2-charophenal 1 3-dichlombeorece	ND	10
1,4-dichiorobonzono	ND	10
benzyl alchoho	ND ND	20
2+methylpheriol	ND	10
bis(2-chloroisopropyl)ether	NO	10
384-methylphenol	ND	10
acetophenone	ND	10
hexachiprosthane	ND	10
ninobanzana isaninona	ND	10
2-n/trophenol	ND	10
2,4-dimethylphonei	ND	10
benzoic acto bis/2-cr/ordethoxy/methane	ND	10
2.4-dichlorophenol	NØ	10
1,2,4-trichlorobenzene	ND	10
A-chioroaniline	ND	10
hexach/orobutadiene	ND	10
4-chloro-3-methylphenol 2-methylogobilbatene	ND	20
1.2.4.5-Tetrachlorobenzene	ND	10
สมมาย	ND	10
hexactilomoyclopentagiene	ND	50
2,4,5-tricharapheno	ND	10
2-chloronapithalene	ND	10
2-nitreaniline dimethylineteta	ND ND	10
acenophthylena	ND	2.0
2,6-dinitrosoluera	ND	10
3-nikoaniur.a adanaohthena		2.0
2,4-dintrophenol	ND	100
diberezofuran	DN	10
2,4-dinitrato:uene	ND	10
diethyiphtha'ate	ND.	10
flocene		2.0
4-n/troanline	D44	20
4,8-dinitro-2-methylphenol	ND	50
Rearrange and a second se	ND	10
4-bromophenyl phonyl other	ND.	10
Paulachioronitrobenzene	ND	10 10
pertacitorophenol	ND OM	50
phenanthrana	ND	2.0
anthracene	ND	2.0
di-n-butyiphiharate	ND	15
flucranthene	ND	2.0
Derzidine	ND ND	2.0
butylbenzylchihalate	ND	10
bérz (a) antwacene 3 3'-röchtronberzinline	ND	2.0
chrysene	ND	2.0
bis(2-eihyikexyi)phthalate	ND	10
oen-ocay-primarate benzo (b) Auoranthene	ND	2.0
berzo (K) fluoranthana	CM	2.0
benzo (e) pyrene	ND	2.0
dibenz (a,h) anthracene	ND	2,0
berzo (ghuj perylene	ND	2,0
Surrogales:	Recovery (%)	Acceptance Limits
2-FLUOROPHENOL	44.5	15-110
NITROBENZENE-D5	78.3	30-130
2-FLUOROBIPHENYL	68.7	30-130
p-TERPHENYL-D14	83,0	30-130

GZA GeoEnvironmental, Inc. 108 South Street Hopkimon, MA 01748 M4092

EPA Method 8270/625 Aqueous Method Blank (MB) and Laboratory Control Sample (LCS) Data

01/05/09 01/05/09

Laboratory Control Sample

Date Extracted: Date Analyzed:

File Name:	L9505		
Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict
n-etrosodimethylamine	67.9	40-140	04
pyriolane observat	37.5	40-140	0U1
bis(2-chioroethyl)ather	t02	40-140	ak
2-childrophenol	87.5	33-130	ok
1,3-olchlorobanzene	70.0	40-140	ak
1,4-0301000002000	70.7 75 R	40-140	ok ok
1,2-dichlanobenzene	74 3	40-14D	ok
2-methylphenol	82.4	30-130	ok
bis(2-chiomisspropyl)ether	93.7	40-140	0k
n-rutrosodi-n-propylam.ine	P4.0	40-140	ak
acetophenona	95.7	40-140	OK.
hexachioroethene	66.0	40-140	ok
isohron	89.2	40-140	cik tik
2-ntrophenci	102	33-130	ok
2,4-dimethylohanol	91.5	33-130	Øk
benzoic acid	3.50	40-140	out
2.4-dichlomobenol	99.7	30-130	0k
1.2 4-trichlorobenzens	61.7	40-140	ok
naphthalene	65.8	40-140	ok
4-chiorganillae bevantiorshi tadisos	79.0 60 4	40-140	0% 0%
4-chioro-3-methylphenol	96.8	30-130	ak
2-methyinaphthalene	65.2	40-140	Ok
1,2.4.5-Tetrechlorobenzene	92.5	40-140	ok
anpag hexachlorocyclopentadiene	65 B	40-140	OK
2,4,6-triphiaraphonal	113	GD-130	ok
2.4,5-michlorophenol	99.0	30-130	ok
2-chiprona phthalene 2-nitmacilica	964	40-140	ok ok
dimethylphihalata	105	40-140	ok
eceraphthylene	105	40-140	DK.
2.8-dinitrologuene	106	40-140	ek.
acenaphthene	93.1	40-140	Cik.
2,4-dinitrophenol	118	30-130	ak
olbenzofuran	97.6	40-140	ok
4-ht ruphanol 2.4-dicitation incon	44.5	30-130	QK QK
deelintominalate	96 1	40-140	ok
fsuorene	100	40-140	ON.
 chlorophenyl pisesyl sthar 	91.7	40-140	ok
 A B_digtm_2, matudabaad 	95.1	30-130	OK Ch
n-nitrosodiphenylamine	95.2	40-140	ok
zobeczene	107	40-140	ok
4-bromophenyl phanyl eiser	93.8	40-140	0k
herachlochanzene	103	40-140	C% Ok
pentech oropheno.	101	30-130	ok
phonanthrone	93.2	40-140	ok
COLDFBCORE Contractor	95.4	40-140	04
d-n-basylohtnalate	96,2	40-140	0×
fluorarithens.	104	40-140	٥×
centidine	2.50	40-140	200
pyrene butylbenzylpitthalate	94.3	40-140	ak
benz (a) anthracene	91.3	40-140	ok
3,3°-dichiorobenziaina	101	40-140	0k
Chrysene No/2.at holowy/Judy holista	95.8	40-140	OK Ak
dl-n-octylphthelate	92.0	40-140	Dk.
barizo (b) Ruoranthene	95.9	40-140	çik
benzo (k) fluoranthane	87.4	40-140	¢k
iodato (1.2.3-cti) overe	90.5	40-140	OK Ok
diberz [a,h] anthracene	90 7	40-140	ck
benco (gh/) perylene	67.8	40-140	ck.
CAM criteria allows 15% of analysi	os to exceed criter	ria.	
Surrogates:	Recovery (%)	Acceptance Limits	Verdict
2-FUUDROPHENOL PHENOL-DB	57.8 38 4	15-110	05. 22
NITROBENZENE-06	97.3	30-130	0k
2-FLUOROB/PHENTL	81,2	30-130	ak
2.4.0-1 KIBROMOPHENOL	68.4 P ³ 4	15-110	ak.
Presence (PPDIe	0	30-130	UK.

Labaratory Division 106 South Street Hopkinton, MA 01748 (781) 278-4700 FAX (509) 435-9912	GZA GEOENVIRONMENTAL	WALKIN Jun Jun Jun Jun	RELINQUISHED BY, WFILMON DATE/TIME RECEN	REDAROUISMED BY: WTELLING DATERTIME RECEIV	CONTAINER TYPE (P-Plastic; G-Glass, V-Vial, T-Tef	PRESERVATIVE (CI · HCt, M=Methanol, N - HNO3, S - H2SO4, Na					The Black H/So/08	LASSON 5 Shelf 12/20/08	Lason 5 shierry 12/30/08	Sample I.D. Sampled		CHAIN-OF-CUSTODY RECORD
	, Inc.	pirtum 10	ED BY: WITHUMON		on, O-Other)*	- NoOH, O - Other}*			-		4		sμ	A=Air S=Soil GW-Concurst W. SW-Surface W. WW-Juriaste W. DW-Drinkling W. P=Product Other (specify)	Matrix	
PROJECT Las	TURNAROUND TIM	6	Aleceived M	NOTES: (Unless other	v	G							X	D pH D Cond. GC Mathema, Etholm, Ethenn EPA 8260 EPA 8260 - 6010 Unit (Chior) EPA 8260 - 8021 Illist EPA 8260 - 8021 Illist EPA 9271 - 6020 Lai (INTEQ		
what, # FEG/RAC	E Standard (Rush)		mbere bottle	wise noted, all samples t arvatives and containers	9						2	×	X	EPA 524 2 DW VOCs EPA 524 2 DW VOCs C1 501 C2 502 WW VOCs EPA 8270 FLB SVOCs EPA 8270 C1 PAH 0 A 0 8N		
	Days, Approved by TASK NO:	2. Bornelle	boster 112	vave been refrigerated to types in this space.	6						(M)			EPA 525 VMV SVOCs EPA 5082-PCBs EPA 3081-Peat TPI+-GC (Mod. 5100/ TPI+-OC w/FIN3. EPH 40A 0EP/	ANALYSIS REQUIR	
	TEMP	LABU	(k)	o.4° C)	ρ [2						× 	*	VPH (MA DEP) Migaz 20 PPH-15 2 R-8 MCP 14 Metals (MA) Metals (List Below)** TCLP - Specify Below	ED	
SHEET	P.O. NO.	<u>4</u> 6180 38												SPLP - Specify Below EPA 300 12 CI 12 SO4 SPA 300 12 NO2 12 NO3		V.O. # 0/4
Q.	7°C Cooler	J Bamp B									3	6	9	Tota # of Cont		b use only)
	Nr. K	Ank A		_				-					0	Note	_	3

LAGOON 5 POST REMEDIAL



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

 Project No.:
 03.0032795.26

 Work Order No.:
 0807-00176

 Date Received:
 07/28/2008

 Date Reported:
 08/05/2008

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
07/23/2008	Aqueous	0807-00176 001	Trip Blank
07/23/2008	Aqueous	0807-00176 002	D Blank
07/23/2008	Aqueous	0807-00176 003	Lagoons Initial

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GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

		Date Received:	07/28/2008
Project Name.:	Charbert UIC Closure	Date Reported:	08/05/2008
Project No.:	03.0032795.26	Work Order No.:	0807-00176

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 07/25/08 via _x_GZA courier, __EC, __FEDEX, or __hand delivered. The temperature of the _x_temperature blank/__cooler air, was 3.1 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 6010B/7470A - Metals

Attach QC 6010B 07/29/08 - Aqueous Attach QC 7470A 07/29/08 - Aqueous

3. EPA Method 8270 - SVOCs

Attach QC 8270 07/30/08 - Aqueous

4. EPA Method 8260 - VOCs

Attach QC 8260 08/01/08 S - Aqueous



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Project Name.: Project No.: Data Authorized	Charbert UIC Closure 03.0032795.26	Date Received: Date Reported: Work Order No.:	07/28/2008 08/05/2008 0807-00176
Data Authorized	By: Dowilfi	_	
NELAC certifica	ation, as indicated by the NELAC Lab ID Numb	er, is per analyte. For a complete l	list of NELAC validate

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 8021: The current version of the method is 8021B. Method 8270: The current version of the method is 8270C. Method 6010: The current version of the method is 6010B.

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

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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.



Project Name.: Project No.:	Charbert UIC Closure 03.0032795.26				Date Received: Date Reported: Work Order No.:	07/28/2008 08/05/2008 0807-00176		
Sample ID:	Trip Blank					Sample N	o.:	001
Sample Date:	07/23/2008							
Test Performed		Meth	od	Results	Unit	s T	ech	Analysis Date
VOLATILE OR	GANICS	EPA	8260			M	IQS	08/01/2008
Dichlorodifluoro	omethane	EPA	8260	<2.0	ug/L	. M	QS	08/01/2008
Chloromethane		EPA	8260	<2.0	ug/L	. M	QS	08/01/2008
Vinyl Chloride		EPA	8260	<1.0	ug/L	. M	QS	08/01/2008
Bromomethane		EPA	8260	<2.0	ug/L	. М	QS	08/01/2008
Chloroethane		EPA	8260	<1.0	ug/L	. M	QS	08/01/2008
Trichlorofluoron	nethane	EPA	8260	<2.0	ug/L	. M	QS	08/01/2008
Diethylether		EPA	8260	<5.0	ug/L	. М	QS	08/01/2008
Acetone		EPA	8260	<25	ug/L	. M	QS	08/01/2008
1,1-Dichloroethe	ene	EPA	8260	<1.0	ug/L	. Μ	QS	08/01/2008
Dichloromethan	ie _	EPA	8260	<2.0	ug/L	. M	QS	08/01/2008
Methyl-Tert-But	yl-Ether	EPA	8260	<1.0	ug/L	. M	QS	08/01/2008
trans-1,2-Dichlo	proethene	EPA	8260	<1.0	ug/L	. M	QS	08/01/2008
1,1-Dichloroetha	ane	EPA	8260	<1.0	ug/L	. M	QS	08/01/2008
2-Butanone		EPA	8260	<25	ug/L	. M	QS	08/01/2008
2,2-Dichloroprop	pane	EPA	8260	<1.0	ug/L	. M	QS	08/01/2008
cis-1,2-Dichloro	ethene	EPA	8260	<1.0	ug/L	M	QS	08/01/2008
Chloroform		EPA	8260	<1.0	ug/L	M	QS	08/01/2008
Bromochlorome	ethane	EPA	8260	<1.0	ug/L	M	QS	08/01/2008
Tetrahydrofuran		EPA	8260	<10	ug/L	M	QS	08/01/2008
1,1,1-Trichloroe	thane	EPA	8260	<1.0	ug/L	M	QS	08/01/2008
1,1-Dichloroprop	pene	EPA	8260	<1.0	ug/L	M	QS	08/01/2008
Carbon Tetrach	loride	EPA	8260	<1.0	ug/L	M	QS	08/01/2008
1,2-Dichloroetha	ane	EPA	8260	<1.0	ug/L	M	QS	08/01/2008
Benzene		EPA	8260	<1.0	ug/L	M	QS	08/01/2008
Trichloroethene		EPA	8260	<1.0	ug/L	M	QS	08/01/2008
1,2-Dichloroprop	bane	EPA	8260	<1.0	ug/L	M	QS	08/01/2008
Bromodichlorom	tethane	EPA	8260	<1.0	ug/L	M	QS	08/01/2008
Dibromomethan	e	EPA	8260	<1.0	ug/L	M	QS	08/01/2008
4-Methyl-2-Pent	anone	EPA	8260	<25	ug/L	M	QS	08/01/2008
cis-1,3-Dichlorop	propene	EPA	8260	<1.0	ug/L	M	QS	08/01/2008
Toluene		EPA	8260	<1.0	ug/L	MC	QS	08/01/2008
trans-1,3-Dichlor	ropropene	EPA	8260	<2.0	ug/L	MC	QS	08/01/2008
1,1,2-Trichloroet	thane	EPA	8260	<1.0	ug/L	MC	QS	08/01/2008
2-Hexanone		EPA	8260	<25	ug/L	MC	QS	08/01/2008
1,3-Dichloroprop	bane	EPA	8260	<1.0	ug/L	MC	QS	08/01/2008
Tetrachloroether	ne	EPA	8260	<1.0	ug/L	MC	QS	08/01/2008



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ANALYTICAL REPORT

Project Name.: Project No.:	Charbert UIC Closure 03.0032795.26			Date Received: Date Reported: Work Order No.:	07/28/2008 08/05/2008 0807-00176	
Sample ID:	Trip Blank				Sample No.:	001
Sample Date:	07/23/2008					
Test Performed		Method	Results	Unit	s Tech	Analysis Date
Dibromochlorom	nethane	EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,2-Dibromoetha	ane (EDB)	EPA 8260	<2.0	ug/L	MQS	08/01/2008
Chlorobenzene		EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,1,1,2-Tetrachl	oroethane	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Ethylbenzene		EPA 8260	<1.0	ug/L	MQS	08/01/2008
m&p-Xylene		EPA 8260	<2.0	ug/L	MQS	08/01/2008
o-Xylene		EPA 8260	<1.0	ug/L	MQS	08/01/2008
Styrene		EPA 8260	<1.0	ug/L	MQS	08/01/2008
Bromoform		EPA 8260	<2.0	ug/L	MQS	08/01/2008
Isopropyibenzen	e	EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,1,2,2-Tetrachk	oroethane	EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,2,3-Trichlorop	ropane	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Bromobenzene		EPA 8260	<1.0	ug/L	MQS	08/01/2008
N-Propylbenzen	e	EPA 8260	<1.0	ug/L	MQS	08/01/2008
2-Chlorotoluene		EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,3,5-Trimethylb	enzene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
4-Chlorotoluene		EPA 8260	<1.0	ug/L	MQS	08/01/2008
tert-Butylbenzen	e	EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,2,4-Trimethylb	enzene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
sec-Butyibenzen	e	EPA 8260	<1.0	ug/L	MQS	08/01/2008
p-Isopropyltoluer	ne	EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,3-Dichlorobenz	zene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,4-Dichlorobenz	ene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
n-Butylbenzene		EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,2-Dichlorobenz	ene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
1,2-Dibromo-3-C	hloropropane	EPA 8260	<5.0	ug/L	MQS	08/01/2008
1,2,4-Trichlorobe	enzene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Hexachlorobutad	liene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Naphthalene		EPA 8260	<2.0	ug/L	MQS	08/01/2008
1,2,3-Trichlorobe	enzene	EPA 8260	<1.0	ug/L	MQS	08/01/2008
Surrogates:		EPA 8260		1774		
***1,2-Dichloroet	hane-D4	EPA 8260	81.5	% R	MQS	08/01/2008
***Toluene-D8		EPA 8260	88.8	% R	MQS	08/01/2008
***4-Bromofluoro	benzene	EPA 8260	89.7	% R	MQS	08/01/2008
Preparation		EPA 5030B	1.0	CF	MQS	08/01/2008



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ANALYTICAL REPORT

Project Name.: Project No.:	Charbert UIC Closure 03.0032795.26			Date Received: Date Reported: Work Order No.:	07/28/2008 08/05/2008 0807-00176	
Sample ID:	D Blank				Sample No.:	002
Sample Date:	07/23/2008					
Test Performed		Method	Results	Unit	s Tech	Analysis Date
VOLATILE OR	GANICS	EPA 8260			MOS	08/02/2008
Dichlorodifluoro	omethane	EPA 8260	<2.0	ua/l	MOS	08/02/2008
Chloromethane	get to some in 1925 definite et en 2002	EPA 8260	<2.0	ug/L	MQC	08/02/2008
Vinyl Chloride		EPA 8260	<1.0	ug/L	MOS	08/02/2008
Bromomethane	l.	EPA 8260	<2.0	ug/L	MQC	08/02/2008
Chloroethane		EPA 8260	<1.0	ua/L	MOS	08/02/2008
Trichlorofluoron	nethane	EPA 8260	<2.0	ug/L	MOS	08/02/2008
Diethylether		EPA 8260	<5.0	ug/L	MQO	08/02/2008
Acetone		EPA 8260	<25	ug/L	MOS	08/02/2008
1,1-Dichloroeth	ene	EPA 8260	<1.0	ug/L	MOS	08/02/2008
Dichloromethan	e	EPA 8260	<2.0	ug/L	MOS	08/02/2008
Methyl-Tert-But	yl-Ether	EPA 8260	<1.0	ug/L	MOS	08/02/2008
trans-1,2-Dichlo	roethene	EPA 8260	<1.0	ug/L	MOS	08/02/2008
1,1-Dichloroetha	ane	EPA 8260	<1.0	ug/L	MOS	08/02/2008
2-Butanone		EPA 8260	<25	ug/L	MOS	08/02/2008
2,2-Dichloroprop	pane	EPA 8260	<1.0	ug/L	MOS	08/02/2008
cis-1,2-Dichloro	ethene	EPA 8260	<1.0	ug/L	MOS	08/02/2008
Chloroform		EPA 8260	<1.0	ug/L	MOS	08/02/2008
Bromochlorome	thane	EPA 8260	<1.0	ug/L	MOS	08/02/2008
Tetrahydrofuran		EPA 8260	<10	ug/L	MOS	08/02/2008
1,1,1-Trichloroe	thane	EPA 8260	<1.0	ug/L	MOS	08/02/2008
1,1-Dichloroprop	bene	EPA 8260	<1.0	ug/L	MOS	08/02/2008
Carbon Tetrachl	loride	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2-Dichloroetha	ane	EPA 8260	<1.0	ug/L	MOS	08/02/2008
Benzene		EPA 8260	<1.0	ug/L	MQS	08/02/2008
Trichloroethene		EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2-Dichloroprop	bane	EPA 8260	<1.0	ug/L	MOS	08/02/2008
Bromodichlorom	lethane	EPA 8260	<1.0	ug/L	MOS	08/02/2008
Dibromomethan	e	EPA 8260	<1.0		MOS	08/02/2008
4-Methyl-2-Penta	anone	EPA 8260	<25	ug/L	MOS	08/02/2008
cis-1,3-Dichlorop	propene	EPA 8260	<1.0	ug/L	MOS	08/02/2008
Toluene	5 8	EPA 8260	<1.0	ug/L	MOS	08/02/2008
trans-1,3-Dichlor	ropropene	EPA 8260	<2.0	ug/L	MOS	08/02/2008
1,1,2-Trichloroet	hane	EPA 8260	<1.0	ug/L	MOS	08/02/2008
2-Hexanone		EPA 8260	<25		MOS	08/02/2008
1,3-Dichloroprop	ane	EPA 8260	<1.0		MOS	08/02/2008
Tetrachloroether	ne	EPA 8260	<1.0	ug/L	MQS	08/02/2008



GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Project Name ·	Charbert LIIC Closure	Date Received:	07/28/2008	
Project No :	03 0032795 26	Date Reported:	08/05/2008	
	05.0002700.20	Work Order No.:	0807-00176	
			8	

Sample ID: D Blank Sample Date: 07/23/2008 Sample No.: 002

Analysis

Test Performed	Method	Results	Units	Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	08/02/2008
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	08/02/2008
o-Xylene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Styrene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Bromoform	EPA 8260	<2.0	ug/L	MQS	08/02/2008
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	08/02/2008
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Naphthalene	EPA 8260	<2.0	ug/L	MQS	08/02/2008
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	85.3	% R	MQS	08/02/2008
***Toluene-D8	EPA 8260	89.1	% R	MQS	08/02/2008
***4-Bromofluorobenzene	EPA 8260	88.7	% R	MQS	08/02/2008
Preparation	EPA 5030B	1.0	CF	MQS	08/01/2008



Project Name.: Project No.:	Charbert UIC Closur 03.0032795.26	e		Date Received: Date Reported: Work Order No.:	07/28/2008 08/05/2008 0807-00176	
Sample ID:	Lagoons Initial				Sample No.:	003
Sample Date:	07/23/2008					
Test Performed		Method	Results	Unit	s Tech	Analysis Date
VOLATILE OR	GANICS	EPA 8260			MOS	08/02/2008
Dichlorodifluoro	omethane	EPA 8260	<2.0	ua/l	MQS	08/02/2008
Chloromethane	•	EPA 8260	<2.0	ug/L	MQS	08/02/2008
Vinyl Chloride		EPA 8260	5.0	ua/L	MOS	08/02/2008
Bromomethane)	EPA 8260	<2.0	ua/L	MQS	08/02/2008
Chloroethane		EPA 8260	<1.0	ua/L	MOS	08/02/2008
Trichlorofluoror	nethane	EPA 8260	<2.0	ug/L	MOS	08/02/2008
Diethylether		EPA 8260	<5.0	ua/L	MOS	08/02/2008
Acetone		EPA 8260	<25	ua/L	MOS	08/02/2008
1,1-Dichloroeth	ene	EPA 8260	<1.0	ua/L	MOS	08/02/2008
Dichloromethan	ne	EPA 8260	<2.0	ua/L	MOS	08/02/2008
Methyl-Tert-But	yl-Ether	EPA 8260	<1.0	ua/L	MOS	08/02/2008
trans-1,2-Dichlo	proethene	EPA 8260	<1.0	ua/L	MOS	08/02/2008
1,1-Dichloroeth	ane	EPA 8260	<1.0	ua/L	MOS	08/02/2008
2-Butanone		EPA 8260	<25	ug/l	MOS	08/02/2008
2,2-Dichloropro	pane	EPA 8260	<1.0	ua/L	MOS	08/02/2008
cis-1,2-Dichloro	ethene	EPA 8260	22	ug/L	MOS	08/02/2008
Chloroform		EPA 8260	<1.0	ug/L	MOS	08/02/2008
Bromochlorome	ethane	EPA 8260	<1.0	ug/L	MOS	08/02/2008
Tetrahydrofuran	1	EPA 8260	<10	ug/L	MOS	08/02/2008
1,1,1-Trichloroe	thane	EPA 8260	<1.0	ug/L	MOS	08/02/2008
1,1-Dichloropro	pene	EPA 8260	<1.0	ug/L	MOS	08/02/2008
Carbon Tetrach	loride	EPA 8260	<1.0	ug/L	MOS	08/02/2008
1,2-Dichloroetha	ane	EPA 8260	<1.0	ug/L	MOS	08/02/2008
Benzene		EPA 8260	<1.0	ug/L	MOS	08/02/2008
Trichloroethene		EPA 8260	<1.0	ug/L	MOS	08/02/2008
1,2-Dichloroprop	pane	EPA 8260	<1.0	ug/L	MOS	08/02/2008
Bromodichlorom	nethane	EPA 8260	<1.0	ug/L	MOS	08/02/2008
Dibromomethan	e	EPA 8260	<1.0	ug/L	MOS	08/02/2008
4-Methyl-2-Pent	anone	EPA 8260	<25	ug/L	MOS	08/02/2008
cis-1.3-Dichloro	propene	EPA 8260	<1.0	ug/L	MOS	08/02/2008
Toluene		EPA 8260	<1.0	ug/L	MOS	08/02/2008
trans-1,3-Dichlo	ropropene	EPA 8260	<2.0	ug/L	MOS	08/02/2008
1.1.2-Trichloroe	thane	EPA 8260	<1.0	ug/L	MOS	08/02/2008
2-Hexanone		EPA 8260	<25	ug/L	MOS	08/02/2008
1.3-Dichloropror	oane	EPA 8260	<1.0		MOS	08/02/2008
Tetrachloroethe	ne	EPA 8260	<1.0		MOC	00/02/2008
			-1.0	ug/L	INICO	00/02/2008



ANALYTICAL REPORT

Project Name.: Charbert UIC Closure Project No.: 03.0032795.26				Date Received: Date Reported: Work Order No.:	07/28/2008 08/05/2008 0807-00176	
Sample ID:	Lagoons Initial				Sample No.:	003
Sample Date:	07/23/2008					
Test Performed		Method	Results	Unit	s Tech	Analysis Date
Dibromochloror	nethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2-Dibromoeth	ane (EDB)	EPA 8260	<2.0	ug/L	MQS	08/02/2008
Chlorobenzene		EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,1,1,2-Tetrach	loroethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Ethylbenzene		EPA 8260	<1.0	ug/L	. MQS	08/02/2008
m&p-Xylene		EPA 8260	<2.0	ug/L	. MQS	08/02/2008
o-Xylene		EPA 8260	<1.0	ug/L	MQS	08/02/2008
Styrene		EPA 8260	<1.0	ug/L	MQS	08/02/2008
Bromoform		EPA 8260	<2.0	ug/L	MQS	08/02/2008
Isopropylbenzer	ne	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,1,2,2-Tetrachl	oroethane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2,3-Trichlorop	ropane	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Bromobenzene		EPA 8260	<1.0	ug/L	MQS	08/02/2008
N-Propylbenzen	e	EPA 8260	<1.0	ug/L	MQS	08/02/2008
2-Chlorotoluene		EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,3,5-Trimethylt	enzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
4-Chlorotoluene		EPA 8260	<1.0	ug/L	MQS	08/02/2008
tert-Butylbenzen	le	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2,4-1 rimethylb	enzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
sec-Butylbenzer	1e	EPA 8260	<1.0	ug/L	MQS	08/02/2008
p-Isopropyltolue	ne	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,3-Dichloroben	zene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,4-Dichloroben	zene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
n-Butylbenzene		EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2-Dichloroben	zene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
1,2-Dibromo-3-C	chloropropane	EPA 8260	<5.0	ug/L	MQS	08/02/2008
1,2,4-Trichlorob	enzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Hexachiorobuta	diene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Naphthalene		EPA 8260	<2.0	ug/L	MQS	08/02/2008
1,2,3-Trichlorobe	enzene	EPA 8260	<1.0	ug/L	MQS	08/02/2008
Surrogates:		EPA 8260	1000-0010 BB			
***1,2-Dichloroe	thane-D4	EPA 8260	84.9	% R	MQS	08/02/2008
Toluene-D8		EPA 8260	88.9	% R	MQS	08/02/2008
	obenzene	EPA 8260	89.7	% R	MQS	08/02/2008
Preparation		EPA 5030B	1.0	CF	MQS	08/01/2008
SEMI-VOLATILE		EPA 8270			RJD	07/31/2008
ACID FRACTIO	N:	EPA 8270				



Project Name.: Project No.:	Charbert UIC Closure 03.0032795.26			Date Received: Date Reported: Work Order No.:	07/28/2008 08/05/2008 0807-00176	
Sample ID:	Lagoons Initial				Sample No.:	003
Sample Date:	07/23/2008					
Test Performed		Method	Results	Unit	s Tech	Analysis Date
Phenol		EPA 8270	<10	ug/L	. RJD	07/31/2008
2-Chlorophenol		EPA 8270	<10	ug/L	. RJD	07/31/2008
2-Methylphenol		EPA 8270	<10	ug/L	. RJD	07/31/2008
3&4-Methylpher	nol	EPA 8270	<10	ug/L	. RJD	07/31/2008
2-Nitrophenol		EPA 8270	<10	ug/L	. RJD	07/31/2008
2,4-Dimethylphe	enol	EPA 8270	<10	ug/L	. RJD	07/31/2008
Benzoic Acid		EPA 8270	<10	ug/L	. RJD	07/31/2008
2,4-Dichlorophe	nol	EPA 8270	<10	ug/L	. RJD	07/31/2008
4-Chloro-3-Metr	iyiphenol	EPA 8270	<20	ug/L	. RJD	07/31/2008
2,4,6-1 richlorop	henol	EPA 8270	<10	ug/L	. RJD	07/31/2008
2,4,5-1 richlorop	nenol	EPA 8270	<10	ug/L	. RJD	07/31/2008
2,4-Dinitrophene		EPA 8270	<100	ug/L	. RJD	07/31/2008
4-Nitrophenol	Ale de la set	EPA 8270	<50	ug/L	. RJD	07/31/2008
4,0-Dinitro-2-Ivie		EPA 8270	<50	ug/L	. RJD	07/31/2008
BASE-NEUTRA		EPA 8270	<50	ug/L	. RJD	07/31/2008
n-Nitrosodimeth	ylamine	EPA 8270	<10	ug/L	RJD	07/31/2008
bis(2-Chloroethy	l)Ether	EPA 8270	<10	ug/L	RJD	07/31/2008
1,3-Dichloroben	zene	EPA 8270	<10	ug/L	RJD	07/31/2008
1,4-Dichloroben	zene	EPA 8270	<10	ug/L	RJD	07/31/2008
Benzyl Alcohol		EPA 8270	<20	ug/L	RJD	07/31/2008
1,2-Dichloroben	zene	EPA 8270	<10	ug/L	RJD	07/31/2008
bis(2-Chloroisop	propyl)Ether	EPA 8270	<10	ug/L	RJD	07/31/2008
n-Nitrosodi-n-Pr	opylamine	EPA 8270	<10	ug/L	RJD	07/31/2008
Hexachloroetha	ne	EPA 8270	<10	ug/L	RJD	07/31/2008
Nitrobenzene		EPA 8270	<10	ug/L	RJD	07/31/2008
Isophorone		EPA 8270	<10	ug/L	RJD	07/31/2008
bis(2-Chloroetho	oxy)Methane	EPA 8270	<10	ug/L	RJD	07/31/2008
1,2,4-Trichlorob	enzene	EPA 8270	<10	ug/L	RJD	07/31/2008
Naphthalene		EPA 8270	<2.0	ug/L	RJD	07/31/2008
4-Chloroaniline		EPA 8270	<20	ug/L	RJD	07/31/2008
Hexachlorobuta	diene	EPA 8270	<10	ug/L	RJD	07/31/2008
2-Methylnaphtha	alene	EPA 8270	<2.0	ug/L	RJD	07/31/2008
Hexachlorocyclo	opentadiene	EPA 8270	<50	ug/L	RJD	07/31/2008
2-Chloronaphtha	alene	EPA 8270	<10	ug/L	RJD	07/31/2008
2-Nitroaniline		EPA 8270	<50	ug/L	RJD	07/31/2008
Dimethylphthala	te	EPA 8270	<10	ug/L	RJD	07/31/2008



Sample No.: 003

Analysis

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Project Name : Charbert UIC Closure	Charbert LUC Closure	Date Received:	07/28/2008	
Project No :	03 0032795 26	Date Reported:	08/05/2008	
	00.0002100.20	Work Order No.:	0807-00176	

Sample ID: Lagoons Initial

Sample Date: 07/23/2008

Test Performed Method Results Units Tech Date Acenaphthylene EPA 8270 <2.0 ug/L 07/31/2008 RJD 2.6-Dinitrotoluene EPA 8270 <10 ua/L RJD 07/31/2008 3-Nitroaniline EPA 8270 <50 ug/L RJD 07/31/2008 Acenaphthene EPA 8270 <2.0 ug/L RJD 07/31/2008 Dibenzofuran EPA 8270 <10 ug/L RJD 07/31/2008 2.4-Dinitrotoluene EPA 8270 <10 ug/L RJD 07/31/2008 Diethylphthalate EPA 8270 <10 ug/L RJD 07/31/2008 EPA 8270 Fluorene <2.0 ug/L RJD 07/31/2008 4-Chlorophenyl Phenyl Ether EPA 8270 <10 ug/L RJD 07/31/2008 4-Nitroaniline EPA 8270 <20 ug/L RJD 07/31/2008 n-Nitrosodiphenylamine EPA 8270 <10 ug/L RJD 07/31/2008 4-Bromophenyl Phenyl Ether EPA 8270 <10 ug/L RJD 07/31/2008 Hexachlorobenzene EPA 8270 <10 ug/L RJD 07/31/2008 Phenanthrene EPA 8270 <2.0 ug/L RJD 07/31/2008 Anthracene EPA 8270 <2.0 ug/L RJD 07/31/2008 Carbazole EPA 8270 <10 ug/L RJD 07/31/2008 di-n-Butylphthalate EPA 8270 <15 RJD ug/L 07/31/2008 Fluoranthene EPA 8270 <2.0 ug/L RJD 07/31/2008 Pyrene EPA 8270 <2.0 ug/L RJD 07/31/2008 Butylbenzylphthalate EPA 8270 <10 ua/L RJD 07/31/2008 Benzo [a] Anthracene EPA 8270 <2.0 ug/L RJD 07/31/2008 3,3'-Dichlorobenzidine EPA 8270 <20 ug/L RJD 07/31/2008 Chrysene EPA 8270 <2.0 ug/L RJD 07/31/2008 bis(2-Ethylhexyl)Phthalate EPA 8270 <10 ug/L RJD 07/31/2008 di-n-Octylphthalate EPA 8270 <10 ug/L RJD 07/31/2008 Benzo [b] Fluoranthene EPA 8270 <2.0 ug/L RJD 07/31/2008 Benzo [k] Fluoranthene EPA 8270 <2.0 ug/L RJD 07/31/2008 Benzo [a] Pyrene EPA 8270 <2.0 ug/L RJD 07/31/2008 Indeno [1,2,3-cd] Pyrene EPA 8270 <2.0 ug/L RJD 07/31/2008 Dibenzo [a,h] Anthracene EPA 8270 <2.0 ug/L RJD 07/31/2008 Benzo [g,h,i] Perylene EPA 8270 <2.0 ug/L RJD 07/31/2008 Surrogates: EPA 8270 ***2-Fluorophenol EPA 8270 17.0 % R RJD 07/31/2008 ***2-Chlorophenol-D4 EPA 8270 40.5 % R RJD 07/31/2008 ***Nitrobenzene-D5 EPA 8270 41.5 % R RJD 07/31/2008 ***2-Fluorobiphenyl EPA 8270 44.6 % R RJD 07/31/2008 ***2,4,6-Tribromophenol EPA 8270 50.4 % R RJD 07/31/2008



Project Name.: Project No.:	Charbert UIC Closure 03.0032795.26			Date Received: Date Reported: Work Order No.:	07/28/2008 08/05/2008 0807-00176		
Sample ID:	Lagoons Initial				Sample	No.:	003
Sample Date:	07/23/2008						
Test Performed		Method	Results	uni Uni	ts	Tech	Analysis Date
***P-Terphenyl-I	D14	EPA 8270	51.8	% F	2	RJD	07/31/2008
Extraction		EPA 3510C	1.0	DF		DAB	07/30/2008
TOTAL PETRO	LEUM HYDROCARBON	Mod. EPA 8100				RJD	08/01/2008
Hydrocarbon Co	Intent		<200	ua/l	-	RJD	08/01/2008
Surrogate:				-3-			00/01/2000
***p-Terphenyl			73.3	% F	6	RJD	08/01/2008
Extraction		EPA 3510C	1.0	DF		RJD	07/30/2008
RCRA METALS						117	07/29/2008
Silver		EPA 6010B	<0.005	i0 ma/	L		07/29/2008
Arsenic		EPA 6010B	< 0.010	ma/	L	117	07/29/2008
Barium		EPA 6010B	0.016	ma/	T.	117	07/29/2008
Cadmium		EPA 6010B	<0.005	i0 ma/		117	07/29/2008
Chromium		EPA 6010B	<0.005	0 ma/	Les -	117	07/29/2008
Mercury		EPA 7470A	<0.000	40 ma/		TN	07/30/2008
Lead		EPA 6010B	< 0.010	ma/			07/29/2008
Selenium		EPA 6010B	<0.025	mg/		LLZ	07/29/2008

GZA GEOENVIRONMENTAL, INC. ENVIRONMENTAL CHEMISTRY LABORATORY 106 SOUTH ST, HOPKINTON, MA 01748 MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 6010B ANALYSIS Metals by ICP

QUALITY CONTROL - AQUEOUS

DATE PREPARED: 7/29/2008										
QC Sample	Method Blank	Lab Control Sample	LC Duplicate	LCS/LCD Diff.						
Units	mg/L	% Recovery	% Recovery	RPD						
Acceptance Limits	Results	80-120	80-120	20%						
Analyte										
Silver (Ag)	< 0.0050	89.0	88.3	0.78						
Aluminum (Al)	< 0.025	105	103	1.97						
Arsenic (As)	< 0.010	98.7	98.1	0.61						
Boron (B)	NA	NA	NA	NA						
Barium (Ba)	< 0.0050	98.3	96.9	1.40						
Beryllium (Be)	NA	NA	NA	NA						
Calcium (Ca)	< 0.025	101	100	1.12						
Cadmium (Cd)	< 0.0050	95.5	94.5	1.13						
Cobalt (Co)	NA	NA	NA	NA						
Chromium (Cr)	< 0.0050	96.5	95.2	1.34						
Copper (Cu)	< 0.015	111	108	2.08						
Iron (Fe)	< 0.025	101	100	1.17						
Magnesium (Mg)	< 0.025	102	100	1.55						
Manganese (Mn)	< 0.0050	97.8	96.8	0.94						
Molybdenum (Mo)	NA	NA	NA	NA						
Nickel (Ni)	NA	NA	NA	NA						
Lead (Pb)	< 0.010	96.3	95.4	0.95						
Antimony (Sb)	NA	NA	NA	NA						
Selenium (Se)	< 0.025	105	104	0.85						
Strontium (Sr)	NA	NA	NA	NA						
Titanium (Ti)	NA	NA	NA	NA						
Thallium (Tl)	NA	NA	NA	NA						
Vanadium (V)	NA	NA	NA	NA						
Zinc (Zn)	<0.010	101	97.7	3.22						
Zirconium (Zr)	NA	NA	NA	NA						

Matrix Spike / Duplicate Spike performed as per method and

reported if assigned on Chain of Custody.

GZA GEOENVIRONMENTAL, INC. ENVIRONMENTAL CHEMISTRY LABORATORY 106 SOUTH ST, HOPKINTON, MA 01748 MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 7470A ANALYSIS Mercury by Cold Vapor Atomic Absorption

QUALITY CONTROL - AQUEOUS

Date Prepared: 07/29/08

QC Sample	Method Blank	Lab Control Sample	Lab Control Sample Duplicate	LC/LCD Difference
Units	mg/L	% Recovery	% Recovery	RPD
Acceptance Limits	Results	80-120	80-120	20%
Analyte				
Mercury (Hg)	<0.00040	95.6	93.8	1.94

RPD = Relative Percent Difference

GZA GeoEnvironmental, Inc. 108 South Street Hopkinton, MA 01748 MA092

EPA Method 8270/625 Aqueous Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Extracted:	07/30/08	
Date Analyzed: File Name:	07/31/08	
ne dene.	Cuzor	Reporting Limit
Semi-Volatile Organics	Result	(ug/L)
n-nitrosodimethylamine	ND	10
pyridine	ND	100
phenol	ND	10
2-chiomobenol	ND	10
1,3-dichiprobenzane	ND	10
1,4-dichiorobenzene	ND	10
benzyl alchohol	ND	20
1 2-dichorobenzene	ND	10
2-methylphenol bis/2-chlomisopopyllether	ND	10
384-methylphenol	ND	10
n-nitrosodi-n-propylamine	ND	10
acetophenone	ND	10
hexachioroethane	ND	10
nitrobenzene	ND	10
2-nitrophenol	ND	10
2.4-dimethylphenol	ND	10
benzoic acid	ND	10
bis(2-chloroethoxy)methane	ND	10
2.4-dichlorophenol	ND	10
naphthalene	ND	20
4-chloroaniline	ND	10
hexachlorobutadiene	ND	10
4-chloro-3-methylphenol	ND	20
2-methylnaphthalene	ND	2.0
antine	ND	10
2.4 Eutobloopheool	ND	50
2.4.5-trichlorophenol	ND	10
2-chloronaphthalene	ND	10
2-nitroaniline	ND	50
dimethylphthalate	ND	10
acanaphthylene	ND	2.0
2.o-dinitrotoluene	ND	10
acanaphthane	ND	20
2.4-din trophenol	ND	100
d benzofuran	ND	10
4-nitrophenol	ND	50
2,4-din trotoluene	ND	10
fl vorene	ND	10
4-chlorophenyi phenyi ether	ND	10
4-nitroaniline	ND	20
4,6-din tro-2-methylphenol	ND	50
n-nitrosodlphenylamine	ND	10
azobenzene	ND	10
hexachiorobenzene	ND	10
pentachiorophenol	ND	50
phenanthrene	ND	2.0
anthracene	ND	2.0
carbazole di o bidulobibalate	ND	10
fuoranthece	ND	15
pyrene	ND	2.0
butylbenzylphthalate	ND	10
benz (a) anthracene	ND	2.0
3,3-0ichiorobenzidine	ND	20
his/2-ethylhexylinhthalate	ND	2.0
di-n-octylphthalate	ND	10
benzo (b) fluoranthene	ND	2.0
benzo [k] fluoranthene	ND	2.0
benzo (a) pyrene	ND	2.0
Indeno [1,2,3-cd] pyrene	ND	2.0
dioenz (a.n) anthracene	ND	2.0
name But be kene	UN	2.0
Surrogales:	Recovery (%)	Acceptance Limits
2-FLUOROPHENOL	22.8	15-110

SunoByres:	Recovery (%)	Acceptance Limits
2-FLUOROPHENOL	22.3	15-110
2-CHLOROPHENOL-D4	15.4	15-110
NITROBENZENE-D5	41.4	30-130
2-FLUOROBIPHENYL	43.8	30-130
2.4.6-TRIBROMOPHENOL	54.7	15-100
P-TERPHENYL-D14	52.6	30-130

EPA Method 8270/625 Aqueous Method Blank (MB) and Laboratory Control Sample (LCS) Data

Laboratory Control Sample

Laboratory Control Sample Duplicate

Date Extracted:	07/30/08			Date Extracted:	07/30/08				
Date Analyzed:	07/31/08			Date Analyzed:	07/31/08				
File Name:	L8283			File Name:	L8282				
							Relative		
Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict	% Recovery	Acceptance Limits	Verdict	% Diff	Limits	Verdict
n-nitrosodimethylamine	30.7	40-140	out	29.8	40-140	out	3.1	<20	ok
pyrid ne	7.68	40-140	out	10.0	40-140	out	24	<20	out
phano	18.2	30-130	CLI	18.8	30-130	out	8.8	<23	OK.
ois(2-chioroethyi)ether	45.2	40-140	OK	40.5	40-140	OK	11	420	OK
2-chlorophenol 1.2 dichlombanzana	47.3	30-130	OK	91.0	40-140	OUT	13	<20	OUT
1.5-dichlombenzene	39.0	40-140	CUL	20.3	40-140	out	23	<20 <20	out
benzyl alchohol	41 3	40-140	oir	416	41-140	ck	0.92	<20	nk
1.2-dichlombenzene	41.2	40-140	OK.	314	40-140	out	27	<20	out
2-methylobenol	42 5	30-130	ok	40.7	30-130	nk	44	<20	ok
bis(2-chioroisopropyl)ether	41.7	40-140	DK	45.7	40-140	ak	9.2	<20	ak
3&4-methylphenol	79.9	30-140	ok	74.5	30-130	ok	7.0	<20	ok
n-nitrosodi-n-propylamine	50.3	40-140	ok	41.8	40-140	ok	19	<20	ok
acetophenone	52.0	40-140	ok	48.1	40-140	ok	7.8	<20	ok
hexachloroethane	35.2	40-140	out	52.3	40-140	ok	39	<20	out
nitrobenzene	45.6	40-140	ok	40.2	40-140	OK	15	<20	ok
isophrone	53.5	36-130	ok	45.1	30-130	ok	17	<20	ok
2-nitrophenol	53.0	30-130	ok	42.2	30-130	ok	23	<20	out
2,4-dimethylphenol	49.9	30-130	ok	43.5	30-130	DK.	14	<20	OK
benzoic acid	34.8	40-140	out	29.2	40-140	out	18	<20	OK
bis(2-chioroethoxy)methane	53.0	30-130	OK	44.2	30-130	0%	18	<20	OK
2,4-dichiorophenol	53.9	40-140	OK	45.5	40-140	OK	1/	<20	OK
1.2,4-cronorobenzene	43.1	40-140	OK	33.1	40-140	OUT	20	=20	DUI
A ablast apilian	47.3	40-140	OK	40.2	40-140	OK	10	-20	OK OK
exaction but adapt	40.3	40-140	OK	44.4	30,130	OK	27	<20 <20	OK OK
Archiom-3-methylohenol	56.8	40-140	ok	510	40-140	ok	87	<20	ok
2-methylicaphthalane	48.5	40-140	ok	584	40-140	ok	19	<20	ok
aniline	16.7	40-140	out	19.2	40-140	out	14	<20	ok
hexachlorocyclopentadiana	31.7	30-130	ok	21.0	30-130	nut	41	<20	out
2,4,6-trichlorophenol	54.7	30-130	ok	47.5	30-130	ok	14	<20	ok
2,4,5-trichlorophenol	58.2	40-140	ok	49.4	40-140	ok	16	<20	ok
2-chloronaphthalene	51.1	40-140	ok	40.5	40-140	ak	23	<20	Cut
2-nitroanilina	53.0	40-140	ok	47.4	40-140	ok	11	<20	ok
dimethylphthalate	55.2	40-140	ok	49.2	40-140	ok	11	<20	ok
acenaphthylene	53.9	40-140	ok	43.0	40-140	ok	23	<20	out
2,6-dinitrotoluene	52.9	40-140	ok	44.8	40-140	ok	17	<20	ok
3-nitroaniline	52.6	40-140	OK	55.4	40-140	ok	5.1	<20	ok
acenaphthene	52.4	30-130	ok	41.7	30-130	ok	23	<20	aut
2,4-ommophenoi	61.0	40-140	OK	04.1	40-140	OK	12	<20	OK
oldenzoturan	54,5	30-130	OK	44.0	30-130	OK	20	<20	out
2.4. disitateluena	53.6	40-140	out	10.0	40-140	out	17	-20	OK
diethvinhtholate	55.5	40-140	or k	40.3	40-140	ok	14	-20	ok
fuorece	55.8	40-140	O.K	45.1	40-140	ok	19	<20	ok
4-chlorophenyl phenyl ether	53.1	40-140	OK.	42.6	40-140	ok	22	<20	011
4-nitmaniline	50.9	30-130	nk	50.6	30-130	ok	0.59	<20	ok
4.6-dinitro-2-methylphenol	53.2	40-140	DK.	48.2	40-140	ok	9.7	<20	ok
n-nitrosodiphenylamine	45.3	40-140	ok	40.5	40-140	ok	11	<20	ok
azobenzene	48.7	40-140	DK.	41.7	40-140	ok	15	<20	ok
4-bromophenyl phenyl ether	53.0	40-140	ok	43.3	40-140	ok	20	<20	OLS
hexachiorobenzene	52,5	40-140	ok	43.1	40-140	ok	20	<20	ok
pentachiorophenol	52.5	40-140	DK.	44.8	40-140	ok	16	<20	ck
phenanthrene	53.9	40-140	OK	45,6	40-140	ok	17	<20	Ck
anthracene	55.9	40-140	OK.	48.2	40-140	ok	17	<20	OK
Carbazole	53.5	40-140	OK.	45.3	40-140	OK	17	<20	CK
di-n-outyiphinalate	57.0	40-140	OK	48.3	40-140	OK	17	<20	OK
nuoranunene	53.5	40-140	DK.	41.2	40-140	DK.	10	<20	OK
butybenzyinhthsiate	55.0	40-140	DK	46.5	40-140	ok	17	<20	DK.
benz lal anthracene	51.0	40-140	DK.	44.7	40-140	ok	13	<20	ok
3.3'-dichlorobenzidine	39.0	40-140	out	35.8	40-140	out	8.4	<20	DK.
chrysene	45.3	40-140	DK	39.1	40-140	out	17	<20	DK.
bis(2-etinyihexyl)phthalate	54.4	40-140	ok	45.2	40-140	ck	18	<20	ok
di-n-ociyiphthalate	53.0	40-140	ok	43.5	40-140	ok	20	<20	ok
benzo [b] fluoranthene	51.0	40-140	ok	46.3	40-140	ok	96	<20	OK
banzo [k] fluoranthene	45.5	40-140	ok	41.6	40-140	ck	89	<20	OK
benzo [a] pyrene	44.8	40-140	ok	40,5	40-140	ok	10	<20	OK
indeno [1,2,3-cd] pyrene	58.7	40-140	ok	47.8	40-140	ck	21	<20	but
dibenz [a,h] anthracene	55.9	40-140	ok	46.8	40-141	ck	20	<20	0×
benzo (gni) perviene	57.5	40-140	OK	47.0	40-142	CK	20	<20	out
CAM criteria allows 15% of analy	tes to exceed crite	rla.					Relative		
Surrogates:	Recovery (%)	Acceptance Limits	Vardict	Recovery (%)	Acceptance Limits	Verdict	% Diff.	Limits	Verdict
2-FLUOROPHENOL	26.8	15-110	ok	23.4	10-100	ck	13	<20	OK
2-CHLOROPHENOL-D4	49.0	15-110	ok	42.2	15-110	ok	15	<20	OK
2 ELUCIDORIDIELEUS	45.0	30-130	OK	37.8	10-130	CK	19	<20	OK
2 A & TRIBROMORUSION	45.2	30-130	OK.	38.9	14,434	OK OF	10	<20	OK
D-TERPHENYL-D14	58.2	30-130	ok	51.58	11-102	ok	12	<20	OK.
Provide and a second seco									

GZA GeoEnvironmental, Inc. 108 South Street Hopkinton, MA 01748

EPA Method 8260 / 524.2 Aqueous Method Blank (M8) and Laboratory Control Sample/Duplicate (LCS/LCSD) Data

Method Blank			Laboratory Control Sample				Laboratory Co	ntrol Sample Duplica	to			
Date Analyzed:	8/1/2008		Date Analyzed:	8/1/2008			8/1/2008					
Volatile Organice	Cone. ug/L	Acceptance Limit	Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict	% Recovery	Acceptance Limits	Verdict	RPD	Limit	Verdict
chloromethane	< 1.0	< 1.0	chloromethane	118	70-130	ok	114	70-130	ok	1.54	<25	ok
vinyl chloride	< 0.5	< 0.5	vinvi chlorida	101	80-120	OK OK	101	70-130	OK ok	0.51	<25	ok
bromomethene	< 1.0	< 1.0	bromomethene	85.5	70-130	ok	03.0	70-120	ok	1.10	<25	OK
chloroethane	< 0.5	< 0.5	chloroethane	98.4	70-130	ok	95.5	70-130	ok	0.06	\$25	ok
trichtorofluoromethane	< 1.0	< 10	Inchlorofluoromethana	89.7	70-130	ok	90.2	70-130	ok	0.54	<25	ck
dicthyl other	< 2.5	< 2.5	diathyl ether	85.1	70-130	ok	84.8	70-130	ak	0.35	<25	ck
scetone	< 13	< 13	acetorie	87.2	70-130	ok	87.9	70-130	ok	0.80	<25	ok
EPEON 113	< 0.5	< 0.5	1,1-dichloroethene	82.0	80-120	OK	83.2	80-120	ok	1.45	<25	ok
lodomethane	< 0.5	< 0.5	FREON-113	88.3	70-130	ok	89.8	70-130	ok	1.67	<25	ok
carbon disulfide	< 5.0	\$ 5.0	carbon disulfide	87 1	70-130	OK	81.9	70-130	ak	0.12	<25	ok
dichioromethane	< 1.0	< 1.0	dichloromathana	79.4	70-130	ck	70.9	70-130	OK	0.61	<20	OK
tert-butyf sicohol (TBA)	< 13	< 13	tert-butyl alcohol (TBA)	107	70-130	ok	118	70-130	ok	9.38	<25	OK
acryloninie	< 0.5	< 0.5	acrylontrile	82.5	70-130	ak	85.7	70-130	ak	3.72	<25	ok
methyl-tert-butyl-ather	< 0.5	< 0.5	methyl-tent-butyl-ether	64.6	70-130	ok	88.3	70-130	ok	3.99	<25	ok
trans-1,2-dichloroethens	< 0.5	< 0.5	trens-1,2-dichloroethene	82.4	70-130	ok	84.2	70-130	ok	2.09	<25	ok
disconovi ather (DIPE)	< 10	< 10	1,1-occupred sthes (DIDE)	85.9	70-130	OK	86.4	70-130	ok	0.64	<25	ok
sthyl tert-bulyi ether (EtBE)	* 10	\$ 10	athe test-butyl alloc (EIEE)	80.5	70-130	OS	85.0	70-130	ok	1.72	<25	ok
vinyl acatate	< 13	< 13	vinvi acetale	612	70-130	nk	82.0	70-130	OK	1.18	<25	OK
2-butenone	< 13	< 13	2-butenone	87.8	70-130	ak	87.5	70-130	ok	0.37	<25	OK
2,2-dichloropropane	< 0.5	< 0.5	2,2-dichloropropana	89.4	70-130	ok	88.7	70-130	ok	0.82	<25	nk
cis-1,2-dichioroethene	< 0.5	< 0.5	cis-1,2-dichloroethene	80.6	70-130	ok	82.2	70-130	ok	1.88	<25	ok
chloroform	< 0.5	< 0.5	chloroform	81.9	80-120	ok	82.7	80-120	ok	0.91	<25	ok
bromocnioromaticana tateshudinaturan	< 0.6	< 0.5	bramochlaromethane	89.7	70-130	ok	89.8	70-130	ak	0.06	<25	ok
1.1.1.tichiomethane	1 0.0	- 0.5	teranyoreuran	87.9	70-130	OK	91.8	70-130	ok	4.43	<25	OK
1.1-dichlorocropene	< 0.5	< 0.5	1 1-dichimpropene	63.0	70-130	OK	04.4	70-130	ok	1.00	<25	ok
carbon tetrachloride	< 0.5	< 0.5	carbon letrachionida	65.6	70-130	ok.	85.7	70-130	ok	0.49	<25	ok
1,2-dichioroethene	< 0.5	< 0.5	1,2-dichloroethane	88.4	70-130	ok	66.3	70-130	ok	0 12	<25	ok
benzens	< 0.5	< 0.5	benzone	63.1	70-130	ok	83.4	70-130	ok	0.30	<25	ok
terl-emyl methyl ather (TAME)	< 1.0	< 1.0	lert-emyl methyl ether (TAME)	85.9	70-130	ok	89.2	70-130	ok	3.79	<25	ok
trichloroethere	< 0,5	< 0.5	Inchloroethene	87 2	70-130	ok	87.8	70-130	ok	0.70	<25	ok
homodichioropolitana	0.5	< 0.5	1,2-dichloropropane	66.3	80-120	ok	86.5	80-120	ak	0.24	<25	ok
1 4-Diozene	< 50	< 50	14-Diovene	63.6	70-130	CK	84.6	70-130	ok	0,89	<25	ok
dibromomethene	< 0.5	< 0.5	dipromomethene	874	70-130	ok.	88.3	70-130	OK	0.80	<20	OK
4-methyl-2-pentenone	< 13	< 13	4-methyl-2-pentanone	89.2	70-130	ak	89.6	70-130	ok	0.68	=25	OK.
cis-1,3-dichioropropene	< 0.5	< 0.5	cls-1,3-dichloropropene	89.4	70-130	ck	89.2	70-130	ok	0.24	\$25	nk
toluene	< 0.5	< 0.5	toluene	83.8	80-120	ok	84.0	80-120	OK	0.23	<25	ok
trans-1,3-dichloropropana	< 1.0	< 1.0	trans-1,3-dichloropropene	91.7	70-130	ak	90.4	70-130	ok	1.41	<25	ok
2-bersoope	C 0.5	< 0.5	1, 1, 2-trichlorosthane	90.0	70-130	ak	87.6	70-130	ok	2.09	<25	ok
1.3-dichlomproane	\$ 0.5	< 05	2-nexanono	101	70-130	OK	97.5	70-130	ok	3.81	<25	ok
tetrachioroethena	< 0.5	< 0.5	Istrechloroethene	95.1	70-130	ok	05.2	70-130	OK	0.04	<25	OK
dibromochloromethane	< 0.5	< 0.5	dibromochloromethane	90.5	70-130	ak	95.8	70-130	ok	0.70	\$25	ok
1,2-dibromoethane (EDB)	< 1.0	< 1.0	1,2-dibromoethane (EDB)	93.7	70-130	ok	92.9	70-130	ok	0.83	<25	ok
chiorobenzene	< 0.5	< 0.5	chiorobenzene	95.9	70-130	ok	95.5	70-130	ok	0.43	<25	ok
1,1,1,2-tetractionosthane	< 0.5	< 0.5	1.1,1.2-telrachloroethane	90.6	70-130	ok	90.9	70-130	ok	0.10	<25	cik
1 1 2 2 Joinschlomethans	× 0.5	< 0.5 c 0.5	eurybenzene	89.6	80-120	ak	89,7	80-120	ok	0.09	<25	ok
m&p-xviene	< 1.0	< 10	m&p. tylene	87.6	70-130	OK	66.5	70-130	OX.	2.00	<25	ok
o-xylene	< 0.5	< 05	o-xylens	92.6	70-130	ok.	01.8	70-130	OK	0.58	<25	ok
styrene	< 0.5	< 0.5	styrene	89.7	70-130	ok	99.1	70-130	ok	0.58	<25	OR OR
bromoform	< 1.0	< 1.0	biomoform	98.9	70-130	Uk	99.4	70-130	ok.	0.45	<25	ok
isopropylbenzene	< 0.5	< 0.5	isopropyibenzene	111	70-130	ok	109	70-130	ok	1.52	<25	ok
1,2,3-trichloropropena	< 0.5	< 0.5	1.2,3-trichloropropane	08,9	70-130	ok	99.2	70-130	ok	0.29	<25	ok
n-omovibenzene	< 0.5	< 05	bromobenzene bromobenzene	97.4	70-130	OR	95.8	70-130	ok	1.66	<25	ok
2-chlorotoluane	< 0.5	< 0.5	2-chlorotoluena	91.4	70-130	OK OK	80.7	70-130	ok	1.17	<25	ok
1,3,5-trimethylbenzene	< 0.5	< 0.5	1,3,5-trimsthylbenzena	93.8	70-130	ak	90.6	70-130	ok	3.18	425	OK
trans-1,4-dichloro-2-butene	< 1.0	< 1.0	trans-1,4-dichloro-2-butene	99.0	70-130	ak	95.4	70-130	ok	3.72	<25	ok
4-chlorotoluene	< 0.5	< 0.5	4-chiorotoluene	93.0	70-130	ok	92.8	70-130	ok	0.44	<25	ok
tert-buty-benzene	< 0.5	< 0.5	ten-bulyi-benzene	115	70-130	OK	111	70-130	ok	4.03	<25	ok
1,2,4-trimethy/benzene	< 0.5	< 0.5	1,2,4-trimethylbenzene	89,1	70-130	ak	88.4	70-130	ok	0.74	<25	ok
p-isopropytotiene	5 0.5	< 0.5	sec-putyt-penzono	01.5	70-130	ok	90.4	70-130	ok	4,34	<25	ok
1.3-dichlorobenzene	< 0.5	< 0.5	1.3-dichlombaozana	83.0	70-130	OK OK	91.5	70-130	OK	1.58	<25	ok
1,4-dichlorobenzene	< 0.5	< 0.5	1,4-dichlorobenzena	01.0	70-130	ok	92.6	70-130	ok	0.75	<25	OK
n-butyibenzene	< 0.5	< 0.5	n-butylbenzene	93.7	70-130	Ok	91.9	70-130	ok	1.04	<25	ok
1,2-dichlorobenzene	< 0.5	< 0.5	1.2-dichlorobanzene	D4.1	70-130	ok	94.2	70-130	ok	0.18	<25	ok
1,2-dibromo-3-chioropropana	< 2.5	< 2.5	1,2-dibromo-3-chloropropane	83.0	70-130	ok	84.7	70-130	ck	2.03	<25	ck
1,2,4-mchorobenzene	0.5	C 0.5	1,2,4-trichlonoberuziene	88.2	70-130	Ck	101	70-130	ok	2.00	<25	OK
naphibeleoo	< 10	10	nexeChOrobutadiene	99.3	70-130	ok	97.1	70-130	ok	2.24	<25	ok
1.2.3-trichlorobenzene	< 0.5	< 0.5	1.2.3 trichlombenzana	68.8 05 0	70-130	OK	93.3	70-130	OK	4.91	<25	ok
	16 RM	101111111111	SMF criteria allows 6 compounds to	be outside accent	ance limits	UK.	9d.0	70-130	OK	3.72	<25	ok
Surrogates:	Recovery (%)	Acceptance Limits	Surrogetes:	Recovery (%)	Accentance Imite 1	Verdict	Bacovers (M)	Accentance Limited	vellet	800	11-14	Maritta
DIBROMOFLUOROMETHANE	92.1	70-130	DIBROMOFLUOROMETHANE	87.5	70-130	ok	BØ.6	70-130	ok	0.94	<26	verdici
1,2-DICHLOROETHANE-D4	86.5	70-130	1,2-DICHLOROETHANE-D4	92.0	70-130	ok	89.4	70-130	ok	2.78	<25	ok
TOLUENE-08	69.4	70-130	TOLUENE-D8	87.5	70-130	ok	87.7	70-130	ok	0.32	<25	ok
12-DICHLOROBENZENE	89.5	70-130	4-BROMOFLUOROBENZENE	98.6	70-130	ok	97.5	70-130	ak	1.20	<25	ok
1,2-DIONLONO BENZENE-D4	08.0	70-130	1,2-DICHLOROBENZENE-04	92.2	70-130	OK	91.8	70-130	ak	0.64	<25	DK

HAIN-OF-CUSTOR	Y RECORD																								1.1.7			*	15	3	ria	00	se	30	SC	1	N	6	ſ	ik.
		Matrix		4	-	-	4					11	11			ł	ALYS	SIS F	feol	JIRE		11	11		- 1	- 1			41	11	11		- 1			-		-		
Sample I.D.	Date/Time Sampled	S=Sair SW=Ground W. SW=Surface W. SW=Surface W. WW=Waste W. DW=Drinking W. DDW=Drinking W. P=Product P=Product Other (specify)	J pH J Cond	3C Melhane, Ethane, Ethane	EPA 8260	EPA 8210 - 8010 Lat (Chlor)	EPA 8260 - 8021 kst	EPA 8021 - 8020 List (BTEX)	EPA 524.2 DW VOCE	EPA 624 WW VOCs	1 601 -1 602 WW VOCs	PA 8270 FULL SVOCs	PA 8270 J PAH LA J BN	EPA 625 WW SVOCs	FPA 8082-PCBe		EPA 8081-Pest	TPH-GC (Mod. 8100)	TPH-GC w/FING.	EPH (MA DEP)	VPH (MA DEP)	Vetaks JPPM-13 oft-8	MCP 14 Metais (MA)	Metals (List Below)**	ICI R - Seasth Relativ	TOCT - Specify Bear	SPLP - Specify Below	EPA 300 J CI J SO4	EPA 300 L NO2 L NO3							Ω ⊯ ≓	ont.	1-3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	#	U
Trip Blanic	7123108	32		~	X): 							-								-								-				1 2011	Ś			
DB Mr.K	3016812	_	_	~	~			1									-							2	2 7						-	-				1.	Ś			N= -54
Lugar SINT-	7123/08	4			X							X						\times				X				1						-				3	21			
						_																			+															
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CONTAINER TYPE (P-Plastic, G-	Slass, V-Vial, T-Teflon,	O-Other)*			\leq		_	_				6				-	~	9				-07									1									
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PROJECT MANAGER: Steve	Andres ex	1740)- I	JRN	ARC	UN	E	ME	6	(a)	(a)	Y	lish		Da	ys,	PP	TOV	a l	¥				1 IL	MPC	Q IS	8		129	(N	3		ဂိ		07	00 mp	er A	lir	8	-6-
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W.O. # 007 - 12/7/

LAGOON 5 FILL



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

Todd Greene

 Project No.:
 03.0032795.26

 Work Order No.:
 0809-00125

 Date Received:
 09/19/2008

 Date Reported:
 09/30/2008

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
09/18/2008	Solid	0809-00125 001	Fill 1
09/18/2008	Solid	0809-00125 002	Fill 2
09/18/2008	Solid	0809-00125 003	Trip Blank

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Page 2 of 15

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

 Project Name.:
 Charbert UIC Closure
 Date Received:
 09/19/2008

 Project No.:
 03.0032795.26
 Date Reported:
 09/30/2008

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 09/19/08 via _x_GZA courier, __EC, __FEDEX, or __hand delivered. The temperature of the __temperature blank/_x_cooler air, was 7.6 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 6010B/7471A - Metals

Attach QC 6010B 09/22/08 - Solid Attach QC 6010B 09/22/08 B - Solid Attach QC 7471A 09/23/08 - Solid

3. EPA Method 8260 - VOCs

The continuing calibration verification standard (CCV) (09/24/08) had an analyte outside of the 30%D QC acceptance limit. The outlier includes dichlorodifluoromethane (37%).

The Laboratory Control Sample (LCS) (09/24/08 S) had a method 8260 list analyte outside of the 70-130% QC acceptance limits. Specific outlier includes dichlorodifluoromethane (137%). Dichlorodifluoromethane was not detected in the associated samples.

Attach QC 8260 09/24/08 S - Solid

EPA Method 8270 - SVOCs

The Initial Calibration (ICAL) (08/27/08) (IABN162) had analytes whose %RSD was greater than 15%. The specific outliers include benzoic acid (23.1%) and 2,4-dinitrophenol (23.5%).

The Laboratory Control Spike (LCS) (09/23/08) had method 8270 list acid analytes outside of the 30-130% QC acceptance limits and base/neutral analytes outside of the 40-140% QC acceptance limits. Specific outliers include aniline (30.5%) and 2,4-dinitrophenol (7.26%).

These analytes are considered "difficult" analytes for which the recovery ranges routinely exceed the applicable QC acceptance limits

Attach QC 8270 09/23/08 - Solid

5. EPA Method 8082 - PCBs

Attach QC 8082 09/25/08 - Solid



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

Date Received: 09/19/2008 Project Name .: **Charbert UIC Closure** Date Reported: 09/30/2008 Project No .: 03.0032795.26 Work Order No.: 0809-00125 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 Kev: 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 6010B.

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

The laboratory report shall not be reproduced except in full without the written consent of the laboratory.

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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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

				_
0-08-6,579-71 0385-01		Work Order No.:	0809-00125	
Project No .:	03.0032795.26	Date Reported:	09/30/2008	
Project Name .:	Charbert UIC Closure	Date Received:	09/19/2008	

Sample ID: Fill 1 Sample Date: 09/18/2008

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID		95.6	96	TAJ	09/23/2008
VOLATILE ORGANICS	EPA 8260			MOS	09/24/2008
Dichlorodifluoromethane	EPA 8260	<100	ua/ka	MOS	09/24/2008
Chloromethane	EPA 8260	<100	uo/ko	MOS	09/24/2008
Vinyl Chloride	EPA 8260	<50	ud/ka	MOS	09/24/2008
Bromomethane	EPA 8260	<100	ua/ka	MOS	09/24/2008
Chloroethane	EPA 8260	<50	ug/kg	MOS	09/24/2008
Trichlorofluoromethane	EPA 8260	<100	ug/kg	MOS	09/24/2008
Diethylether	EPA 8260	<250	uo/ka	MOS	00/24/2008
Acetone	EPA 8260	<1300	ua/ka	MOS	09/24/2008
1,1-Dichloroethene	EPA 8260	<50	ug/kg	MOS	00/24/2000
Dichloromethane	EPA 8260	<100	uaika	MOS	00/24/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<50	uqãea	MOS	09/24/2008
trans-1,2-Dichloroethene	EPA 8260	<50	ualka	MOS	00/24/2008
1,1-Dichloroethane	EPA 8260	<50	uo/ko	MOS	09/24/2008
2-Butanone	EPA 8260	<1300	ug/kg	MOS	00/24/2008
2,2-Dichloropropane	EPA 8260	<50	ualka	MOS	00/24/2008
cis-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MOS	00/24/2008
Chloroform	EPA 8260	<50	ug/ko	MOS	00/24/2008
Bromochloromethane	EPA 8260	<50	ua/ka	MOS	00/24/2008
Tetrahydrofuran	EPA 8260	<500	ualka	MOS	00/24/2000
1,1,1-Trichloroethane	EPA 8260	<50	uo/ko	MOS	09/24/2000
1,1-Dichloropropene	EPA 8260	<50	ug/kg	MOS	00/24/2000
Carbon Tetrachloride	EPA 8260	<50	sialica	MOS	09/24/2008
1,2-Dichloroethane	EPA 8260	<50	upika	MOS	00/24/2008
Benzene	EPA 8260	<50	ualka	MOS	09/24/2006
Trichloroethene	EPA 8260	<50	ug/kg	MOS	09/24/2008
1,2-Dichloropropane	EPA 8260	<50	uging	MOS	08/24/2008
Bromodichloromethane	EPA 8260	<50	ualka	MOS	09/24/2008
Dibromomethane	EPA 8260	<50	ugha	MOS	09/24/2008
4-Methyl-2-Pentanone	EPA 8260	<1300	uging	MOS	09/24/2008
cis-1.3-Dichloropropene	EPA 8260	<50	ug/kg	MOS	09/24/2008
Toluene	EPA 8260	<50	uging	MQS	09/24/2008
trans-1.3-Dichloropropene	EPA 8260	<100	uging	MOS	09/24/2008
1.1.2-Trichloroethane	EPA 8260	<50	ug/kg	Mus	09/24/2008
2-Hexanone	EPA 8260	<1300	ughg	MUS	09/24/2008
1,3-Dichloropropane	EPA 8260	<50	ug/kg	Mus	09/24/2008
		-00	a Augura	Mill O	09/24/2008



GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

Project Name .:	Charbert UIC Closure	Date Received:	09/19/2008	
Project No .:	03.0032795.26	Date Reported:	09/30/2008	
		work Order No.;	0809-00125	

Sample ID: Fill 1

Sample Date: 09/18/2008 Sample No.: 001

Analysis

Test Performed	Method	Results	Units	Tech	Date
Tetrachloroethene	EPA 8260	<50	ua/ka	MQS	09/24/2008
Dibromochloromethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dibromoethane (EDB)	EPA 8260	<100	ug/kg	MQS	09/24/2008
Chlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Ethylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
m&p-Xylene	EPA 8260	<100	ug/kg	MQS	09/24/2008
o-Xylene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Styrene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Bromoform	EPA 8260	<100	ug/kg	MQS	09/24/2008
Isopropylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2,3-Trichloropropane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Bromobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
n-Propylbanzane	EPA 8260	<50	ug/kg	MQS	09/24/2008
2-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,3,5-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
4-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	09/24/2008
tert-Butylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2,4-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
sec-Butylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
p-Isopropyitoluene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,3-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,4-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
n-Butylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<250	ug/kg	MQS	09/24/2008
1,2,4-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Hexachlorobutadiene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Naphthalene	EPA 8260	<100	ug/kg	MQS	09/24/2008
1,2,3-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Surrogates:	EPA 8260			0.000000000	-3-5.00 000000000
***1,2-Dichloroethane-D4	EPA 8260	89.9	% R	MQS	09/24/2008
***Toluene-D8	EPA 8260	98.5	% R	MOS	09/24/2008
***4-Bromofluorobenzene	EPA 8280	95.4	% R	MQS	09/24/2008
Preparation	EPA 5035	10	CF	MQS	09/24/2008
SEMI-VOLATILE ORGANICS	EPA 8270		2010	CMG	09/25/2008



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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

Project Name .:	Charbert UIC Closure	Date Received:	09/19/2008	540.1
Project No.:	03.0032795.26	Date Reported:	09/30/2008	
a sugar		Work Order No.:	0809-00125	

Sample ID: FIII 1

Sample Date: 09/18/2008

Sample No.: 001

Anabreis

Test Performed	Method	Results	Units	Tech	Date
Phenol	EPA 8270	<330	ua/ka	CMG	09/25/2008
2-Chlorophenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
2-Methylphenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
3&4-Methylphenol	EPA 8270	<330	uo/ka	CMG	09/25/2008
2-Nitrophenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
2,4-Dimethylphenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
Benzoic Acid	EPA 8270	<3300	ug/kg	CMG	09/25/2008
2,4-Dichlorophenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
4-Chloro-3-Methylphenol	EPA 8270	<660	ug/kg	CMG	09/25/2008
2,4,6-Trichlorophenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
2,4,5-Trichlorophenol	EPA 8270	<330	ua/ka	CMG	09/25/2008
2,4-Dinitrophenol	EPA 8270	<3300	ug/kg	CMG	09/25/2008
4-Nitrophenol	EPA 8270	<1700	ug/kg	CMG	09/25/2008
4,6-Dinitro-2-Methylphenol	EPA 8270	<1700	ua/ka	CMG	09/25/2008
Pentachlorophenol	EPA 8270	<1700	ug/kg	CMG	09/25/2008
n-Nitrosodimethylamine	EPA 8270	<330	ua/ka	CMG	09/25/2008
bis(2-Chloroethyl)Ether	EPA 8270	<330	ug/kg	CMG	09/25/2008
1,3-Dichlorobenzene	EPA 8270	<330	ua/ka	CMG	09/25/2008
1,4-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Benzyl Alcohol	EPA 8270	<660	ua/ka	CMG	09/25/2008
1,2-Dichlorobenzene	EPA 8270	<330	ua/ka	CMG	09/25/2008
bis(2-Chloroisopropyl)Ether	EPA 8270	<330	uo/ko	CMG	09/25/2008
n-Nitrosodi-n-Propylamine	EPA 8270	<330	ua/ka	CMG	09/25/2008
Hexachicroethane	EPA 8270	<330	ua/ka	CMG	09/25/2008
Nitrobenzene	EPA 8270	<330	ua/ka	CMG	09/25/2008
Isophorone	EPA 8270	<330	ua/ka	CMG	09/25/2008
bis(2-Chloroethoxy)Methane	EPA 8270	<330	un/kg	CMG	09/25/2008
1,2,4-Trichlorobenzene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Naphthalene	EPA 8270	<330	uo/ko	CMG	09/25/2008
4-Chloroaniline	EPA 8270	<660	up/kg	CMG	09/25/2008
Hexachlorobutadiene	EPA 8270	<330	ua/ka	CMG	09/25/2008
2-Methylnaphthaiene	EPA 8270	<330	ua/ka	CMG	09/25/2008
Hexachlorocyclopentadiene	EPA 8270	<1700	ua/ka	CMG	09/25/2008
2-Chioronaphthalene	EPA 8270	<330	ua/ka	CMG	00/25/2008
2-Nitroaniline	EPA 8270	<660	ug/kg	CMG	09/25/2008
Dimethylphthalate	EPA 8270	<330	ua/ka	CMG	09/25/2009
Acenaphthylene	EPA 8270	<330	ug/kg	CMG	09/25/2008



GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

Sample Date:

Project Name .:	Charbert UIC Closure	Date Received:	09/19/2008	
Project No :	03.0032795.26	Date Reported:	09/30/2008	
Magnetica.		Work Order No.:	0809-00125	

Sample ID: Fill 1

09/18/2008

Test Performed	Method	Results	Units	Tech	Analysis Date
2,6-Dinitrotoluene	EPA 8270	<330	ug/kg	CMG	09/25/2008
3-Nitroaniline	EPA 8270	<660	ug/kg	CMG	09/25/2008
Acenaphthene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Dibenzofuran	EPA 8270	<330	ug/kg	CMG	09/25/2008
2,4-Dinitrotoluene	EPA 8270	<330	ua/ka	CMG	09/25/2008
Diethylphthalate	EPA 8270	<330	ug/kg	CMG	09/25/2008
Fluorene	EPA 8270	<330	ug/kg	CMG	09/25/2008
4-Chlorophenyl Phenyl Ether	EPA 8270	<330	ua/ka	CMG	09/25/2008
4-Nitroaniline	EPA 8270	<660	ua/ka	CMG	09/25/2008
n-Nitrosodiphenylamine	EPA 8270	<330	uq/kg	CMG	09/25/2008
4-Bromophenyl Phenyl Ether	EPA 8270	<330	ug/kg	CMG	09/25/2008
Hexachlorobenzene	EPA 8270	<330	uo/ka	CMG	09/25/2008
Phenanthrene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Anthracene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Carbazole	EPA 8270	<330	ua/ka	CMG	09/25/2008
di-n-Butylphthalate	EPA 8270	<500	ug/kg	CMG	09/25/2008
Fluoranthene	EPA 8270	<330	ua/ka	CMG	09/25/2008
Pyrene	EPA 8270	<330	ua/ka	CMG	09/25/2008
Butylbenzylphthalate	EPA 8270	<330	ua/ka	CMG	09/25/2008
Benzo [a] Anthracene	EPA 8270	<330	ua/ka	CMG	09/25/2008
3,3'-Dichlorobenzidine	EPA 8270	<660	ua/ka	CMG	09/25/2008
Chrysene	EPA 8270	<330	ua/ka	CMG	09/25/2008
bis(2-Ethylhexyl)Phthalate	EPA 8270	<330	ua/ka	CMG	09/25/2008
di-n-Octylphthalate	EPA 8270	<330	ua/ka	CMG	09/25/2008
Benzo (b) Fluoranthene	EPA 8270	<330	ua/ka	CMG	09/25/2008
Benzo (k) Fluoranthene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Benzo (a) Pyrene	EPA 8270	<330	ua/ka	CMG	09/25/2008
Indeno [1.2.3-cd] Pyrene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Dibenzo [a,h] Anthracene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Benzo (g,h,i) Perviene	EPA 8270	<330	ug/kg	CMG	00/25/2000
Surrogates:			-3.05	onto	001202000
***2-Fluorophenol	EPA 8270	47.9	% R	CMG	00/25/2008
***Phenol-D6	EPA 8270	49.4	% R	CMG	00/25/2000
***Nitrobenzene-D5	EPA 8270	48.2	% R	CMG	00/25/2008
***2-Fluorobiphenyl	EPA 8270	48.5	% R	CMG	09/25/2008
***2,4,6-Tribromophenol	EPA 8270	57.4	%R	CMG	09/25/2008
***P-Terphenyl-D14	EPA 8270	72.2	% R	CMG	09/25/2008



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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

Server and server of		Work Order No.:	0809-00125	
Project No.:	03.0032795.26	Date Reported:	09/30/2008	
Project Name	Charbert IIIC Closure	Date Received:	09/19/2008	

Sample ID: Fill 1

Sample Date: 09/18/2008

Test Performed	Method	Results	Units	Tech	Analysis Date
Extraction	EPA 3545	1.0	DF	BAC	09/24/2008
POLYCHLORINATED BIPHENYLS	EPA 8082			TAJ	09/29/2008
Aroclor 1268	EPA 8082	<100	ug/kg	TAJ	09/29/2008
Aroclor 1262	EPA 8082	<100	ug/kg	TAJ	09/29/2008
Aroclor 1260	EPA 8082	<100	ug/kg	TAJ	09/29/2008
Aroclor 1254	EPA 8082	<100	ug/kg	TAJ	09/29/2008
Aroclor 1248	EPA 8082	<100	ug/kg	TAJ	09/29/2008
Aroclar 1242/1016	EPA 8082	<100	ua/kg	TAJ	09/29/2008
Aroclar 1232	EPA 8082	<100	ug/kg	TAJ	09/29/2008
Aroclar 1221	EPA 8082	<100	uq/kg	TAJ	09/29/2008
Surrogates:	EPA 8082				
***Tetrachloro-m-xylene	EPA 8082	47.6	% R	TAJ	09/29/2008
***Tetrachloro-m-xylene	EPA 8082	46.7	% R	TAJ	09/29/2008
***Decachlorobiphenyl	EPA 8082	91.7	% R	TAJ	09/29/2008
***Decachlorobiphenyl	EPA 8082	91.2	%R	TAJ	09/29/2008
Extraction	EPA 3545	1.0	DF	BAC	09/25/2008
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100	1020	(E))(RJD	09/30/2008
Hydrocarbon Content	Conception of the second	<10	ma/ka	RJD	09/30/2008
Surrogate:		1982	1100000		
""p-Terphenyl		54.2	% R	RJD	09/30/2008
Extraction	EPA 3545	1.0	DF	BAC	09/26/2008
PRIORITY POLLUTANT METALS				LLZ	09/22/2008
Beryllium	EPA 6010B	<0.27	mg/kg	LLZ	09/22/2008
Silver	EPA 6010B	<0.34	ma/ka	LLZ	09/22/2008
Arsenic	EPA 60108	<0.67	ma/ka	117	09/22/2008
Cadmium	EPA 6010B	<0.34	ma/ka	117	09/22/2008
Chromium	EPA 6010B	3.5	ma/ka	117	09/22/2008
Copper	EPA 6010B	2.0	ma/ka	LLZ	09/22/2008
Mercury	EPA 7471A	<0.0162	ma/ka	TN	09/24/2008
Nickel	EPA 6010B	0.97	ma/ka	117	09/22/2008
Lead	EPA 6010B	24	ma/ka	ILZ	09/22/2008
Antimony	EPA 6010B	<1.7	ma/ka	117	09/22/2008
Selenium	EPA 6010B	<1.7	ma/ka	117	09/22/2008
Thailium	EPA 6010B	<1.7	mo/ka	117	09/22/2008
Zinc	EPA 6010B	7.2	ma/ka	117	09/22/2008
Metals Preparation	EPA 3051	64.3	DFS	LLZ	09/22/2008
Metals Preparation for Sb	EPA 3051	65.6	DFS	LLZ	09/22/2008



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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

Project No.:	03.0032795.26	Date Reported: Work Order No.:	09/30/2008
Project Name.:	Charbert UIC Closure	Date Received:	09/19/2008

Sample ID: Fill 2 Sample Date: 09/18/2008

Test Performed	Method	Results	Units	Tech	Analysis Date
PERCENT SOLID	The second second	97.9	%	TAJ	09/23/2008
VOLATILE ORGANICS	EPA 8260			MQS	09/24/2008
Dichlorodifluoromethane	EPA 8260	<100	ug/kg	MQS	09/24/2008
Chloromethane	EPA 8260	<100	ug/kg	MQS	09/24/2008
Vinyl Chloride	EPA 8260	<50	ug/kg	MQS	09/24/2008
Bromomethane	EPA 8260	<100	ug/kg	MQS	09/24/2008
Chloroethane	EPA 8260	<60	ug/kg	MQS	09/24/2008
Trichlorofiuoromethane	EPA 8260	<100	ug/kg	MOS	09/24/2008
Diethylether	EPA 8260	<250	ug/kg	MQS	09/24/2008
Acetone	EPA 8260	<1300	ug/kg	MQS	09/24/2008
1,1-Dichloroethene	EPA 8260	<50	ua/ka	MQS	09/24/2008
Dichloromethane	EPA 8260	<100	ug/kg	MQS	09/24/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<50	ug/kg	MQS	09/24/2008
trans-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,1-Dichloroethane	EPA 8260	<50	ua/ka	MQS	09/24/2008
2-Butanone	EPA 8260	<1300	ug/kg	MQS	09/24/2008
2.2-Dichloropropane	EPA 8260	<50	ua/ka	MQS	09/24/2008
cis-1,2-Dichlaraethene	EPA 8260	<50	ua/ka	MOS	09/24/2008
Chloroform	EPA 8260	<50	ua/ka	MOS	09/24/2008
Bromochloromethane	EPA 8260	<50	ua/ka	MOS	09/24/2008
Tetrahydrofuran	EPA 8260	<500	ua/ka	MQS	09/24/2008
1,1,1-Trichloroethane	EPA 8260	<50	ua/ka	MOS	09/24/2008
1,1-Dichloropropene	EPA 8260	<50	ua/ka	MOS	09/24/2008
Carbon Tetrachloride	EPA 8260	<50	ua/ka	MOS	09/24/2008
1,2-Dichloroethane	EPA 8260	<50	ua/ka	MOS	09/24/2008
Benzene	EPA 8260	<50	ug/kg	MOS	09/24/2008
Trichloroethene	EPA 8260	<50	ua/ka	MOS	09/24/2008
1,2-Dichloropropane	EPA 8260	<50	ua/ka	MOS	09/24/2008
Bromodichioromethane	EPA 8260	<50	ua/ka	MOS	09/24/2008
Dibromomethane	EPA 8260	<50	ua/ka	MOS	09/24/2008
4-Methyl-2-Pentanone	EPA 8260	<1300	ualka	MOS	00/24/2000
cis-1,3-Dichloropropene	EPA 8260	<50	ualka	MOS	00/24/2008
Toluene	EPA 8260	<50	ualka	MOS	00/24/2000
trans-1,3-Dichloropropene	EPA 8260	<100	ug/kg	MOS	00/24/2000
1,1,2-Trichloroethane	EPA 8260	<50	uaka	MOS	00/24/2000
2-Hexanone	EPA 8260	<1300	Harria	MOS	09/24/2008
1.3-Dichloropropane	EPA 8260	<50	uaka	MOS	00/24/2000



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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

		Work Order No.;	0809-00125	
Project No.:	03.0032795.26	Date Reported.	0010012000	
r roject reame.	Charbert DIC Closure	Date Reported:	09/30/2008	
Project Name -	Charbert IIIC Closure	Date Received:	09/19/2008	
Tood Greene		22431.2342.94 232.03.0		

Sample ID: Fill 2 Sample Date: 09/18/2008

Test Performed	Method	Results	Units	Tech	Analysis Date
Tetrachloroethene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Dibromochloromethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dibromoethane (EDB)	EPA 8260	<100	ug/kg	MQS	09/24/2008
Chlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Ethylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
m&p-Xylene	EPA 8260	<100	ug/kg	MQS	09/24/2008
o-Xylene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Styrene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Bromotorm	EPA 8260	<100	ug/kg	MQS	09/24/2008
Isopropylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2,3-Trichloropropane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Bromobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
n-Propylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
2-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,3,5-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
4-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	09/24/2008
tert-Butylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2,4-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
sec-Butylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
p-isopropyltoluene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,3-Dichlorobenzene	EPA 8260	<60	ug/kg	MQS	09/24/2008
1,4-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
n-Butylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<250	ug/kg	MQS	09/24/2008
1,2,4-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Hexachlorobutadiene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Naphthalene	EPA 8260	<100	ug/kg	MQS	09/24/2008
1,2,3-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	83.6	% R	MQS	09/24/2008
***Toluene-D8	EPA 8260	98.3	% R	MQS	09/24/2008
***4-Bromofiuorobenzene	EPA 8260	94.8	% R	MQS	09/24/2008
Preparation	EPA 5035	10	CF	MQS	09/24/2008
SEMI-VOLATILE ORGANICS	EPA 8270	0.275	1000	CMG	09/25/2008



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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

Project Name :	Charbert UIC Closure	Date Received:	09/19/2008	
Project No :	03 0032795 26	Date Reported:	09/30/2008	
ingention.	00.0002100.20	Work Order No .:	0809-00125	

Sample ID: Fill 2

Sample Date: 09/18/2008

Test Performed	Method	Results	Units	Tech	Analysis Date
Phenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
2-Chlorophenol	EPA 8270	<330	ua/ka	CMG	09/25/2008
2-Methylphenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
384-Methylphenol	EPA 8270	<330	ua/ka	CMG	09/25/2008
2-Nitrophenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
2,4-Dimethylphenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
Benzcic Acid	EPA 8270	<3300	ug/kg	CMG	09/25/2008
2,4-Dichlorophenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
4-Chloro-3-Methylphenol	EPA 8270	<660	ug/kg	CMG	09/25/2008
2,4,6-Trichlorophenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
2,4,5-Trichlorophenol	EPA 8270	<330	ug/kg	CMG	09/25/2008
2.4-Dinitrophenol	EPA 8270	<3300	ua/ka	CMG	09/25/2008
4-Nitrophenol	EPA 8270	<1700	ug/kg	CMG	09/25/2008
4,6-Dinitro-2-Methylphenol	EPA 8270	<1700	ua/ka	CMG	09/25/2008
Pentachlorophenol	EPA 8270	<1700	ua/ka	CMG	09/25/2008
n-Nitrosodimethylamine	EPA 8270	<330	ua/ka	CMG	09/25/2008
bis(2-Chloroethyl)Ether	EPA 8270	<330	ua/ka	CMG	09/25/2008
1,3-Dichlorobenzene	EPA 8270	<330	ua/ka	CMG	09/25/2008
1,4-Dichlorobenzene	EPA 8270	<330	ualka	CMG	09/25/2008
Benzyl Alcohol	EPA 8270	<660	ua/ka	CMG	09/25/2008
1,2-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	09/25/2008
bis(2-Chloroisopropyl)Ether	EPA 8270	<330	ua/ka	CMG	09/25/2008
n-Nitrosodi-n-Propytamine	EPA 8270	<330	ug/kg	CMG	09/25/2008
Hexachloroethane	EPA 8270	<330	ug/kg	CMG	09/25/2009
Nitrobenzene	EPA 8270	<330	ug/kg	CMG	00/25/2000
Isophorone	EPA 8270	<330	ug/kg	CMG	09/25/2008
bis(2-Chloroethoxy)Methane	EPA 8270	<330	uo/ka	CMG	00/25/2008
1,2,4-Trichlorobenzene	EPA 8270	<330	uo/ko	CMG	09/25/2008
Naphthalene	EPA 8270	<330	uo/ko	CMG	09/25/2008
4-Chloroaniline	EPA 8270	<660	ua/ka	CMG	09/25/2008
Hexachlorobutadiene	EPA 8270	<330	uaka	CMG	09/25/2008
2-Methylnaphthalene	EPA 8270	<330	unko	CMG	00/25/2000
Hexachlorocyclopentadiene	EPA 8270	<1700	un/ko	CMG	00/25/2000
2-Chloronaphthalene	EPA 8270	<330	ug/kg	CMG	09/20/2008
2-Nitroaniline	EPA 8270	<660	ug/kg	CMC	00/25/2008
Dimethylphthalate	EPA 8270	<330	ualka	CMG	00/25/2008
Acenaphthylene	EPA 8270	<330	ug/kg	CMG	09/25/2008


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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

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0.0003020200000		Work Order No.:	0809-00125	
Project No.:	03.0032795.26	Date Reported:	09/30/2008	
Project Name .:	Charbert UIC Closure	Date Received:	09/19/2008	

Sample ID: Fill 2

Sample Date: 09/18/2008

Sample No.: 002

Test Performed	Method	Results	Units	Tech	Analysis Date
2,6-Dinitrotoluene	EPA 8270	<330	ua/ka	CMG	09/25/2008
3-Nitroaniline	EPA 8270	<660	uo/ka	CMG	09/25/2008
Acenaphthene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Dibenzofuran	EPA 8270	<330	ug/kg	CMG	09/25/2005
2.4-Dinitrotoluene	EPA 8270	<330	uo/ko	CMG	09/25/2008
Diethylphthalate	EPA 8270	<330	uo/ka	CMG	09/25/2008
Fluorene	EPA 8270	<330	ug/kg	CMG	09/25/2008
4-Chlorophenyl Phenyl Ether	EPA 8270	<330	ug/kg	CMG	09/25/2008
4-Nitroaniline	EPA 8270	<660	ua/ka	CMG	09/25/2008
n-Nitrosodiphenylamine	EPA 8270	<330	ua/ka	CMG	09/25/2008
4-Bromophenyl Phenyl Ether	EPA 8270	<330	ug/kg	CMG	09/25/2008
Hexachlorobenzene	EPA 8270	<330	ua/ka	CMG	09/25/2008
Phenanthrene	EPA 8270	<330	ua/ka	CMG	09/25/2008
Anthracene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Carbazole	EPA 8270	<330	ua/ka	CMG	09/25/2008
di-n-Butylphthalate	EPA 8270	<500	ua/ka	CMG	09/25/2008
Fluoranthene	EPA 8270	<330	uo/ka	CMG	09/25/2008
Pyrene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Butylbenzylphthalate	EPA 8270	<330	ug/kg	CMG	09/25/2008
Benzo (a) Anthracene	EPA 8270	<330	ug/kg	CMG	09/25/2008
3,3'-Dichlorobenzidine	EPA 8270	<660	ua/ka	CMG	09/25/2008
Chrysene	EPA 8270	<330	ua/ka	CMG	09/25/2008
bis(2-Ethylhexyl)Phthalate	EPA 8270	<330	ug/kg	CMG	09/25/2008
di-n-Octylphthalate	EPA 8270	<330	ua/ka	CMG	09/25/2008
Benzo (b) Fluoranthene	EPA 8270	<330	ua/ka	CMG	09/25/2008
Benzo [k] Fluoranthene	EPA 8270	<330	ua/ka	CMG	09/25/2008
Benzo (a) Pyrene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Indeno (1,2,3-cd) Pyrene	EPA 8270	<330	ua/ka	CMG	09/25/2008
Dibenzo (a,h) Anthracene	EPA 8270	<330	ug/kg	CMG	09/25/2008
Benzo (g,h,i) Perylena	EPA 8270	<330	ug/kg	CMG	09/25/2008
Surrogates:		1222			
***2-Fluorophenol	EPA 8270	50.7	% R	CMG	09/25/2008
***Phenol-D6	EPA 8270	52.5	% R	CMG	09/25/2008
***Nitrobenzene-D5	EPA 8270	51.2	% R	CMG	09/25/2008
***2-Fluorobiphenyi	EPA 8270	50.4	%R	CMG	09/25/2008
***2,4,6-Tribromophenol	EPA 8270	48.2	%R	CMG	09/25/2008
***P-Terphenyl-D14	EPA 8270	79.1	% R	CMG	09/25/2008



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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

Project Name.: Project No.:	Charbert UIC Closure 03.0032795.26	Date Received: Date Reported: Work Order No.:	09/19/2008 09/30/2008 0809-00125	2	
		Data Basalund	00/40/2000		

Sample ID: Fill 2 Sample Date: 09/18/2008

Sample No.: 002

Test Performed	Method Results		Units	Tech	Date	
Extraction	EPA 3545	1.0	DF	BAC	09/24/2008	
POLYCHLORINATED BIPHENYLS	EPA 8082			TAJ	09/29/2008	
Aroclor 1268	EPA 8082	<50	ug/kg	TAJ	09/29/2008	
Aroclor 1262	EPA 8082	<50	ug/kg	TAJ	09/29/2008	
Aroclor 1260	EPA 8082	<50	ug/kg	TAJ	09/29/2008	
Aroclar 1254	EPA 8082	<50	ug/kg	TAJ	09/29/2008	
Aroclor 1248	EPA 8082	<50	ug/kg	TAJ	09/29/2008	
Aroclor 1242/1016	EPA 8082	<50	ug/kg	TAJ	09/29/2008	
Aroclor 1232	EPA 8082	<50	ug/kg	TAJ	09/29/2008	
Aroclor 1221	EPA 8082	<50	ug/kg	LAT	09/29/2008	
Surrogates:	EPA 8082			33		
***Tetrachlorc-m-xylene	EPA 8082	63.0	% R	TAJ	09/29/2008	
***Tetrachloro-m-xylene	EPA 8082	62.4	% R	TAJ	09/29/2008	
***Decachlorobiphenyl	EPA 8082	96.6	% R	TAJ	09/29/2008	
***Decachlorobiphenyl	EPA 8082	96.4	%R	TAJ	09/29/2008	
Extraction	EPA 3545	1.0	DF	BAC	09/25/2008	
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100		유명사가	RJD	09/30/2008	
Hydrocarbon Content		<10	ma/ka	RJD	09/30/2008	
Surrogate:				00000		
***p-Terphenyl		62.2	% R	RJD	09/30/2008	
Extraction	EPA 3545	1.0	DF	BAC	09/26/2008	
PRIORITY POLLUTANT METALS				LLZ	09/22/2008	
Beryllium	EPA 6010B	<0.26	ma/ka	LLZ	09/22/2008	
Silver	EPA 6010B	< 0.33	ma/kg	LLZ	09/22/2008	
Arsenic	EPA 6010B	<0.66	ma/ka	LLZ	09/22/2008	
Cadmium	EPA 6010B	< 0.33	ma/ka	LLZ	09/22/2008	
Chromium	EPA 6010B	1.0	ma/ka	LLZ	09/22/2008	
Copper	EPA 6010B	1.4	mo/ka	LLZ	09/22/2008	
Mercury	EPA 7471A	<0.0156	mo/ka	TN	09/24/2008	
Nickel	EPA 6010B	<0.66	ma/ka	117	09/22/2008	
Lead	EPA 6010B	1.1	ma/ka	117	09/22/2008	
Antimony	EPA 6010B	<1.7	mo/ko	117	09/22/2008	
Selenium	EPA 6010B	<1.7	ma/ka	117	09/22/2008	
Thallium	EPA 6010B	<1.7	mo/ka	117	09/22/2008	
Zinc	EPA 6010B	5.2	ma/ka	117	09/22/2008	
Metals Preparation	EPA 3051	64.7	DES	117	09/22/2008	
Metals Preparation for Sb	EPA 3051	65.3	DES	117	09/22/2008	



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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

Project No.:	03.0032795.26	Work Order No.:	0809-00125
Project Nation	03 0032795 28	Date Reported:	09/30/2008
Deplace Mama -	Charbert IIIC Closure	Date Received:	09/19/2008
Toda alcene			

Sample ID: **Trip Blank**

Sample Date: 08/18/2008 Sample No.: 003

Test Performed	Method	Results	Units	Tech	Analysis Date	
VOLATILE ORGANICS	EPA 8260			MQS	09/24/2008	
Dichlorodifluoromethane	EPA 8260	<100	ug/kg	MQS	09/24/2008	
Chioromethane	EPA 8260	<100	ug/kg	MQS	09/24/2008	
Vinyl Chloride	EPA 8260	<50	ug/kg	MQS	09/24/2008	
Bromomethane	EPA 8260	<100	ug/kg	MQS	09/24/2008	
Chloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008	
Trichlorofluoromethane	EPA 8260	<100	ug/kg	MQS	09/24/2008	
Diethylether	EPA 8260	<250	ug/kg	MQS	09/24/2008	
Acetone	EPA 8260	<1300	ug/kg	MQS	09/24/2008	
1,1-Dichloroethene	EPA 8260	<50	ug/kg	MQS	09/24/2008	
Dichloromethane	EPA 8260	<100	ug/kg	MQS	09/24/2008	
Methyl-Tert-Butyl-Ether	EPA 8260	<50	ug/kg	MQS	09/24/2008	
trans-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	09/24/2008	
1,1-Dichloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008	
2-Butanone	EPA 8260	<1300	ug/kg	MQS	09/24/2008	
2,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	09/24/2008	
cis-1,2-Dichloroethene	EPA 8260	<50	ug/kg	MQS	09/24/2008	
Chloroform	EPA 8260	<50	ug/kg	MQS	09/24/2008	
Bromochloromethane	EPA 8260	<50	ug/kg	MQS	09/24/2008	
Tetrahydrofuran	EPA 8260	<500	ug/kg	MQS	09/24/2008	
1,1,1-Trichloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008	
1,1-Dichloropropene	EPA 8260	<50	ug/kg	MQS	09/24/2008	
Carbon Tetrachloride	EPA 8260	<50	ug/kg	MQS	09/24/2008	
1,2-Dichloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008	
Benzene	EPA 8260	<50	ug/kg	MQS	09/24/2008	
Trichloroethene	EPA 8260	<50	ug/kg	MQS	09/24/2008	
1,2-Dichloropropane	EPA 8260	<50	ug/kg	MQS	09/24/2008	
Bromodichloromethane	EPA 8260	<50	ug/kg	MQS	09/24/2008	
Dibromomethane	EPA 8260	<50	ug/kg	MQS	09/24/2008	
4-Methyl-2-Pentanone	EPA 8260	<1300	ug/kg	MQS	09/24/2008	
cis-1,3-Dichloropropene	EPA 8260	<50	ug/kg	MQS	09/24/2008	
Toluene	EPA 8260	<50	ug/kg	MQS	09/24/2008	
trans-1,3-Dichloropropene	EPA 8260	<100	ug/kg	MQS	09/24/2008	
1,1,2-Trichloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008	
2-Hexanone	EPA 8260	<1300	ug/kg	MQS	09/24/2008	
1,3-Dichloropropane	EPA 8250	<50	ug/kg	MQS	09/24/2008	
Tetrachioroethene	EPA 8260	<50	ug/kg	MQS	09/24/2008	



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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Todd Greene

Project Name :	Charbert LIIC Closure	Date Received:	09/19/2008	
Project No :	03 0032795 26	Date Reported	09/30/2008	
Projective.	03.00321 30.25	Work Order No.:	0809-00125	

Sample ID: Trip Blank

Sample Date: 09/18/2008 Sample No.: 003

Test Performed	Method	Results	Units	Tech	Date
Dibromochloromethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dibromoethane (EDB)	EPA 8260	<100	ug/kg	MQS	09/24/2008
Chlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Ethylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
m&p-Xylene	EPA 8260	<100	ug/kg	MQS	09/24/2008
o-Xylene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Styrene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Bromoform	EPA 8260	<100	ug/kg	MQS	09/24/2008
Isopropylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2,3-Trichloropropane	EPA 8260	<50	ug/kg	MQS	09/24/2008
Bromobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
n-Propyibenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
2-Chlorotoluene	EPA 8250	<50	ug/kg	MQS	09/24/2008
1,3,5-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
4-Chlorotoluene	EPA 8260	<50	ug/kg	MQS	09/24/2008
tert-Butylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1.2.4-Trimethylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
sec-Butylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
p-isopropyttoluene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,3-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,4-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
n-Butylbenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1.2-Dichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<250	ug/kg	MOS	09/24/2008
1,2,4-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Hexachlorobutadiene	EPA 8260	<50	ug/kg	MOS	09/24/2008
Naphthalene	EPA 8260	<100	ug/kg	MOS	09/24/2008
1,2,3-Trichlorobenzene	EPA 8260	<50	ug/kg	MQS	09/24/2008
Surrogates:	EPA 8260	1970		100000000	
***1,2-Dichloroethane-D4	EPA 8260	82.4	% R	MOS	09/24/2008
***Toluene-D8	EPA 8260	98.1	% R	MOS	09/24/2008
***4-Bromofluorobenzene	EPA 8260	92.2	% R	MQS	09/24/2008
Preparation	EPA 5035	10	CF	MQS	09/24/2008

GZA GEOENVIRONMENTAL, INC. ENVIRONMENTAL CHEMISTRY LABORATORY 106 SOUTH ST, HOPKINTON, MA 01748 MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 6010B ANALYSIS Metals by ICP

QUALITY CONTROL - SOLID

DATE PREPARED: 9/22/2008 QC Sample Method Blank Lab Control Sample LC Duplicate LCS/LCD Diff. Units mg/kg % Recovery % Recovery RPD Acceptance Limits Results 80-120 80-120 20% Analyte <0.500 84.0 84.8 0.97 Silver (Ag) Aluminum (Al) NA NA NA NA Arsenic (As) <1.00 89.8 90.8 1.02 NA NA NA Boron (B) NA Barium (Ba) NA NA NA NA Beryllium (Be) <0.400 93.3 94.4 1.12 Calcium (Ca) NA: NA NA NA Cadmium (Cd) <0.500 92.5 94.0 1.54 Cobalt (Co) NA NA: NA NA. 92.5 93.9 1.49 <0.500 Chromium (Cr) Copper (Cu) <1.50 106 106 0.60 NA NA NA Iron (Fe) NA Magnesium (Mg) NA NA NA NA Manganese (Mn) NA NA NA NA Molybdenum (Mo) NA NA NA NA <1.00 93.6 94.9 1.38 Nickel (Ni) 94.7 Lead (Pb) <1.00 93.1 1.62 Antimony (Sb) NA NA NA. NA <2.50 89.6 91.0 1.58 Selenium (Se) Strontium (Sr) NA NA NA. NA Titanium (Ti) NA NA NA NA Thallium (TI) <2.50 90.4 91.8 1.55 Vanadium (V) NA NA NA NA Zinc (Zn) <1.00 95.2 97.1 1.95 Zirconium (Zr) NA NA NA NA

Matrix Spike / Duplicate Spike performed as per method and

reported if assigned on Chain of Custody.

GZA GEOENVIRONMENTAL, INC. ENVIRONMENTAL CHEMISTRY LABORATORY 106 SOUTH ST, HOPKINTON, MA 01748 MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 6010B ANALYSIS Metals by ICP

QUALITY CONTROL - SOLID

QC Sample Method Blank Lab Control Sample LC Duplicate LCS/LCD Diff. Units mg/kg % Recovery % Recovery RPD Acceptance Limits Results 80-120 80-120 20% Analyte Silver (Ag) NA NA. NA NA Aluminum (Al) NA NA NA NA Arsenic (As) NA NA NA NA Boron (B) NA NA NA NA Barium (Ba) NA NA NA NA Beryllium (Be) NA NA NA NA Calcium (Ca) NA NA NA NA Cadmium (Cd) NA NA NA NA Cobalt (Co) NA NA. NA NA Chromium (Cr) NA NA. NA NA Copper (Cu) NA NA NA NA Iron (Fe) NA NA NA NA Magnesium (Mg) NA NA NA NA Manganese (Mn) NA NA NA NA Molybdenum (Mo) NA NA-NA NA Nickel (Ni) NA NA NA NA Lead (Pb) NA NA NA NA Antimony (Sb) <2.50 94.6 89.2 5.84 Selenium (Se) NA NA NA NA Strontium (Sr) NA NA NA NA Titanium (Ti) NA NA. NA NA Thailium (TI) NA NA. NA NA Vanadium (V) NA NA. NA NA Zinc (Zn) NA NA NA NA Zirconium (Zr) NA NA NA NA

Matrix Spike / Duplicate Spike performed as per method and reported if assigned on Chain of Custody.

DATE PREPARED: 9/22/2008 B

GZA GEOENVIRONMENTAL, INC. ENVIRONMENTAL CHEMISTRY LABORATORY 105 SOUTH ST. HOPKINTON, MA 01748 MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 7471A ANALYSIS Mercury by Cold Vapor Atomic Absorption

QUALITY CONTROL - Solid

Date Prepared: 09/23/08

QC Sample	Method Blank	Lah Control Sample	Lab Control Sample Duplicate	LC/LCD Difference
Units	mg/kg	% Recovery	% Recovery	RPD
Acceptance Limits	Results	80-120	80-120	30%
Analyte Mercury (Hg)	<0.025 (Sol)	96.8	95.5	1.37

RPD = Relative Percent Difference

G2A GesEnvironmental (m. 128 South Simpl Heptimes, MA 01748

APA Instant 6260 Sold Hold Market Marke (WB) and Lateratory Codes: Samular/Suprises (LCAS, CSD) Date

Rethod Black			Laboratory Control Rempto				Laboratory Co	wired Suraph Capilies				
Datis Analyzod:	8-3-62098	19-31-000	Ovin Analyzast	8747008			8749908					
Votatile Organitie	Cont. Lasting	Acception Unit	Spite Consentration + 2500-phg	% Ascovery	Assophance Limits	Vertical	% Baundery	Assessment Limite	Ventilet	640	1 Locale	i Maria
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Tart Rent Line	• 120	* 100	thttpcmsthare	110	70-130	- 10	112	75-133	refe.	3.46	1.85	() S
wyt sildenta	·	* 40	virge chicking	120	10130	68	104	73-130	-	1.26	- 25	: 32 2
PERCENDED AND	* 290	* 101	invensities.	18.5	76-100		04.7	79-130	ST		200	() (1
TOT-TAKE	* 50	* NO	charcetrate	84.7	70-130		80.0	10.130	120		200	
ADVOCUDANCES AND ADVIDE	< 100	s 100	Michael Fagerentheres	87.2	10-130	- 22	62.6	70,000	122		100	1.05
and the states.	* 250	* 258	theirel strar	85.8	75-130	100	87.0	PA viet	120	2.22	- 32	1.05
DISCIPLE	 1300 	< 1000	applore	08.1	75-130	- 22	64.3	100 1000		1222	- 98	1.129
1-Bottlercelture	# 50	* 00	1.1-Subirmethere		10,134	- 22 -	80.0	101-130		0.84	-19	5 C.
M2.DN-113	# 100	4. 500	FRECHLARS	100	70-100	-	88.7	70-126		5.54	- 425	1.104
doried here	* 50	s 40	Reference to an and the second	100.00	100120		26.7	10-198		1.20	-11	
arben tite. Bite	* 202		and have the state	44.4	70.199	-	82.3	70-138		0.16	-18	1.1
chiarceruli seta	* 190		A distance in the second		10.000	gec.	121	10-330	- 68	2.14	-25	- 34
CART Links & August 1	a 1964	4 1909	And the first strength of the strength of the	100.0	70-199	990	84.7	70-120	- 10	0.54	435	- 3 3
distantial in the second s	4 63		uncorthe manager (Larv)		10.150	09.	114	78-136	- 10	2.56	428	t = 2.3
Parking hit of states	1000	5.52	and make an	90.8	79-190	68	#1.8	78-136	-	0.81	-25	6 - K.
and Scholaster		2.22	Last Andread on the regime	92.0	20,100	6k -	87.0	75-190	100	5.68	425	2 69
. Subday and any		2.2	traca-1,2-distrancemente	99.0	70-130	ek.	100.1	78-130	- 10	1.45	+25	8 - S.
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exploritly enser (ma-a)	< 100 ····	- 120	di-texperant/ effect (DIFE)	12.0	T0-130	001	100.00	78-180	100	15-14	1.24	- 30
the part procession of the procession	 100 	* 120	minut bert-buildt atten (EithE)	64.4	70 130	-	94.5	24.193		0.00	- C.C.	1.102
ryl woolfarter	* 13DE	* 1300	etry/acadeta	10.4	70,130		00.1	100 1000		0.04	140	6 - S.B
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-Schoropopere	- 50	* 50	2 B-Schipropropriation	100.4	75.155		107.0	10-130	100	873	<25	1.10
1,2-db/torsel/anal	7. 50	4 80	sin t. 2 dictionations	-	10.154	- 22		13-08		1.00	-120	
ontern	< 80	* 50	of strendome.		10 100			104 (30)	108	2.08	478	1.10
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E-Middingon Barris	* 55		to a dispersion of the	118	79.138	- 48.	114	70-150		4.41	-25	1.156
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Series Subdivision in the	1.2	3 M	1,1-construction per se	96.3	70-138	- 44	98.7.	70-t3#		1.87	-58	- CI
and the second			carden teracterate	90.8	79-130	-	98.6	70-150		1.00	100	2 - 33
- norder dire	4 30	- B	1,2-sickorpethares	90. T	70-550	- 68	95.0	70-130	168	3.00	134	(-5)
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darah padibal albar (TAME)	* 100	< 100	terf-croyl mattyl alliae (TAME)	94.2	70 00		40.9	35.144	122	1.14	222	
toreatheres	- * M	< 50	Elicitativelywhe	63.61	70.630	et .	103.7	80.154	22	1.10	200	1.12
dichleropropera	* 50	- 51	1.2-districencemptors	54.1	70,500			10.000	- CT	0.11	100	
restationers/here	HC 80	* 50	bromucicitizm mathema	No. O	70-150			10-120		0.08	249	
Clining	 \$5000 	* 5008	1.4-Director	10.0	10.155		100.0	70-130	08	0.45	<26	.
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the set of			de Cardena aproparia	87.1	70-130	88	96.3	10.130	oè.	1.22	128	
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2 100 10 10 10 10		* ND	1, 1.2-Michiohadhere	#f.#	76-530	-	12.0	70-110	10	1.13	+26	1.12
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IS24 GeoGreenerum, Inc. GB Routh Street Hightratin, WA 01748

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2-TUXONOM	DVOL.	Surgery (%) 33.6	Antegrand Circle 2010

2-FLOOMEPHENOL	103.0	22-126
PHENCELOR	87.2	33-130
NITROBOX2040 DB	82.4 C	30-130
3-FLUXING HINKING	188 T	13+M
244-198906034940	63.0	33-150
# "ERPHENIE.Cris	1 100	23430
		100000

1028 Gautinurarrante, m. 105 South Steel Headering, MA 11745

EPA Method NETS Suite Interfact (Rame (MS) and Later Way Genter Sumple (LOS) Data

Laboratory Cardrel Rempia			
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THE REAL PROPERTY IN THE REAL PROPERTY INTERNAL	48.2	45-140	100
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hasadMoodbubadiana	41.0	40.140	
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2 moltal agricultures area	63.8	44-140	- 19
ALC: NOT THE PARTY OF THE PARTY	20.0	40-140	100
hand for which perturbers	30.0	28-130	100
EA.B.Fictoriotana	30.6	39-530	d9.
2.4.5-Corectorers	43.1	16-120	- 44
2-0900 Million	10.7	63.962	49
dir affedetetta ala	56.2	43.140	
waraphtholene	12.1	43-145	
1.5-Silfroduera	41	43-542	78.
and a second sec	42.4	40-140	
2.4 distitudiants	7.00	35130	- 220
dimmology.	45.8	\$3.143	28
+ ritic/au	68.4	35-130	- 28
Collector and allo	44.0	40-140	08
Sure/e	48.0	101101	
4-criterophysical presidents	45.05	40-140	1.4
s some the	09.5	60.160	10
n. Microsoficities and an inco	308	10100	122
sizbetizine	10.0	40-140	- 22
4 instreament story allul	81.4	80-140	- 166 - I
Peracticicitingeacture	90.6	40-11D	200
and the design of the second se	40.7	40-140	100
statuter@rere	410	10.140	- E
arthe science	64.Z	40-140	100
refinite the	10.4	42-540	-64
Contract Copy of Taxable	04.3	40-040	-
ALC: NO.	28.2	40-145	10
WINES	72.7	49.147	- 48
Ut a local state of the state o	64.7	40.642	-08
1.7-d Thompson in the	75,4	40.147	58
Contraction of Contra	62.0	80.141	- 22
raid-street wood proto-size	98.6	40-140	-
	92.5	65183	ob
and a little state in the second	10.0	89140	68
water tal pyram	65.0	40-140	10
Adams (1,2,3 +4) evines	62.7	(60.100)	10
noets (a/d antivaciere	63.0	40-140	48
and the second	160 ···	40.140	- 45
OM others share 135 planates	a to assess a final	-	
	0.000	R	
Larra galant	Recompto (%)	Assertance Under	lines in the

Surregelus:	Recommence (%)	Assertance Lords.	Marchel .
24UKKAOPHENER,	80.2	26-130	28.
PHENOL-DB	49.6	35-190	-
NTROBENZING GA	45.7	38.180	- 26
2PULIORERA PHENYL	44.7	30.730	- 100
2.4.8-TRUERCEACH-ENCL	57.3	10-130	48.
IP TERPHENYL-DIA	80.2	40.130	108

GZA GEOENVIRONMENTAL, INC. ENVIRONMENTAL CHEMISTRY LABORATORY 106 SOUTH STREET, HOPKINTON, MA 01748 MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 8082 ANALYSIS QUALITY CONTROL SOLID

DATE EXTRACTED: 09/25/08 DATE ANALYZED: 09/29/08

METHOD BLANK POLYCHLORINATED BIPHENYLS & AROCLORS	Conce ug/L	ntration ~PPB	Quantitation Limit ug/L-PPB
Arocler 1262	N	D	25
Aroclar 1260	N	D	25
Aroclor 1254	N	D	25
Aroclor 1248	N	D	25
Aroclor 1242/1016	N	D	25
Araclar 1232	N	D	25
Aroclor 1268	N	D	25
Arocior 1221	N	D	25
Surrogates:	(A)	(B)	100
Tetrachloro-m-xylene	65.7	67.0	30-150
Decachlorobipheny1	96.9	100	30-150

% Recovery		Acceptance Limits
(A)	(B)	
71.9	72.9	40-140
99.8	99.8	40-140
		1.000 CHIEN.
55.7	58.7	30-150
95.2	95.5	30-150
	% Re (A) 71.9 99.8 55.7 95.2	% Recovery (A) (B) 71.9 72.9 99.8 99.8 55.7 58.7 95.2 95.5

LABORATORY CONTROL DUPLICATE (LCSD)	% Re	covery	Acceptance Limits
	(A)	(B)	
Aroclar 1016	77.0	82.5	40-140
Aroclor 1260	102	99.0	40-140
Surrogates:			
Tetrachloro-m-xylene	67.5	67.8	30-150
Decachlorobiphenyl	101	99.5	30-150

RELATIVE PERCENT DIFFERENCE (RPD)	R	PD	Acceptance Limits
Arocior 1016	6.85	12.4	30
Aroclor 1260	2.18	0.80	30
Surrogates:		- 13	2.20
Tetrachioro-m-xylene	19.2	14.4	30
Decachlorohipheny1	5.91	4.10	30

*Matrix Spike/Duplicate Spike performed as per method and reported if assigned on Chain of Custody.

190

(781) 271 FAX (508) 4	106 South Hopkinton, I	ZA GEOENVIRI Labaratory	MANAGER: UV	SHED BY WITHING DATE	TA A LOS OF MILLION	REHEDUIK WINNING DATE	INER TYPE ID. Boatin C. C.			Inder de	T DIONE	Filla	7	Sample I.D.		N-OF-CUSTOD
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		NC.	a	100 3.10	A Glates	BY MELIDIN	must o - omen			~		e	~	Sackar Stackar GW-Ground W SW-Startus W WW-Venam W SW-Dreating W Pu-Product Office (speedy)	Matrix	
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LAGOON 5 DREDGE STOCK PILE



Page 1 of 11

CERTIFICATE OF ANALYSIS

GZA / Geoenvironmental, Inc. Attn: Mr. Steve Andrus 530 Broadway Providence, RI 02909 Date Received: 1/6/09 Date Reported: 1/8/09 P.O. #: Work Order #: 0901-00162

DESCRIPTION: GZA FILE# 32795.16 CHARBERT LAGOON 5 REMEDIATION ALTON, RI

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015 NH-253700 A & B, USDA S-41844

If you have any questions regarding this work, or if we may be of further assistance, please contact our customer service department.

Approved by:

Data Reporting

enc: Chain of Custody

41 Illinois Avenue, Warwick, RI 02888 Phone: 401.737.8500 Fax: 401.738.1970



Page 2 of 11

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

GZA / Geoenvironmental, Inc. Date Received: 1/6/09 Work Order #: 0901-00162

Approved by: Data Reporting

- -----

Sample # 001 SAMPLE DESCRIPTION:	DRSTPL-1	12072420			PE 2011	
SAMPLE TYPE: GRAB		SAMP	LE DATE/TIME:	1/05/2009 @	16:30	
	SAMP	LE DET.			DATE	
PARAMETER	RESU	TS LIMIT	UNITS	METHOD	ANALYZED	ANALYST
трн						
TPH GC/FID	\$60	10.	mg/kg dry	SW846 8100M	1/8/09	CDC
Moisture	10		×.	SM2549 G.	1/6/09	MAZ
Estraction date	Extracted	6		SW846 3545	1/7/09	IPP
Volatile Organic Compounds						
Benzene	<0.03	0.03	mg/kg dry	5035/82608	1/7/09	MMM
Bromobenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Brossechlocomethane	<8.03	0.03	mg/kg dry	S035/82608	1/7/09	MMM
Bromodichiloromethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Bromoform	<0.03	0.03	mg/kg dry	5035/82608	1/7/09	MMM
Bromoracthane	<0.13	0.13	mg/kg dry	5035/8260B	1/7/09	MMM
n-Butylbenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Sec-buty/benzene	0.06	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
tert-Butylbenzene	<0.03	0.03	mg/kg dry	5035/82608	1/7/09	MMM
Carbon Tetrachloride	<0.03	0,63	ing/kg dry	5035/8260B	1/7/09	MMM
Chlorobenzene	<0.03	0.63	ing/kg dry	5035/8260B	1/7/09	MMM
Chloroethane	<0.13	0.13	mg/kg dry	5035/82608	1/7/09	MMM
Chlorofurm	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Chloromethane	<0.13	0,13	mg/kg dry	5035/82608	1/7/09	MMM
2-Chlorotolume	0.12	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
4-Chlorotobuene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Dibromochloromethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,2-Dibromo-3-Chlaropropane	<0.05	0.05	mg/kg dry	5035/8260B	1/7/09	MMM
1,2-Dihromoethane(EDB)	<0.03	0.03	mg/kg dry	5035/82608	1/7/09	MMM
Dibcomomethase	<0.05	0.05	mg/kg dry	5035/8260B	1/7/09	MMM
1,2-Dichiorobenzene	<0.03	0.03	mg/kg dry	5035/82608	1/7/09	MMM
1.3-Dichlorobenzene	<0.03	0,63	mg/kg dry	5035/8260B	1/7/09	MMM
1.4-Dichlorobenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM.
Dichlorodifiuurumethane	<0.13	0.13	mg/kg dry	5035/8260B	1/7/09	MMM
1,1-Dichloroethane	<0.03	0.03	mg/kg dry	5035/82608	1/7/09	MMM
1.2-Dichloroethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,1-Dichloroethene	<0.03	0.03	me/ka dry	5035/8260B	1/7/09	MMM
cis-1,2-Dichloroethese	5.4	1.3	mg/kg dry	5035/8260B	1/8/09	MMM
trans-1,2-Dichlamethylene	0.10	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1.2-Dichloropropane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1.3-Dichloropropane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
2.2-Dichloropropane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
		- P. 15 P.			- 20 A C C C	

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R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

GZA / Geoenvironmental, Inc. Date Received: 1/6/09 Work Order #: 0901-00162

Approved by: Data Reporting

Sample # 001 SAMPLE DESCRIPTION: DRSTPL-1 SAMPLE TYPE: GRAB

	SAMPLE	DET.			DATE	
PARAMETER	RESULTS	LIMIT	UNITS	METHOD	ANALYZED	ANALYST
1,1-Dichloropropene	<0.03	0.03	mg/kg dry	\$035/8260B	1/7/09	MMM
Ethylbenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Hexachlorobutadiene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Isopropylbenzene	0.06	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
p-lappropyltolume	0.08	0.03	mg/kg dry	3035/8260B	1/7/09	MMM
Methylene Chloride	<0,10	0.10	mg/kg dry	5035/8260B	1/7/09	MMM
n-Propylbenzine	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Naphthalene	0.40	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Styrene	<0.03	0.03	mg/kg dry	\$035/8260B	1/7/09	MMM
1,1,1,2-Tetrachloroethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MANAM
1,1,2,2-Tetrachloroethane	<0.03	0.03	mg/kg dry	\$035/8260B	1/7/09	MMM
Tetrachloroethese	240	13	mg/kg dry	5035/8260B	1/8/09	MMM
Toluene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,2,3-Trichlorobenzese	<0.03	0.03	mg/kg dry	5035/\$260B	1/7/09	MMM
1,2,4-Trichlorobenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,1,1-Trichloroethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,1,2-Trichlorochane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Trichloroethene	6.2	1.3	mg/kg dry	5035/8260B	1/8/09	MMM
Trichkorofluoromethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,2,3-Trichloropropane	<0.03	0.03	mg/kg.dry	5035/8260B	1/7/09	MMM
1,2,4-Trimethylbenzene	0.07	0.03	mg/kg dry	5035/82608	1/7/09	MMM
1,3,5-Trimethylbenzene	0.05	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Vinyl Chloride	0.13	0.026	mg/kg dry	5035/8260B	1/7/09	MMM
o-Xylene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
m.p-Xylene	0.05	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Total Xylene	0.05	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Methyl Tertiary Butyl Ether (MTBE)	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Surrogates			RANGE	5035/826019	1/7/09	MMM
Dibromofluoromethane	92		70-130%	5035/8260B	1/7/09	MMM
Tolume-dli	94		70-130%	5035/8260B	1/7/09	MMM
4-Bromofluorobenzene	97		70-130%	5035/8260B	1/7/09	MMM
1,2 Dichloroethane-d4	94		70-130%	5035/8260B	1/7/09	MMM
Semi-Volatile Organic Compounds						
Acmaphthene	<0.36	0.36	mg/kg dry	SW-845 8270D	1/8/09	RGM
Acessiphthylene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Anthraoene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Benzidine	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Benzo(a)amhraonne	<0.36	0.36	mg/kg dry	SW-846-8270D	1/8/09	RGM

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R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

GZA / Geoenvironmental, Inc. Date Received: 1/6/09 Work Order #: 0901-00162

Aly Approved by: Data Reporting

Sample # 001 SAMPLE DESCRIPTION: DRS	TPL-I	10-10-00 - 0-10			No Marik	
SAMPLE TYPE: GRAB		SAMPL	E DATE/TIMI	C: 1/05/2009 @ 1	6:30	
	SAMPLE	DET.			DATE	
PARAMETER	RESULTS	LIMIT	UNITS	METHOD	ANALYZED	ANALYS
Benzo(b)fluoranthene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Benzo(k)fluoranthene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Benzo(g,h,i)perylene	≪0.36	0,36	mg/kg dry	SW-846 8270D	178/09	ROM
Benzo(a)pyrene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Bis(2-chloroethyl)ether		0.36	mg/kg dry	SW-846 8270D	178/09	RGM
Bis(2-Chloroetboxy)methane	<0.36	0.36	mg/kg dry	SW-846 5270D	1/8/09	RGM
Bis(2-Chloroisopropyl)Ether	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Bis(2-ethylhexyl)phthalate	0.38	0.36	mg/kg dry	5W-846 8270D	1/8/09	RGM
4-Bromophenyl phenyl ether	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Butylbenzyl phthalate	<0.36	0.36	mg/kg dry	5W-846 8270D	138/09	RGM
2-Chloronaphthalene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
4-Chicrophenyl phenyl other	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Cheysene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Dibonzo(a,h)anthracime	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Di-n-butyi phthalate	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
1,2-Dichlombenzene	<0.36	0.36	mg/kg dry	SW-845 8270D	1/8/09	RGM
1,3-Dichlorobenzene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
1,4-Dichlombenzene	<0.36	0.36	mg/kg dry	SW-845 8270D	1/8/09	RGM
3,3'-Dichlorobenziding	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Disthyl phthalate	<0.36	0.36	mg/kg dry	SW-845 8270D	1/8/09	RGM
Dimethyl phthalate	<0.36	0.36	mg/kg dry	SW-845 8270D	1/8/09	RGM
2,4-Distinotolizana	<0.36	0.36	mg/kg dry	SW-845 8270D	1/8/09	RGM
2,6-Dinitrotolume	<0.36	0.36	ing/kg dry	SW-846 8270D	1/8/09	RGM
Di-n-octyl phthalate	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
1,2-Diphroythydrazine	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Fluoranthene	0.56	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Fluorene	<0.36	0.36	mp/kg dry	SW-846 8270D	1/8/09	RGM
Henachlorobenzene	<0.36	0.36	mp/kg dry	SW-846 8270D	1/8/09	RGM
Hexachlurobutadiene	<0.36	0.36	markg dry	SW-846 8270D	1/8/09	ROM
Hexachlorocyclopentadiene	<0.36	0.36	mafkg dry	SW-845 8270D	1/8/09	RGM
Hexachloroethane	<0.36	0.36	mayles day	SW-846 \$270D	1/8/09	RGM
indeno(1.2.3-od)pyrene	<0.36	0.36	mg/kg dry	SW-846 \$270D	1/8/09	RGM
sopharone	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
2-Methyinaphthalene	<0.36	0.36	mplkg dry	SW-846 8270D	1/8/09	RGM
Naphthalenc	<0.36	0.36	mplkg dry	SW-846 8270D	1/8/09	ROM
Nitmbenzene	<0.35	0.36	moke dry	SW-845 8270D	1/8/09	RGM
N-nitrosodimethylamine	<0.16	0.36	malke dry	SW-846 8270D	1/8/09	RGM
N-nitrosodintenvlamine	-01.16	0.16	meller day	SW-846 \$270D	1/8/09	RCM

mg/kg dry

mg/kg dry

0.16

<0.36

SW-846 8270D

SW-846 8270D

1/8/09

1/8/09

RGM

RGM

N-nitrosodi-n-propylamine

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R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

GZA / Geoenvironmental, Inc. Date Received: 1/6/09 Work Order #: 0901-00162

Approved by: Data Reporting

Sample # 001 SAMPLE DESCRIPTION: DRSTPL-1 SAMPLE TYPE: GRAB

	SAMPLE	DET.			DATE	
PARAMETER	RESULTS	LIMIT	UNITS	METHOD	ANALYZED	ANALYST
Phenanthrene	0.95	0.36	ing/kg dry	SW-846 8270D	1/8/09	RGM
Pyrene	0.70	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
1,2,4-Trichlorobenzene	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
4-Chiloro-3-methylphenol	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
2-Chiceophenol	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,4-Dichlorophenol	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,4-Dimethylphenol	<0.36	0.35	mg/kg dry	SW-846 8270D	178/09	RGM
2-Methyl-4,6-dinitrophenol	<0,36	0.36	mp/kg dry	SW-846 8270D	1/8/09	RGM
2,4-Dinitrophenol	<0.36	0.36	ing'kg dry	SW-846 8270D	1/8/09	RGM
2-Nitrophenot	<0.36	0,36	mp/kg dry	SW-846 8270D	1/8/09	RGM
4-Nitrophenol	<0.36	0.36	imp/kg dry	5W-846 8270D	1/8/09	RGM
Pentachlorophenol	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Phonol	<8.36	0.36	mp/kg dry	SW-846 8270D	1/8/09	RGM
2,4,5-Trichlorophenol	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,4,6-Trichlorophenol	<0.36	0.36	img/kg dry	5W-846 8270D	1/8/09	RGM
4-Chilceoaniline	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Dibenzofuran	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
2-Methyl Phenol	<0.36	4.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
3 & 4-Methylphenois	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Aniline	<0,36	0.36	mg/kg dry	SW-846 \$270D	1/8/09	RGM
Acciophenone	<0.36	0.36	mg/kg dry	SW-846 8270D	1/8/09	ROM
Azobenzese	<0,36	0.36	mg/kg dry	SW-846 8270D	1/8/09	RGM
Surrogates			RANGE	SW-846 8270D	1/8/09	RGM
Phonol-d5	73		30-130%	SW-846 8270D	178209	RGM
2-Fluxeophenol	48		30-130%	SW-846 8270D	1/8/09	RGM
2,4,6-Tribeomophenol	19		30-130%	5W-846 8270D	178/09	RGM
Nitrobenzene-d5	52		30-130%	SW-846 8270D	1/8/09	RGM
2-Fluceohiphenyt	57		30-130%	SW-846 8270D	1/8/09	RGM
P-Tephenyl-d14	75		30-130%	SW-846 8270D	178/09	RGM
Extraction date	Extracted			SW846 3545	1/7/09	JPP
Total Metals						
Arsenic	4.8	1.6	mg/kg dry	SW-846 6010	1/7/09	LW
Bacium	32	0.54	mg/kg dry	SW-846 6010	1/7/09	LW
Cadmium	<0.27	0.27	ing/kg dry	SW-846 6010	1/7/09	LW
Chromium	16	1.6	mg/kg dry	5W-846 6010	1/7/09	LW
Land	38	22	mg/kg dey	SW-846 6010	t/7/09	LW
Mercury	0.38	0.11	mg/kg dry	5W-846 7471A	1/7/09	LW
Selenium	<11	11	mg/kg dry	SW-846 6010	1/7/09	LW

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R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

GZA / Geoenvironmental, Inc. Date Received: 1/6/09 Work Order #: 0901-00162

hli Approved by: Data Reporting

Sample # 001 SAMPLE DESCRIPTION: SAMPLE TYPE: GRAB	DRSTPL-1		SAMPL	E DATE/TIME:	1/05/2009 @	16:30	
BADAMPTED		SAMPLE	DET.	TIMPER	METHOR	DATE	
PARAMETER		RESULTS	LIMIT	UNITS	METHOD	ANALYZED	ANALYSI
Silver		<11	1.1	mg/kg dry	SW-846 6010	1/7/09	LW
TCLP Metala							
Arsmic		<1.0	1.0	mg/i	SW-846 6010	1/8/09	LW
Berium		<2.0	2.0	mg/l	SW-846 6010	1/8/09	LW
Cadmium		<0.050	0.050	mg/5	SW-846 6010	1/8/09	LW
Chromium		<0.30	0.30	mg/l	SW-846 6010	1/8/09	LW
1.087		100000	100.25	C1115C21	Caraba in You Could by	17 0 12 DOL 19	211.00

Lead	<0.40	0.40	mg/l	5W-846 6010	1/8/09	LW
Mercury	<0.0005	0.0005	mg/t	SW-846 7470A	1/8/09	LW
Selenium	<1.0	1.0	mg/l	SW-846 6010	1/8/09	LW
Silver	<0.20	0.20	mg/l	SW-846-6010	1/8/09	LW

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R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

GZA / Geoenvironmental, Inc. Date Received: 1/6/09 Work Order #: 0901-00162

2,2-Dichlerepropane

bili Approved by: Data Reporting

Sample # 002 SAMPLE DESCRIPTION: DRST	PL-2					
SAMPLE TYPE: GRAB		SAMPL	E DATE/TIME:	1/05/2009 @ 1	6:30	
	SAMPLE	DET.			DATE	
PARAMETER	RESULTS	LIMIT	UNITS	METHOD	ANALYZED	ANALYS'
три						
TPH GC/FID	1000	311	map/kg: dra/	SW845 8100M	1/8/09	CDC
Moisture	12		54	5M2540 G	1/6/09	MAZ
Extraction date	Estincted			SW846 3545	1/7/09	3PP
Volatile Organic Compounds						
Benzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Bromobenzine	< 9.03	0.03	merke dry	5035/8260B	1/7/09	MMM
Bromochloromethaae	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Bramadichloromethane	<9.03	0.03	marke dry	5035/8260B	1/7/09	MMM
Bromoform	<0.03	0.03	marke dry	\$035/8260B	1/7/09	Mindod
Bromomethine	<0.14	0.14	mp/kg dry	5035/8260B	1/7/09	MMM
n-Butylbenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Sec-butylbenzone	0.06	0.03	marke dry	5035/8260B	1/7/09	MMM
tert-Buty/benzene	<0.03	0.03	ma/kg dry	5035/8260B	1/7/09	MMM
Carbon Tetrachioride	<0.00	0.03	mg/kg dry	3035/8260B	1/7/09	MMM
Chlorobenzane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Chlaroethans	<0.14	0.14	mg/kg dry	5035/8260B	1/7/09	MMM
Chloroform	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Chloromethane	<0.14	0.14	mg/log dry	5035/8260B	1/7/09	MMM
2-Chiorotolizene	0.17	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
4-Chlorotoluene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Disconnochtiorownethane	<0.03	0.03	ing/kg dry	5035/8260B	1/7/09	MMM
1,2-Dibromo-3-Chloropropane	<0.05	0.05	mg/kg dry	5035/8260B	1/7/09	MMM
1,2-Dibromoethane(EDB)	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Dibromamethane	<0.05	0.05	mg/kg dry	5035/8260B	1/7/09	MMM
1,2-Dishlorobenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,3-Dicklorobenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,4-Dichloruberizene	<0.03	0.03	mg/kg dry	5035/82608	1/7/09	MMM
Dichiorostifluorossethane	<0.14	0.14	ing/kg dry	5035/8260B	1/7/09	MMM
1,1-Dichloroethane	<0.01	0.03	ing/kg dry	5035/8260B	1/7/09	MMM
1,2-Dichloroothane	<0.03	0.93	ing/kg dry	5033/8260B	1/7/09	MMM
I,I-Dichloromhene	<0.03	0.03	ing/kg dry	5035/8260B	1/7/09	MMM
cis-1,2-Dichloroethene	5.8	1.4	mg/kg dry	5035/8260B	1/8/09	MMM
trans-1,2-Dichlumethylene	0.10	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,2-Dichloropropane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,3-Dichloropeopane	<0.03	0.03	mæ/kg dry	5035/8260B	1/7/09	MMM

<0.03

0.03

mg/kg dry

5035/8260B

1/7/09

MMM

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R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

GZA / Geoenvironmental, Inc. Date Received: 1/6/09 Work Order #: 0901-00162

Approved by: Data Reporting

Sample # 002 SAMPLE DESCRIPTION: DRSTPL-2 SAMPLE TYPE: GRAB

	SAMPLE	DET.			DATE	
PARAMETER	RESULTS	LIMIT	UNITS	METHOD	ANALYZED	ANALYST
1,1-Dichloropropese	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Ethylptnonn	<0.03	0.03	mg/kg dry.	5035/82608	1/7/09	MMM
Hexachiorobutadiene	<0.03	0.03	ing/kg dry	3035/8250B	1/7/09	MMM
Isopropylbanzene	0.06	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
p-Isopropyltologue	0.09	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Methylene Chlonde	<0.11	0.11	mg/kg dry	5035/82608	1/7/09	MMM
e-Propylbenzene	<0.03	0.03	ing/kg dry	5035/82608	1/7/09	MMM
Naphthalene	0.38	0.027	mg/kg dry	5035/82608	1/7/09	MMM
Styrone	<0.03	0.93	mg/kg dry	5035/8260B	1/7/09	MMM
1,1,1,2-Tetrachloroethane	<0.03	0.03	mg/kg dry	5035/82608	1/7/09	MMM
1,1,2,2-Tetrachloroethane	<0.03	0.03	mg/kg dry	5035/82608	1/7/09	MMM
Tetrachloroethene	2.50	5.4	mg/kg dry	5035/82608	1/8/09	MMM
Toluene	<0.03	0.03	mg/kg dry	5035/82508	1/7/09	MMM
1,2,3-Trichlorobenzene	<0.03	0.03	mg/kg dry	503 S/8260B	1/7/09	MMM
1,2,4-Trichlorobenzene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
L.I.JTrichiloroethane	<0.03	0.03	mg/kg dry	5035/82608	1/7/09	MMM
1,1,2-Trichloroethane	<0.03	0.03	mg/kg dry	5035/82608	1/7/09	MMM
Trichloroethene	6.7	1.4	mg/kg dry	5035/82608	1/8/09	MMM
Trichlerofluoromethane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,2,3-Trichloropropane	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,2,4-Trimethylbenzene	0.08	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
1,3,5-Trimethylhenzene	0.05	0.03	mg/kg dry	5035/8260B	177/09	MMM
Vinyi Chloride	0.12	0.027	mg/kg dry	5035/8260B	1/7/09	MMM
o-Xylene	<0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
m.p-Xylene	0.07	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Total Xylene	0.07	0.03	mg/kg dry	\$03\$/E260B	1/7/09	MMM
Methyl Teniary Butyl Ether (MTBE)	-0.03	0.03	mg/kg dry	5035/8260B	1/7/09	MMM
Surrogates			RANGE	5035/82608	1/7/09	MMM
Dibromofluoromethane	96		70-130%	5035/8260B	1/7/09	MMM
Tolume-d8	97		70-130%	5035/8260B	1/7/09	MMM
4-Bromofluorobenzepe	99		70-130%	5035/8260B	1/7/09	MMM
1,2 Dichloroethane-d4	96		70-130%	5035/8260B	1/7/09	MMM
Semi-Volatile Organic Compounds						
Aceuphthese	<0.38	0.38	mg/kg dry	SW-846 \$270D	1/8/09	RGM
Adenaphthylme	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Anthracene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Benzidine	<0.38	0,38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Benzo(a)anthingene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM

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R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

GZA / Geoenvironmental, Inc. Date Received: 1/6/09 Work Order #: 0901-00162

Approved by: Data Reporting

Sample # 002 SAMPLE DESCRIPTION: DRSTPL-2 SAMPLE TYPE: GRAB

	SAMPLE	DET.			DATE	
PARAMETER	RESULTS	LIMIT	UNITS	METHOD	ANALYZED	ANALYST
Benzo(b)fluonaithese	0.50	0.38	ing/kg dry	SW-846 8270D	1/8/09	RGM
Benzo(k)(Juoranthese	0.41	0.38	mg/kg dry	5W-846 8270D	1/8/09	RGM
Benzo(g,h,i)perylene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Benzo(a)pyrene	0.44	0.34	mg/kg dry	5W-846 8270D	1/8/09	RGM
Bis(2-chloroethyl)ether	<0.38	0.34	mg/kg dry	5W-846-8270D	1/8/09	ROM
Bis(2-Chioroethoxy)methane	<0.38	0.38	rag/kg dry	5W-846 8270D	1/8/09	ROM
8is(2-Chioroisopropyl)Ether	<0.38	0.34	mg/kg dry	\$W-846 8270D	1/8/09	RGM
Bis(2-ethylheryl)phthalate	0.60	0.38	ing/kg dry	5W-846 8270D	1/8/09	RGM
4-Bromophenyl phenyl ether	<0.38	0.38	mg/kg dry	SW-846 8270D	1/6/09	RGM
Butylbenzyl phthalate	<0.38	81.0	mg/kg dry	5W-846 8270D	1/6/09	RGM
2-Chloronaphthalene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
4-Chlorophenyl phenyl ether	-0.38	36.0	mg/kg dry	5W-846 8270D	1/8/09	RGM
Chrysene	0.81	81.0	mg/kg dry	SW-846 8270D	1/8/09	RGM
Dibenzo(a,h)anthracene	<0.38	0.38	mg/kg dry	5W-846 8270D	1/8/09	RGM
Di-n-butyl phthalate	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
1,2-Dichlorobenzene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
1,3-Dichlorobenzene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
1,4-Dichlosobenzene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
3,3'-Dioblorobenzidine	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Diethyl phthalate	<0.38	0.38	mg/kg dry	SW-846 8270D	1/6/09	RGM
Dimethyl phthalate	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,4-Dinitrotolacne	<0.38	810	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,6-Dinitrotoluene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Di-m-octyl phthalate	<0.38	0.38	mg/kg dry	5W-846 8270D	1/8/09	RGM
1,2-Diphenyihydrazine	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Fluoranthene	1.4	35.0	mg/kg dry	SW-846 8270D	1/8/09	RGM
Fluorene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Hexachlorobenzene.	-0.38	0.38	mg/kg dry	5W-846 8270D	1/8/09	RGM
Hexachlorobutadiene	-0.38	0.38	mg/kg dry	\$W-846 8270D	1/8/09	RGM
Hexachlorocyclopentadiene	<0.38	0.38	mg/kg dry	5W-846 8270D	1/8/09	RGM
Hexachloroethane	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Indexo(1,2,3-cd)pyrene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
laphorone	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2-Methylnaphthalene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Naphthaluse	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Nitrobenzene	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
N-nitrosodimethylamine	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
N-nitrosodiphenylamine	<0.38	0.38	mg/kg dry	SW-846 #270D	1/8/09	RGM
N-nitrosodi-n-propylamme	<0.38	0.38	mg/kg dry	5W-846 8270D	1/8/09	RGM

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R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

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GZA / Geoenvironmental, Inc. Date Received: 1/6/09 Work Order #: 0901-00162

Approved by: Data Reporting

Sample # 002 SAMPLE DESCRIPTION: DRSTPL-2

SAMPLE TYPE: GRAB

	SAMPLE	DET.			DATE	
PARAMETER	RESULTS	LIMIT	UNITS	METHOD	ANALYZED	ANALYST
Phonanthrene	2.0	0.38	mg%g dry	SW-846 8270D	1/8/09	RGM
Pyrene	1.9	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
1.2.4-Trichlorobenzene	<0.58	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
4-Chloro-3-methylphenol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2-Chlorophenol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,4-Dichlorophesol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,4-Dimethylphanal	<0.38	0.38	mg/kg diy	5W-846 8270D	1/8/09	RGM
2-Methyl-4,6-dinitrophenol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,4-Dinitrophenol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2-Ninophenol	<0.38	0.38	mg/kg dry	SW-846-8270D	1/8/09	RGM
4-Nitrophenol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Pentachlorophenol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Phenol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,4,5-Trichlorophenol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2,4,5-Triablorophenol	<0.38	0.38	mg/kg dry	5W-846 8270D	1/8/09	RGM
4-Chlomaniline	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Dibenzofarun	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
2-Methyl Phenol	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
3 & 4-Methylphenols	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Aniline	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Acetophenone	<0.38	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Azobenzese	<0.18	0.38	mg/kg dry	SW-846 8270D	1/8/09	RGM
Surrogates			RANGE	SW-846 8270D	1/8/09	RGM
Phenol-d5	85		30-130%	SW-846 8270D	1/8/09	RGM
2-Fiuorophenol	56		30-130%	SW-846 8270D	1/8/09	RGM
2,4,6-Tribromophenol	20		30-130%	SW-846 8270D	1/8/09	RGM
Nitrobenzene-d5	66		30-130%	SW-846 8270D	1/8/09	RGM
2-Floorobipheny]	69		30-130%	SW-846 8270D	1/8/09	RGM
P-Terphenyi-d14	83		30-130%	SW-846 8270D	1/8/09	RGM
Extraction date	Extracted			SW846 3545	1/7/09	1991
Totel Metals						
Arsenio	3.7	1.7	mg/kg dry	SW-846 6010	1/7/09	LW
Barium	49	0.56	mg/kg dry	SW-846 6010	1/7/09	L.W
Cadmium	<0.28	0.28	mg/kg dry	SW-845 6010	1/7/09	1.W
Chromium	18	1.7	mg/kg dry	5W-846 6010	1/8/09	1.W
Lead	55	2.3	mg/kg dry	SW-846 6010	177/09	LW
Mercury	0.38	0.11	mg/kg dry	SW-846 7471A	1/7/09	LW
Seleninam	<11	11	mg/kg dry	SW-846 6010	8/7/09	LW
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R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

GZA / Geoenvironmental, Inc. Date Received: 1/6/09 Work Order #: 0901-00162

bali Approved by: Data Reporting

Sample # 002 SAMPLE DESCRIPTION: DRSTPL-2 SAMPLE TYPE: GRAB

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Silver	<11	1.1	mg/kg dry	SW-846 6010	1/7/09	LW
TCLP Metals						
Arsonic	<1.0	1.0	mg/l	SW-846 6010	1/8/09	LW
Barium	<2.0	2.0	mg/l	SW-846 6010	1/8/09	LW
Cadmium	<0.050	0.050	mg/l	SW-846 6010	1/8/09	CW.
Chromium	<0.30	0.30	mg/l	SW-846 6010	1/8/09	LW
Lead	10.40	0.40	mg/i	SW-846 6010	1/8/09	LW
Mercury	<0.0005	0.0005	mg/l	SW-846 7470A	1/8/09	L.W.
Selenium	<1.0	1.0	mg/T	5W-846 6010	1/8/09	LW
Silver	<0.20	0.20	mg/1	SW-846 6010	1/8/09	LW.

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LAGOON 5 MICRO WELLS



Laboratory Identification Numbers: MA and ME: MA092 NH: 2028 CT: PH0579 RI: LAO00236 NELAC - NYS DOH: 11053

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Stephen Andrus

03.0032795.16
0901-00090
01/21/2009
01/23/2009

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
01/16/2009	Aqueous	0901-00090 001	тв
01/20/2009	Aqueous	0901-00090 002	Micro-1
01/20/2009	Aqueous	0901-00090 003	Micro-3
01/20/2009	Aqueous	0901-00090 004	Micro-4
01/20/2009	Aqueous	0901-00090 005	Micro-5
01/20/2009	Aqueous	0901-00090 006	Micro-6
01/20/2009	Aqueous	0901-00090 007	Micro-7
01/20/2009	Aqueous	0901-00090 008	Micro-8

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Stephen Andrus

Project Name .:	Charbert/Developing RAWP	Date Received: Date Reported:	01/21/2009 01/23/2009
Project No.:	03.0032795.16	Work Order No.:	0901-00090

PROJECT NARRATIVE

1. Sample Receipt

The samples were received on 01/21/09 via _x_GZA courier, __EC, __FEDEX, or ___hand delivered. The temperature of the __temperature blank/_x_cooler air, was 2.9 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 continuing calibration verification standard (CCV) (01/22/09) had analytes outside of the 30%D QC acceptance limit. The outliers include dichlorodifluoromethane (53%) and tert-butyl alcohol (TBA) (31%).

The Laboratory Control Sample (LCS) (01/22/09 A) had method 8260 list analytes outside of the 70-130% QC acceptance limits. Specific outliers include dichlorodifluoromethane (153%) and tert-butyl alcohol (TBA) (131%). These analytes were not detected in the associated samples.

Sample Micro-1 (0901-90-002) was analyzed at a 1/1000 dilution based upon screening information and in order to report all target analytes within the calibration range of the instrument.

Sample Micro-2 (0901-90-003) was analyzed at a 1/500 dilution based upon screening information and in order to report all target analytes within the calibration range of the instrument.

Samples Micro-7 (0901-90-007) and Micro-8 (0901-90-008) were analyzed at a 1/100 dilution based upon screening information and in order to report all target analytes within the calibration range of the instrument

Sample Micro-4 (0901-90-004) was analyzed at a 1/50 dilution based upon screening information and in order to report all target analytes within the calibration range of the instrument.

Sample Micro-5 (0901-90-005) was analyzed at a 1/25 dilution based upon screening information and in order to report all target analytes within the calibration range of the instrument.

Attach QC 8260 01/22/09 A - Aqueous



Page 3 of 19

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Stephen Andrus

Project Name. Project No.:	Charbert/Developing RAWP 03.0032795.16	Date Received: Date Reported: Work Order No.:	01/21/2009 01/23/2009 0901-00090
Data Authorize	d By: Colla		

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 6010B.

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

The laboratory report shall not be reproduced except in full without the written consent of the laboratory.

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.



Tetrachloroethene

MQS

01/22/2009

ug/L

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Stephen Andrus Date Received: 01/21/2009 Project Name : Charbert/Developing RAWP Date Reported 01/23/2009 Project No .: 03.0032795.16 Work Order No .: 0901-00090 TB Sample ID: Sample No.: 001 Sample Date: 01/16/2009 Analysis Test Performed Method Results Units Tech Date VOLATILE ORGANICS EPA 8260 MQS 01/22/2009 Dichlorodifluoromethane EPA 8260 <2.0 ug/L MQS D1/22/2009 Chloromethane EPA 8260 <2.0 01/22/2009 ug/L MOS Vinvi Chloride EPA 8260 <1.0 ug/L MOS 01/22/2009 Bromomethane EPA 8260 <2.0 ug/L MOS 01/22/2009 Chloroethane EPA 8260 <1.0 ug/L MQS 01/22/2009 Trichlorofluoromethane EPA 8260 <2.0 ug/L MOS 01/22/2009 **Diethylether** <5.0 EPA 8260 MOS ug/L 01/22/2009 Acetone EPA 8260 <25 ua/L MOS 01/22/2009 1.1-Dichloroethene EPA 8260 <1.0 ug/L MQS 01/22/2009 Dichloromethane EPA 8260 <2.0 MOS ug/L 01/22/2009 Methyl-Tert-Butyl-Ether EPA 8260 <1.0 ug/L MQS 01/22/2009 trans-1.2-Dichloroethene EPA 8260 <1.0 ug/L MQS 01/22/2009 1,1-Dichloroethane EPA 8260 <1.0 uq/L MOS 01/22/2009 2-Butanone EPA 8260 <25 ug/L MQS 01/22/2009 2,2-Dichloropropane EPA 8260 <1.0 ug/L MQS 01/22/2009 cis-1,2-Dichloroethene EPA 8260 <1.0 MQS ug/L 01/22/2009 Chloroform EPA 8260 <1.0 ug/L MQS 01/22/2009 Bromochloromethane EPA 8260 <1.0 MQS ug/L 01/22/2009 Tetrahydrofuran EPA 8260 <10 ug/L MOS 01/22/2009 1.1.1-Trichloroethane EPA 8260 <1.0 ug/L MQS 01/22/2009 1.1-Dichioropropene EPA 8260 <1.0 ug/L MQS 01/22/2009 Carbon Tetrachloride EPA 8260 <1.0 MQS 01/22/2009 ug/L 1.2-Dichloroethane EPA 8260 <1.0 ug/L MOS 01/22/2009 Benzene EPA 8260 <1.0 ug/L MQS 01/22/2009 Trichloroethene EPA 8260 <1.0 MOS ug/L 01/22/2009 1.2-Dichloropropane EPA 8260 <1.0 ug/L MOS 01/22/2009 MQS Bromodichloromethane EPA 8260 <1.0 ug/L 01/22/2009 Dibromomethane EPA 8260 <1.0 MQS ug/L 01/22/2009 4-Methyl-2-Pentanone EPA 8260 <25 MQS ug/L 01/22/2009 cis-1,3-Dichloropropene EPA 8260 <1.0 MOS ug/L 01/22/2009 Toluene EPA 8260 <1.0 ug/L MQS 01/22/2009 trans-1.3-Dichloropropene EPA 8260 <2.0 ug/L MOS 01/22/2009 1,1,2-Trichloroethane EPA 8260 <1.0 ug/L MQS 01/22/2009 2-Hexanone EPA 8260 <25 ug/L MQS 01/22/2009 1,3-Dichloropropane EPA 8260 <1.0 ug/L MQS 01/22/2009

EPA 8260

<1.0



GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Stephen Andrus						
Project Name.: Charbert/Develo Project No.: 03.0032795.16		ame.: Charbert/Developing RAWP o.: 03.0032795.16		Date Received: Date Reported: Work Order No.:	01/21/2009 01/23/2009 0901-00090	
Sample ID:	тв				Sample No.:	001
Sample Date:	01/16/2009					
Test Performed		Method	Results	Unit	s Tech	Analysis Date
Dibromochlorome	thane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,2-Dibromoethan	ne (EDB)	EPA 8260	<2.0	ug/L	MQS	01/22/2009
Chlorobenzene		EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,1,1,2-Tetrachior	oethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Ethylbenzene		EPA 8260	<1.0	ug/L	MQS	01/22/2009
m&p-Xylene		EPA 8260	<2.0	ug/L	MQS	01/22/2009
o-Xylene		EPA 8260	<1.0	ug/L	MQS	01/22/2009
Styrene		EPA 8260	<1.0	ug/L	MQS	01/22/2009
Bromoform		EPA 8260	<2.0	ug/L	MQS	01/22/2009
Isopropylbenzene	6	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,1,2,2-Tetrachlor	roethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,2,3-Trichloropro	pane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Bromobenzene		EPA 8260	<1.0	ug/L	MQS	01/22/2009
N-Propylbenzene		EPA 8260	<1.0	ug/L	MQS	01/22/2009
2-Chlorotoluene		EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,3,5-Trimethylbe	nzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
4-Chlorotoluene		EPA 8260	<1.0	ug/L	MQS	01/22/2009
tert-Butylbenzene	8	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,2,4-Trimethylbe	nzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
sec-Butylbenzene	1971 (1972) 1	EPA 8260	<1.0	ug/L	MQS	01/22/2009
p-Isopropy/toluene	2	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,3-Dichlorobenze	ene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,4-Dichlorobenze	ene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
n-Butylbenzene		EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,2-Dichlorobenze	ne	EPA 8260	<1.0	ua/L	MQS	01/22/2009
1,2-Dibromo-3-Ch	loropropane	EPA 8260	<5.0	ug/L	MQS	01/22/2009
1,2.4-Trichlorober	izene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Hexachiorobutadi	ene	EPA 8260	<1.0	ua/L	MQS	01/22/2009
Naphthalene	20.65	EPA 8250	<2.0	ua/L	MQS	01/22/2009
1,2,3-Trichlorober	zene	EPA 8260	<1.0	ua/L	MOS	01/22/2009
Surrogates:	574645765 	EPA 8250	10.000			1000 1000 100 1000 1000 1000 1000 1000
***1,2-Dichloroeth	ane-D4	EPA 8260	83.5	% R	MOS	01/22/2009
***Toluene-D8	Ka 1999 W 17 17	EPA 8250	95.5	% R	MOS	01/22/2009
***4-Bromofluorob	enzene	EPA 8260	95.4	% R	MOS	01/22/2009
Preparation		EPA 5030B	1.0	CF	MOS	01/22/2009



GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Stephen Andrus	
Project Name :	Charbert/Developing RAWP
Project No .:	03.0032795.16

Project Name : Project No.:	03.0032795.16	Date Reported: Work Order No.:	01/23/2009 0901-00090	
Project Name :	Charbert/Developing RAWP	Date Received:	01/21/2009	

Sample	ID:	Micro-1		
e				

Sample No.: 002

01/20/2009 Sample Date:

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260	19874-20		MQS	01/22/2009
Dichlorodifluoromethane	EPA 8260	<2000	ug/L	MQS	01/22/2009
Chloromethane	EPA 8260	<2000	ug/L	MQS	01/22/2009
Vinyl Chloride	EPA 8260	6000	ug/L	MQS	01/22/2009
Bromomethane	EPA 8260	<2000	ug/L	MQS	01/22/2009
Chlorcethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
Trichlorofluoromethane	EPA 8260	<2000	ug/L	MQS	01/22/2009
Diethylether	EPA 8260	<5000	ug/L	MQS	01/22/2009
Acetone	EPA 8260	<25000	ug/L	MQS	01/22/2009
1,1-Dichloroethene	EPA 8260	<1000	ug/L	MQS	01/22/2009
Dichloromethane	EPA 8260	<2000	ug/L	MQS	01/22/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1000	ug/L	MQS	01/22/2009
trans-1,2-Dichloroethene	EPA 8260	<1000	ug/L	MQS	01/22/2009
1,1-Dichloroethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
2-Butanone	EPA 8260	<25000	ug/L	MQS	01/22/2009
2,2-Dichloropropane	EPA 8260	<1000	ug/L	MQS	01/22/2009
cis-1.2-Dichloroethene	EPA 8260	85000	ug/L	MQS	01/22/2009
Chloroform	EPA 8260	<1000	ug/L	MQS	01/22/2009
Bromochloromethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
Tetrahydrofuran	EPA 8260	<10000	ug/L	MQS	01/22/2009
1,1,1-Trichloroethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
1,1-Dichloropropena	EPA 8260	<1000	ug/L	MQS	01/22/2009
Carbon Tetrachloride	EPA 8260	<1000	ug/L	MQS	01/22/2009
1,2-Dichloroethane	EPA 5260	<1000	ug/L	MQS	01/22/2009
Benzene	EPA 8260	<1000	ug/L	MQS	01/22/2009
Trichloroethene	EPA 8260	12000	ua/L	MQS	01/22/2009
1,2-Dichloropropane	EPA 8260	<1000	ug/L	MQS	01/22/2009
Bromodichloromethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
Dibromomethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
4-Methyl-2-Pentanone	EPA 8260	<25000	ug/L	MQS	01/22/2009
cis-1,3-Dichloropropene	EPA 8260	<1000	ug/L	MQS	01/22/2009
Toluene	EPA 8260	<1000	ug/L	MOS	01/22/2009
trans-1,3-Dichloropropene	EPA 8260	<2000	ug/L	MQS	01/22/2009
1,1,2-Trichloroethane	EPA 8260	<1000	ug/L	MQS	01/22/2009
2-Hexanone	EPA 8260	<25000	ug/L	MQS	01/22/2009
1,3-Dichloropropane	EPA 8260	<1000	ug/L	MQS	01/22/2009
Tetrachloroethene	EPA 8260	170000	ug/L	MQS	01/22/2009



GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Stephen Andrus						
Project Name.: Char Project No.: 03.0	rbert/Developing RAWP 032795.16		Date Received: Date Reported: Work Order No.:	01/21/2009 01/23/2009 0901-00090		
Sample ID: Micro	-1			Sample No :	002	
Sample Date: 01/20/	/2009					
Test Performed	Method	Results	Unit	s Tech	Analysis Date	
Dibromochloromethane	EPA 8260	<1000	ug/L	MOS	01/22/2009	
1,2-Dibromoethane (ED	(B) EPA 8260	<2000	ug/L	MQS	01/22/2009	
Chlorobenzene	EPA 8260	<1000	ug/L	MQS	01/22/2009	
1,1,1,2-Tetrachloroethan	ne EPA 8260	<1000	ug/L	MQS	01/22/2009	
Ethylberizene	EPA 8260	<1000	ug/L	MQS	01/22/2009	
m&p-Xylene	EPA 8260	<2000	uo/L	MOS	01/22/2009	
o-Xyiene	EPA 8260	<1000	ug/L	MQS	01/22/2009	
Styrene	EPA 8260	<1000	ua/L	MOS	01/22/2009	
Bromoform	EPA 8260	<2000	ug/L	MOS	01/22/2009	
isopropylbenzene	EPA 8260	<1000	ug/L	MQS	01/22/2009	
1,1,2,2-Tetrachloroethan	ne EPA 8260	<1000	uo/L	MOS	01/22/2009	
1,2,3-Trichloropropane	EPA 8250	<1000	ug/L	MQS	01/22/2009	
Bromobenzene	EPA 8260	<1000	ua/L	MOS	01/22/2009	
N-Propylbenzene	EPA 8260	<1000	ug/L	MQS	01/22/2009	
2-Chlorotoluene	EPA 8260	<1000	ug/L	MOS	01/22/2009	
1,3,5-Trimethylbenzene	EPA 8260	<1000	ug/L	MOS	01/22/2009	
4-Chiorotoluene	EPA 8260	<1000	ug/L	MQS	01/22/2009	
tert-Butylbenzene	EPA 8260	<1000	ug/L	MOS	01/22/2009	
1.2.4-Trimethylbenzene	EPA 8260	<1000	ug/L	MOS	01/22/2009	
sec-Butylbenzene	EPA 8260	<1000	ua/L	MOS	01/22/2009	
p-isopropyltoluene	EPA 8260	<1000	ug/L	MOS	01/22/2009	
1,3-Dichlorobenzene	EPA 8260	<1000	ug/L	MOS	01/22/2009	
1,4-Dichlorobenzene	EPA 8260	<1000	ug/l.	MOS	01/22/2009	
n-Butylbenzene	EPA 8260	<1000	ug/L	MOS	01/22/2009	
1,2-Dichiorobenzene	EPA 8260	<1000	ug/L	MOS	01/22/2009	
1.2-Dibromo-3-Chloropre	ocane EPA 8260	<5000	ug/L	MOS	01/22/2009	
1,2,4-Trichlorobenzene	EPA 8260	<1000	ug/l	MOS	01/22/2009	
Hexachlorobutadiene	EPA 8260	<1000	uo/L	MOS	01/22/2009	
Naphthalene	EPA 8260	<2000	ug/L	MOS	01/22/2009	
1.2.3-Trichlorobenzene	EPA 8250	<1000	uol	MOS	01/22/2009	
Surrogates:	EPA 8260		1997 E		ALEE16000	
***1.2-Dichloroethane-D	4 EPA 8260	85.3	% P	MOS	01/22/2009	
***Taluene-D8	EPA 8260	95.2	% R	MOS	01/22/2009	
***4-Bromofluorobenzen	EPA 8260	97.5	96 P	MOS	01/22/2008	



MQS

MQS

ug/L

ug/L

01/22/2009

01/22/2009

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

1.3-Dichloropropane

Tetrachloroethene

Stephen Andrus Date Received: 01/21/2009 Project Name .: Charbert/Developing RAWP Date Reported: 01/23/2009 Project No .: 03.0032795.16 Work Order No .: 0901-00090 Sample 1D: Micro-3 Sample No .: 003 Sample Date: 01/20/2009 Analysia Test Performed Method Results Units Tech Date VOLATILE ORGANICS EPA 8260 MOS 01/22/2009 Dichlorodifluoromethane EPA 8260 <1000 ug/L MQS 01/22/2009 Chloromethane. EPA 8260 <1000 ug/L MQS 01/22/2009 Vinvl Chloride EPA 8260 3200 ug/L MQS 01/22/2009 Bromomethane EPA 8260 <1000 ug/L MQS 01/22/2009 Chloroethane EPA 8260 <500 MOS ug/L 01/22/2009 Trichlorofluoromethane EPA 8260 <1000 MOS ug/L 01/22/2009 Diethylether EPA 8260 <2500 ug/L MQS 01/22/2009 Acetone EPA 8260 <13000 ug/L MOS 01/22/2009 1.1-Dichloroethene EPA 8260 <500 MQS ug/L 01/22/2009 Dichloromethane EPA 8260 <1000 ug/L MOS 01/22/2009 Methyl-Tert-Butyl-Ether EPA 8260 <500 MOS ug/L 01/22/2009 trans-1.2-Dichloroethene EPA 8260 530 ug/L MQS 01/22/2009 1,1-Dichloroethane EPA 8260 <500 ug/L MQS 01/22/2009 2-Butanone EPA 8260 <13000 MOS 01/22/2009 ug/L 2,2-Dichloropropane EPA 8260 <500 ua/L MQS 01/22/2009 cis-1,2-Dichloroethene EPA 8260 38000 MOS ug/L 01/22/2009 Chioroform EPA 8260 <500 uq/L MQS 01/22/2009 Bromochloromethane EPA 8260 <500 ug/L MOS 01/22/2009 Tetrahydrofuran EPA 8260 <5000 MQS ug/L 01/22/2009 1,1,1-Trichloroethane EPA 8260 <500 MQS ug/L 01/22/2009 1,1-Dichloropropene EPA 8260 <500 MQS ug/L 01/22/2009 Carbon Tetrachloride EPA 8260 <500 MOS ug/L 01/22/2009 1.2-Dichloroethane EPA 8260 <500 ug/L MOS 01/22/2009 Benzene EPA 8260 <500 MOS UQ/L 01/22/2009 Trichloroethene EPA 8260 16000 ug/L MOS 01/22/2009 1,2-Dichloropropane EPA 8260 < 500 ug/L MQS 01/22/2009 Bromodichloromethane EPA 8260 <500 ug/L MQS 01/22/2009 Dibromomethane EPA 8260 <500 MOS ug/L 01/22/2009 4-Methyl-2-Pentanone EPA 8260 <13000 ug/L MQS 01/22/2009 cis-1,3-Dichloropropene EPA 8260 < 500 ug/L MOS 01/22/2009 Toluene EPA 8260 <500 MQS ug/L 01/22/2009 trans-1,3-Dichloropropene EPA 8260 <1000 ug/L MOS 01/22/2009 1.1.2-Trichloroethane EPA 8280 <500 ug/L MOS 01/22/2009 2-Hexanone EPA 8260 <13000 ug/L MOS 01/22/2009

<500

11000

EPA 8260

EPA 8260



GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Stephen Andrus

Project Name.: Project No.:	Charbert/Develo 03.0032795.16	pping RAWP	D D W	ate Received: ate Reported: 'ork Order No.;	01/21/2009 01/23/2009 0901-00090		
Sample ID:	Micro-3				Sample	No :	003
Sample Date:	01/20/2009						
Test Performed		Method	Results	Units		Tech	Analysia Date
Dibromachloron	nethane	EPA 8260	<500	ug/L		MQS	01/22/2009
1,2-Dibromoeth	ane (EDB)	EPA 8260	<1000	ug/L		MQS	01/22/2009
Chlorobenzene		EPA 8260	<500	ug/L		MQS	01/22/2009
1,1,1,2-Tetrachi	loroethane	EPA 8260	<500	ug/L		MQS	01/22/2009
Ethylbenzene		EPA 8260	<500	ug/L		MQS	01/22/2009
m&p-Xylene		EPA 8260	<1000	ug/L		MQS	01/22/2009
o-Xylene		EPA 8260	<500	ug/L		MQS	01/22/2009
Styrene		EPA 8260	<500	ug/L		MQS	01/22/2009
Bromoform		EPA 8260	<1000	ug/L		MQS	01/22/2009
Isopropylbenzer	ne	EPA 8260	<500	ug/L		MQS	01/22/2009
1,1,2,2-Tetrachi	oroethane	EPA 8260	<500	ug/L		MQS	01/22/2009
1,2,3-Trichlorop	ropane	EPA 8260	<500	ug/L		MQS	01/22/2009
Bromobenzene		EPA 8260	<500	ug/L		MQS	01/22/2009
N-Propylbenzen	e	EPA 8260	<500	ug/L		MQS	01/22/2009
2-Chlorotoluene	recention.	EPA 8260	<500	ug/L		MQS	01/22/2009
1.3,5-Trimethylb	enzene	EPA 8260	<500	ug/L		MQS	01/22/2009
4-Chiorotoluene	L	EPA 8260	<500	ug/L		MQS	01/22/2009
tert-Butylbenzen	18	EPA 8260	<500	ug/L		MQS	01/22/2009
1,2,4-Trimethylb	enzene	EPA 8260	<500	ug/L		MOS	01/22/2009
sec-Butylbenzer	1e	EPA 8260	<500	ua/L	8	MQS	01/22/2009
p-isopropyltolue	ne	EPA 8260	<500	ug/L	1	MOS	01/22/2009
1,3-Dichloroben	zene	EPA 8260	<500	ua/L	3	MOS	01/22/2009
1,4-Dichlaroben;	zena	EPA 8260	<500	ug/L	6 6	MOS	01/22/2009
n-Butylbenzene		EPA 8260	<500	ug/L		MOS	01/22/2009
1,2-Dichloroben	zene	EPA 8260	<500	ug/L	6	MOS	01/22/2009
1,2-Dibromo-3-C	Chloropropane	EPA 8260	<2500	ug/L		MOS	01/22/2009
1,2,4-Trichlorobi	enzene	EPA 8260	<500	10/1		MOS	01/22/2009
Hexachlorobutad	diene	EPA 8260	<500	ug/L		MOS	01/22/2009
Naphthalene	1610-17-111-	EPA 8260	<1000	ug/L		MOS	01/22/2009
1,2,3-Trichlorobe	enzene	EPA 8260	<500	ug/l		MOS	01/22/2009
Surrogates:	404 C #1 C / FG	EPA 8260	1.12000000	2. B. F.			N. 1766764492
***1,2-Dichloroel	thane-D4	EPA 8260	83.7	94.12		an	01/22/2000
"Toluene-D8	1242404234924	EPA 8260	95.2	% P		une .	01/22/2009
***4-Bromofluoro	obenzene	EPA 8260	96.1	N P	3	NOS	01/22/2009
Preparation		EPA 50308	500	CE		une	01/22/2009
			000	96	3	Mrda.	0112212009



Tetrachloroethene

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Stephen Andrus Date Received: 01/21/2009 Project Name.1 Charbert/Developing RAWP Date Reported: 01/23/2009 Project No .: 03.0032795.18 Work Order No .: 0901-00090 Sample ID: Micro-4 Sample No .: 004 Sample Date: 01/20/2009 Analysis Test Performed Method Results Units Tech Date VOLATILE ORGANICS EPA 8260 MQS 01/22/2009 Dichlorodifluoromethane EPA 8260 <100 ug/L MQS 01/22/2009 Chloromethane EPA 8260 <100 ug/L MQS 01/22/2009 Vinyl Chloride EPA 8260 220 ug/L MOS 01/22/2009 Bromomethane EPA 8260 <100 MQS ug/L 01/22/2009 Chloroethane EPA 8260 <50 ug/L MOS 01/22/2009 Trichlorofluoromethane EPA 8260 <100 ug/L MOS 01/22/2009 Diethylether EPA 8260 <250 ug/L MOS 01/22/2009 Acetone EPA 8260 <1300 MQS ug/L 01/22/2009 1,1-Dichloroethene EPA 8260 <50 MOS ug/L 01/22/2009 Dichloromethane EPA 8260 <100 ug/L MQS 01/22/2009 Methyl-Tert-Butyl-Ether EPA 8260 <50 ug/L MOS 01/22/2009 trans-1.2-Dichloroethene EPA 8260 <50 ug/L MQS 01/22/2009 1,1-Dichloroethane EPA 8260 <50 MOS ug/L 01/22/2009 2-Butanone EPA 8260 <1300 ug/L MQS 01/22/2009 2,2-Dichloropropane EPA 8260 <50 MOS ug/L 01/22/2009 cis-1.2-Dichloroethene EPA 8260 1000 ug/L MQS 01/22/2009 Chloroform EPA 8260 <50 ug/L MOS 01/22/2009 Bromochloromethane EPA 8260 <50 ug/L MOS 01/22/2009 Tetrahydrofuran EPA 8260 <500 MQS 01/22/2009 ug/L 1,1,1-Trichloroethane EPA 8260 <50 ug/L MQS 01/22/2009 1,1-Dichloropropene EPA 8260 <50 ug/L MQS 01/22/2009 Carbon Tetrachloride EPA 8260 <50 ug/L MOS 01/22/2009 EPA 8260 1.2-Dichloroethane <50 MQS ug/L 01/22/2009 Benzene EPA 8260 <50 ug/L MOS 01/22/2009 Trichloroethene EPA 8260 370 ua/L MQS 01/22/2009 1.2-Dichloropropane EPA 8260 <50 ug/L MOS 01/22/2009 **Bromodichioromethane** EPA 8260 <50 ua/L MOS 01/22/2009 Dibromomethane EPA 8260 <50 ug/L MQS 01/22/2009 4-Methyl-2-Pentanone EPA 8260 <1300 ug/L MQS 01/22/2009 cis-1,3-Dichloropropene EPA 8260 <50 ug/L MQS 01/22/2009 Toluene EPA 8260 < 50 ug/L Mas 01/22/2009 trans-1,3-Dichloropropene EPA 8260 <100 ug/L MQS 01/22/2009 1,1,2-Trichloroethane EPA 8260 <50 ug/L MOS 01/22/2009 2-Hexanone EPA 8260 <1300 ug/L MQS 01/22/2009 1,3-Dichloropropane EPA 8260 <50 ug/L MQS 01/22/2009

2000

ug/L

MQS

01/22/2009

EPA 8260


Stephen Andrus

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Date Received: 01/21/2009 Project Name .:. Charbert/Developing RAWP Date Reported: 01/23/2009 Project No .: 03.0032795.16 Work Order No.: 0901-00090 Sample ID: Micro-4 Sample No.: 004 Sample Date: 01/20/2009 Analysis Test Performed Method Results Units Tech Date Dibromochloromethane EPA 8260 <50 MOS 01/22/2009 ug/L 1.2-Dibromoethane (EDB) EPA 8260 <100 MQS ug/L 01/22/2009 Chlorobenzene EPA 8260 <50 ug/L MOS 01/22/2009 1,1,1,2-Tetrachioroethane EPA 8260 <50 ug/L MQS 01/22/2009 Ethylbenzene EPA 8260 <50 ug/L MOS 01/22/2009 m&p-Xylene EPA 8260 <100 MOS ug/L 01/22/2009 o-Xylene EPA 8260 <50 ug/L MOS 01/22/2009 Styrene EPA 8260 <50 ug/L MOS 01/22/2009 Bromoform EPA 8260 <100 MQS ug/L 01/22/2009 isopropylbenzene EPA 8260 <50 ug/L MQS 01/22/2009 1,1,2,2-Tetrachloroethane EPA 8260 <50 MOS ug/L 01/22/2009 1,2,3-Trichloropropane EPA 8260 <50 ug/L MOS 01/22/2009 Bromobenzene EPA 8260 <50 ug/L MQS 01/22/2009 N-Propyibenzene EPA 8260 <50 MOS ug/L 01/22/2009 2-Chlorotoluene EPA 8260 <50 MQS ug/L 01/22/2009 1,3,5-Trimethylbenzene EPA 8260 <50 ua/L MQS 01/22/2009 EPA 8260 4-Chlorotoluene <50 MQS ug/L 01/22/2009 tert-Butylbanzene EPA 8260 <50 ua/L MOS 01/22/2009 1.2.4-Trimethylbenzene EPA 8260 <50 ua/L MQS 01/22/2009 sec-Butylbenzene EPA 8260 <50 ug/L MQS 01/22/2009 p-isopropyltoluene EPA 8260 <50 ug/L MQS 01/22/2009 1.3-Dichlorobenzene EPA 8260 <50 ug/L MQS 01/22/2009 1.4-Dichlorobenzene EPA 8260 <50 ug/L MOS 01/22/2009 n-Butylbenzene EPA 8260 <50 ug/L MOS 01/22/2009 1,2-Dichlorobenzene EPA 8260 <50 ug/L MOS 01/22/2009 1.2-Dibromo-3-Chloropropane EPA 8260 <250 MQS ug/L 01/22/2009 1,2,4-Trichlorobenzene EPA 8260 <50 ug/L MQS 01/22/2009 Hexachlorobutadiene EPA 8260 <50 ug/L MOS 01/22/2009 Naphthalene EPA 8260 <100 ug/L MQS 01/22/2009 1.2.3-Trichlorobenzene EPA 8260 <50 ug/L MQS 01/22/2009 Surrogates: EPA 8260 ***1,2-Dichloroethane-D4 EPA 8260 80.9 % R MQS 01/22/2009 ***Toluene-D8 EPA 8260 96.0 %R MOS 01/22/2009 ***4-Bromofluorobenzene EPA 8260 94.4 %R MOS 01/22/2009 Preparation EPA 50308 50 CF MOS 01/22/2009



GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Stephen Andrus

Project Name .:	Charbert/Developing RAWP	Date Received:	01/21/2009
Project No.:	03.0032795.16	Date Reported:	01/23/2009
Contraction of the second s	a n canderna a grad	Work Order No.:	0901-00090

Sample ID: Micro-5 Sample Date: 01/20/2009

Sample No.: 005

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	01/22/2009
Dichlorodifluoromethane	EPA 8260	<50	ug/L	MQS	01/22/2009
Chloromethane	EPA 8260	<50	ug/L	MQS	01/22/2009
Vinyl Chloride	EPA 8260	190	ug/L	MQS	01/22/2009
Bromomethane	EPA 8260	<50	ug/L	MQS	01/22/2009
Chloroethane	EPA 8260	<25	ug/L	MQS	01/22/2009
Trichlorofluoromethane	EPA 8260	<50	ug/L	MQS	01/22/2009
Diethylether	EPA 8260	<130	ug/L	MQS	01/22/2009
Acetone	EPA 8260	<630	ug/L	MQS	01/22/2009
1,1-Dichloroethene	EPA 8250	<25	ug/L	MQS	01/22/2009
Dichloromethane	EPA 8260	<50	ug/L	MQS	01/22/2009
Methyl-Tert-Butyl-Ether	EPA 8250	<25	ua/L	MQS	01/22/2009
trans-1,2-Dichloroethene	EPA 8260	<25	ua/L	MQS	01/22/2009
1,1-Dichloroethane	EPA 8260	<25	ug/L	MOS	01/22/2009
2-Butanone	EPA 8260	<630	ug/L	MQS	01/22/2009
2,2-Dichloropropane	EPA 8260	<25	ug/L	MQS	01/22/2009
cis-1,2-Dichloroethene	EPA 8260	1400	ug/L	MOS	01/22/2009
Chloroform	EPA 8260	<25	ug/L	MQS	01/22/2009
Bromochloromethane	EPA 8260	<25	ug/L	MQS	01/22/2009
Tetrahydrofuran	EPA 8260	<250	ug/L	MQS	01/22/2009
1,1,1-Trichloroethane	EPA 8260	<25	ug/L	MQS	01/22/2009
1,1-Dichloropropene	EPA 8260	<25	ug/L	MQS	01/22/2009
Carbon Tetrachioride	EPA 8260	<25	ug/L	MQS	01/22/2009
1,2-Dichloroethane	EPA 8260	<25	ug/L	MQS	01/22/2009
Benzene	EPA 8260	<25	ug/L	MQS	01/22/2009
Trichloroethene	EPA 8260	580	ug/L	MQS	01/22/2009
1,2-Dichloropropane	EPA 8260	<25	ug/L	MOS	01/22/2009
Bromodichloromethane	EPA 8250	<25	ug/L	MQS	01/22/2009
Dibromomethane	EPA 8250	<25	ug/L	MOS	01/22/2009
4-Methyl-2-Pentanone	EPA 8260	<630	ua/L	MQS	01/22/2009
cis-1,3-Dichloropropene	EPA 8260	<25	ug/L	MQS	01/22/2009
Toluene	EPA 8260	<25	ug/L	MQS	01/22/2009
trans-1,3-Dichloropropene	EPA 8260	<50	ug/L	MQS	01/22/2009
1,1,2-Trichloroethane	EPA 8260	<25	ug/L	MQS	01/22/2009
2-Hexanone	EPA 8260	<630	uo/L	MOS	01/22/2009
1,3-Dichloropropane	EPA 8260	<25	ug/L	MQS	01/22/2009
Tetrachloroethene	EPA 8260	1000	ug/L	MQS	01/22/2009



Preparation

ANALYTICAL REPORT

GZA GeoEnvironmental. Inc. 140 Broadway Providence, RI 02903

Stephen Andrus Date Received: 01/21/2009 Project Name:: Charbert/Developing RAWP Date Reported: 01/23/2009 Project No .: 03.0032795.16 Work Order No .: 0901-00090 Sample 1D: Micro-5 Sample No .: 005 Sample Date: 01/20/2009 Analysis -Test Performed Method Results Units Tech Date Dibromochloromethane EPA 8260 <25 ug/L MOS 01/22/2009 1.2-Dibromoethane (EDB) EPA 8260 <50 ug/L MQS 01/22/2009 Chlorobenzene EPA 8260 <25 ug/L MOS 01/22/2009 1.1.1.2-Tetrachioroethane EPA 8260 <25 MOS ug/L 01/22/2009 Ethylbenzene EPA 8260 <25 ug/L MOS 01/22/2009 m&p-Xylene EPA 8260 <50 ug/L MQS 01/22/2009 o-Xylene EPA 8260 <25 ug/L MOS 01/22/2009 Styrene EPA 8260 <25 MOS 01/22/2009 ug/L Bromoform EPA 8260 <50 UQ/L MOS 01/22/2009 Isopropylbenzene EPA 8260 <25 MOS ug/L 01/22/2009 1,1,2,2-Tetrachioroethane EPA 8260 <25 ug/L MQS 01/22/2009 1,2,3-Trichloropropane EPA 8260 <25 MOS ug/L 01/22/2009 Bromobenzene EPA 8260 <25 MOS ug/L 01/22/2009 N-Propylbenzene EPA 8260 <25 MQS ug/L 01/22/2009 2-Chlorotoluene EPA 8260 <25 ug/L MOS 01/22/2009 1.3.5-Trimethylbenzene EPA 8260 <25 MOS ug/L 01/22/2009 4-Chlorotoluene EPA 8260 <25 ug/L MOS 01/22/2009 tert-Butylbenzene EPA 8260 <25 ug/L MOS 01/22/2009 1.2.4-Trimethylbenzene EPA 8260 <25 ug/L MOS 01/22/2009 sec-Butylbenzene EPA 8260 <25 ug/L MQS 01/22/2009 p-Isopropyltoluene EPA 8260 <25 ug/L MOS 01/22/2009 1.3-Dichlorobenzene EPA 8260 <25 ug/L MOS 01/22/2009 1.4-Dichlorobenzene EPA 8260 <25 MQS ug/L 01/22/2009 n-Butylbenzene EPA 8260 <25 MQS ugiL 01/22/2009 1.2-Dichlorobenzene EPA 8260 <25 MOS ug/L 01/22/2009 1.2-Dibromo-3-Chloropropane EPA 8260 <130 ug/L MOS 01/22/2009 1.2.4-Trichlorobenzene EPA 8260 <25 MOS ug/L 01/22/2009 Hexachlorobutadiene EPA 8260 <25 ug/L MOS 01/22/2009 Naphthalene EPA 8260 < 50 ug/L MOS 01/22/2009 1,2,3-Trichlorobenzene EPA 8260 <25 MQS ug/L 01/22/2009 Surrogates: EPA 8260 ***1.2-Dichloroethane-D4 EPA 8260 82.1 %R MOS 01/22/2009 ***Toluene-D8 EPA 8260 96.2 % R MOS 01/22/2009 ***4-Bromofiuorobenzene EPA 8260 95.1 % R MQS 01/22/2009

EPA 5030B

25

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MQS

01/22/2009



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Sample No : 006

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Stephen Andrus

Project Name ::	Charbert/Developing RAWP	Date Received:	01/21/2009
Project No.:	03.0032795.16	Date Reported	01/23/2009
a second s		Work Order No.:	0901-00090

Sample ID: Micro-6

Sample Date: 01/20/2009

Analysis Test Performed Method Results Units Tech Date VOLATILE ORGANICS EPA 8260 01/22/2009 MQS Dichlorodifluoromethane EPA 8260 <2.0 ug/L MOS 01/22/2009 Chloromethane EPA 8260 <2.0 ug/L MQS 01/22/2009 Vinyl Chloride EPA 8260 <1.0 MOS ug/L 01/22/2009 Bromomethane EPA 8260 <2.0 ug/L MQS 01/22/2009 Chloroethane EPA 8260 <1.0 ug/L MOS 01/22/2009 Trichlorofluoromethane EPA 8260 <2.0 ug/L MOS 01/22/2009 Diethylether EPA 8260 <5.0 ug/L MOS 01/22/2009 Acetone EPA 8260 <25 ug/L MOS 01/22/2009 1.1-Dichloroethene EPA 8260 <1.0 ug/L MOS 01/22/2009 Dichloromethane EPA 8260 <2.0 ug/L MQS 01/22/2009 Methyl-Tert-Butyl-Ether EPA 8260 <1.0 ug/L MOS 01/22/2009 trans-1,2-Dichloroethene EPA 8260 <1.0 ug/L MOS 01/22/2009 1.1-Dichloroethane EPA 8260 <1.0 MQS ug/L 01/22/2009 2-Butanone EPA 8260 <25 ug/L MOS 01/22/2009 2.2-Dichloropropane EPA 8260 <1.0 ug/L MOS 01/22/2009 cis-1.2-Dichloroethene EPA 8260 4.8 ug/L MOS 01/22/2009 Chloroform EPA 8260 <1.0 ug/L MQS 01/22/2009 Bromochloromethane EPA 8260 <1.0 ug/L MOS 01/22/2009 Tetrahydrofuran EPA 8260 <10 MQS ug/L 01/22/2009 1,1,1-Trichloroethane EPA 8260 <1.0 ug/L MOS 01/22/2009 1,1-Dichloropropene EPA 8260 <10 MQS ug/L 01/22/2009 Carbon Tetrachioride EPA 8260 <1.0 ug/L MOS 01/22/2009 1,2-Dichloroethane EPA 8260 <1.0 ug/L MQS 01/22/2009 Benzene EPA 8260 <10 MOS ug/L 01/22/2009 Trichloroethene EPA 8260 6.1 ug/L MQS 01/22/2009 1.2-Dichloropropane EPA 8260 <1.0 MQS ug/L 01/22/2009 Bromodichloromethane EPA 8260 <1.0 ug/L MQS 01/22/2009 Dibromomethane EPA 8260 <1.0 MQS ug/L 01/22/2009 4-Methyl-2-Pentanone EPA 8260 <25 ug/L MOS 01/22/2009 cis-1.3-Dichloropropene EPA 8260 <1.0 MQS ug/L 01/22/2009 Toluene EPA 8260 <1.0 ug/L MOS 01/22/2009 trans-1.3-Dichloropropene EPA 8260 <2.0 ug/L MOS 01/22/2009 1.1.2-Trichloroethane EPA 8260 <1.0 ug/L MQS 01/22/2009 2-Hexanone EPA 8260 <25 ug/L MOS 01/22/2009 1.3-Dichloropropane EPA 8260 <1.0 MQS ug/L 01/22/2009 Tetrachloroethene EPA 8260 94 ug/L MQS 01/22/2009



Stephen Andrus					
Project Name.: Charbert/Deve Project No.: 03.0032795.16	loping RAWP	Da Da We	te Received: te Reported: ork Order No :	01/21/2009 01/23/2009 0901-00090	
Sample ID: Micro-6				Sample No .:	006
Sample Date: 01/20/2009					
Test Performed	Method	Results	Unit:	s Tech	Analysis Date
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	01/22/2009
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	01/22/2009
o-Xylene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Styrene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Bromoform	EPA 8260	<2.0	ua/L	MOS	01/22/2009
Isopropyibenzene	EPA 8260	<1.0	ua/L	MOS	01/22/2009
1,1,2,2-Tetrachioroethane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	01/22/2009
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
N-Propylbenzene	EPA 8260	<1.0	ua/L	MQS	01/22/2009
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MOS	01/22/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MOS	01/22/2009
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MOS	01/22/2009
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MOS	01/22/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ысл	MOS	01/22/2009
sec-Butylbenzene	EPA 8260	<1.0	uo/L	MOS	01/22/2009
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MOS	01/22/2009
1,3-Dichiorobenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1.4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MOS	01/22/2009
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	01/22/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MOS	01/22/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MOS	01/22/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ua/L	MOS	01/22/2009
Hexachlorobutadiene	EPA 8260	<1.0	uo/L	MOS	01/22/2009
Naphthalene	EPA 8260	<2.0	ug/L	MOS	01/22/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	uo/L	MOS	01/22/2009
Surrogates:	EPA 8260				STILLIOUS
***1,2-Dichloroethane-D4	EPA 8260	84.6	% R	MOS	01/22/2009
***Toluene-D8	EPA 8260	96.2	% R	MOS	01/22/2009
***4-Bromofluorobenzene	EPA 8260	95.2	% P	MOS	01/22/2009
Preparation	EPA 50308	10	CE.	MOS	01/22/2008



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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Stephen Andrus

19940320100010		Work Order No :	0901-00090
Project No.:	03.0032795.16	Date Reported:	01/23/2009
Project Name	Charbert/Developing RAWP	Date Received:	01/21/2009

Sample ID: Micro-7 Sample Date:

01/20/2009

Sample No.: 007

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MOS	01/22/2009
Dichlorodifluoromethane	EPA 8260	<200	ug/L	MQS	01/22/2009
Chloromethane	EPA 8260	<200	ug/L	MQS	01/22/2009
Vinyl Chloride	EPA 8260	1800	ua/L	MOS	01/22/2009
Bromomethane	EPA 8260	<200	ug/L	MQS	01/22/2009
Chloroethane	EPA 8260	<100	ug/L	MQS	01/22/2009
Trichlorofluoromethane	EPA 8260	<200	ug/L	MQS	01/22/2009
Diethylether	EPA 8260	<500	ug/L	MQS	01/22/2009
Acetone	EPA 8260	<2500	ug/L	MOS	01/22/2009
1,1-Dichloroethene	EPA 8260	<100	ug/L	MOS	01/22/2009
Dichloromethane	EPA 8260	<200	ug/L	MOS	01/22/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<100	ua/L	MOS	01/22/2009
trans-1,2-Dichloroethene	EPA 8260	<100	ug/L	MOS	01/22/2009
1,1-Dichloroethane	EPA 8260	<100	ua/L	MOS	01/22/2009
2-Butanone	EPA 8260	<2500	ug/L	MOS	01/22/2009
2,2-Dichloropropane	EPA 8260	<100	ug/L	MOS	01/22/2009
cis-1,2-Dichloroethene	EPA 8260	6700	ug/L	MOS	01/22/2009
Chloroform	EPA 8260	<100	uo/L	MOS	01/22/2009
Bromochloromethane	EPA 8260	<100	ug/L	MOS	01/22/2009
Tetrahydrofuran	EPA 8260	<1000	ug/L	MOS	01/22/2000
1,1,1-Trichloroethane	EPA 8260	<100	ug/L	MOS	01/22/2009
1,1-Dichloropropene	EPA 8260	<100	ug/l	MOS	01/22/2009
Carbon Tetrachloride	EPA 8260	<100	ug/L	MOS	01/22/2009
1.2-Dichloroethane	EPA 8260	<100	ug/l	MOS	01/22/2009
Benzene	EPA 8260	<100	uo/l	MOS	01/22/2009
Trichloroethene	EPA 8260	440	und	MOS	01/22/2009
1.2-Dichloropropane	EPA 8260	<100	ug/L	MOS	01/22/2009
Bromodichloromethane	EPA 8260	<100	ug/t	MOS	01/22/2009
Dibromomethane	EPA 8260	<100	un/l	MOS	01/22/2008
4-Methyl-2-Pentanone	EPA 8260	<2500	un/l	MOS	01/22/2009
cis-1,3-Dichloropropene	EPA 8260	<100	ug/L	MOS	01/22/2008
Toluene	EPA 8260	<100	ugit	MOS	01/22/2009
trans-1,3-Dichloropropene	EPA 8260	<200	ug/L	MOS	01/22/2009
1.1.2-Trichloroethane	EPA 8260	<100	ug/l	MOS	01/22/2009
2-Hexanone	EPA 8260	<2500	ug/l	MOS	01/22/2009
1.3-Dichloropropane	EPA 8260	<100	ugit	MOS	01/22/2009
Tetrachloroethene	EPA 8260	710	ugre	MOS	01/22/2009
retrachioroeulene	EPA 8260	710	ug/L	MQS	01/22/2009



ANALYTICAL REPORT

Stephen Andrus				enseren v	09/02/04/04/04/06	
Project Name.: Project No.:	Charbert/Develo 03.0032795.16	ping RAWP	Date Date Worl	Received: Reported: (Order No.:	01/21/2009 01/23/2009 0901-00090	_
Sample ID:	Micro-7				Sample No.:	007
Sample Date:	01/20/2009					
Test Performed		Method	Results	Units	Tech	Analysis Date
Dibromochlorome	ethane	EPA 8260	<100	ug/L	MQS	01/22/2009
1,2-Dibromoethan	ne (EDB)	EPA 8260	<200	ug/L	MQS	01/22/2009
Chlorobenzene	2박승규 수요 문화가	EPA 8260	<100	ug/L	MQS	01/22/2009
1,1,1,2-Tetrachlo	roethane	EPA 8260	<100	ug/L	MQS	01/22/2009
Ethylbenzene		EPA 8260	<100	ug/L	MQS	01/22/2009
m&p-Xylene		EPA 8260	<200	ug/L	MQS	01/22/2009
o-Xylene		EPA 8260	<100	ug/L	MQS	01/22/2009
Styrene		EPA 8260	<100	ug/L	MQS	01/22/2009
Bromoform		EPA 8260	<200	ug/L	MQS	01/22/2009
sopropylbenzene	2	EPA 8260	<100	ug/L	MQS	01/22/2009
1,1,2,2-Tetrachio	roethane	EPA 8260	<100	ug/L	MQS	01/22/2009
1,2,3-Trichloropro	opane	EPA 8260	<100	ug/L	MQS	01/22/2009
Bromobenzene		EPA 8260	<100	ug/L	MQS	01/22/2009
N-Propylbenzene	£	EPA 8260	<100	ug/L	MQS	01/22/2009
2-Chlorotoluene		EPA 8260	<100	ug/L	MQS	01/22/2009
1,3,5-Trimethylbe	nzene	EPA 8260	<100	ug/L	MQS	01/22/2009
4-Chlorotoluene		EPA 8260	<100	ug/L	MQS	01/22/2009
ert-Butylbenzene	E	EPA 8260	<100	ug/L	MQS	01/22/2009
1,2,4-Trimethylbe	nzene	EPA 8260	<100	ug/L	MQS	01/22/2009
sec-Buty/benzene	•	EPA 8260	<100	ug/L	MQS	01/22/2009
o-isopropyitoluen	e	EPA 8260	<100	ug/L	MQS	01/22/2009
1,3-Dichlorobenze	ene	EPA 8260	<100	ug/L	MQS	01/22/2009
1,4-Dichlorobenze	ene	EPA 8260	<100	ug/L	MQS	01/22/2009
1-Butylbenzene		EPA 8260	<100	ug/L	MQS	01/22/2009
.2-Dichlorobenze	ene	EPA 8260	<100	ua/L	MQS	01/22/2009
1.2-Dibromo-3-Ch	nloropropane	EPA 8260	<500	ug/L	MQS	01/22/2009
1,2,4-Trichloraber	nzene	EPA 8260	<100	ug/L	MQS	01/22/2009
lexachlorobutadi	ene	EPA 8260	<100	ug/L	MQS	01/22/2009
Naphthalene		EPA 8260	<200	ug/L	MQS	01/22/2009
1,2,3-Trichlorober	nzene	EPA 8260	<100	ug/L	MQS	01/22/2009
Surrogates;		EPA 8260				
**1,2-Dichloroeth	ane-D4	EPA 8260	82.8	% R	MQS	01/22/2009
***Toluene-D8		EPA 8250	95.3	% R	MQS	01/22/2009
***4-Bromofluorot	benzene	EPA 8260	94.4	% R	MQS	01/22/2009
Preparation		EPA 5030B	100	CF	MOS	01/22/2009



Sample No :

MQS

01/22/2009

ug/L

800

Analysis

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Stephen Andrus

Tetrachloroethene

Project No.:	03.0032795.16	Date Reported:	01/23/2009	
		WORK Order NO.;	0901-00090	

Sample ID: Micro-8

Sample Date: 01/20/2009

Test Performed Method Results Units Tech Date VOLATILE ORGANICS EPA 8260 01/22/2009 MQS <200 Dichlorodifluoromethane EPA 8260 ug/L MOS 01/22/2009 Chloromethane EPA 8260 <200 ug/L MOS 01/22/2009 Vinyl Chloride EPA 8260 2200 MOS ug/L 01/22/2009 EPA 8260 <200 Bromomethane MQS 01/22/2009 ug/L Chloroethane EPA 8260 ug/L <100 MQS 01/22/2009 EPA 8260 <200 Trichlorofluoromethane ug/L MQS 01/22/2009 Diethylether. EPA 8260 <500 ug/L MOS 01/22/2009 EPA 8260 <2500 Acetone ug/L MOS 01/22/2009 1.1-Dichloroethene EPA 8260 <100 MOS 01/22/2009 ug/L Dichloromethane EPA 8260 <200 ug/L MOS 01/22/2009 Methyl-Tert-Butyl-Ether EPA 8260 <100 MQS 01/22/2009 ug/L trans-1,2-Dichloroethene EPA 8260 <100 ug/L MOS 01/22/2009 1.1-Dichloroethane EPA 8260 <100 MQS ug/L 01/22/2009 EPA 8260 2-Butanone <2500 MOS 01/22/2009 ug/L 2,2-Dichloropropane EPA 8260 <100 MQS ug/L 01/22/2009 cis-1,2-Dichloroethene EPA 8260 7600 MQS ug/L 01/22/2009 Chloroform EPA 8260 <100 MQS 01/22/2009 ug/L Bromochloromethane EPA 8260 <100 MOS ug/L 01/22/2009 Tetrahydrofuran EPA 8260 <1000 MQS 01/22/2009 ug/L 1,1,1-Trichloroethane EPA 8260 <100 MOS ug/L 01/22/2009 EPA 8260 <100 1,1-Dichloropropene MQS 01/22/2009 ugiL Carbon Tetrachloride EPA 8260 <100 ug/L MOS 01/22/2009 1.2-Dichloroethane EPA 8260 <100 MOS ua/L 01/22/2009 Benzene EPA 8260 <100 MOS ug/L 01/22/2009 EPA 8260 Trichlorcethene 1300 ug/L MQS 01/22/2009 1,2-Dichloropropane EPA 8260 <100 MQS ug/L 01/22/2009 Bromodichloromethane EPA 8260 <100 ug/L MOS 01/22/2009 Dibromomethane EPA 8260 <100 MQS 01/22/2009 ug/L 4-Methyl-2-Pentanone EPA 8260 <2500 ug/L MOS 01/22/2009 EPA 8260 cis-1,3-Dichloropropene <100 ug/L MOS 01/22/2009 Toluene EPA 8260 <100 MQS ug/L 01/22/2009 trans-1,3-Dichloropropene EPA 8260 <200 ug/L MQS 01/22/2009 1.1.2-Trichloroethane EPA 8260 <100 MOS ug/L 01/22/2009 2-Hexanone EPA 8260 <2500 MOS 01/22/2009 ug/L 1,3-Dichloropropane EPA 8260 <100 MOS 01/22/2009 ug/L

5000

EPA 8260



GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Stephen Andrus Date Received: 01/21/2009 Project Name .: Charbert/Developing RAWP Date Reported: 01/23/2009 Project No .: 03.0032795.16 Work Order No.: 0901-00090 Sample ID: Micro-8 Sample No .: 008 01/20/2009 Sample Date: Analysis Test Performed Method Results Units Tech Date Dibromochloromethane EPA 8260 <100 ug/L MOS 01/22/2009 1.2-Dibromoethane (EDB) EPA 8260 <200 MQS ug/L 01/22/2009 Chlorobenzene EPA 8260 <100 ug/L MOS 01/22/2009 1,1,1,2-Tetrachioroethane EPA 8260 <100 ug/L MOS 01/22/2009 Ethylbenzene EPA 8260 <100 ug/L MQS 01/22/2009 m&p-Xylene EPA 8260 <200 MQS 01/22/2009 ug/L o-Xylene EPA 8260 <100 ug/L MOS 01/22/2009 Styrene EPA 8260 <100 MQS 01/22/2009 ug/L Bromoform EPA 8260 <200 MOS ug/L 01/22/2009 Isopropylbenzene EPA 8260 <100 Ug/L MOS 01/22/2009 1,1,2,2-Tetrachloroethane EPA 8260 <100 MOS 01/22/2009 ug/L 1.2.3-Trichloropropane EPA 8260 <100 MOS ug/L 01/22/2009 Bromobenzene EPA 8260 <100 Ug/L MQS 01/22/2009 N-Propylbenzene EPA 8260 <100 ug/L MOS 01/22/2009 2-Chlorotoluene EPA 8260 <100 ug/L MOS 01/22/2009 1.3.5-Trimethylbenzene EPA 8260 <100 ug/L MQS 01/22/2009 4-Chlorotoluene EPA 8260 <100 MOS ug/L 01/22/2009 tert-Butylbenzene EPA 8260 <100 MQS ug/L 01/22/2009 1,2,4-Trimethylbenzene EPA 8260 <100 MOS ug/L 01/22/2009 sec-Butylbenzene EPA 8260 <100 ug/L MOS 01/22/2009 p-isopropyitoluene EPA 8260 <100 MOS ug/L 01/22/2009 1.3-Dichlorobenzene EPA 8260 <100 ua/L MOS 01/22/2009 1,4-Dichlorobenzene EPA 8260 <100 MQS ug/L 01/22/2009 n-Butylbenzene EPA 8260 <100 ug/L MOS 01/22/2009 1,2-Dichlorobenzene EPA 8260 <100 ug/L MQS 01/22/2009 1,2-Dibromo-3-Chloropropane EPA 8260 <500 MOS ug/L 01/22/2009 1.2.4-Trichlorobenzene EPA 8260 <100 ug/L MQS 01/22/2009 Hexachlorobutadiene EPA 8260 <100 MOS ug/L 01/22/2009 Naphthalene EPA 8260 <200 ug/L MOS 01/22/2009 1,2,3-Trichlorobenzene EPA 8260 <100 ug/L MQS 01/22/2009 Surrogates: EPA 8260 ***1.2-Dichloroethane-D4 EPA 8260 82.9 % R MQS 01/22/2009 ***Toluene-D8 EPA 8260 95.4 % R MOS 01/22/2009 ***4-Bromofiuorobenzene EPA 8260 96.3 MQS % R 01/22/2009 Preparation EPA 5030B 100 CF MQS 01/22/2009

OZA Geo Drifto Waritan Iwa 108 Sauft Street Highteton, IVA C1748

CPA Watered 62007-004 P Agameter Method Starts (1995) and Lateredary Cantol Sumple/Suplicate (LCBA.CSD) Data

Mathed Blank			Laboratory Control Bangia				Laboratory Co	atrai Bergin Duplin				
Date Anniyont	1222200		Date Analyzed	HERROR			1020900					
Vesility Digeries	Core.ugt.	Scheinen Linebr	Apiks Concentration + Ibugh.	% Recovery	Assaylance Lines.	Vendel	S. Recowary	Appendance Livety	Manufatt	- NUMP	1.644	Variation
tioncrodifuorpinational	8.58	4 1.0	dict-losud/surrorsettane	160	70-030	144	147	10.155		3.55	116	
LTC: CONTRACTOR OF	4.3.8	* 10	shakes waltake	100	26-130		103	70-180		4.91	408	
serve changes	* 0.5	4 85	when other the	188	80.120		108	35-126	1.00	4.73	- 25	22
Biomomatravie	* 5 *	4.18	burnon-efficient	14.8	70-130	44	14.2	78-120		3.73	<15	
UTSCOMPLOYA	4 0.4	4 4.5	and a second second	+98	79-130		104	75-130		12.21	111	100
1NIX CEFUSION/HINE	M 14	(4) 久慶()	histophysicsponethere	188	70-130	- 18	108	75/190		8.47	+25	
s obji ether	* 2.5	* ZA	dahyi aher	508	70-130	ok.	95.1	30-130	-	4.54	+25	ak
accounter	* 13	• 13	antes	88.0	70-130	- 64	400.1	70-155	-	8.45	435	08
(1-deferrations	= 0.0	- 25	% 1-ellottonem#mene	821	ALC: 120		47.4	70-120		· (A.)add	+25	OK.
PRECINETIS	A: 3.8	- 10 ·	FREGA-113	NOR.	79,130	- 44	103	79-190		3.12	425	0.0
COLORED LANK	+ 0.5	* 0.5	indersel and	85.8	P3 120	-	81.1	79-199		2.08	100	600
WINTER COURTERS		* 24	uniter deultuw	121	70-630	.08	118	70-130	- 68	3.49	125	104
test is and standard (TB a).	* 1.0		dictionsmettarie	#2.1	70-130	08	80.4	20-190	198	1.43	4265	
and the state of t			INT DUTY ACCOUNT (TRA)	121	Y0-130	- 14	114	70-190	- 28	12.0	<25	20
starting has been and attend	2.22	* 00	multiple and the		10-130	- 69	66.0	70-183		0.00	×25	18.
Dates 1 2 decision and see	1.0.0	- 0.5	many-site-burgi-alter		10.630		94.3	70-130	(19 1)	2.48	- * #	- 44
1.5 distantiant		- 0.0	Norm 1,2 dia screethere	99.1	73-680	- 68	98.7	70-130	08	1.40	120	nk
di secondari altas (CARE)			1,1-Bertenbergerung	90.1	TO DE		56.1	79-130		5 B. BR	+25	28
officiant hats show (Entry)	1.1.1		-champool and [D-Po]		12138	40	60.6	70-100	- 18	1.69	~26	
wind everytes			stade provide service (Extent)	10.0	70-028	100	PH-7	PO-130		1.03	< 00	-
T-Budgetonia			and a second	10.0	10130	64	67.6	70-120		2.14	- 12	10.
2.2-Action process	2.01		a balantin transmission	100	10-100	(Del	00.5	10.530		3.64	-78	
the LT challes after a			A product of the second second	100	75-144	-	63.8	10-1030	48	1.04	<19	-
(Nevel-later	* 0.5	2.44	and the second second second	30.2	70.333	- 18	93.5	10.000	**	10.00	*25	ak
Litereschior Literations	* 01	4.43	Enderstand and and	100.4	20.122	17		10.030		4.69	*0	100
Introductivitations	* 0.8	* 10	tel state (second		40.400		5.4	10-100	24	1.29	198	(46
1.1.1.1-behaviorenthamat	. 0.5	e 25	1.1.1. ministrations	104.00	100.000	17	100	10-120	94	2,38	+75	OR
1.1-dictilaregroperie	+ 0.4	28	1.1. distinguishing	1000	70.000		80.0	79-128	**	1.44	-25	608
carboy last actionals	+ 0.5	1.4.5	contract information into	22.2	20.000		41.2	79-130	-	8.42		ux.
1.2-Notherpatheres	* 0.6	* 24	13 distantations		100 1000	122	42.4	20-124		1,000	125	ex.
terrations.	* 55	4 44	Barutra		80.100		100.7	.70-120		1,38	-25	sol.
tert may statut after (TANE)	# 1.8	4 1.4	the Restory in contrast without 17 (147)	10.1	26-180	12		79-730		2.79	*25	cox.
TRANSPORTER	* 04	4 0.5	Distance of the property of		22,120		90.0	79-139	-	1.10	429	6×.
C2-choltomantauma	* 06	* 0.0	12. detter and the		44.446	- 22		10-130		8.00	+52	DR:
D Dreid-D-bingter Date	< 0.0	* 0.5	transfed chistoriation w		20,100			10.135		8,52	125	ER.
T.S.Camete	+ 10	* 60	L.C.Conside	and the second sec	10.110	- 32	01.0	10-100		2.04	- 500	
distance attance.	* 18	* 0.6	-Strumornative no	80.2	70.000	- C.		10,100	- 24		- 22	D#
4-metrol-2-pertanone	e 13	4 13	6-THIN-2-DATATION	25.7	70, 100	- 22		80.000	- 1	1.00		
sia 1.3-2024 vijegena	. 3.5	* 0.5	cia 1.5-8184 energiane	99.7	for size	100	00.4	33, (30)	820	1.00	4.00	
lation to	4 36	* 0A	100.000	80.0	50.120		92.6	33.190	- 2 -	1.000	2.00	
Here-1,3-diction/pporpiese	* * D	* 10	trans 1.3-d stdoopartum's	95.1	70-100	100	93.0	80.000	120	1.00	200	
1.1.2 dictionalitary	1.08	* 0.5	1.1.2-biolocottares	95.Y	70-130	104	800.6	70-130		3.64	- 4785	
2.0stations	• (10)	4 13	2 hisaros	31.6	TO 130	rik	90.7	20-100		1.18	128	22.1
1.3-4%/hisroproperty	Y 0.0	4 6.0	1.5-dichioropropries	44.0	70-530	ok	95.1	20.133	-	1.00	125	
for the second sec	< 2.8	* 55	1strainionisthene	90.1	T0-106	08	98.0	70-180	100	2.54	525	
al Date we office a real harse	+ 34	- 55	disconcilias annotana	97.8	YES THE	10	65.6	70-190	100	2.14	100	
1.2-sibis mostrers (ECO)	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	# 1.0	1.2-dbronuntrase (0203)	100.5	10-130	208	95.0	718-100		2.00	+25	14
Children and a statement of the statemen	4 2.5	H 95	x1%/mbaridaries	44.8	76+56		80.8	75 (50	- 08	5.00	100	
1,1,7,2 MillionPackood/turine	4.05	< 63	1.1.1.2 Intrachterondrame	85.0	70-130	- CA.	93.8	70-130	14	5.23	625	
adratilenzarie	• 0.4	- 45	sitytherpere	44.1	60-122	1.0	00.1	70-130		2.07	+25	
1,1,2,2-tetrochossemana	 9,8 	* 1.8	1,1,2,2 bitm://unefiane	58.4	78-130	10.	64.0	10.120	- et -	6.07	4.35	100
map-symmetry	+ 1.9	< 10	mage symmetry	52.8	72-135	14	\$3.5	10-100		2.48	+25	- 104
a share	· D.0	* 0.5	3. X/8749	94.0	70-130	- 10	82.4	70 130	**	1.04	+21	cole .
a la superior de la s	4.0.4	- 0.5	auto-more .	105	30-130	14	102	70-130		4.67	+35	nain .
El Comunication (V)	1.1.1	- 50	Entraffication -	60.8	72-153	100	89.3	70-130	48	12.04	+25	ok:
work and shapes. Total	. 5.8	* 25	echopid partana	110	78-196	10	100	/8.130	-	1.39	+25	644
s.e.o.mprevoprocene	4 0.0	0.0	1.3.3-minlanumpane	99,3	79-130		84.0	75-728	-08	0.00	+25	
A CARGO DE C		- 9.2	workbecare .	98.5	70-133	- 98	847	78-158	-	1.28	+25	e.
S company and a second		- 0.6	n-encoylerusme	101	76-130	04	98.5	70-130		1,36	+25	14
1 2 Constants of			2-04/2010/2014	40.2	79-130	04	88.4	75-138	- 18	0.94	+25	10
the same 1 model in the same		- 0.8	1. A. Antonia and Allowed Party	56.3	70-190	414	80.6	75-138		3.78	+25	8 R
A company of the second se			Hard-1, 4rd SPROTD-2 Rules	394	70-130	28	100	78-128	-	3.83	425	68
intillight but their		1 0.9	4-010/05/0016	87.8	70-130	aix	90.1	79-193	100	1.44	+25	
+ It showed to final states			ing crakenting	112	79-130		113	NF-138		1.58	*28	28
car haid havens			1.1.4 canadytoester a	80.8	10/100	-000	94.0	79-138		1.48	+25	
a and the second second	2.10	* 0.a	one party contract	an.e	70.130	-466	64.0	79-190		1.04	-318	-
1.3 distrigantes and		. 05	1 To distance in the second	45.1	10-130	1000	94.8	70-130	- 10	1.85	+75	08
L. & and the owner water		4 55	Contract of the second second	83.8	10-130	08	89.0	79-130	-18	1.70	125	94
n-b-/vibestrate	4.25		Contract of Property and Pro-		10-130	280	40.3	PG-330	58.	1.18	436	- etc.
1.3-districted entreter	4.0.4	. 06	1 7. Barren and and	49.3	10-130	00	94.6	10-130	-04	5.84	+25	100
12 day or the Arthree comments		4.38	1 Deliver and 2 deliver	101	111.1200	Diff.	10.0	79-130		0.00	+22	-
1.0.5 Etimioraberrieta	(C) 2 (C)		A darine	100	10-130	nak	90.0	70-130	108	14.75	-25	98
1.2. S EXCLOSION STREET, SAME	1.0.5	4 88	1 T A LOCAL DE LA COMPANY	10 T	10-120	- 10	96.0	10-130	- 08	6.79	425	38
has a structure of a line	4 1.8		A CONTRACTOR OF LINE	44.1	10-130	505	90.1	10-130	08	0.30	425	
raphhainne	4. 2.8	* 95	hapf Pulses	99.1	KD 130		10.0	10-100	**	0.20	-25	- 04 198
Sumples Distriction of the State	Recovery (%)	Acceptance Links	Burrogetas:	Recently (%)	Acceptance Linds V	/enclief	Becovery (%)	Acceptance LimitsV	ettet (RPD	Link	Variat
LEOCH ORDETWARK OF	10 A 10	Cite 1.64	COMPACT OF COORDINE THAT	94.0	70-11盆		93.3	10-130	-14	0.79	+25	1.84
TOLLENE OR	40.0	100-120	THURSDAY OF	Set D	70-130	10	P4.9	10-130		1.21	+25	**
4-BROMOFLISTED BENZENE	AV 8	20.450	a DOTANGAL PROVIDENCE	1 A A	10.120		AR 8	10-136	28	0.85	.<25	
12-CHOHLOBOREV2ENE-Da	D1 7	70.400	A DETAIL CREATE AND A DETAIL	40.1	132	**	47.2	70-100	-	10/四	+25	44
Contraction of the second second	C	00.000	THE REPORT OF THE PROPERTY OF	100.1	10,000	08	83.7	10-110	-	10.449	<28	

Container Types, Passuly, G	トリロたー	Circle in approable. Ov	Circle if anniomhlas CU		CUBBRICKARD	Tomo Tom	A A Relinquis	Contact Person S	Telephone 40	Cuty / State / Zap	Address: 5	Company Name: Or				1.000 1100	1-W-11 N.00	NIN PORT	1-20-01 14:00	1-20-09 14:00	1-20-01 11200	A	1-20-5 11:00	00:11 PO-31-1	Date Time Collected Collected	Fax: 401-738-1	Tel: 800-937-2	Warwick, RI 02	K.I. Anal	CHAIN OI
after SW-Surface Water WWWWaterstein Indu-Tool	att. 20 minus chilmes	1. GW-2, GW-3, S-1, S-2, S-3	Project Co		V V VIII II II	no on whell throw the	shud By / Date / Time	tere studing	1-421-4140 Fm	aro an ming way	50, Biridung	by brokenwannen til	Client Information			Curl to D	MI WD Z	MIND-6	M.Cvo-5	Milvo - 4	14.000-3	Wast 192-2	WICK2 - 1	TS	Field Sample Identification	970 Fax: 978-568-0078	580 Tel: 888-228-3334	Hadson MA 01740	ytical Laboratories, Inc.	F CUSTODY RECORD
reservatio	t u	M	Inneats	1	fre	2026	Π			11				-	t			t						9	Gral	o or	£₀	mpo	site	
n Code	~	PDat		1	14	B								ļ	-	11	+	-	-					1.2	# of	Con	tain	ers a	& Ty	peT
SI NP-	PC	a Enh			4	ŝ	Recei	\vdash	10	\vdash	-	-	Η	-	-	H	+		-	-	-		-	4 6.	Mat	ix C	ode	M		-
None, N-HNOL H-HC	E, TCE	ancement QC Pac				2	red By	Quote No.	Sampled by: 5 tere	Report Ton Stee	P.O. Number	NJEET Name: Clark				-8	2	8	8	8	8	Ņ	8	8	Vac	5	8	32	60.	B
1, S=H_50+ SH=		Kage? Yes			While's	1/21/29	Date		whatu	× Usente	1	anut	Pr									-					ł	02		
VaCH, SB=NaHSO,		No			1/30	10.00	Time	Email address	S	Phone	Project Number:		ject Information															1-0001	0	
M-MeOH, T=Na,S ₂ C Z+ZnOAc, I=Iba	Shipped on at 2.9 (4 6 3/0 Workorder Not	Sample Pick Up Only	Lab Use Only	Kush (business days)	Sec 5 Business days Possible surdarys	Normal EMAIL Report	Turn Around Time			Fax	52795.16																		\$ <u>,</u>	

WOOD RIVER



Laboratory Identification Numbers: MA and ME: MA092 NH: 2028 CT: PH0579 RI: LAC00236 NELAC - NYS DOH: 11063

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903
 Project No.:
 03.0032795.16

 Work Order No.:
 0902-00004

 Date Received:
 02/02/2009

 Date Reported:
 02/05/2009

Stephen Andrus

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
01/30/2009	Aqueous	0902-00004 001	WR-1
01/30/2009	Aqueous	0902-00004 002	WR-2
01/30/2009	Aqueous	0902-00004 003	WR-3
01/30/2009	Aqueous	0902-00004 004	LAG 5 CHNL
01/28/2009	Aqueous	0902-00004 005	тв

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Page 2 of 13

ANALYTICAL REPORT

PROFESSION STREET, STRE

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Stephen Andrus

Project Name :	Charbert/Developing RAWP	Date Received: Date Reported:	02/02/2009 02/05/2009
Project No.:	03.0032795.16	Work Order No ::	0902-00004

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 02/02/09 via _x_GZA courier, __EC, __FEDEX, or ___hand delivered. The temperature of the __temperature blank/_x_cooler air, was 3.1 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 continuing calibration verification standard (CCV) (02/03/09 S) had an analyte outside of the 30%D QC acceptance limit. The outlier includes dichlorodifluoromethane (33%).

The Laboratory Control Sample (LCS) (02/03/09 S) had an 8260 list analyte outside of the 70-130% QC acceptance limits. Specific outlier includes dichlorodifluoromethane (133%). This analyte was not detected in the associated samples.

Sample LAG 5 CHNL (0902-004-004) was analyzed at a 1/25 dilution based upon screening information and in order to report all target analytes within the calibration range of the instrument.

Attach QC 8260 02/03/09 S - Aqueous

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C	IL \y
	1

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Stephen Andrus

Project Name.: Project No.:	Charbert/Developing RAWP 03.0032795.16	Date Received: Date Reported: Work Order No	02/02/2009 02/05/2009 0902-00004
Data Authorized NELAC certific analytes, please	By: Duffer Action, as indicated by the NELAC Lab ID Number contact the laboratory.	r, is per analyte. For a complete	list of NELAC validated

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 \$270: The current version of the method is \$270D. Method 6010: The current version of the method is 6010B.

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

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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.



Tetrachloroethene

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Stephen Andrus Date Received: 02/02/2009 Project Name : Charbert/Developing RAWP Date Reported: 02/05/2009 Project No .: 03.0032795.16 Work Order No .: 0902-00004 Sample ID: WR-1 Sample No.: 001 Sample Date: 01/30/2009 Analysis Test Performed Method Results Units Tech. Date VOLATILE ORGANICS EPA 8260 MOS 02/03/2009 Dichlorodifluoromethane EPA 8260 <2.0 ug/L MQS 02/03/2009 Chloromethane EPA 8260 <2.0 ug/L MQS 02/03/2009 Vinvl Chloride EPA 8260 <1.0 ug/L MQS 02/03/2009 Bromomethane EPA 8260 <2.0 MQS ug/L 02/03/2009 Chloroethane EPA 8260 <1.0 ug/L MQS 02/03/2009 Trichlorofluoromethane EPA 8260 <2.0 ug/L MQS 02/03/2009 Diethylether. EPA 8260 <5.0 ug/L MQS 02/03/2009 Acetone EPA 8260 <25 MOS ug/L 02/03/2009 1.1-Dichloroethene EPA 8260 <1.0 ug/L MOS 02/03/2009 Dichloromethane EPA 8260 <2.0 ug/L MOS 02/03/2009 Methyl-Tert-Butyl-Ether EPA 8260 <1.0 ug/L MOS 02/03/2009 trans-1,2-Dichloroethene EPA 8260 <1.0 ug/L MOS 02/03/2009 1.1-Dichloroethane EPA 8260 <10 ug/L MOS 02/03/2009 2-Butanone EPA 8260 <25 ug/L MOS 02/03/2009 2,2-Dichloropropane EPA 8260 <1.0 ug/L MQS 02/03/2009 cis-1.2-Dichloroethene EPA 8260 <1.0 ug/L MQS 02/03/2009 Chloroform EPA 8260 <1.0 ug/L MQS 02/03/2009 Bromochloromethane EPA 8250 <1.0 ug/L MQS 02/03/2009 Tetrahydrofuran EPA 8260 <10 MQS ug/L 02/03/2009 1,1,1-Trichloroethane EPA 8260 <1.0 ua/L MOS 02/03/2009 1,1-Dichloropropene EPA 8260 <1.0 MOS ug/L 02/03/2009 Carbon Tetrachloride EPA 8260 <1.0 ug/L MQS 02/03/2009 1.2-Dichloroethane EPA 8260 <1.0 ug/L MOS 02/03/2009 Benzene EPA 8260 <1.0 ua/L MOS 02/03/2009 Trichloroethene EPA 8260 <1.0 ug/L MQS 02/03/2009 1.2-Dichloropropane EPA 8260 <1.0 ug/L MQS 02/03/2009 Bromodichloromethane EPA 8260 <1.0 MOS ug/L 02/03/2009 Dibromomethane EPA 8260 <1.0 ug/L MQS 02/03/2009 4-Methyl-2-Pentanone EPA 8260 <25 ug/L MQS 02/03/2009 cis-1,3-Dichloropropene EPA 8260 <1.0 ug/L MQS 02/03/2009 Toluene EPA 8260 <1.0 MQS ug/L 02/03/2009 trans-1,3-Dichloropropene EPA 8260 <2.0 ug/L MQS 02/03/2009 1,1,2-Trichloroethane EPA 8260 <1.0 ug/L MQS 02/03/2009 2-Hexanone EPA 8260 <25 ug/L MOS 02/03/2009 1,3-Dichloropropane EPA 8260 <1.0 ug/L MQS 02/03/2009

<1.0

ug/L

MQS

02/03/2009

EPA 8260



***Toluene-D8

Preparation

***4-Bromofluorobenzene

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Stephen Andrus Date Received: 02/02/2009 Project Name .: Charbert/Developing RAWP Date Reported: 02/05/2009 Project No .: 03.0032795.16 Work Order No .: 0902-00004 WR-1 Sample ID. Sample No .: 001 Sample Date: 01/30/2009 Analysis Test Performed Method Results Units Tech Date Dibromochloromethane EPA 8260 <1.0 ua/L MOS 02/03/2009 1.2-Dibromoethane (EDB) EPA 8260 <2.0 ug/L MQS 02/03/2009 Chlorobenzene EPA 8260 <1.0 ug/L MQS 02/03/2009 1,1,1,2-Tetrachioroethane EPA 8260 <1.0 ug/L MOS 02/03/2009 Ethylbenzene EPA 8260 <1.0 ug/L MQS 02/03/2009 m&p-Xylene EPA 8260 <2.0 MQS ug/L 02/03/2009 o-Xylene EPA 8260 <1.0 ug/L MOS 02/03/2009 Styrene EPA 8260 <1.0 ug/L MOS 02/03/2009 Bromoform EPA 8260 <2.0 ug/L MQS 02/03/2009 Isopropylbenzene EPA 8260 <1.0 ug/L MQS 02/03/2009 1,1,2,2-Tetrachioroethane EPA 8260 <1.0 ug/L MQS 02/03/2009 1,2,3-Trichloropropane EPA 8260 <1.0 ug/L MQS 02/03/2009 Bromobenzene EPA 8260 <1.0 ug/L MOS 02/03/2009 N-Propylbenzene EPA 8260 <1.0 ug/L MOS 02/03/2009 2-Chlorotoluene EPA 8260 <1.0 ug/L MOS 02/03/2009 1.3.5-Trimethylbenzene EPA 8260 <1.0 ug/L MOS 02/03/2009 4-Chlorotoluene EPA 8260 <1.0 ug/L MQS 02/03/2009 tert-Butylbenzene EPA 8260 <1.0 MOS ug/L 02/03/2009 1.2.4-Trimethylbenzene EPA 8260 <1.0 MQS ug/L 02/03/2009 sec-Butylbenzene EPA 8260 <1.0 ug/L MOS 02/03/2009 p-isopropyltoluene EPA 8260 <1.0 ug/L MOS 02/03/2009 1.3-Dichlorobenzene EPA 8260 <1.0 ug/L MOS 02/03/2009 1,4-Dichlorobenzene EPA 8260 <1.0 ug/L MQS 02/03/2009 n-Butylbenzene EPA 8260 <1 D ug/L MQS 02/03/2009 1,2-Dichlorobenzene EPA 8260 <1.0 ug/L MOS 02/03/2009 1.2-Dibromo-3-Chloropropane EPA 8260 <5.0 ug/L MOS 02/03/2009 1,2,4-Trichlorobenzene EPA 8260 <1.0 ug/L MQS 02/03/2009 Hexachlorobutadiene EPA 8260 <1.0 ug/L MQS 02/03/2009 Naphthalene EPA 8260 <2.0 ug/L MOS 02/03/2009 1.2.3-Trichlorobenzene EPA 8260 <1.0 ug/L MQS 02/03/2009 Surrogates: EPA 8260 ***1.2-Dichloroethane-D4 EPA 8250 96.6 % R MOS 02/03/2009

EPA 8260

EPA 8260

EPA 5030B

100

102

1.0

%R

%R

ĊF

MOS

MQS

MOS

02/03/2009

02/03/2009

02/03/2009



Stephen Andrus

ANALYTICAL REPORT

Sample ID: WR-2: Sample Date: 01/30/2009 Test Performed Method Results Units Test Anal. Data VOLATILE ORGANICS EPA 8260 MQS 02/03 Dichiorodifluoromethane EPA 8260 ug/L MQS 02/03 Vinyl Chloride EPA 8260 ug/L MQS 02/03 Bromomethane EPA 8260 <2.0 ug/L MQS 02/03 Chloromethane EPA 8260 <2.0 ug/L MQS 02/03 Romomethane EPA 8260 <2.0 ug/L MQS 02/03 Chloroethane EPA 8260 <2.0 ug/L MQS 02/03 Trichloroftuoromethane EPA 8260 <2.0 ug/L MQS 02/03 Statistic Hane EPA 8260 <1.0 ug/L MQS 02/03 Statistic Hane EPA 8260 <1.0 ug/L MQS 02/03 Statistic Hane EPA 8260 <1.0 ug/L MQS 02/03	Project Name.: Charbert/Developing Project No.: 03.0032795.16		oping RAWP	Date Received. 02/02/20 Date Reported: 02/05/20 Work Order No.: 0902-000	02/02/2009 02/05/2009 0.: 0902-00004	
Sample Date: 01/30/2009 Test Performed Method Results Units Tech Anal Dationodifiuoromethane VOLATILE ORGANICS EPA 8260 <2.0 ug/L MQS 02/03 Dichiorodifiuoromethane EPA 8260 <2.0 ug/L MQS 02/03 Chloromethane EPA 8260 <1.0 ug/L MQS 02/03 Bromomethane EPA 8260 <1.0 ug/L MQS 02/03 Chloromethane EPA 8260 <2.0 ug/L MQS 02/03 Chloromethane EPA 8260 <2.0 ug/L MQS 02/03 Dichlorofluoromethane EPA 8260 <2.0 ug/L MQS 02/03 Dichlorofluoromethane EPA 8260 <1.0 ug/L MQS 02/03 Dichloromethane EPA 8260 <1.0 ug/L MQS 02/03 Dichloromethane EPA 8260 <1.0 ug/L MQS 02/03 Dichloromethane EPA 8260 <1.0 ug	uple 1D;			Sam	le No.:	002
Test Performed Method Results Units Tech Annul Data VOLATILE ORGANICS EPA 8260 MQS 02/03 Dichiorodiffuoromethane EPA 8260 v2.0 ug/L MQS 02/03 Chioromethane EPA 8260 <2.0 ug/L MQS 02/03 Stommethane EPA 8260 <1.0 ug/L MQS 02/03 Bromomethane EPA 8260 <1.0 ug/L MQS 02/03 Chloromethane EPA 8260 <2.0 ug/L MQS 02/03 Chloroethane EPA 8260 <2.0 ug/L MQS 02/03 Trichlorofluoromethane EPA 8260 <2.0 ug/L MQS 02/03 Acetone EPA 8260 <1.0 ug/L MQS 02/03 Thishioroethane EPA 8260 <1.0 ug/L MQS 02/03 1.1-Dichioroethane EPA 8260 <1.0 ug/L MQS 02/03 2-bichioroethane EPA 8260 <1.0	ple Date:					
VOLATILE ORGANICS EPA 8260 MQS 02/03 Dichiorodifiuoromethane EPA 8260 <2.0	Performed	Units	Method	Units	Tech	Analysis Date
Dichlorodifluoramethane EPA 8260 <2.0 ug/L MQS 02/03 Chloromethane EPA 8260 <2.0	ATILE ORGA		EPA 8260		MQS	02/03/2009
Chloromethane EPA 8260 <2.0 ug/L MQS 02/03 Vinyl Chloride EPA 8260 <1.0	niorodifluorome	ug/L	EPA 8260	ug/L	MQS	02/03/2009
Vinyl Chloride EPA 8260 <1.0 ug/L MQS 02/03 Bromomethane EPA 8260 <2.0	oromethane	ug/L	EPA 8260	ug/L	MQS	02/03/2009
Bromomethane EPA 8260 <2.0 ug/L MQS 02/03 Chloroethane EPA 8260 <1.0	I Chloride	ug/L	EPA 8260	ug/L	MQS	02/03/2009
Chloroethane EPA 8260 <1.0 ug/L MQS 02/03 Trichlorofluoromethane EPA 8260 <2.0	momethane	ug/L	EPA 8260	ug/L	MQS	02/03/2009
Trichlorofluoromethane EPA 8260 <2.0 ug/L MQS 02/03 Diethylether EPA 8260 <5.0	proethane	ug/L	EPA 8260	ug/L	MQS	02/03/2009
Diethylether EPA 8250 <5.0 ug/L MQS 02/03 Acetane EPA 8260 <25	hlorofluoromet	ug/L	EPA 8260	ug/L	MQS	02/03/2009
Acetone EPA 8260 <25 ug/L MQS 02/03 1,1-Dichioroethene EPA 8260 <1.0	thylether	ug/L	EPA 8260	ug/L	MQS	02/03/2009
1.1-Dichioroethene EPA 8260 <1.0 ug/L MQS 02/03 Dichioromethane EPA 8260 <2.0	tone	ug/L	EPA 8260	ug/L	MQS	02/03/2009
Dichloromethane EPA 8260 <2 0 ug/L MQS 02/03 Methyl-Tert-Butyl-Ether EPA 8260 <1.0	Dichioroethene	ug/L	EPA 8260	ug/L	MQS	02/03/2009
Methyl-Tert-Butyl-Ether EPA 8260 <1.0 ug/L MQS 02/03, trans-1,2-Dichloroethene EPA 8260 <1.0	loromethane	ug/L	EPA 8260	ug/L	MQS	02/03/2009
trans-1,2-Dichloroethene EPA 8260 <1.0 ug/L MQS 02/03, 1,1-Dichloroethane EPA 8260 <1.0	hyl-Tert-Butyl-I	ug/L	EPA 8260	ug/L	MQS	02/03/2009
1.1-Dichloroethane EPA 8260 <1.0	s-1,2-Dichloro	ug/L	EPA 8260	ug/L	MQS	02/03/2009
2-Butanone EPA 8260 <25 ug/L MQS 02/03/ 2,2-Dichloropropane EPA 8260 <1.0	Dichloroethane	ug/L	EPA 8260	ug/L	MQS	02/03/2009
2.2-Dichloropropane EPA 8260 <1.0 ug/L MQS 02/03, cis-1,2-Dichloroethene EPA 8260 <1.0	utanone	ug/L	EPA 8260	ug/L	MQS	02/03/2009
cis-1,2-Dichloroethene EPA 8250 <1.0 ug/L MQS 02/03/ 02/03/ Chloroform EPA 8250 <1.0	Dichloropropar	ug/L	EPA 8260	ug/L	MQS	02/03/2009
Chloroform EPA 8260 <1.0 ug/L MQS 02/03/ Bromochloromethane EPA 8260 <1.0	1,2-Dichloroeth	ug/L	EPA 8260	ug/L	MQS	02/03/2009
Bromochloromethane EPA 8260 <1.0 ug/L MQS 02/03/ Tetrahydrofuran EPA 8260 <10	proform	ug/L	EPA 8260	ug/L	MQS	02/03/2009
Tetrahydrofuran EPA 8260 <10 ug/L MQS 02/03/ 1.1.1-Trichloroethane EPA 8260 <1.0	mochlorometha	ug/L	EPA 8260	ug/L	MQS	02/03/2009
1.1.1-Trichloroethane EPA 8260 <1.0	ahydrofuran	ug/L	EPA 8250	ug/L	MQS	02/03/2009
1.1-Dichloropropene EPA 8260 <1.0 ug/L MQS 02/03/ Carbon Tetrachloride EPA 8260 <1.0	1-Trichloroetha	ug/L	EPA 8260	ug/L	MQS	02/03/2009
Carbon Tetrachloride EPA 8260 <1.0 ug/L MQS 02/03/ 1.2-Dichloroethane EPA 8260 <1.0	Dichloroproper	ug/L	EPA 8260	ug/L	MOS	02/03/2009
1.2-Dichloroethane EPA 8260 <1.0 ug/L MQS 02/03/ Benzene EPA 8260 <1.0	oon Tetrachlor	ua/L	EPA 8260	ug/L	MQS	02/03/2009
Benzene EPA 8260 <1.0 ug/L MQS 02/03/ Trichioroethene EPA 8260 <1.0	Dichloroethane	ug/L	EPA 8260	ug/L	MQS	02/03/2009
Trichloroethene EPA 8260 <1.0 ug/L MQS 02/03/ 1,2-Dichloropropane EPA 8260 <1.0	zene	ug/L	EPA 8260	ug/L	MQS	02/03/2009
1.2-Dichloropropane EPA 8260 <1.0 ug/L MQS 02/03/ Bromodichloromethane EPA 8260 <1.0	hioroethene	ug/L	EPA 8260	ug/L	MQS	02/03/2009
Bromodichloromethane EPA 8260 <1.0 ug/L MQS 02/03/ Dibromomethane EPA 8260 <1.0	Dichloropropar	ug/L	EPA 8260	ug/L	MQS	02/03/2009
Dibromomethane EPA 8260 <1.0 ug/L MQS 02/03/ 4-Methyl-2-Pentanone EPA 8260 <25	nodichloromet	ug/L	EPA 8260	ug/L	MOS	02/03/2009
4-Methyl-2-Pentanone EPA 8260 <25 ug/L MQS 02/03/ cis-1,3-Dichloropropene EPA 8260 <1.0	omomethane	ug/L	EPA 8260	ug/L	MOS	02/03/2009
cis-1,3-Dichloropropene EPA 8260 <1.0 ug/L MQS 02/03/ Toluene EPA 8260 <1.0 ug/L MQS 02/03/	ethyl-2-Pentan	ug/L	EPA 8260	ug/L	MOS	02/03/2009
Toluene EPA 8250 <10 und MOS const	1,3-Dichloropro	ug/L	EPA 8260	ug/L	MOS	02/03/2009
EFT VAVY 100 000 0008 07000	lene	ual	EPA 8260	uait	MOS	02/03/2009
trans-1,3-Dichloropropene EPA 8260 <2.0 uo/L MOS 02/03/	s-1,3-Dichlorop	ug/L	EPA 8260	µa/L	MOS	02/03/2009
1,1,2-Trichloroethane EPA 8260 <1.0 uo/L MOS 02/03/	2-Trichloroetha	uo/L	EPA 8260	µa/L	MOS	02/03/2009
2-Hexanone EPA 8260 <25 uo/L MOS 02/03/	exanone	ug/L	EPA 8260	ug/L	MOS	02/03/2009
1,3-Dichloropropane EPA 8260 <1.0 uo/L MOS 02/03/	Dichloropropar	ug/L	EPA 8260	ua/L	MOS	02/03/2009
Tetrachloroethene EPA 8260 <1.0 uo/L MOS 02/03/	achloroethene	uo/L	EPA 8260	uo/L	MOS	02/03/2009



Stephen Andrus

ANALYTICAL REPORT

Project Name.: Project No.:	Charbert/Develo 03.0032795.16	oping RAWP	Dat Dat Wo	Date Received: Date Reported: Work Order No.:		
Sample ID: V	VR-2				Sample No.:	002
Sample Date: 0	1/30/2009					
Test Performed		Method	Results	Unit	s Tech	Analysis Date
Dibromochloromet	hane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dibromoethane	(EDB)	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Chlorobenzene		EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1,1,2-Tetrachioro	ethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Ethylbenzene		EPA 8260	<1.0	ug/L	MQS	02/03/2009
m&p-Xylene		EPA 8260	<2.0	ug/L	MQS	02/03/2009
o-Xylene		EPA 8260	<1.0	ug/L	MQS	02/03/2009
Styrene		EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromoform		EPA 8260	<2.0	ug/L	MQS	02/03/2009
isopropylbenzene		EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1,2,2-Tetrachlorc	ethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2,3-Trichloroprop	ane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromobenzene		EPA 8260	<1.0	ug/L	MQS	02/03/2009
N-Propylbenzene		EPA 8260	<1.0	ug/L	MQS	02/03/2009
2-Chlorotoluene		EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,3,5-Trimethylben:	zene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
4-Chlorotoluene		EPA 8260	<1.0	ug/L	MQS	02/03/2009
ert-Butylbenzene		EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2,4-Trimethylben:	zene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
sec-Butylbenzene		EPA 8260	<1.0	ug/L	MQS	02/03/2009
o-isopropyltoluene		EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,3-Dichlorobenzen	e	EPA 8260	<1.0	ug/L	MQS	02/03/2009
.4-Dichlorobenzen	e	EPA 8260	<1.0	ug/L	MQS	02/03/2009
n-Butylbenzene		EPA 8260	<1.0	ug/L	MOS	02/03/2009
2-Dichlorobenzen	8	EPA 8260	<1.0	ug/L	MOS	02/03/20/09
1,2-Dibromo-3-Chlo	propropane	EPA 8260	<5.0	ug/L	MOS	02/03/2009
1,2,4-Trichlorobenz	ene	EPA 8260	<1.0	ug/L	MOS	02/03/2009
-lexachlorobutadier	ne .	EPA 8260	<1.0	uo/L	MOS	02/03/2009
Naphthalene	205	EPA 8260	<2.0	uo/L	MOS	02/03/2009
2,3-Trichlorobenz	ene	EPA 8260	<1.0	uo/L	MOS	02/03/2009
Surrogates:		EPA 8260	100333001	0.916	- Andrea	40.00000000
**1,2-Dichloroethai	ne-D4	EPA 8260	97.9	% R	MOS	02/03/2009
**Toluene-D8	10.7259005	EPA 8260	102	% R	MOS	02/03/2009
**4-Bromofluorobe	nzene	EPA 8260	102	% R	MOS	02/03/2009
Preparation	041202-0270	EPA 5030B	10	CE	MOS	02/02/2000



GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Stephen Andrus

Project Name : Project No.:	Charbert/Develo 03.0032795.16	ping RAWP	Date Date Work	Received: 02/02/2009 Reported: 02/05/2009 k Order No.: 0902-00004		
Sample ID;	WR-3			s	ample No.:	003
Sample Date:	01/30/2009					
Test Performed		Method	Results	Units	Tech	Analysis Date
VOLATILE OR	SANICS	EPA 8260			MQS	02/03/2009
Dichlorodifluoro	methane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Chloromethane		EPA 8260	<2.0	ug/L	MQS	02/03/2009
Vinyl Chloride		EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromomethane		EPA 8260	<2.0	ug/L	MQS	02/03/2009
Chloroethane		EPA 8260	<1.0	ug/L	MQS	02/03/2009
Trichlarofluoron	nethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Diethylether		EPA 8260	< 5.0	ug/L	MQS	02/03/2009
Acetane		EPA 8260	<25	ug/L	MQS	02/03/2009
1,1-Dichlorpethe	ene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Dichloromethan	e	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Methyl-Tert-But	yl-Ether	EPA 8260	<1.0	ug/L	MQS	02/03/2009
trans-1,2-Dichio	roethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1-Dichloroetha	зле	EPA 8260	<1.0	ug/L	MQS	02/03/2009
2-Butanone		EPA 8260	<25	ug/L	MQS	02/03/2009
2,2-Dichloroprop	pane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
cis-1,2-Dichloro	ethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Chloroform		EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromochlorome	thane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Tetrahydrofuran		EPA 8260	<10	ug/L	MOS	02/03/2009

cis-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Chloroform	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	02/03/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Benzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Trichloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
4-Methyl-2-Pentanone	EPA 8260	<25	ua/L	MQS	02/03/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Toluene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	02/03/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
2-Hexanone	EPA 8260	<25	ug/L	MQS	02/03/2009
1,3-Dichioropropane	EPA 8260	<1.0	ua/L	MQS	02/03/2009
Tetrachloroethene	EPA 8260	<1.0	ua/L	MOS	02/03/2009

<1.0

ug/L

MQS

02/03/2009

EPA 8260



Preparation

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RJ 02903

Stephen Andrus Date Received: 02/02/2009 Charbert/Developing RAWP Project Name .: Date Reported: 02/05/2009 Project No .: 03.0032795.16 Work Order No .: 0902-00004 Sample ID: WR-3 Sample No.: 003 Sample Date: 01/30/2009 Analysis Test Performed Method Results Units Tech Date Dibromochloromethane EPA 8260 <1.0 ug/L MOS 02/03/2009 1.2-Dibromoethane (EDB) EPA 8260 <2.0 ug/L MOS 02/03/2009 Chiorobenzene EPA 8260 <1.0 MOS ug/L 02/03/2009 1,1,1,2-Tetrachloroathane EPA 8260 <1.0 ug/L MOS 02/03/2009 Ethylbenzene EPA 8260 <1.0 ug/L MQS 02/03/2009 m&p-Xylene EPA 8260 <2.0 02/03/2009 ug/L MQS o-Xylene EPA 8260 <1.0 ug/L MOS 02/03/2009 Styrene EPA 8260 <1.0 MOS ug/L 02/03/2009 Bromoform EPA 8260 <2.0 ug/L MQS 02/03/2009 Isopropylbenzene EPA 8260 <1.0 ug/L MOS 02/03/2009 1,1,2,2-Tetrachloroethane EPA 8260 <1.0 ug/L MQS 02/03/2009 1,2,3-Trichloropropane EPA 8260 <1.0 ug/L MQS 02/03/2009 Bromobenzene EPA 8260 <1.0 MOS ug/L 02/03/2009 N-Propvibenzene EPA 8260 <1.0 ug/L MOS 02/03/2009 2-Chiorotoluene EPA 8260 <1.0 MQS 02/03/2009 ug/L 1,3,5-Trimethylbenzene EPA 8260 <1.0 ug/L MQS 02/03/2009 4-Chlorotoluene EPA 8260 <1.0 ug/L MOS 02/03/2009 tert-Butylbenzene <1.0 EPA 8260 ug/L MQS 02/03/2009 1.2.4-Trimethylbenzene EPA 8260 <1.0 ug/L MQS 02/03/2009 sec-Butylbenzene EPA 8260 <1.0 MOS ug/L 02/03/2009 p-isopropyitoluene EPA 8260 <1.0 ug/L MOS 02/03/2009 1,3-Dichlorobenzene EPA 8260 <1.0 ug/L MQS 02/03/2009 1,4-Dichlorobenzene EPA 8260 <1.0 ug/L MOS 02/03/2009 n-Butylbenzene EPA 8260 <10 ug/L MOS 02/03/2009 1,2-Dichlorobenzene EPA 8260 <1.0 ug/L MQS 02/03/2009 1,2-Dibromo-3-Chloropropane EPA 8260 <50 MOS ug/L 02/03/2009 1.2.4-Trichlorobenzene EPA 8260 <1.0 ug/L MQS 02/03/2009 Hexachlorobutadiene EPA 8260 <1.0 ug/L MOS 02/03/2009 Naphthalene EPA 8260 <2.0 ug/L MOS 02/03/2009 1,2,3-Trichlorobenzene EPA 8260 <1.0 ug/L MQS 02/03/2009 Surrogates: EPA 8260 ***1,2-Dichloroethane-D4 EPA 8260 95.6 % R MQS 02/03/2009 ***Toluene-D8 EPA 8260 101 % R MQS 02/03/2009 ***4-Bromofluorobenzene EPA 8260 101 % R MQS 02/03/2009

1.0

CF

MQS

02/03/2009

EPA 50308



GZA GeoEnvironmental, Inc. 140 Broadway Providence; RI 02903

Stephen Andrus

Project Name : Project No.:	Charbert/Developing RAWP 03.0032795.16	Date Received Date Reported: Work Order No.:	02/02/2009 02/05/2009 0902-00004	
				_

Sample ID: LAG 5 CHNL Sample Date: 01/30/2009

Sample No.: 004

Sample 1907. 204

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8280			MQS	02/03/2009
Dichlorodifluoromethane	EPA 8260	<20	ug/L	MQS	02/03/2009
Chloromethane	EPA 8260	<20	ug/L	MQS	02/03/2009
Vinyl Chloride	EPA 8260	12	ug/L	MQS	02/03/2009
Bromomethane	EPA 8260	<20	ug/L	MQS	02/03/2009
Chloroethane	EPA 8260	<10	ug/L	MQS	02/03/2009
Trichlorofluoromethane	EPA 8260	<20	ug/L	MQS	02/03/2009
Diethylether	EPA 8260	<50	ug/L	MQS	02/03/2009
Acetone	EPA 8260	<250	ug/L	MQS	02/03/2009
1,1-Dichloroethene	EPA 8260	<10	ug/L	MQS	02/03/2009
Dichloromethane	EPA 8260	<20	ug/L	MQS	02/03/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<10	ug/L	MQS	02/03/2009
trans-1,2-Dichloroethene	EPA 8260	<10	UQ/L	MQS	02/03/2009
1,1-Dichloroethane	EPA 8260	<10	ug/L	MQS	02/03/2009
2-Butanone	EPA 8260	<250	ug/L	MQS	02/03/2009
2,2-Dichloropropane	EPA 8260	<10	ug/L	MQS	02/03/2009
cis-1,2-Dichloroethene	EPA 8260	280	ug/L	MQS	02/03/2009
Chloroform	EPA 8260	<10	ug/L	MQS	02/03/2009
Bromochloromethane	EPA 8260	<10	ug/L	MQS	02/03/2009
Tetrahydrofuran	EPA 8260	<100	ug/L	MOS	02/03/2009
1,1,1-Trichloroethane	EPA 8260	<10	ug/L	MQS	02/03/2009
1,1-Dichloropropene	EPA 8260	<10	ug/L	MQS	02/03/2009
Carbon Tetrachloride	EPA 8260	<10	ug/L	MQS	02/03/2009
1,2-Dichloroethane	EPA 8260	<10	ug/L	MQS	02/03/2009
Benzene	EPA 8260	<10	ug/L	MQS	02/03/2009
Trichloroethene	EPA 8260	100	ug/L	MQS	02/03/2009
1,2-Dichloropropane	EPA 8260	<10	ug/L	MQS	02/03/2009
Bromodichloromethane	EPA 8260	<10	ug/L	MQS	02/03/2009
Dibromomethane	EPA 8260	<10	ug/L	MQS	02/03/2009
4-Methyl-2-Pentanone	EPA 8260	<250	ug/L	MQS	02/03/2009
cis-1,3-Dichloropropene	EPA 8260	<10	ug/L	MQS	02/03/2009
Toluene	EPA 8260	<10	ug/L	MQS	02/03/2009
trans-1,3-Dichloropropene	EPA 8260	<20	ug/L	MQS	02/03/2009
1,1,2-Trichloroethane	EPA 8260	<10	ug/L	MQS	02/03/2009
2-Hexanone	EPA 8260	<250	ug/L	MQS	02/03/2009
1,3-Dichloropropane	EPA 8260	<10	ug/L	MQS	02/03/2009
Tetrachloroethene	EPA 8260	930	ug/L	MQS	02/03/2009



Stephen Andru	5					
Project Name.: Project No.:	Charbert/Develo 03.0032795.16	ping RAWP	Date Date Work	Received: 02/02/ Reported: 02/05/ Order No.: 0902-0	2009 2009)0004	
Sample ID:	LAG 5 CHNL			Sa	mple No.:	004
Sample Date:	01/30/2009					
Test Performed		Method	Results	Units	Tech	Analysis Date
Dibromochloror	methane	EPA 8260	<10	ug/L	MQS	02/03/2009
1,2-Dibromoeth	ane (EDB)	EPA 8260	<20	ug/L	MQS	02/03/2009
Chlorobenzene		EPA 8260	<10	ug/L	MQS	02/03/2009
1,1,1,2-Tetrach	loroethane	EPA 8260	<10	ug/L	MQS	02/03/2009
Ethylbenzene	Marten en en Martine en al Ch	EPA 8260	<10	ug/L	MOS	02/03/2009
m&n.Xvlene		EDA PORO	-20	2.5.575		

Ethylbenzene	EPA 8260	<10	ug/L	MOS	02/03/2009
m&p-Xylene	EPA 8260	<20	ug/L	MOS	02/03/2009
o-Xylene	EPA 8260	<10	ug/L	MQS	02/03/2009
Styrene	EPA 8260	<10	ug/L	MQS	02/03/2009
Bromoform	EPA 8260	<20	ug/L	MQS	02/03/2009
Isopropylbenzene	EPA 8260	<10	ug/L	MOS	02/03/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<10	ug/L	MOS	02/03/2009
1,2,3-Trichloropropane	EPA 8260	<10	ug/L	MQS	02/03/2009
Bromobenzene	EPA 8260	<10	ug/L	MOS	02/03/2009
N-Propylbenzene	EPA 8260	<10	ug/L	MQS	02/03/2009
2-Chlorotoluene	EPA 8260	<10	ug/L	MQS	02/03/2009
1,3,5-Trimethylbenzene	EPA 8260	<10	ug/L	MOS	02/03/2009
4-Chiorotoluene	EPA 8260	<10	ug/L	MOS	02/03/2009
tert-Butylbenzene	EPA 8260	<10	ua/L	MOS	02/03/2009
1,2,4-Trimethylbenzene	EPA 8260	<10	ua/L	MOS	02/03/2009
sec-Butylbenzene	EPA 8260	<10	ua/L	MOS	02/03/2009
p-Isopropyltoluene	EPA 8260	<10	ug/L	MOS	02/03/2009
1,3-Dichlorobenzene	EPA 8260	<10	ug/L	MOS	02/03/2009
1,4-Dichlorobenzene	EPA 8260	<10	ua/L	MOS	02/03/2000
n-Butylbenzene	EPA 8260	<10	ua/L	MOS	02/03/2009
1.2-Dichlorobenzene	EPA 8260	<10	un/L	MOS	02/03/2009
1.2-Dibromo-3-Chloropropane	EPA 8260	<50	ug/L	MOS	02/03/2009
1,2,4-Trichlorobenzene	EPA 8260	<10	ug/L	MOS	02/03/2003
Hexachlorobutadiene	EPA 8260	<10	uo/L	MOS	02/03/2009
Naphthalene	EPA 8260	<20	Ba/L	MOS	02/03/2009
1,2,3-Trichlorobenzene	EPA 8260	<10	ug/l	MOS	02/03/2009
Surrogates:	EPA 8260		0.912	in the state	02/03/2003
***1,2-Dichloroethane-D4	EPA 8260	95.0	% R	MOS	02/03/2000
***Toluene-D8	EPA 8260	100	% R	MOS	02/03/2009
***4-Bromofluorobenzene	EPA 8260	102	% R	MOS	02/03/2009
Preparation	EPA 5030B	10	CE	MOS	02/03/2009
26		0.00		in a s	0510012003



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Stephen Andrus

Project Name .: Project No :	Charbert/Developing RAWP	Date Received: Date Reported:	02/02/2009 02/05/2009	
r toject min	00.0002700.10	Work Order No.:	0902-00004	
			the last of the College of the Colle	

Sample ID: TB

Sample No.: 005

Sample Date: 01/28/2009

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260	1945		MQS	02/03/2009
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Chloromethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Vinyl Chloride	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromomethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Chloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Diethylether	EPA 8260	<5.0	ug/L	MQS	02/03/2009
Acetone	EPA 8260	<25	ug/L	MQS	02/03/2009
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	02/03/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
2-Butanone	EPA 8260	<25	ug/L	MQS	02/03/2009
2.2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Chloroform	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	02/03/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Benzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Trichloroethene	EPA 8250	<1.0	ug/L	MQS	02/03/2009
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromodichioromethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	02/03/2009
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Toluene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	02/03/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
2-Hexanone	EPA 8260	<25	ug/L	MQS	02/03/2009
1.3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Tetrachloroethene	EPA 8260	<1.0	ug/L	MQS	02/03/2009



ANALYTICAL REPORT

Stephen Andrus						
Project Name : Project No.:	Charbert/Develo 03.0032795.16	oping RAWP		Date Received: Date Reported: Work Order No.:	02/02/2009 02/05/2009 0902-00004	
Sample ID:	тв				Sample No :	005
Sample Date;	01/28/2009					
Test Performed		Method	Results	Unit	s Tech	Analysis Date
Dibromochlorome	thane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dibromoethar	ne (EDB)	EPA 8260	<2.0	ug/L	MQS	02/03/2009
Chlorobenzene		EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1,1,2-Tetrachlor	roethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Ethylbenzene.		EPA 8260	<1.0	ug/L	MQS	02/03/2009
m&p-Xylene		EPA 8260	<2.0	ug/L	MQS	02/03/2009
a-Xylene		EPA 8260	<1.0	ug/L	MQS	02/03/2009
Styrene		EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromoform		EPA 8260	<2.0	ug/L	MQS	02/03/2009
isopropylbenzene	Contraction of the second	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,1,2,2-Tetrachior	oethane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2,3-Trichloropro	ipane	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Bromobenzene		EPA 8260	<1.0	ug/L	MQS	02/03/2009
N-Propylbenzene		EPA 8260	<1.0	ug/L	MQS	02/03/2009
2-Chlorotoluene		EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,3,5-Trimethylber	nzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
4-Chlorotoluene		EPA 8260	<1.0	ug/L	MQS	02/03/2009
tert-Butylbenzene		EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2,4-Trimethylbe	nzene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
sec-Butylbenzene		EPA 8260	<1.0	ug/L	MQS	02/03/2009
p-isopropyltoluene	e	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,3-Dichlorobenze	ene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,4-Dichlorobenze	ene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
n-Butylbenzene		EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dichlorobenze	ne	EPA 8260	<1.0	ug/L	MQS	02/03/2009
1,2-Dibromo-3-Ch	loropropane	EPA 8260	<5.0	ug/L	MQS	02/03/2009
1,2,4-Trichlorober	zone	EPA 8260	<1.0	ug/L	MOS	02/03/2009
Hexachlorobutadia	ene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Naphthalene		EPA 8260	<2.0	ug/L	MQS	02/03/2009
1.2.3-Trichlorober	zene	EPA 8260	<1.0	ug/L	MQS	02/03/2009
Surrogates:		EPA 8260		300		
***1,2-Dichloroeth	ane-D4	EPA 8260	93.7	% R	MOS	02/03/2009
***Toluene-D8		EPA 8260	100	% R	MOS	02/03/2009
***4-Bramofluorob	enzene	EPA 8260	101	% R	MOS	02/03/2009
Preparation		EPA 5030B	1.0	CF	MOS	02/03/2009

GZA Good retransmitted from 108 South Thread Hope Store, MA Diffed

EPA Matrixe Roto / 124 2 Asympto Mathco Bank (MR) and Lake stary Control Sample Durkows (LCA), 03 D) Data

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Configuration of the second second	• 0.0		earyter to be	87.4	10-130	.ce	598.7	70-130		11.1	+24	
hans a Loicharbarbara	1.00	0.00	mailul fail buty-atter	104	TO-830	64	96.5	10-130		7.81	125	
1 Sciebornerians	1 10	0.00	Tent-1,2-duracownere	90.8	7G-100		66.7	70-180	1 mile (0.00	425	-
distantiand other (Thinks)		0.22	1.1-dicritomathave	99.3	TD-108		65.0	10-100	-	8.70	+20	
What fart is the attack (P+0.0)	2 1 1	2.14	re-motophilos equal (D) and 1	97.5	XD-128	48	65.5	TD-630		2.11	+25	100
sind anotate		0.12	why fait-buly allow (DDC)	07.4	FD-124	28	88.5	75-130	- 18	D 93	26	
2-totatione		5.515	whyt southes	544.19	70-138		83.3	70-130	108	1.35	100	
2.2 ciettoren meren		3325	2-GIROPE	409	32-144	10	64.5	10-130	10	4.84	425	
ain 12 diction of term	1.00	- 00	3.1-0-0-0-0-000-0	109	70-130	*	100	39-138	18	2.87	+2%	OK-
URASICTORY	5.0.8	. 65	Charles the second second second	100	75-150	*	80.3	70-136	**	0.79	+65	- 104
browschicz methods	4 0.5	* 0.5	have been and the second second	47.8	80-120	68	87.8	AD-130		0.30	+15	100
bettered wheten	+ 51	4 . 6.0	Latrahusteria and	0.00	15-130	98	100	70-138	84.	0.49	+29	ck.
1,1,1.4 Scholasthare	. 0.5	4 2.5	111000000000000000000000000000000000000	141	74-100	08.	118	FG-138	28	1.54	+25	 ch:
1.1-minihile reproductive	* 61			100 M	70-190	68	07.8	70-108	**	0.05	+25	
cerbes tetrationida		4 88	1.1 - control of property	903	70.120	100	196	70-130		0.34	+25	eA.
1.2-dicitizioanaria	* 0.5	6.05	1.5. significant att soon	100	10-130	- 2 2	102	70.130		1.24	+25	
beidene.	. 0.5		Participa -	41.7	10.100		10.0	TG-130	-	0.05	425	
Init and mathel aller (TAME)	e. 10	4.11	last much marked when of states		10.130	85	47.3	-10-130	-	2.43	25	
14/Mccenthors	< 28	. 01	The second se	100	76-530	-	134	10-00	100	1.30	- 426	
1.2-cichioroproparte	4 88	* 0.4	5.2. Alexinguese status	194	10-130		191	10-130	00	李.释	-126	
broc address mailtane	4.85	* 0.5	hand a state of the state of th	100	200-120	- C.	69.4	10.190	- 69	0.00	-78	- 10
7,4 Chitote	4.55	9 50	t.e.Donese	1.10	10.100	- 55	908	78-100	- 08	1.64	-25	
distance of the second	 C 244 	* 0.6	Manageriathing	100	20.000	- 55	618	79-100	-	0.31	-95-	
4-metrol-3-pertanene	4 13	* 11	E-mathet 2 mentaning	122	24.430	- C	800	70-100		0.73	+35	- 1960
de 1,3-Echimpopere	4 0.8	4 8.8	cts 1 h-Schlassingers	107	10.100	- CC	101	70-130	1.1	2.94	438	3. (M C)
taliaste	- 0.5	4 88	Non-series	60 B	60.120		100	79130	68	1.29	-28	-046
Ineria - 1, Sudia Anterceptoparia	4.1.0	= 1.0	Value 1.2-dicitization operation	100	20.000	- 22		19-120	- 99	0.01	+29	DB
1,1,2-Extracouttaria	< 8.0	* 8.6	1.1.2 Stobboothana	100.0	25.450		100	100-100	122.01	0.05	+25	104
2-hearsone	4 12	 181 	2-resumption	608	10-100	- 22	400.0	100100		2,49	429	
1.3-Gickbridgeogarte	* 8.5	4:49	1.3-diction property	1008	10.000	- 22	1000	100.100		3.94	+50	
tellicollorisation er	· 8.0	4 0.8	100 Silf Verholmere	16.00	10.130	100		10.000	-	1.00	+28	記載
and some of the contradition of	4.8.8	* 0.8	disrument de Cenadoane	200	70-190	100	10.0	20.430	- The second sec	2.22	-23	28
1.3 dioremodiume (EDB)	4 1.8	• 1.2	5.2-elbrantophere (EDII)	107	10-100		400	10.000	- T	4.30		94
childradetawise	- 4 (\$\$)	4 0.5	chiptoberuana	100	10-130		100.1	10 100	- C	2.10	420	09.
1.1.1.2 mpl with doctored agree.	1 83	4 0.5	1, 1, 1, 2 Party subdivised have	107	13-130		100	70.100		1.00	-40	08
at bythem time	1. 1 .	* 0.6	disployation of	089.63	88-128	44	10.0	10.530	100	1.00		- 20
(122-00 b3200#Tark	* 11.8	+ 0.0	1.1.2.2 4mmschipkowthene	109	70-130	-	1016	775 1191	100	- 322.5	100	
map-reparts	18 182	· 1.0	rndg-cyterie	98.7	75-138	184	THE R	TTA VINE	200	1.000	100	1.00
o-system	* 05	- D A	o-sylwhe	95.2	79-138	08	83.5	10,130	100	8.14	-10	
stytere	+ 0.4	* 8.0	atylete.	105	79-130	- 44	100	70.100	100	1.00	200	1.20
(A MACOUNT	15 A B C	1.0	Depresidents	110	A5-130	- 10	810	70-120	100	0.34	115	
1 T B ASSAULT		1.94	Heppingy bargaries	110	20-100	-	910	20.130	0.00	6.17	244	1.0
Contraction Contract	- 0.1 - 0.1	5.88	1.J.3-millionoraane	100	70-130	ok:	10.2	70-120		1.14	* 34	10
District and		2.22	Detering County grow	104	70-120	an.	104	79-150		0.21	100	
Purchase and an and	2.12	1.92	N DRUGY SHE WEITE	303	70-100	olir.	98.4	70-120		2.00	124	
1.5.5 dometry in second		2.22	2-00000000000	84.0	79-130	68	43.7	70-150	at.	0.28	675	
States 1.4 distance 2 in fact	1.11	1.11	1.1.3-TETHER SCHWIDT AT AN AN	80.4	70-330	4.8	99.2	70-130	-ak	0.67	429	3.04
A ultimeter and	12 H 1		The Constant of States	96.9	10-920	18	100.1	061-67	-	0.70	-10	
latt bard barden	1.1		a conception of	86.0	70-830	- 6A	190.0	70-130	-	1.06	-08	
114-martikering		1 44	and they - our carries	212	PD-530		3.97	20-130	ak.	0.02	-06	
Sec build bettern		6 05	C. C	95.9	PD-538		394.Y	10.100	08	0.38	128	
in the second damage		2.02	and the productions	96.7	10.138	148	68.8	10-130	- 08	0.21	+25	-
1 3.dittikeningsigen	4.9.8		in extention and the	MT.P	10-100		100 M	10.120	100	1.20	205	
5.4-districtionizana	* 114	a 64	1 Contraction and the second	96.9	70-120	**	49. S	10-130	10	0.04	-29	- 18
ri-tutations and	. 0.6	< D.	on the second	102	30-134	18	101	79-830	08	3.18	+25	08
1.2-distriction and	* 0.5	< D.5	1	of e	10 150	88	40.5	79-106	x4	0.22	+05	- 08
1.2.diletere-3-offorspropage	+ 24	* 15	1.2. Birthman, 1. children		54-190		10.5	76-(10)	4.4	9.25	423	
1.3.5 trollaphondere	- 28	* **	1 A Address of the second	100	10 123		1.858	20-130	tok:	1.27	+29	- 68
1.3.4 Electroneterione	- 0.0	C 88		0.00	PO-133	- 094	109	74-120	ok	3,31	425.	
Passachic ends Configure	4.8.8	* 48		110	10-130	OK .	110	70-120	06	0.04	4.25	
trapid turbers	A 1.E	+ 1D		100	79-190		100	79-153	10	2:24	4.22	
1.2.5 ElChiorobergane	* 8.5	4 8.8	1.2 Solid solid and lease	104	10-100	22	104	70.133	ak.	0.67	129	(B)
				222	in the	1m	100	10-130	*	124	*23	*
Burroganas	Recovery (%)	Assoptance Circle	e Surregatua	Receivery (%)	Automation in Sector	Mandood	Antonio antonio			iU	Alterational	line
DIBROWDFLUOROMETHANE	- 109	10-130	DIRONDYLUCHONSTINUE	100	76.130	100	150	Scotting Links V	and and	440	Livita	Weethor.
1.2 CITHLOROETHANE CH	100.1	10-100	1.2 DICHLOROFTHANE CH	100	The Child		100	10-100	(H)	2.34	-25	100
POLUENE-De	04.9	10-130	TOLUENE-DE	2015	10-134		00.0	10, 530	10	1.15	-25	08
+ BROMDFLUCHDBENZENE	99.4	10-130	4-BROWDFLUOROBENZENE	100	Y2-138		100	70,000		9.18	*25	OR .
1.2 CICH, DHOHENZENE-GH	18.07	75-140	1.7-DICHLONORENZENE-D4	102	10-134	-	102	70-130	20 C	1.74		1.0
				22.5	1.11.2.2.1		10000	10000	10 C		246	1966

Inmittent 19 GGMS 'S'

CHAIN-OF-CUSTODY RECORD BURD WORM 2/2/09123 PROJECT MANAGERS For Uty Lins CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Tetlon, O-Othor)" HELMOUISHED BY INTUTION DATE/TIME PRESERVATIVE (CI - HCI, M.:Nuthansi, N - HHO2, S - H2904, Na - NaOH, O - Other)" RELINQUISHED BY, WITHOUGH DATE/TIME Annar GZA GEOENVIRONMENTAL, INC. Sample 1.0 t 1 Labaratory Division Hopkinton, MA 01/48 FAX (508) 435-9912 (781) 278-4700 106 South Street 2/2/09/1130Bue 1-30-09 10:00 1-30-09 10:00 1-28-07 12:00 -30-0910:30 1-30 STILL OF SW Date/Time Sampled RECEIVED BY: INTERNITOR RECEIVE RECEIVED BY, WRITING on 2740 GWL/General W RWL-Station W WWL-Waato W GWL/Drinkoog W PL-Product BX onlying 125 Other (specify) 32 BARDON 30 SE Matrix 1/11/1 1340 Siv 4) B. 032795.16 JOH JOINT NOTES: (Unises otherwise noted, all samples have been refrigerated to 4" C "Specity "Other" preservatives and containers types in this space. LOCATION PROJECT Clinkyt COLLECTORES Stur Herles RURNAROUND TIME: Standard Rush IC Mediate Allows Block 44 XXXX P 104 K260 . PA BOOL - HELD LAR EVAN the sour as possible (PA 42H) - 3521 MI Alter, Rhode Island ARABID - MEDILE STREET #94 SIN 2 DW VOCA HIL REA WAY VOOR 4 691 - 4 602 WW 1000s 194 A212 FLLL BHDD Phillippine LA Jee ET% 625 W/N BVOCS Days, Approved by EPA AND POP MMWASR2 BECTINNID 2PA 6331-Past TASK NO. 1751-00-Met. #100 1PH-OC WITHO EPH MA ORD VEH MAN DEPA IL UPPLE CARE VICP 14 Weren Milly TEMP. OF COOLER Indian plan Belling?" TULP - New Py Brins W.O. # SHEET SPLF - Specify Selow PIO, NO 1PW 300 _1 (0 _1 200) IN SOLUTION OF STREET Orad - Gapt (for lab use only) 2.1 a Ŗ Temp Blagh WW Cont de WWW * SE

OIL LINE RUPTURE #2



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

ANALYTICAL REPORT

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GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903
 Project No.:
 03,0032795.16

 Work Order No.:
 0901-00025

 Date Received:
 01/07/2009

 Date Reported:
 01/09/2009

Steve Andrus

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SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID	
01/05/2009	Solid	0901-00025 001	GP-101 S-2	
01/05/2009	Solid	0901-00025 002	GP-102 S-2	
01/05/2009	Solid	0901-00025 003	GP-103 S-2	
01/05/2009	Solid	0901-00025 004	GP-104 S-2	
01/05/2009	Solid	0901-00025 005	GP-105 S-2	
01/05/2009	Solid	0901-00025 006	GP-106 S-1	
01/05/2009	Solid	0901-00025 007	GP-107 S-1	
01/05/2009	Solid	0901-00025 008	GP-108 S-1	
01/05/2009	Solid	0901-00025 009	GP-109 S-1	
01/05/2009	Solid	0901-00025 010	GP-110 S-1	
01/05/2009	Solid	0901-00025 011	GP-111 S-1	
01/05/2009	Solid	0901-00025 012	GP-112 S-1	
01/05/2009	Solid	0901-00025 013	GP-113 S-1	
01/05/2009	Solid	0901-00025 014	GP-114 S-2	
01/05/2009	Solid	0901-00025 015	GP-115 S-1	
01/05/2009	Solid	0901-00025 016	GP-116 S-1	
01/05/2009	Solid	0901-00025 017	GP-117 S-1	
01/05/2009	Solid	0901-00025 018	GP-117 S-2	
01/05/2009	Solid	0901-00025 019	GP-118 S-2	
01/05/2009	Solid	0901-00025 020	Bot. Ex-1	
01/05/2009	Solid	0901-00025 021	Bot. Ex-2	
01/05/2009	Solid	0901-00025 022	CNTR BNKR	

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Date Received: 01/07/2009

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Steve Andrus

Project Name .:	Charbert/Developing RAWP	Date Reported:	01/09/2009
Project No.:	03.0032795.16	Work Order No.:	0901-00025

PROJECT NARRATIVE:

1, Sample Receipt

100 -

The samples were received on 01/07/09 via _x_GZA courier, __EC, __FEDEX, or __hand delivered. The temperature of the __temperature blank/_x_cooler air, was 3.8 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. Total Petroleum Hydrocarbons

* The diluted out surrogate recoveries are due to interference from the type and concentration of petroleum present in the sample.

Hydrocarbon Fingerprint was requested on five samples:

0492.410

GP-104 S-2: The low concentration of petroleum hydrocarbons in this sample do not permit a definitive fingerprint determination. A qualified identification for sample GP-104 S-2 is of a petroleum product in the boiling range of very weathered fuel oil #2/diesel, or cutting/machine oil.

GP-115 S-1: The characteristics of the chromatogram for sample GP-115 S-1 indicate the presence of a petroleum product in the boiling range of fuel oil #2/diesel. The phytane/ n-C18 ratio indicates that weathering has occurred.

GP-117 S-1: The characteristics of the chromatogram for sample GP-117 S-1 indicate the presence of a petroleum product in the boiling range of fuel oil #2/diesel. The phytane/ n-C18 ratio indicates that weathering has occurred.

GP-117 S-2: The characteristics of the chromatogram for sample GP-117 S-2 indicate the presence of a petroleum product in the boiling range of fuel oil #2/diesel. The phytane/ n-C18 ratio indicates that weathering has occurred.

CNTR BNKR: The characteristics of the chromatogram for sample CNTR BNKR indicate the presence of a petroleum product in the boiling range of fuel oil #2/diesel. The phytane/ n-C18 ratio indicates that weathering has occurred.

In addition, the chromatogram for sample GP-114 S-2 indicates hydrocarbon content >75% organosiloxanes.

GZN	GZA GeoEnvironmental, Inc. 106 South Street Hopkinton, MA 01748 (781) 278-4700		Page 3 of 25
/	ANALYTICAL REPORT		
GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903			
Steve Andrus	2786	Î	
Project Name.: Charbert/Developing RA Project No.: 03.0032795.16	WP Date Receiv Date Report Work Order	ed: ed: No.:	01/07/2009 01/09/2009 0901-00025
Abbreviations: % R = % Recovery DF = Dilution Factor DFS - Dilution Factor Solids			
Abbreviations: % R = % Recovery DF = Dilution Factor DFS ~ Dilution Factor Solids CF = Calculation Factor DO = Diluted Out		ş	
Abbreviations: % R = % Recovery DF = Dilution Factor DFS ~ Dilution Factor Solids CF = Calculation Factor DO = Diluted Qut Method Key: Method 8260: The current version of the meth Method 8270: The current version of the meth Method 6010: The current version of the meth	od is \$260B. od is \$270D. od is 6010B.	ē.	
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 meth Method 8270: The current version of the meth Method 6010: The current version of the meth	od is \$260B. od is \$270D. od is 6010B. the chain of custody record is an integral part	of	
Abbreviations: % R = % Recovery DF = Dilution Factor DFS ~ Dilution Factor Solids CF = Calculation Factor DO = Diluted Out <u>Method Key:</u> Method 8260: The current version of the meth Method 8270: The current version of the meth Method 6010: The current version of the meth Method 6010: The current version of the meth Method 6010: The current version of the meth Please note that the laboratory signed copy of the the data report. The laboratory report shall not be reproduced of laboratory.	nod is \$260B. nod is \$270D. nod is 6010B. the chain of custody record is an integral part except in full without the written consent of th	of	‡3
Abbreviations: % R = % Recovery DF = Dilution Factor DFS ~ Dilution Factor Solids CF = Calculation Factor DO = Diluted.Qut <u>Method Key:</u> Method 8260: The current version of the meth Method 8270: The current version of the meth Method 6010: The current version of the method 6010: The current version of the method Nethod 6010: The current version of the method 6010: The current version of the method Method 6010: The current version of the method 6010: The current versi	nod is \$260B. nod is \$270D. nod is 6010B. the chain of custody record is an integral part except in full without the written consent of th ss otherwise specified. performed as per method and are reported at f Custody.	of 18 the end o	f

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ANALYTICAL REPORT

Steve Anorus Project Name.: Project No.:	Charbert/Developing 03.0032795.16	RAWP		Date Received: Date Reported: Work Order No.:	01/07/2009 01/09/2009 0901-00025	ē	
Sample ID:	GP-101 S-2				Sample	No.:	001
Sample Date:	01/05/2009						
Test Performed		Method	Results	Uni	ts	Tech	Analysis Date
PERCENT SOL	ID		88.4	%	_	TAJ	01/08/2009
TOTAL PETRO	LEUM HYDROCARBON	Mod. EPA 8100				RJD	01/08/2009
Hydrocarbon Co	ontent		28	mg	ſkg	RJD	01/08/2009
Surrogate:			2.3	223			2012030
****p-Terphenyl		EAR STOLEN STOLEN	52.4	%	3 .	RJD	01/08/2009
Extraction		EPA 3545	1.0	DF		BAC	01/07/2009



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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Steve Andrus Project Name.: Project No.:	Charbert/Developing 03.0032795.16	RAWP	Date R Date R Work	teceived: 01/0 teported: 01/0 Order No.: 0901	7/2009 9/2009 -00025	
Sample ID:	GP-102 S-2				Sample No.:	002
Sample Date:	01/05/2009					
Test Performed		Method	Results	Units	Tech	Analysis Date
PERCENT SOL	ID		94.1	%	TAJ	01/08/2009
TOTAL PETRO	LEUM HYDROCARBON	Mod. EPA 8100			RJD	01/08/2009
Hydrocarbon Co	ontent		140	mg/kg	RJD	01/06/2009
Surrogate:						
***p-Terphenyl			82,1	% R	RJD	01/08/2009
Extraction		EPA 3545	1.0	DF	BAC	01/07/2009

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ANALYTICAL REPORT

GZA GecEnvironmental, Inc. 140 Broadway Providence, RI 02903

Steve Andrus Project Name.: Project No.:	Charbert/Developing 03.0032795.16	RAWP		Date Received: Date Reported: Work Order No.:	01/07/2009 01/09/2009 0901-00025	i.	
Sample 1D:	GP-103 S-2				Sample	No.:	003
Sample Date:	01/05/2009						
Test Performed		Method	Results	i Uni	ts	Tech	Analysis Date
PERCENT SOL	JD		83.1	%		TAJ	01/08/2009
TOTAL PETRO	LEUM HYDROCARBON	Mod. EPA 8100	25		87	RJD	01/08/2009
Hydrocarbon Co Surronate:	onlent		44	mg	/kg	RJD	01/08/2009
***p-Terphenyl			57.9	% 1	5	RJD	01/08/2009
Extraction		EPA 3545	1.0	DF		BAC	01/07/2009

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GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Steve Andrus Project Name.: Project No.:	Charbert/Developing 03.0032795.16	RAWP		Date Received: Date Reported: Work Order No.:	01/07/2009 01/09/2009 0901-00025	ī	
Sample ID:	GP-104 S-2				Sample	No.:	004
Sample Date:	01/05/2009						
Test Performed		Method	Results	i Un	its	Tech	Analysis Date
PERCENT SOL	D		92.3	%		TAJ	01/08/2009
TOTAL PETROL	EUM HYDROCARBON	EPA 8100/8015B	845.7			RJD	01/08/2009
Hydrocarbon Co	ntent		12	m	/kg	RJD	01/08/2009
Surrogate:		EPA 8100					
***p-Terphenyl			57.0	%	R	RJD	01/08/2009
Extraction		EPA 3545	1.0	DF		BAC	01/07/2009

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Steve Andrus Project Name.: Project No.:	Charbert/Developing 03.0032795.16	RAWP		Date Received: Date Reported: Work Order No.:	01/07/2009 01/09/2009 0901-00025	I .	
Sample ID:	GP-105 S-2				Sample	No.:	005
Sample Date:	01/05/2009						
Test Performed		Method	Results	Unit	£	Tech	Analysis Date
PERCENT SOL	ID		91.2	%		TAJ	01/08/2009
TOTAL PETRO	LEUM HYDROCARBON	Mod. EPA 8100				RJD	01/08/2009
Hydrocarbon Co Surrogate:	ontent		<10	mg/i	g	RJD	01/08/2009
****p-Terphenyl			52.7	% R		RJD	01/08/2009
Extraction		EPA 3545	1.0	DF		BAC	01/07/2009

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ANALYTICAL REPORT

Steve Andrus Project Name.: Project No.:	Charbert/Developing 03.0032795.16	RAWP	the first	Date Received: Date Reported: Work Order No.:	01/07/2009 01/09/2009 0901-00025	()	
Sample ID:	GP-106 S-1				Sample	No.:	006
Sample Date:	01/05/2009						
Test Performed		Method	Results	Unit	<u>1</u>	Tech	Analysis Date
PERCENT SOL	ID		88,1	%		TAJ	01/08/2009
TOTAL PETRO	LEUM HYDROCARBON	Mod. EPA 8100		orden		RJD	01/08/2009
Hydrocarbon Co	ntent		35	mg/	kg	RJD	01/08/2009
Surrogate:				1999 - 0		100000	
***p-Terphenyl			60.0	% F	8	RJD	01/08/2009
Extraction		EPA 3545	1.0	DF		BAC	01/07/2009



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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Steve Andrus Project Name.: Project No.:	Charbert/Developing 03.0032795.16	RAWP	Dat Dat Wo	e Received: (e Reported: (rk Order No.: (01/07/2009 01/09/2009 0901-00025	6	
Sample ID:	GP-107 S-1				Sample	No.:	007
Sample Date:	01/05/2009						
Test Performed		Method	Results	Units		Tech	Analysis Date
PERCENT SOL	.ID		81.6	%		TAJ	01/08/2009
TOTAL PETRO	LEUM HYDROCARBON	Mod. EPA 8100				RJD	01/08/2009
Hydrocarbon C	ontent		17	mg/k	g	RJD	01/08/2009
Surrogate:							
***p-Terphenyl		In the Second Street of Second	56.5	% R		RJD	01/08/2009
Extraction		EPA 3545	1.0	DF		BAC	01/07/2009



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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

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Steve Andrus Project Name.: Project No.:	Charbert/Developing 03.0032795.16	RAWP		Date Received: Date Reported: Work Order No.;	01/07/2009 01/09/2009 0901-00025	ē.	
Sample ID:	GP-108 S-1				Sample	No.:	008
Sample Date:	01/05/2009						
Test Performed		Method	Results	Unit	s	Tech	Analysis Date
PERCENT SOL	ID		77.7	%		TAJ	01/08/2009
TOTAL PETRO	LEUM HYDROCARBON	Mod. EPA 8100	25			RJD	01/08/2009
Hydrocarbon Co Surrocate	ontent		16	mg/	kg	RJD	01/08/2009
***p-Terphenyl			59.3	% R	13	RJD	01/08/2009
Extraction		EPA 3545	1.0	DF		BAC	01/07/2009

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Steve Andrus Project Name.: Project No.:	Charbert/Developing 03.0032795.16	RAWP		Date Received: Date Reported: Work Order No :	01/07/2009		
Sample ID: Sample Date:	GP-109 S-1 01/05/2009				Sample	No.:	009
Test Performed		Method	Results	Unit	s	Tech	Analysis Date
PERCENT SOL TOTAL PETRO	JD LEUM HYDROCARBON	Mod. EPA 8100	84.1	%		TAJ RJD	01/08/2009 01/08/2009
Hydrocarbon Co Surrogate:	ontent		33	mg/	kg	RJD	01/08/2009
***p-Terphenyl			60.0	% R	6	RJD	01/08/2009
Extraction		EPA 3545	1.0	DF		BAC	01/07/2009

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Steve Andrus Project Name.: Project No.:	Charbert/Developing 03.0032795.16	RAWP		Date Received: Date Reported: Work Order No.:	01/07/2009 01/09/2009 0901-00025	1	
Sample ID: Sample Date:	GP-110 S-1 01/05/2009				Sample	No.:	010
Test Performed		Method	Results	Unit	2	Tech	Analysis Date
PERCENT SOL TOTAL PETRO	JD DLEUM HYDROCARBON	Mod. EPA 8100	77.9	%		TAJ RJD	01/08/2009
Hydrocarbon Ca Surrogate:	ontent		12	mg/	kg	RJD	01/08/2009
***p-Terphenyl		1220	61.2	% R	Č.	RJD	01/08/2009
Extraction		EPA 3545	1.0	DF		BAC	01/07/2009

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GZA GeoEnvironmental, Inc. 106 South Street Hopkinton, MA 01748 (781) 278-4780

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Project Name.: Charbert/Developing Project No.: 03.0032795.16	RAWP	Date Date Work	Received: Reported: Order No.:	01/07/2009 01/09/2009 0901-00025	Ę.	
Sample ID: GP-111 S-1 Sample Date: 01/05/2009				Sample	No.:	011
Test Performed	Method	Results	Units	í .	Tech	Analysis Date
PERCENT SOLID		88.1	%		TAJ	01/08/2009
TOTAL PETROLEUM HYDROCARBON	Mod. EPA 8100				RJD	01/08/2009
Hydrocarbon Content Surrogate:		24	mg/k	g	RJD	01/08/2009
***p-Terphenyl		63.5	% R		RJD	01/08/2009
First and the second	EPA 3545	10	DE		BAC	01/07/2009

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

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Steve Andrus Project Name.: Project No.:	Charbert/Developing 03.0032795.16	RAWP	Data Data Wor	: Received: C 2 Reported: C 1k Order No.: C	01/07/2009 01/09/2009 0901-00025	
Sample ID:	GP-112 S-1				Sample No.:	012
Sample Date:	01/05/2009					
Test Performed		Method	Results	Units	Tec	Analysis h Date
PERCENT SOL	JD		89.6	%	TAJ	01/08/2009
TOTAL PETRO	LEUM HYDROCARBON	Mod. EPA 8100			RJC	01/09/2009
Hydrocarbon Co	ontent	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	<10	mg/k	g RJD	01/09/2009
Surrogate:				83.0	56	
***p-Terphenyl		1165-987 (115-94 Merr)	60.6	% R	RJC	01/09/2009
Extraction		EPA 3545	1.0	DF	BAC	01/07/2009

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Brcadway Providence, RI 02903

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Steve Andrus Project Name.: Project No.:	Charbert/Developing 03.0032795.16	RAWP	Date I Date I Work	Received: 01/07/2 Reported: 01/09/2 Order No.: 0901-0	009 009 0025	
Sample ID:	GP-113 S-1			Sar	nple No.:	013
Sample Date:	01/05/2009					
Test Performed		Method	Results	Units	Tech	Analysis Date
PERCENT SOL	JD		73.6	%	TAJ	01/08/2009
TOTAL PETRO	LEUM HYDROCARBON	Mod. EPA 8100			RJD	01/09/2009
Hydrocarbon C	ontent		59	mg/kg	RJD	01/09/2009
Surrogate:						
***p-Terphenyl			58.9	% R	RJD	01/09/2009
Extraction		EPA 3545	1.0	DF	BAC	01/07/2009

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Project Name.: Project No.:	Charbert/Developing 03.0032795.16	RAWP		Date Receive Date Reporte Work Order	nd: C nd: C No.: C	01/07/2009 01/09/2009 0901-00025	6	
Sample ID:	GP-114 S-2					Sample	No.:	014
Sample Date:	01/05/2009							
Test Performed		Method	Results		Units		Tech	Analysis Date
PERCENT SO	.ID		89.5		%		TAJ	01/08/2009
TOTAL PETRO	LEUM HYDROCARBON	Mod. EPA 8100					RJD	01/09/2009
Hydrocarbon C	ontent		2900		mg/kg	7	RJD	01/09/2009
Surrogate:								
***p-Terphenyi			DO		% R		RJD	01/09/2009
Extraction		EPA 3545	10		DF		BAC	01/07/2009

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

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Steve Andrus								
Project Name.: Project No.:	Charbert/Developing 03.0032795.16	RAWP	r r v	Date Received Date Reported Work Order N	1: 01 1: 01 10.: 09	/07/2009 /09/2009 01-00025	i	
Sample ID:	GP-115 S-1					Sample	No.:	015
Sample Date:	01/05/2009							
Test Performed		Method	Results		Units		Tech	Analysis Date
PERCENT SOL	ID		92,3		%		TAJ	01/08/2009
TOTAL PETRO	LEUM HYDROCARBON	EPA 8100/8015B					RJD	01/09/2009
Hydrocarbon Co	ontent		11000		mg/kg		RJD	01/09/2009
Surrogate:		EPA 8100			0.50.52			
***p-Terphenyl			DO	*	% R		RJD	01/09/2009
Extraction		EPA 3545	40		DF		BAC	01/07/2009

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Steve Andrus Project Name.: Project No.:	Charbert/Developing 03.0032795.16	RAWP		Date Receiv Date Report Work Order	ed: 0* ed: 0* No.: 09	1/07/2009 1/09/2009 901-00025	1	
Sample ID: Sample Date:	GP-116 S-1					Sample	No.:	016
Test Performed		Method	Results	0	Units		Tech	Analysis Date
PERCENT SOL	ID		91.1		%		TAJ	01/08/2009
Hydrocarbon Co Surrogate:	ntent	Mod. EPA 8100	9600		mg/kg		RJD RJD	01/09/2009 01/09/2009
***p-Terphenyl Extraction		EPA 3545	DO 10	*	% R DF		RJD BAC	01/09/2009

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

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Steve Andrus Project Name.: Project No.:	Charbert/Developing 03.0032795.16	RAWP	Date I Date I Work	Received: 01/ Reported: 01/ Order No.: 09	/07/2009 /09/2009 01-00025	
Sample ID:	GP-117 S-1				Sample No.:	017
Sample Date:	01/05/2009					
Test Performed		Method	Results	Units	Tech	Analysis Date
PERCENT SOL	ID		88.0	%	TAJ	01/08/2009
TOTAL PETRO	LEUM HYDROCARBON	EPA 8100/80158			RJD	01/09/2009
Hydrocarbon Co	ontent		600	mg/kg	RJD	01/09/2009
Surrogate:		EPA 8100		2020		
***p-Terphenyl			77.2	% R	RJD	01/09/2009
Extraction		EPA 3545	10	DF	BAC	01/07/2009

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Steve Andrus							
Project Name.: Charbert/Develop Project No.: 03.0032795.16		Ig RAWP		ate Received: ate Reported: /ork Order No.:	01/07/2009 01/09/2009 0901-00025		
Sample ID:	GP-117 S-2				Sample	No.:	018
Sample Date:	01/05/2009						
Test Performed		Method	Results	Unit		Tech	Analysis Date
PERCENT SOL	ID		89.3	%		TAJ	01/08/2009
TOTAL PETRO	LEUM HYDROCARBON	EPA 8100/8015B				RJD	01/09/2009
Hydrocarbon Co	ontent		70	mg/ł	g	RJD	01/09/2009
Surrogate:		EPA 8100					
***p-Terphenyl			74.9	% R		RJD	01/09/2009
Extraction		EPA 3545	1.0	DF		BAC	01/07/2009

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ANALYTICAL REPORT

Steve Andrus Project Name.: Project No.:	Charbert/Developing 03.0032795.16	RAWP		Date Receiv Date Report Work Order	ed: 0* ed: 0* No.: 01	1/07/2009 1/09/2009 901-00025	6	
Sample ID:	GP-118 S-2					Sample	No.:	019
Sample Date:	01/05/2009							
Test Performed		Method	Results		Units		Tech	Analysis Date
PERCENT SOL	ID		91.8		%		TAJ	01/08/2009
TOTAL PETRO	LEUM HYDROCARBON	Mod. EPA 8100					RJD	01/09/2009
Hydrocarbon Co Surrogate	ntent		4400		mg/kg		RJD	01/09/2009
***p-Terphenyl			DO		% R		RJD	01/09/2009
Extraction		EPA 3545	10		DF		BAC	01/07/2009



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ANALYTICAL REPORT

Steve Andrus				10-11-11-11-11-11-11-11-11-11-11-11-11-1		
Project Name.: Project No.:	Charbert/Developing 03.0032795.16	Date Date Work	Received: 01/0 Reported: 01/0 : Order No.: 0901	7/2009 9/2009 1-00025		
Sample ID:	Bot. Ex-1				Sample No.:	020
Sample Date:	01/05/2009					
Test Performed		Method	Results	Units	Tech	Analysis Date
PERCENT SOL	ID		88.7	%	TAJ	01/08/2009
TOTAL PETRO	LEUM HYDROCARBON	Mod. EPA 8100	1945	-	RJD	01/09/2009
Hydrocarbon Co	ontent		440	mg/kg	RJD	01/09/2009
***p-Terphenvi			62.9	% R	RJD	01/09/2009
Extraction		EPA 3545	1.0	DF	BAC	01/08/2009



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Steve Andrus Project Name.: Project No.:	Charbert/Developing 03.0032795.16	RAWP		Date Received: Date Reported: Work Order No	01/07/2009 01/09/2009 : 0901-0002	5	
Sample ID:	Bot. Ex-2				Sample	No.:	021
Test Performed	011032005	Method	Results	ĩ	nits	Tech	Analysis Date
PERCENT SOL	ID LEUM HYDROCARBON	Mod. EPA 8100	90.9	9	6	TAJ RJD	01/08/2009 01/09/2009
Hydrocarbon Ca Surrogate: ***p-Terphenvl	ontent		3000 DO	n 	19/kg 6 R	RJD	01/09/2009
Extraction		EPA 3545	10	0	F	BAC	01/08/2009

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ANALYTICAL REPORT

Steve Andrus Project Name.; Project No.;	Charbert/Developing 03.0032795.16	RAWP		Date Receive Date Reports Work Order	id: 01 id: 01 No.: 05	1/07/2009 1/09/2009 901-00025	i	e
Sample ID:	CNTR BNKR					Sample	No.:	022
Test Performed	0 1100 2005	Method	Results		Units		Tech	Analysis Date
PERCENT SOL	ID	Mod. EPA 8100	90.4		%		TAJ RJD	01/08/2009
Hydrocarbon Co Surrogate:	ontent		3700		mg/kg		RJD	01/09/2009
***p-Terphenyl			DO	*	%R		RJD	01/09/2009
Extraction FINGERPRINT	UPGRADE	EPA 3545 D3328/EPA 8100	20		DF		BAC	01/08/2009

67-102 WHITE COPY - Original RELINCUSHED BY: (Amilation) CONTAINER TYPE (P-Plants, G-Glass, V-Wai, T-Tation, O-Other)* 68-109 801-49 6-8-105 6P-103 5-25 6P-101 6P-106 H01-04 FP-107 RESERVATIVE (CI-HCL N - HNDs S - HISOL Na - NaCH, C - Other)" P 2-110 P-112 III T MANAGER CHAIN-OF-CUSTODY RECORD 10 (ED BY: (Attitution) ORAM 5-2 5-2 s. 1 1-5 5-2 3 3 ŝ SI 1 1 200100 57 10:00 01/05/61 12:00 10/15/01/15/18 1 1300 Harth hin 10'30 01/05/09 11:50 12:30 2172 12:00 1:0 10:45 01/0525 (Very Important) 109 1030 Data/Time DATEJIME DATETIM DATENTIME YELLOW COPY - Lab Files 5 5 Maplic M 5 Ull Distan RECEIVED BY: [Attisation] RECEIVED BY: (Attilation) ECEIVED,8Y: (Attilation) UpH Li Cond HNI. 140 3C 3 1330 U BRAS U BREE PINK COPY - Project Manager URDAL UNDER LURDA 18218 (1981 NOTES: Preservatives, special reporting limits, known contamination, etc. (Unless otherwise noted, all VOA visis have been preserved w/ 1:1 HCL.) COLLECTOR(S) LIDCATION PROJECT United 11 miles MROUND TIME Climited C Auch 1215 Θ × 1445 \$427795. Samples Fuel Oi UNION LIFER LIFER ACCOUNTS AND A DOMESTIC AND A DOMESTICANA A DOMESTICANA AND A DOME 22 Ten 625 PC8.5 X 2 8 × < 8 3 × SX. 3 THE OC IMAN STOC HEQUIRED 0 may be "that" × HIC-Fire OLF (Spec Ber Days, Approved by: -LIPPIN IS LIFE faint here W.O. SHEET. P.O. N.O. with -1061 (for lab use only) and q 6 θ Cont Note

27/19003 62-WHITE COPY - Original YELLOW COPY - Lab Files PINK COPY - Project Manager RELINQUISHED BY CONTAINER TYPE (P-Plastic, G-Glass, V-Viul, O-Other)* PRESERVATIVE (CI - HCI, M=MaOH, N - HNO3, 5 - H2SO4, Na - NaOH, O - Olber)* GP-CHAIN-OF-CUSTODY RECORD **RELINCIONSHED BY** 49-22-RELINCURSINED BY: 68-114 6P-113 LARDNREAM 50 MUMM PROJECT WANAGER STOLL HADAYS DATA REPORT & POF (Adoes) D ASCII D EXCEL Specify State I.D. 10 00 BNER 1 20 1 1 GZA GEOENVIRONMENTAL, INC. 1 3 î 5-2 š ĩ 709/PUD DAILITIME ENGINEERS AND SCIENTISTS ۱ N 2 17/09103C Hopkinton, MA 01748 FAX (508) 435-9912 106 South Street (508) 435-9244 DATE/TIME 15-45 15:12 14:00 01/05/09 15:45 Shind 15130 13:15 15:14 15:00 14:30 Date/Time Sempted (Very Important) 01/05/05 010507 RECEIVED BY Em 2740 GRV-Clenarid W SHArGurface W WRV-Reading W DRV-Chesking W Citrue (upwelly) 1 4 Matrix M Э LADON 330 **Del DConi** 501 NORA COLLECTORIS) STYNUM LOCATION HITCH PROJECT Planty BARLENO 32795-16 NOTES: Presevatives, special reporting limits, known contamination, additional testing parameters, etc.: PLANADUND TIME ON WWW ONLY O Samples DROI DING Fil OI inic 1021 - "0010" Lai dans Rust 10.01 10.0 man MART harry MUNLYSIS RED Days, Approved by: 213 3 K X XX 3 স্থ zs X Re 8 20 CPUI MAA IND Š what " with ALC DIS PO, NO TEMP: OF COOLER (38 LAB USE SHEET and (for late (Auno j 0 q g 140.



Laboratory Identification Numbers: MA and ME: MA092 NH: 2028 CT: PH0579 RI: LAO00236 NELAC - NYS DOH: 11053

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

 Project No.:
 03.0032795.16

 Work Order No.:
 0901-00105

 Date Received:
 01/23/2009

 Date Reported:
 01/29/2009

Steve Andrus

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID		
01/22/2009	Solid	0901-00105 001	South SW 3-6ft. BGS		
01/22/2009	Solid	0901-00105 002	West SW 3-6ft. BGS		
01/22/2009	Solid	0901-00105 003	East SW 3-6ft. BGS		
01/22/2009	Solid	0901-00105 004	North SW 3-6ft. BGS		

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The laboratory report shall not be reproduced except in full without the written consent of the laboratory.



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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Steve Andrus

Project Name .:	Charbert/Developing RAWP	Date Received: Date Reported:	01/23/2009 01/29/2009
Project No.:	03.0032795.16	Work Order No.:	0901-00105

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 01/23/09 via _x_GZA courier, __EC. __FEDEX, or ___hand delivered. The temperature of the __temperature blank/_x_cooler air, was 3.9 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. Total Petroleum Hydrocarbons

* The diluted out surrogate recoveries are due to interference from the type and concentration of petroleum present in the sample.



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc. 140 Broadway Providence, RI 02903

Steve Andrus

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Project Name.:	Charbert/Developing RAWP	Date Received: Date Reported:	01/23/2009
Project No.:	03.0032795.16	Work Order No.:	0901-00105
Data Authorized	By: Daffel		

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 6010B.

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

The laboratory report shall not be reproduced except in full without the written consent of the laboratory.

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. Page 3 of 7



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ANALYTICAL REPORT

Steve Andrus Project Name.: Charbert/Developing Project No.: 03.0032795.16		RAWP		Date Receive Date Reporte Work Order	ed: 01/2 ed: 01/2 No.: 090	01/23/2009 01/29/2009 0901-00105		
Sample ID: Sample Date:	South SW 3-6ft. BGS 01/22/2009					Sample 1	No.:	001
Test Performed		Method	Results		Units		Tech	Analysis Date
PERCENT SOL TOTAL PETRO	ID LEUM HYDROCARBON	Mod. EPA 8100	93.1		%	F	TAJ	01/26/2009
Hydrocarbon Co Surrogate:	ontent	0.02247879.0277.0277879.027	7300		mg/kg	F	RJD	01/27/2009
***p-Terphenyl Extraction		EPA 3545	DO 20	*	% R DF	F	RJD BAC	01/27/2009 01/26/2009



ANALYTICAL REPORT

Steve Andrus Project Name.: Project No.:	Charbert/Developing 03.0032795.16	RAWP		Date Receive Date Reporte Work Order	ed: 01/23/2 ed: 01/29/2 No.: 0901-00	009 009 0105	
Sample ID: Sample Date:	West SW 3-6ft. BGS 01/22/2009				San	nple No.:	002
Test Performed		Method	Results		Units	Tech	Analysis Date
PERCENT SOL	ID LEUM HYDROCARBON	Mod. EPA 8100	96.3		%	TAJ RJD	01/26/2009
Hydrocarbon Co Surrogate	ontent		5800		mg/kg	RJD	01/27/2009
***p-Terphenyl Extraction		EPA 3545	DO 20	₿ • a	% R DF	RJD BAC	01/27/2009 01/26/2009



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ANALYTICAL REPORT

Steve Andrus Project Name.: Project No.:	Charbert/Developing 03.0032795.16	RAWP	I I V	Date Received: Date Reported: Work Order No.:	01/23/2009 01/29/2009 0901-0010!	5	
Sample ID:	East SW 3-6ft. BGS				Sample	No.:	003
Sample Date:	01/22/2009						
Test Performed		Method	Results	Unit	s	Tech	Analysis Date
PERCENT SOL	JD		88.3	%		TAJ	01/26/2009
TOTAL PETRO	LEUM HYDROCARBON	Mod. EPA 8100				RJD	01/27/2009
Hydrocarbon Co Surrogate:	ontent		48	mg/	kg	RJD	01/27/2009
***p-Terphenyl			61.0	% R	8	RJD	01/27/2009
Extraction		EPA 3545	1.0	DF		BAC	01/26/2009



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ANALYTICAL REPORT

Steve Andrus Project Name.: Project No.;	Charbert/Developing 03.0032795.16	RAWP		Date Receiv Date Report Work Order	ed: ed: No.:	01/23/2009 01/29/2009 0901-00105	5	
Sample ID: Sample Date:	North SW 3-6ft. BGS					Sample	No.:	004
Test Performed		Method	Results	ĸ	Unit	8	Tech	Analysis Date
PERCENT SOL TOTAL PETRO	ID LEUM HYDROCARBON	Mod. EPA 8100	92.7		%		TAJ RJD	01/26/2009 01/27/2009
Hydrocarbon Co Surrogate: ***p-Terphenyl	ontent	22422454101955997	14000 DO) •**	mg/l	kg	RJD	01/27/2009
Extraction		EPA 3545	50		DF		BAC	01/26/2009

Circle if applicable	But	11	Contact Person	City / State / Zip Telephone	Company some	CONTRACTOR IN		1-22-09 10:30	1-22-0 101 5	1-22-09 10:3	5101 60-22-1	Date Tim Collected Colley	41 Illinois Warwick, RI Tel: 800-9	R.I. A	CHAIN
2 GW-1, GW-	men	MAM .	Steve	Prond	630 B			2 Worth	+ Sug a	o West	o Sout	e F	s Avenue 02888-3007 137-2580	nalytical I	OF CUS
2, GW-3, S	1/2		Andres	and Pr	to but	Client Information		1541	SW	SW	in SW	leid Sample Ider	131 Coolid Hudson, N Tel: 80	,aboratori	TODY I
-1, S-2, S-3	3/09 1110	DATE TIME		1 02	1 tel vorente	AND DESCRIPTION OF A DE		3-6' 365	3-6' 865	3-6' 865	3-6' 865	ulfcation	ge St, Suite 105 fA 01749-1331 0-937-2580 8 568 0079	es, Inc.	RECORD
amatao	B	6		110		1	1	2	\$	9	6	Grab	or <u>C</u> ompos	ite	
ACP D	1.E	À				States.		1/4	14	14	1/2	# of C	Containers d	& Тур	e c
ata Er	The second	Her	Ц			18		44	d.	4N	AA	Preser	vation Code		
Ihancemen	Seating	atred By	Quote No.	Report To:	Project Name: P.O. Number:	0. 20 M		8	ک S	8 8	X	Matrix TPt-	Code = Blor	m	
LOC Package?	1/2	2-1 -2	1 and	Steve, Ipd	Unam							1	1090	_	
had 01	Cheo 10912	Z1, & S	addresses	A 55 Phone.	Project Num	Project Informati							avas		
A Sample Pick Up RIAL sampled; a Shipped on ice Workonder No:	Rush 0	Normal Normal	stor , 1000 / D		× 32795,14	「「「「「「「「「「」」」」」									
buty bich field houn	muhic aucheg osiness days)	EMAIL Report				日本のないな									_

APPENDIX B

BORING LOGS

GZA G	EOENV	IRONM	ENTAL INC).				PROJECT		R	EPORT	OF BORING NO.	GP-101	I
140 BF	ROADW	AY, PR	OVIDENCE	, RHODE ISL	AND		С	HARBERT FACIL	ITY			SHEET	1 OF 1	
GEOT	ECH/GE	OHYDE		L CONSULTA	ANTS		AL	TON, RHODE ISL	AND			FILE NO.	32795.1	6
HYDR	OLOGIC	AL BOI	RING LOG									CHKD BY	EAS	
BORING	GCO.		N.E. GEOTE	СН		_	BO	RING LOCATION	V	ICINITY C	OF 10,00	00 GALLON AST'S		-
FOREM			STEVE PERI	RY NDDUC		-	GROUND	SURFACE ELEV.	04/05/0]		1/05/00	-
GZA EN	GINEER		STEPHEN A	INDRUS		-	r	DATE START	01/05/0	8	DAI		1/05/08	
							DATE	TIME	GROUNDW		ADINGS	CTADILI		
A 5 DIK	ECTFUS						DATE	TIME	WATER	CASIN	0	STABILIZ		
CASING	: DRIVE	N WITH .	A PNEUMATIO	C HAMMER										
CASING	SIZE	3 25"												
DPTH	CASING	0.20		SAMPLE		SA	MPLE DESCRIP	TION	STRATL	м	E		FIELD	R
(FT)	BLOWS	NO	PEN/REC	DEPTH (FT)	BLOW S/6"	BURM	ISTER CLASSIF	ICATION	DESCRIPT	ION	-	NSTALLED	TESTING	к
		S-1	60/34	0-5		S-1: Tan, fine to	coarse SAND, ti	race fine						
						Gravel, trace S	ilt							
													0.0 PPMV	1
						-								
5						-								
5 -			/											
		S-2	60/36	5-10		S-2: Tan, fine to	coarse SAND, ti	race fine						
						Gravel, trace S	ilt						1.7 PPMV	
						_								
10														
						En	d of Exploration a	at 10'						
15														
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REMAR 1 2 3	KS: . The hea 10.6 eV l . Approxir . No soil s	idspace o amp. ND mate 6' G staining o	of soil samples) indicates read roundwater Ta or odor observe	was screened fo ding below the ir able. ed.	or Total Volatile nstruments dete	Organic Compou ction limit of appr	inds (TVOCs) usi oximately 1 ppmv	ng an OVM Model 7.	580B photoioniz	ation dete	ector eq	uipped with a		
NOTES:		1) STRA 2) WATF	TIFICATION L	LINES REPRESE ADINGS HAVF F	ENT APPROXIN BEEN MADE A	IATE BOUNDAR` I TIMES AND UN	Y BETWEEN SO	IL TYPES; TRANS	SITIONS MAY BE CTUATIONS OF	GRADU/ GROUND	AL. DWATE	R TABLE		
		MAY OC	CUR DUE TO	OTHER FACTO	ORS THAN THO	SE PRESENT A	T THE TIME MEA	SUREMENTS WE	ERE MADE.					

GZA

MD BROMMAY, PROVIDENCE, FINDE Constraints Constraints <thconstraints< th=""> Constraints <thconstr< th=""><th>GZA G</th><th>BEOENV</th><th>IRONM</th><th>ENTAL INC</th><th>).</th><th></th><th></th><th></th><th>PROJECT</th><th></th><th>RE</th><th>PORT</th><th>OF BORING NO.</th><th>GP-102</th><th></th></thconstr<></thconstraints<>	GZA G	BEOENV	IRONM	ENTAL INC).				PROJECT		RE	PORT	OF BORING NO.	GP-102	
GEORE OLVERSON DOR LOCAL CONSULTANTS A those should be address and the should be a	140 BF	ROADW	AY, PRO	OVIDENCE	, RHODE ISL	AND		C	HARBERT FACIL	ITY			SHEET	1 OF 1	
	GEOT	ECH/GE	OHYDF		L CONSULTA	NTS		AL	FON, RHODE ISL	AND			FILE NO.	32795.16	5
BORNE CD. KE. GORDEN More Selected DECK PSINT	HYDR	OLOGIC	AL BOF	RING LOG									CHKD BY	EAS	
CONSIDER SEAL OF THE SEAL	BORING	GCO.		N.E. GEOTE	СН		_	BO	RING LOCATION	VI	CINITY OF	F 10,00	0 GALLON AST'S		-
C2X_DENIER TETEMEN ADDUS DATE 31AR CONSIGN DATE 31AR DATE 31AR <td>FOREM</td> <td>AN</td> <td></td> <td>STEVE PERI</td> <td>RY</td> <td></td> <td>-</td> <td>GROUND</td> <td>SURFACE ELEV.</td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td>-</td>	FOREM	AN		STEVE PERI	RY		-	GROUND	SURFACE ELEV.			0			-
Samuelia: Unlike OLE MARKER CORRESTOR Content of the Marker Correction of the Content of Marker Correction of Marker Correct	GZA EN	GINEER		STEPHEN A	NDRUS		-	T	DATE START	01/05/08	}	DAT	E END 0	1/05/08	-
DIRE COSING DRIVENA PERMENTON PERMENTON PERMENTON PERMENTON PERMENTON DPTH SAMARE DSCHIPTON DSCHIPTON DSCHIPTON PERMENTON PERMENTON S DSCHIPTON DSCHIPTON DSCHIPTON DSCHIPTON PERMENTON PERMENTON S DSCHIPTON DSCHIPTON DSCHIPTON PERMENTON PERMENTON PERMENTON S DSCHIPTON PERMENTON PERMENTON PERMENTON PERMENTON PERMENTON S DSCHIPTON PERMENTON PERMENTON PERMENTON PERMENTON PERMENTON <td>SAMPLE</td> <td>ER: UNLE</td> <td>SS OTH</td> <td>ERWISE NOT</td> <td>ED, SAMPLER (</td> <td>CONSISTS OF</td> <td></td> <td></td> <td></td> <td>GROUNDWA</td> <td>TER REA</td> <td>DINGS</td> <td></td> <td></td> <td></td>	SAMPLE	ER: UNLE	SS OTH	ERWISE NOT	ED, SAMPLER (CONSISTS OF				GROUNDWA	TER REA	DINGS			
CASING: DURINE WITH / REUMATIC HAMAGE CASING SUCE: Line: CASING: Line: Line: Line: Line: <thline:< th=""> Line</thline:<>	A 5' DIR	ECT PUSI	H SAMPL	ER WITH A L	DISPOSABLE LI	NER		DATE	TIME	WATER	CASING	j	STABILIZ	ATION TIME	
CASH 00 107 Type Other SAMPLE SAMPL	CASING	: DRIVE	N WITH A	A PNEUMATIC	C HAMMER										
Control Control <t< td=""><td>0.4.01110</td><td>0.75</td><td>0.05"</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	0.4.01110	0.75	0.05"												
mtm Normalize Description INSTALLED TESTING NETALLED		CASING	3.25		SAMPLE		54			STRATI	4	F		EIEI D	P
Image: state	(FT)	BLOWS	NO	PEN/REC		BLOWS/6"	BURM	ISTER CLASSIE	CATION	DESCRIPTI		1		TESTING	ĸ
	/		S-1	60/36	0-5		S-1: Tan, fine to	coarse SAND, t	race fine		-				
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	5														
<form> Image: Contract of the second of the sec</form>			S-2	60/36	5-10		S-2: Tan, fine to	coarse SAND, t	race fine						
<form><form><form></form></form></form>							Gravel, trace S	ilt	$\underline{\vee}$					0.0 PPMV	
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End of Exploration at 10 [°] I I I I I I I I I I I I I I I I I I I	10														
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35 Image: Constraint of the seadspace of soil samples was screened for Total Volatile Organic Compounds (TVOCs) using an OVM Model 580B photoionization detector equipped with a 10.6 eV lamp. ND indicates reading below the instruments detection limit of approximately 1 ppmv. 2. Approximate 7' Groundwater Table. 3. No soil staining or odor observed. NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE. GZA IDORING NO. GP-102							4								1
35 Image: Control of the second s							1								1
35 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1															
REMARKS: 1. The headspace of soil samples was screened for Total Volatile Organic Compounds (TVOCs) using an OVM Model 580B photoionization detector equipped with a 10.6 eV lamp. ND indicates reading below the instruments detection limit of approximately 1 ppmv. 2. Approximate 7' Groundwater Table. 3. No soil staining or odor observed. NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE. BORING NO. GP-102	35	35													
REMARKS: 1. The headspace of soil samples was screened for Total Volatile Organic Compounds (TVOCs) using an OVM Model 580B photoionization detector equipped with a 10.6 eV lamp. ND indicates reading below the instruments detection limit of approximately 1 ppmv. 2. Approximate 7' Groundwater Table. 3. No soil staining or odor observed. NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE. BORING NO. GP-102															
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE. GZA BORING NO. GP-102	REMAR 1 2 3	KS: . The hea 10.6 eV la . Approxir . No soil s	dspace c amp. ND nate 7' G staining c	f soil samples indicates rea roundwater Ta r odor observe	was screened fo ding below the ir able. ed.	or Total Volatile Istruments dete	Organic Compou ction limit of appr	nds (TVOCs) usin oximately 1 ppmv Y BETWEEN SOL	ng an OVM Model L TYPES: TRANS	580B photoioniza	GRADUA	tor equ	uipped with a		
GZA INTER COUCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.	NOTES.		2) WATE	R LEVEL RE	ADINGS HAVE E	BEEN MADE A	TIMES AND UN		NS STATED; FLU	CTUATIONS OF (GROUND	 WATEI	R TABLE		
	GZA		MAY OC	OUR DUE TO	OTHER FACTO	UKS THAN THO	ISE PRESENT A	I THE TIME MEA	SUREMENTS WE	ERE MADE.			BORING NO.	GP-102	

GZA G	EOENV	IRONM	ENTAL INC	<i>).</i>				PROJECT			REPORT	T OF BORING NO	. GP-103	3
140 BF	ROADW	AY, PR	OVIDENCE	, RHODE ISL	AND		С	HARBERT FACIL	LITY			SHEE	Г <u>1 OF 1</u>	
GEOT	ECH/GE	OHYDE		L CONSULTA	NTS		AL	TON, RHODE ISL	LAND			FILE NO	. 32795.1	6
HYDR	OLOGIC	AL BOI	RING LOG									CHKD BY	EAS	
BORING	GCO.		N.E. GEOTE	СН		_	BO	RING LOCATION	1	VICINITY	' OF 10,0	000 GALLON AST	S	_
FOREM	AN		STEVE PERI	RY		-	GROUND	SURFACE ELEV		100	-		04/05/00	-
GZA EN	GINEER		STEPHEN A			-	r	DATE START	01/08	/08	DA		01/05/08	
							DATE	TIME				S		
A 5 DIK	ECTFUS						DATE	TIVIE	WATER	CAS	ING	STABL		
CASING	: DRIVE	N WITH .	A PNEUMATIC	C HAMMER										
CASING	SIZE	3 25"												
DPTH	CASING	5.25		SAMPLE		SA	MPLE DESCRIP	TION	STRA	ГИМ		EQUIPMENT	FIELD	R
(FT)	BLOWS	NO	PEN/REC	DEPTH (FT)	BLOW S/6"	BURM	ISTER CLASSIF	CATION	DESCR	PTION		INSTALLED	TESTING	к
		S-1	60/42	0-5		S-1: Tan, fine to	coarse SAND, t	race fine						
						Gravel, trace Si	ilt							
														1
						-							0.0111010	1
_						_								
5 -						_								
		S-2	60/36	5-10		S-2: Brown, fine	to coarse SAND), trace fine						
						Gravel, trace Si	ilt	\sim					0.0 PPMV	
								_						
10														
						En	d of Exploration a	at 10'						
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15 _						_								
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REMAR	KS:					•								
1	. The hea	dspace o	of soil samples	was screened for	or Total Volatile	Organic Compou	inds (TVOCs) usi	ng an OVM Mode	l 580B photoio	nization d	etector ec	quipped with a		
	10.6 eV I	amp. ND	indicates rea	ding below the ir	nstruments dete	ction limit of appr	oximately 1 ppmv							
2	. Approxir	mate 7' G	roundwater Ta	able.										
3	. No soil s	staining c	r odor observe	ed.										
NOTES:		1) STRA	TIFICATION L	INES REPRESE		ATE BOUNDAR	Y BETWEEN SO	L TYPES; TRANS	SITIONS MAY	BE GRAD	UAL.			
		2) WATE MAY OC	CUR DUE TC	ADINGS HAVE E O OTHER FACTO	BEEN MADE A DRS THAN THO	I TIMES AND UN	IDER CONDITIOI T THE TIME MEA	NS STATED; FLU	JCTUATIONS (ERE MADE.	IF GROU	NDWATE	R TABLE		

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GZA G	EOENV	RONM	ENTAL INC).				PROJECT		REP	PORT OF B	BORING NO.	GP-104	
140 BF	ROADWA	AY, PRO	OVIDENCE	, RHODE ISL	AND		C	HARBERT FACIL	LITY			SHEET	1 OF 1	
GEOT	ECH/GE	OHYDF		L CONSULTA	NTS		AL	TON, RHODE ISI	LAND			FILE NO.	32795.16	5
HYDR	OLOGIC	AL BOF	RING LOG									CHKD BY	EAS	
BORING	GCO.		N.E. GEOTE	СН		_	BO	RING LOCATION	NVI	CINITY OF	10,000 GA	LLON AST'S		-
FOREM	AN		STEVE PERI	RY		-	GROUND	SURFACE ELEV			DATU	M		-
GZA EN	GINEER		STEPHEN A	NDRUS		-		DATE STAR	r01/05/08	l <u> </u>	DATE EN	D <u> </u>	1/05/08	-
SAMPLE	R: UNLE	SS OTH	ERWISE NOT	ED, SAMPLER (CONSISTS OF				GROUNDWA	TER READ	INGS			
A 5' DIR	ECTPUSH	H SAMPL	ER WITH A L	DISPOSABLE LI	NER		DATE	TIME	WATER	CASING		STABILIZ	ATION TIME	
CASING	: DRIVE	N WITH A	A PNEUMATIO	C HAMMER										
	SIZE:	3.25"		OTHER:		64		TION	CTDATU	4	FOUR			Б
(FT)	BLOWS	NO	PEN/REC	DEPTH (ET)	BLOW/S/6"	BURM	INFLE DESCRIP		DESCRIPTI				TESTING	ĸ
	DEGING	S-1	60/42	0-5	DECTION	S-1: Tan fine to		race fine	DECONT		intern		TEOTING	
		01	00/42	0.0										
						Gravel, trace S	Шτ.							
													0.0 PPMV	1
						\leq								
5						4								
		S-2	60/36	5-10		S-2: Gray, fine t	o coarse SAND,	trace fine						
						Gravel, trace Si	lt, Petroleum stair	۱.					0.0 PPMV	
10						1								
						Fr	d of Exploration a	it 10'						
						-								
						-								
						4								
15						-								
20						1								
						1								
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25						4								
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35	35													
REMAR	KG.		I		I	I								<u> </u>
1	. The hea 10.6 eV la . Approxin . Petroleur	dspace c amp. ND nate 4' G n stain a	f soil samples indicates rea roundwater Ta nd odor below	was screened fo ding below the ir able. groundwater tab	or Total Volatile Istruments dete ole.	Organic Compou ction limit of appr	ınds (TVOCs) usii oximately 1 ppmv	ng an OVM Mode	el 580B photoioniza	ition detecto	or equipped	d with a		
NOTES:		1) STRA 2) WATE		LINES REPRESE ADINGS HAVE E	ENT APPROXIM BEEN MADE AT	ATE BOUNDAR	Y BETWEEN SOI	L TYPES; TRAN	SITIONS MAY BE	GRADUAL. GROUNDW	/ATER TAE	BLE		
GZA				OTHER FAUL		OL I NEGENI A		SOLUNENTS W	ENE MADE.		BC	RING NO.	GP-104	

GZA G	EOENV	IRONM	ENTAL INC	;.				PROJECT		F	REPORT	FOF BORING NO.	GP-105	i
140 BF				, RHODE ISL			C	HARBERT FACIL		_		SHEET	1 OF 1	
	ECH/GE			LCONSULTA	INTS		AL	TON, RHODE ISL	_AND	_		FILE NO.	32795.10 EAS	6
				<u></u>							05 40 0		EAG	
FOREM	ANI		N.E. GEOTE	CH PV		-	GROUND		N		OF 10,0	DATUM		-
GZA EN	GINEER		STEPHEN A	NDRUS		-	GROOND	DATE START	 Г 01/05/	08	DA	TE END (1/05/08	-
SAMPLE	R: UNLE	SS OTH	ERWISE NOT	ED. SAMPLER	CONSISTS OF	-			GROUNDW	ATER RE	ADING	3		-
A 5' DIR	ECT PUS	H SAMPL	ER WITH A D	DISPOSABLE LI	NER		DATE	TIME	WATER	CASI	NG	STABILIZ	ZATION TIME	
CASING	: DRIVE	N WITH .	A PNEUMATIC	C HAMMER										
CASING	SIZE:	3.25"		OTHER:		T					-			-
DPTH	CASING			SAMPLE		SA	MPLE DESCRIP	TION	STRAT	JM	E		FIELD	R
(FT)	BLOWS	NU	PEN/REC		BLOW S/6"	BURM	ISTER CLASSIF		DESCRIP	TION		INSTALLED	TESTING	ĸ
		5-1	60/42	0-5		S-1: Tan, line to	coarse SAND, I	Ittle Silt						
						-								
						$\overline{}$							0.0 PPMV	1
						\leq								
5 -						-								
		S-2	60/48	5-10		S-2: Tan, fine to	coarse SAND, t	trace fine						
						Gravel, trace Sil	lt, Petroleum stai	n.					0.0 PPMV	
						-								
						-								
10 _														
						En	d of Exploration a	at 10'						
						-								
						-								
						-								
15						-								
						-								
20														
25														
	L		ļ			4								
						4								1
	L		ļ			4								
30						4								1
						4					1			1
						4								1
						1					1			1
						4								1
35						4								1
<u> </u>														<u> </u>
REMAR 1	no: The hea 10.6 eV l	dspace o amp. ND	of soil samples) indicates read	was screened for ding below the ir	or Total Volatile	Organic Compou ction limit of appr	inds (TVOCs) usi oximately 1 ppmv	ng an OVM Mode ⁄.	I 580B photoioni	zation det	ector eq	uipped with a		
3	. Petroleu	im stain a	and odor below	v groundwater ta	ble.									
L														
NOTES:		1) STRA 2) WATE MAY OC	TIFICATION L ER LEVEL REACCUR DUE TO	LINES REPRESE ADINGS HAVE E OTHER FACTO	ENT APPROXIM BEEN MADE AT DRS THAN THC	IATE BOUNDAR` TIMES AND UN DSE PRESENT A	Y BETWEEN SO IDER CONDITIO T THE TIME ME#	IL TYPES; TRAN NS STATED; FLU ASUREMENTS W	SITIONS MAY B JCTUATIONS OF ERE MADE.	E GRADU GROUN	J <u>AL.</u> DWATE	R TABLE		

GZA

GZA G	EOENV	IRONM	ENTAL INC	;.				PROJECT		F	REPORT	OF BORING NO.	GP-106	
140 BR	ROADW	AY, PR	OVIDENCE	, RHODE ISL	AND		С	HARBERT FACIL	JTY	_		SHEET	1 OF 1	
GEOTI				LCONSULIA	NIS		AL	TON, RHODE ISL	_AND	_		FILE NO.	32795.1	ô
HIDRO	JLUGIU	AL BUI	RING LUG									CHKD BY	EAS	
BORING	6 CO.		N.E. GEOTE	CH		-	BC		۱ <u> </u>	/ICINITY	OF 10,0	00 GALLON AST'S		-
						-	GROUND	SURFACE ELEV		סר	-		1/05/09	-
						-		DATE START					1705/06	
	R: UNLE						DATE	TIME	WATER			STABILI		
							DATE		WATER	0A0II	10	GIABLE		
CASING	: DRIVE	NWITH	A PNEUMATIC	CHAMMER										
CASING	SIZE.	3 25"		OTHER										
DPTH	CASING			SAMPLE		SA	MPLE DESCRIP	TION	STRAT	JM	E	EQUIPMENT	FIELD	R
(FT)	BLOWS	NO	PEN/REC	DEPTH (FT)	BLOWS/6"	BURM	ISTER CLASSIF	ICATION	DESCRIP	TION		INSTALLED	TESTING	к
		S-1	60/48	0-5		S-1: Tan, fine to	coarse SAND, I	ittle Silt						
						1								
													0.0 PPMV	1
						∇								
F						1≚								
5 -			00/40	= +0			0.000							
		S-2	60/48	5-10		S-2: Gray, fine t	o coarse SAND,	trace fine						
						Gravel, trace Sil	t, Petroleum stai	n					0.0 PPMV	
						-								
						-								
10														
						En	d of Exploration a	at 10'						
15														
						-								
						1								
						-								
						4								
20						-								
						-								
25						1								
						1								
						1								
						-								
						4								
30 _						-								
						-								
						_								
35											1			
REMAR	KS:													
1.	. The hea	dspace o	of soil samples	was screened for	or Total Volatile	Organic Compou	nds (TVOCs) usi	ng an OVM Mode	l 580B photoioni	zation det	ector eq	uipped with a		
	10.6 eV I	amp. ND	indicates rea	ding below the ir	struments dete	ction limit of appr	oximately 1 ppm	ι.						
2	. Approxir	nate 4' G	roundwater Ta	aple.										
3	At appr	n stain a wimately	3.5' black stai	yrounawater tab	л с .									
	uppit	ucory												
NOTES:		1) STRA 2) WATE	TIFICATION L ER LEVEL REACCUR DUE TO	LINES REPRESE ADINGS HAVE E OTHER FACTO	ENT APPROXIM BEEN MADE AT DRS THAN THO	IATE BOUNDAR	Y BETWEEN SO DER CONDITIO	IL TYPES; TRAN NS STATED; FLU ASUREMENTS W	SITIONS MAY B	E GRADU GROUN	JAL. DWATE	R TABLE		

GZA

BORING NO. GP-106

GZA G	SZA GEOENVIRONMENTAL INC. 40 BROADWAY, PROVIDENCE, RHODE ISLAND SEOTECH/GEOHYDROLOGICAL CONSULTANTS AYDROLOGICAL BORING LOG							PROJECT		i	REPORT	OF BORING NO.	GP-107	
140 BF				, RHODE ISL			C		ITY	_		SHEET	1 OF 1	
	ECH/GE			LCONSULTA	INTS		AL	ION, RHODE ISL	AND	-		FILE NO.	32795.1	ô
												CHKD BT	EAG	
FOREM	ANI		N.E. GEOTE	CH PV		-	GROUND		·		OF 10,0	DATUM)	-
GZA EN	GINEER		STEPHEN A	NDRUS		-	GILOUND	DATE START	01/05/	08	DA		1/05/08	-
SAMPLE	R: UNLE	SS OTH	ERWISE NOT	ED, SAMPLER (CONSISTS OF				GROUNDW	ATER RE	- EADING	6		
A 5' DIR	ECT PUS	H SAMPL	ER WITH A D	DISPOSABLE LI	NER		DATE	TIME	WATER	CASI	NG	STABILIZ	ZATION TIME	
CASING	: DRIVE	N WITH .	A PNEUMATIC	C HAMMER										
CASING	SIZE:	3.25"		OTHER:									1	-
DPTH	CASING			SAMPLE		SA	MPLE DESCRIP	TION	STRAT	JM	E		FIELD	R
(F1)	BLOWS	NO	PEN/REC		BLOW S/6"	BURM	ISTER CLASSIFI		DESCRIP	TION		INSTALLED	TESTING	к
		5-1	60/48	0-5		S-1; Tan, fine to	coarse SAND, III	tie Silt						
						-								
						_		$\overline{}$					0.0 PPMV	1
			1		1	S-1a: Brown, fin	e Sand, little Silt.	\leq						
5 _						_								
		S-2	60/48	5-10		S-2: Gray, fine t	o coarse SAND,	trace fine						
						Gravel, trace Sil	t, Petroleum stair	1.					0.0 PPMV	
						_								
						_								
10											—			-
						En	d of Exploration a	it 10'						
15														
20														
25														
						1					1			1
						1					1			1
30						1					1			1
											1			1
						1					1			1
			1			1					1			1
						-					1			1
25			1			1					1			1
35			1			1					1			1
REMAR	KS:	<u> </u>	1	1	1	1			<u>I</u>				1	<u> </u>
1	. The hea	dspace o	of soil samples	was screened f	or Total Volatile	Organic Compou	nds (TVOCs) usi	ng an OVM Model	I 580B photoioni	zation det	ector eq	uipped with a		
	10.6 eV l	amp. ND	indicates read	ding below the ir	nstruments dete	ction limit of appr	oximately 1 ppmv							
2	. Approxir	mate 4' G	roundwater Ta	able.										
3	. Petroleu	m stain a	nd odor below	groundwater tak	DIE.									
4		Annately	J.J DIACK SIA	n ubselveu.										
NOTES:		1) STRA				ATE BOUNDAR		L TYPES; TRANS	SITIONS MAY B					
		MAY OC	CUR DUE TO	OTHER FACTO	ORS THAN THO	SE PRESENT A	T THE TIME MEA	SUREMENTS WI	ERE MADE.	GROON	SWAIE			

GZA

GZA G	BEOENV	IRONM	ENTAL INC	;.				PROJECT		REPO	ORT OF BORING NO.	GP-108	}
140 BF	ROADW	AY, PR		, RHODE ISL			C	HARBERT FACIL	.ITY		SHEET	1 OF 1	
GEOT	ECH/GE			LCONSULTA	ANTS .		AL	TON, RHODE ISL	.AND		FILE NO.	32795.16	6
		AL DUI										EAS	
FOREM	ΔN		STEVE PERF			-	GROUND	SURFACE FLEV	VI	CINITY OF 1	DATUM		-
GZA EN	GINEER		STEPHEN A	NDRUS		-	GROOND	DATE START	01/05/08	3	DATE END ()1/05/08	-
SAMPLE	ER: UNLE	SS OTH	ERWISE NOT	ED, SAMPLER (CONSISTS OF				GROUNDWA	TER READI	NGS		
A 5' DIR	ECT PUS	H SAMPL	ER WITH A D	DISPOSABLE LI	NER		DATE	TIME	WATER	CASING	STABILIZ	ZATION TIME	
CASING	: DRIVE	N WITH .		C HAMMER									
CASING	SIZE:	3.25"		OTHER:									Τ_
		NO				SA						FIELD	R
(11)	DLOWS	S-1	60/48	0-5	BLOW 5/0	S-1: Tan fine to		ttle Silt	DEGORIT		INGTALLED	TEOTING	
		01	00/40	0.0									
													1
						C 1o: Brown find	Cond little Cilt	∇				0.0111010	l '
5						S-Ta. DIOWITTING		<u> </u>					
⁵ –		0.0	CO/40	5.40		C O: Cray fine t		tun en fin e					
		5-2	60/48	5-10		S-2: Gray, line t	o coarse SAND,	trace line					
						Gravel, trace SI	it, Petroleum stair	1.				0.0 PPMV	
10													+
						En	id of Exploration a	at 10'					
						-							
15						-							
						-							
20													
25													
						4							
30						4						1	1
												1	1
												1	1
												1	1
35	35											1	1
REMAR 1 2 3 4	KS: The hea 10.6 eV l Approxir Petroleu At appro	dspace c amp. ND mate 4' G im stain a pximately	of soil samples indicates read roundwater Ta and odor below 3.5' black stai	was screened fo ding below the in able. v groundwater tai n observed.	or Total Volatile	Organic Compou	nds (TVOCs) usi oximately 1 ppmv	ng an OVM Model	I 580B photoioniza	GRADUAL	r equipped with a		
NULES:		2) M/ATE						NS STATED - ELL					

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.
| GZA G | BEOENV | IRONM | ENTAL INC | | | | | PROJECT | | REP | ORT OF BORING NO |). GP-109 | 9 |
|---------------------------|-----------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------|-------------------|-------------------------------------|----------------|--------------------|-------------|--------------------|----------------------------|----|
| 140 BF | ROADW | AY, PR | | , RHODE ISL | | | C | HARBERT FACIL | .ITY | | SHEE | T 1 OF 1 | |
| GEOT | ECH/GE | | | | ANTS . | | AL | TON, RHODE ISL | AND | | |). <u>32795.1</u>
V EAS | 6 |
| | | AL DUI | | | | | | | | | | | |
| FOREM | ΔN | | STEVE PERF | | | - | GROUND | | ۱ <u> </u> | CINITY OF 1 | 10,000 GALLON AST | 5 | - |
| GZA EN | GINEER | | STEPHEN A | NDRUS | | - | GROOND | DATE START | 01/05/08 | 3 | DATE END | 01/05/08 | - |
| SAMPLE | ER: UNLE | SS OTH | ERWISE NOT | ED, SAMPLER (| CONSISTS OF | | | | GROUNDWA | TER READI | INGS | | |
| A 5' DIR | ECT PUS | H SAMPL | ER WITH A D | ISPOSABLE LI | NER | | DATE | TIME | WATER | CASING | STABIL | IZATION TIME | |
| CASING | : DRIVE | N WITH . | | HAMMER | | | | | | | | | |
| | | | | | | | | | | | | | |
| CASING | SIZE: | 3.25" | | OTHER: | | | | | | | | | Τ- |
| | | NO | | | | SA | | | STRATU | | | FIELD | R |
| (11) | DLOWS | S-1 | 60/48 | 0-5 | BLOW 5/0 | S-1: Tan fine to | | ittle Silt | DEGORIT | | INSTALLED | TESTING | |
| | | 01 | 00/40 | 0.0 | | | | | | | | | |
| | | | | | | | | | | | | | 1 |
| | | | | | | S 1o: Brown fin | Sand little Silt | ∇ | | | | 0.0111010 | ' |
| 5 | | | | | | S-Ta. DIOWITTING | | <u> </u> | | | | | |
| ⁵ – | | 0.0 | CO/40 | 5.40 | | C O: Cray fine t | | turner firme | | | | | |
| | | 5-2 | 60/48 | 5-10 | | S-2: Gray, line t | o coarse SAND, | trace line | | | | | |
| | | | | | | Gravel, trace SI | it, Petroleum stair | 1. | | | | 0.0 PPMV | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | - |
| | | | | | | En | id of Exploration a | at 10' | | | | | |
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| 15 | | | | | | - | | | | | | | |
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| 35 | | | | | | | | | | | | | |
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| REMAR
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The hea
10.6 eV l
Approxir
Petroleu
At appro | dspace c
amp. ND
mate 4' G
im stain a
pximately | of soil samples
indicates read
roundwater Ta
and odor below
3.5' black stai | was screened fo
ding below the ir
able.
/ groundwater ta
n observed. | or Total Volatile | Organic Compou | nds (TVOCs) usi
oximately 1 ppmv | ng an OVM Mode | I 580B photoioniza | GRADUAL | or equipped with a | | |
| INUTES: | | 2) M/ATE | | | | | | NS STATED FUL | | | | | |

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA G								PROJECT			RE	PORT	OF BORING NO.	GP-110)
140 BF	ROADW	AY, PR	OVIDENCE	, RHODE ISL	AND		C	HARBERT FACII	LITY				SHEET	1 OF 1	
GEOT				LCONSULIA	ANTS		AL	TON, RHODE ISI	LAND				FILE NO.	32795.1	6
HIDRO	JLUGIC	AL BUI	RING LUG										CHKD BY	EAS	
BORING	GCO.		N.E. GEOTE	CH		-	BO		N	VICI	INITY OF	- 10,00	0 GALLON AST'S	6	-
FOREM						_	GROUND	DATE STAD	/	05/09				1/05/09	-
						-		DATE STAR))/08				1703/08	
		:55 UTH H SAMDI					DATE	TIME	GROUNI	JWAI			STABILI		
							DATE	TIME	WATE	<u> </u>	OAOINC		OTABLE		
CASING	: DRIVE	NWITH	A PNEUMATIC	C HAMMER						\rightarrow					
CASING	SIZE	3 25"		OTHER											
DPTH	CASING			SAMPLE		SA	MPLE DESCRIP	TION	STR	ATUM		E	QUIPMENT	FIELD	R
(FT)	BLOWS	NO	PEN/REC	DEPTH (FT)	BLOW S/6"	BURM	ISTER CLASSIFI	CATION	DESC	RIPTIC	N	11	NSTALLED	TESTING	к
		S-1	60/48	0-5		S-1: Tan, fine to	coarse SAND, li	ittle Silt.							
														0.0 PPMV	1
						S-1a: Brown fine	Sand little Silt	∇							
-						S-Ta. Brown line		<u> </u>							
5 -						-									
		S-2	60/48	5-10		S-2: Gray, fine t	o coarse SAND, 1	trace fine							
						Gravel, trace Sil	t, Petroleum stair	1.						0.0 PPMV	
10															
						En	d of Exploration a	it 10'							
						-									
15						-									
						_									
						-									
						_									
20															
05															
25 _						-									
						-									
						_									
						-									
30															
															1
35					1	1									1
55		L													1
REMAR	KS:														
1	. The hea	dspace o	of soil samples	was screened for	or Total Volatile	Organic Compou	nds (TVOCs) usi	ng an OVM Mode	el 580B photoi	onizati	on detec	ctor equ	ipped with a		
	10.6 eV I	amp. ND	indicates read	ding below the ir	nstruments dete	ction limit of appr	oximately 1 ppmv						11		
2	. Approxir	mate 4' G	roundwater Ta	able.											
3	. Petroleu	m stain a	nd odor below	groundwater tab	ole.										
4	. At appro	oximately	3.5' black stai	in observed.											
NOTES		1) STRA	TIFICATION	INES REPRESE		ATE BOUNDAR		L TYPES: TRAN	SITIONS MAY	Y BE G	RADUA				
		2) WATE MAY OC	ER LEVEL REA	ADINGS HAVE I	BEEN MADE A	T TIMES AND UN	DER CONDITION	NS STATED; FLU SUREMENTS W	JCTUATIONS	OF G	ROUND	WATEF	R TABLE		

BORING NO. GP-110

GZA G								PROJECT			REP	ORT OF BORI	NG NO.	GP-111	
140 BF	ROADW	AY, PR	OVIDENCE	, RHODE ISL	AND		C	HARBERT FACII	LITY				SHEET	1 OF 1	
GEOT	ECH/GE			LCONSULIA	ANTS		AL	TON, RHODE ISI	LAND			F	ILE NO.	32795.1	6
HIDR	JLUGIC	AL BUI	RING LUG									CI	HKD BY	EAS	
BORING	GCO.		N.E. GEOTE	CH		-	BO		N	VICI	NITY OF 1	0,000 GALLO	N AST'S		-
			STEVE PERH			-	GROUND	DATE STAD	/	5/09				1/05/09	-
						-		DATE STAR		13/08				1/05/08	
	ECT PUS	:55 01H H SAMPI	ERWISE NOT	ED, SAMPLER (DATE	TIME	WATER		CASING	NGS			
							DATE	TIME	WATER	<u> </u>	OAOINO				
CASING	: DRIVE	NWITH	A PNEUMATIC	C HAMMER						+					
CASING	SIZE	3 25"		OTHER											
DPTH	CASING			SAMPLE		SA	MPLE DESCRIP	TION	STR	ATUM		EQUIPMEN	١T	FIELD	R
(FT)	BLOWS	NO	PEN/REC	DEPTH (FT)	BLOW S/6"	BURM	ISTER CLASSIFI	CATION	DESCR		N	INSTALLE	D	TESTING	к
		S-1	60/48	0-5		S-1: Tan, fine to	coarse SAND, lit	tle Silt.							
														0.0 PPMV	1
						S-1a: Brown find	Sand little Silt	∇							
-						S-Ta. Brown line	e Gand, inthe Gift.	<u> </u>							
° –								_							
		S-2	60/48	5-10		S-2: Gray, fine t	o coarse SAND, t	trace fine							
						Gravel, trace Sil	t, Petroleum stair	1.						0.0 PPMV	
10															
						En	d of Exploration a	it 10'							
						-									
15						-									
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30															
															1
35					1	1									1
55		L													1
REMAR	KS:													<u> </u>	
1	. The hea	dspace o	of soil samples	was screened for	or Total Volatile	Organic Compou	nds (TVOCs) usi	ng an OVM Mode	el 580B photoi	onizatic	on detecto	r equipped wit	ha		
	10.6 eV I	amp. ND	indicates read	ding below the ir	nstruments dete	ction limit of appr	oximately 1 ppmv								
2	. Approxir	mate 4' G	roundwater Ta	able.											
3	. Petroleu	m stain a	nd odor below	groundwater tab	ole.										
4	. At appro	oximately	3.5' black stai	in observed.											
NOTES		1) STRA	TIFICATION	INES REPRESE				L TYPES: TRAN	SITIONS MAY	BE GI	RADUAI				
		2) WATE MAY OC	ER LEVEL REA	ADINGS HAVE I	BEEN MADE A	T TIMES AND UN	DER CONDITION	NS STATED; FLU SUREMENTS W	JCTUATIONS	OF GR	ROUNDW	ATER TABLE			

BORING NO. GP-111

GZA G								PROJECT			REPO	ORT OF BORIN	NG NO.	GP-112	
140 BF				, RHODE ISL			C	HARBERT FACI					SHEET	1 OF 1	
	ECH/GE			LCONSULTA	INTS		AL	ION, RHODE IS	LAND			FII CH	LE NO.	32795.10	5
														EAG	
FOREM	ANI		N.E. GEOTE	CH PV		-	GROUND		N	VICII	NITY OF 1		NASTS		-
GZA EN	GINEER		STEPHEN A	NDRUS		-	GILOUND	DATE STAR	T 01/0	5/08		DATE END	01	/05/08	-
SAMPLE	R: UNLE	SS OTH	ERWISE NOT	ED. SAMPLER	CONSISTS OF	-			GROUNE	WATE	R READI	NGS			
A 5' DIR	ECT PUS	H SAMPL	ER WITH A D	DISPOSABLE LI	NER		DATE	TIME	WATER	. (CASING	S	TABILIZA	ATION TIME	
CASING	: DRIVE	N WITH .	A PNEUMATIC	C HAMMER											
CASING	SIZE:	3.25"		OTHER:											-
DPTH	CASING			SAMPLE		SA	MPLE DESCRIP	TION	STR			EQUIPMEN	Т	FIELD	R
(FT)	BLOWS	NU	PEN/REC		BLOW S/6"	BURM	ISTER CLASSIFI		DESCR		N	INSTALLEL	,	TESTING	ĸ
		5-1	60/48	0-5		S-1: Tan, fine to	coarse SAND, III	tie Sit.							
						-									
						_		$\overline{}$						0.0 PPMV	1
			1		1	S-1a: Brown fine	e Sand, little Silt.	$\underline{\vee}$							
5 _						_									
		S-2	60/48	5-10		S-2: Gray, fine t	o coarse SAND, t	trace fine							
						Gravel, trace Sil	t, Petroleum stair	1.						0.0 PPMV	
						_									
						_									
10															┢
						En	d of Exploration a	it 10'							
15															
20															
25															
						1									1
30						1									
															1
						1									1
			1			1									1
						-									
25						-									1
35															
REMAR	KS:	<u> </u>	1	1	1	1			1		1		1		
1	. The hea	dspace o	of soil samples	was screened f	or Total Volatile	Organic Compou	nds (TVOCs) usi	ng an OVM Mode	el 580B photoi	onizatio	on detecto	r equipped with	a		
	10.6 eV l	amp. ND	indicates read	ding below the ir	nstruments dete	ction limit of appr	oximately 1 ppmv								
2	. Approxir	mate 4' G	roundwater Ta	able.											
4	. Petroleui	m stain a	3 5' black stoi	groundwater tak	DIE.										
		Amately	J.J DIACK SIG												
NOTES:		1) STRA 2) WATE	TIFICATION L	LINES REPRESE ADINGS HAVE F	ENT APPROXIN BEEN MADE A	IATE BOUNDAR` I TIMES AND UN	Y BETWEEN SO	L TYPES; TRAN	SITIONS MAY	BE GI	RADUAL. ROUNDW	ATER TABLE			
		MAY OC	CUR DUE TO	OTHER FACTO	ORS THAN THO	SE PRESENT A	T THE TIME MEA	SUREMENTS W	ERE MADE.						

BORING	NO.	GP-112
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GZA G								PROJECT			R	REPORT	OF BORING NO.	GP-113	,
140 BF	ROADW	AY, PR		, RHODE ISL			CI	HARBERT FACI					SHEET	1 OF 1	
GEOT	ECH/GE			LCONSULIA	ANTS .		ALT	TON, RHODE IS	LAND				FILE NO.	32795.1	ô
IIIDK	OLOGIC												CIKU BI	EAS	
	G CO.		N.E. GEOTE			-	BOI		N	VIC	CINITY	OF 10,0	00 GALLON AST'S	5	-
GZA EN	GINEER		STEPHEN A	NDRUS		-	GROUND	DATE STAR	т <u>01</u>	05/08		- DA ⁻		01/05/08	-
SAMPLE	R. UNI F	SS OTH	FRWISE NOT	ED SAMPLER	CONSISTS OF	-			GROUN	DWA	TFR RF				
A 5' DIR	ECT PUS	H SAMPL	ER WITH A D	DISPOSABLE LI	NER		DATE	TIME	WATE	R	CASIN	NG	STABILI	ZATION TIME	
CASING	: DRIVE	N WITH .	A PNEUMATIO	CHAMMER											
CASING	SIZE:	3.25"		OTHER:		1						r			
DPTH	CASING		1	SAMPLE	1	SA	MPLE DESCRIPT	FION	STR	RATUN	Л	E	EQUIPMENT	FIELD	R
(FT)	BLOWS	NO	PEN/REC	DEPTH (FT)	BLOWS/6"	BURM	ISTER CLASSIFI		DESC	RIPTI	ON		INSTALLED	TESTING	К
		S-1	60/48	0-5		S-1: Tan, fine to	coarse SAND, lit	tle Silt.							
								∇						0.0 PPMV	1
						S-1a: Brown fine	e Sand, little Silt.	$\underline{\vee}$							
5 _						_									
		S-2	60/48	5-10		S-2: Gray, fine t	o coarse SAND, t	race fine							
						Gravel, trace Sil	lt, Petroleum stain	l.						0.0 PPMV	
10															
						En	d of Exploration a	t 10'							
15															
_															
20															
- 20						-									
						_									
						-									
25 -						-									
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30 _			ļ			-									1
															1
						4									
	L		ļ			4									1
			ļ			4									
35						4									1
L															
REMAR	KS:	4	(I)			0		C 1	1 5005				- 1		
1	. The hea	dspace o	of soil samples	was screened for	or Total Volatile	Organic Compou	inds (TVOCs) usir oximately 1 ppmy	ng an OVM Mode	el 580B photo	ioniza	tion dete	ector eq	uipped with a		
2	. Approxir	mate 4' G	roundwater Ta	able.			omatory i ppint								
3	. Petroleu	m stain a	nd odor below	groundwater tak	ole.										
4	. At appro	oximately	3.5' black stai	n observed.											
NOTES		1) STP /	TIFICATION	INES REPRES			Y RETWEEN SOI		ISITIONS MA		GRADII				
		2) WATE MAY OC	ER LEVEL REA	ADINGS HAVE E	BEEN MADE AT	T TIMES AND UN	IDER CONDITION	SUREMENTS W	UCTUATIONS	OF C	GROUNI	DWATE	R TABLE		

GZA G								PROJECT		RE	EPORT	OF BORING NO.	GP-114	r
140 BF	ROADW	AY, PR	OVIDENCE	, RHODE ISL	AND		C	HARBERT FACIL	.ITY			SHEET	1 OF 1	
GEOT	ECH/GE			L CONSULTA	ANTS		AL	TON, RHODE ISL	AND			FILE NO.	32795.1	6
HYDR	JLUGIC	AL BOI	RING LOG									CHKD BY	EAS	
BORING	GCO.		N.E. GEOTE	СН		_	BO	RING LOCATION	1	REAR BO	OILER F	ROOM FLOOR		-
FOREM	AN		STEVE PERI	RY		-	GROUND	SURFACE ELEV			D		4/05/00	-
GZA EN	GINEER		STEPHEN A	INDRUS		-	1	DATE START	01/05/08	3	DAT		1/05/08	
	ER: UNLE			ED, SAMPLER (DATE	тіме	GROUNDWA		DINGS	CTADILI		
A 5 DIR	ECT PUS	1 SAMP		JISPUSABLE LII	NER		DATE	TIME	WATER	CASING	G	STABILIZ		
CASING	: DRIVE	N WITH	A PNEUMATIC	C HAMMER										
CASING	SIZE	3 25"												
DPTH	CASING	3.20		SAMPLE		SA	MPLE DESCRIP	TION	STRATU	И	E	QUIPMENT	FIELD	R
(FT)	BLOWS	NO	PEN/REC	DEPTH (FT)	BLOW S/6"	BURM	ISTER CLASSIF	CATION	DESCRIPT	ION		NSTALLED	TESTING	к
		S-1	60/48	0-5		S-1: Tan, fine to	coarse SAND, li	ttle Silt,				Riser		
						6" Layer of blacl	k ash.							
												: 🗖 :	25 PPMV	1
						S-1a: Brown E-N	A Sand little Silt					: :		
5						o la. Biowitt i	vi Gana, intie Oin.				Eiltor	: 		
5 -		0.0	00/40	5.40		- 								
		5-2	60/48	5-10		S-2: Brown, fine	to coarse SAND	, trace fine			Sand			
						Gravel, trace Sil	lt.					Screen	36 PPMV	
												:		
												:		
10												:		<u> </u>
						En	d of Exploration a	at 10'						
15														
-														
						-								
						-								
20						-								
						_								
						_								
						-								
						_								
25			ļ		ļ									
30														
··· -														
						1								
						-								
<u> </u>						-								
35						-								
REMAR	K.C.		1		1	1								1
1	. The hea	dspace o	of soil samples	was screened for	or Total Volatile	Organic Compou	ınds (TVOCs) usi	ng an OVM Mode	l 580B photoioniza	ation dete	ctor eau	ipped with a		
	10.6 eV la	amp. NE) indicates rea	ding below the ir	nstruments dete	ction limit of appr	oximately 1 ppmv							
2	. Approxir	nate 5' G	Froundwater Ta	able.										
3	. Set 2" P	/C well,	5' well screen;	2' riser.										
4	. Old Petro	leum sta	ain and odor be	elow groundwate	er table.	71.01								
5 NOTES:	. Kecent F	etroleun 1) STRA	TIFICATION L	and gray Petro	eum stain at ±	7-9" IATE BOUNDAR	Y BETWEEN SO	L TYPES; TRANS	SITIONS MAY BE	GRADUA	L.			
		2) WATI		ADINGS HAVE	BEEN MADE A	TTIMES AND UN	IDER CONDITIO	NS STATED; FLU	CTUATIONS OF	GROUND	WATER	R TABLE		
GZA												BORING NO.	GP-114	

BORING	NO.	GP-114
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								PROJECT		R	EPORT	OF BORING NO.	GP-115	,
140 BF	ROADW	AY, PR	OVIDENCE	, RHODE ISL	AND		C	HARBERT FACI	LITY	_		SHEET	1 OF 1	
GEOT	ECH/GE	OHYDE		L CONSULTA	NTS		AL	TON, RHODE IS	LAND			FILE NO.	32795.1	6
HYDRO	JLOGIC	AL BOI	RING LOG									CHKD BY	EAS	
BORING	CO.		N.E. GEOTE	СН		-	BO	RING LOCATIO	N	REAR B	OILER I	ROOM FLOOR		-
FOREM	AN		STEVE PERF	RY		-	GROUND	SURFACE ELEV	/	-				-
GZA EN	GINEER		STEPHEN A	NDRUS		-	-	DATE STAR	I 01/05/0	8	DAI	E END 0	1/05/08	
SAMPLE	ER: UNLE	SS OTH	ERWISE NOT	ED, SAMPLER (CONSISTS OF		DATE	TIME	GROUNDW	ATER REA	ADINGS			
A 5' DIR	ECTPUS	H SAMPI	LER WITH A L	DISPUSABLE LI	NER		DATE	TIME	WATER	CASIN	G	STABILIZ		
CASING	: DRIVE	N WITH	A PNEUMATIC	C HAMMER										
		0.05"												
DPTH	SIZE. CASING	3.23		SAMPLE		SA			STRATI	IM	F		FIELD	R
(FT)	BLOWS	NO	PEN/REC	DEPTH (FT)	BLOWS/6"	BURM	IISTER CLASSIFI	CATION	DESCRIPT	TION	-	NSTALLED	TESTING	ĸ
		S-1	60/48	0-5		S-1: Tan, fine to	coarse SAND, lit	tle Silt			Road	Box		
						6" Laver of blac	k ash					Riser		
														1
						C day Drawn far	a ta madium Cana					:	21111010	1
_						S-Ta. BIOWITTING	e to medium Sand	i, iittie Siit.						
5 -											Sand			
		S-2	60/48	5-10		S-2: Brown, fine	to coarse SAND	, trace fine				Screen		
						Gravel, trace Sil	lt.					: : : : : : : : : : : : :	42 PPMV	
												:		
												:		
10												:		
						En	nd of Exploration a	it 12'						
						1	-							
15						1								
10 -						1								
						4								
						-								
20						4								
25														
]								
			1			1								
						1								
20						1								
30						1								
						4								
						-								
						4								
						4								
35						4								
L														
REMAR	KS:													
1	. The hea	dspace o	of soil samples	was screened for	or Total Volatile	Organic Compou	inds (TVOCs) usii	ng an OVM Mode	el 580B photoioniz	ation dete	ector equ	ipped with a		
2	Approxir	amp. NL mate 5' G	roundwater Ta	aing below the ir able	istruments dete	ction limit of appr	oximately 1 ppmv							
3	. Set 2" P	VC well.	10' well screer	n; 2' riser, and al	uminum road bo	x								
4	. Old Petro	oleum sta	in and odor be	elow groundwate	r table.									
5	. Recent F	Petroleum	stain at ± 5'-7	7' and gray Petro	leum stain at ±	7'-9'								
NOTES:		1) STRA 2) WATE	TIFICATION L	LINES REPRESE ADINGS HAVF F	ENT APPROXIN	IATE BOUNDAR` TIMES AND LIN	Y BETWEEN SOI	L TYPES; TRAN	ISITIONS MAY BE	GRADU	AL. DWATEF	R TABLE		
		MAY OC	CUR DUE TO	OTHER FACTO	DRS THAN THO	SE PRESENT A	T THE TIME MEA	SUREMENTS W	ERE MADE.			DOD		
IGZA												BORING NO	GP-115	

GZA G	EOENV	IRONM	ENTAL INC	;.			PROJECT			F	REPORT	OF BORING N	0. GP-11	6	
140 BF	ROADW	AY, PR	OVIDENCE	, RHODE ISL	AND		C	HARBERT FACI	LITY				SHE	ET 1 OF	1
GEOT				LCONSULIA	NIS		AL	TON, RHODE IS	LAND				FILE N	O. <u>32795</u> .	16
HIDR	JLUGIC	AL BUI	RING LOG										CHKD	BY EAS	
BORING	GCO.		N.E. GEOTE	СН		-	BO	RING LOCATION	N		REAR E	BOILER	ROOM FLOOR		_
FOREM			STEVE PERF			_	GROUND	SURFACE ELEV	/	105 100		_ [04/05/00	
GZA EN	GINEER		STEPHEN A			_	1	DATE STAR	11	/05/08			E END	01/05/08	
		:55 OTH H SAMD					DATE	TIME	GROUN				STAR		
	Lettos						DATE		WAIL	.1	CASI	10	517.01		
CASING	: DRIVE	N WITH	A PNEUMATIC	C HAMMER					-						
CASING	SIZE	3 25"													
DPTH	CASING	0.20		SAMPLE		SA	MPLE DESCRIP	TION	STI	RATU	Л	E	QUIPMENT	FIELD	R
(FT)	BLOWS	NO	PEN/REC	DEPTH (FT)	BLOWS/6"	BURM	ISTER CLASSIF	ICATION	DESC	RIPTI	ON	1	NSTALLED	TESTING	к
		S-1	60/48	0-5		S-1: Tan, fine to	coarse SAND, li	ttle Silt							
						6" Layer of black	k ash.						Riser		
													:	18 PPMV	1
					1	S-1a: Brown fine	e to medium Sand	d, little Silt.				Filter			
5												Sand	Well		
_		S-2	60/48	5-10		S-2. Brown fine	to coarse SAND	trace fine					Screen		
		02	00/10	0.10		Gravel trace Sil	+							: : 32 DDM\\/	e -
						Glavel, flace Sh	ı.								
						-									
						-									
10 _					1										_
						En	d of Exploration a	at 10'							
15															
						-									
20						-									
						-									
						-									
						_									
						_									
25															
									1						
									1						
						1			1						
30						1			1						
			1			1			1						
						1									
						-			1						
						-									
35						-			1						
									1						
1 2 3 4 5	. The hea 10.6 eV I . Approxir . Set 2" P . Old Petro . Recent F	adspace of amp. NE mate 5' G VC well, bleum sta Petroleum	of soil samples of indicates read roundwater Ta 5' well screen; ain and odor be a stain at \pm 5'-7	was screened for ding below the in able. 2' riser. elow groundwate 7' and gray Petro	or Total Volatile hstruments dete ir table. leum stain at ±	Organic Compou ction limit of appr 7'-9'	nds (TVOCs) usi oximately 1 ppmv	ng an OVM Mode	el 580B photo	Dioniza		ector equ	uipped with a		
NOTES:		2) WATE MAY OC	ER LEVEL REACCUR DUE TO	ADINGS HAVE E OTHER FACTO	BEEN MADE A	T TIMES AND UN SE PRESENT AT	DER CONDITION	NS STATED; FLU	JCTUATIONS MA	S OF (GRADU GROUNI	DWATE	R TABLE		

BORING	NO.	GP-116
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								PROJECT		REP	ORT OF B	ORING NO.	GP-117	
140 BF	BROADWAY, PROVIDENCE, RHODE ISLAND						C	HARBERT FACIL	.ITY			SHEET	1 OF 1	
	ECH/GE			LCONSULTA	NTS		AL	TON, RHODE ISL	AND	-		FILE NO.	32795.16	5
HIDK	JLUGIC		KING LOG									CHKD BY	EAS	
BORING	CO.		N.E. GEOTE	СН		-	BO	RING LOCATION	l	REAR BOI	LER ROOM	M FLOOR		-
FOREM	AN		STEVE PERF	RY		-	GROUND	SURFACE ELEV			DATU	M		-
GZA EN	GINEER		STEPHEN A	NDRUS		_	-	DATE START	01/05/08	}	DATE EN	D0	1/05/08	
SAMPLE	R: UNLE	SS OTH	ERWISE NOT	ED, SAMPLER	CONSISTS OF			1	GROUNDWA	TER READ	INGS			
A 5' DIR	ECT PUSI	I SAMPL	ER WITH A D	DISPOSABLE LI	NER		DATE	TIME	WATER	CASING		STABILIZ	ATION TIME	
CASING	: DRIVE	I WITH A	A PNEUMATIC	CHAMMER										
CASING	SIZE:	3.25"		OTHER:		1								
DPTH	CASING			SAMPLE		SA	MPLE DESCRIP	TION	STRATU	M	EQUIP	MENT	FIELD	R
(FT)	BLOWS	NO	PEN/REC	DEPTH (FT)	BLOW S/6"	BURM	ISTER CLASSIFI	CATION	DESCRIPT	ION	INSTA	LLED	TESTING	к
		S-1	60/48	0-5		S-1: Tan, fine to	coarse SAND, lit	ttle Silt		R	oad	Box		
						6" Layer of blac	k ash.					Riser		
													36 PPMV	1
						S-1a: Brown fine	e to medium Sano	l little Silt		 Eil	ter			
5						1		·, ····· • • ····				-		
5 -												◀		
		S-2	60/48	5-10		S-2: Brown, fine	to coarse SAND	, trace fine				Well		
						Gravel, trace Sil	lt.					Screen	58 PPMV	
10														
_												-		
												-		
						_								+
						En	id of Exploration a	it 12'						
						-								
15														
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25														
25 _														
						1								
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						4								
30														
]								
						1								
						-								
						4								
35						4								
L														
REMAR	KS:													
1	. The hea	dspace c	f soil samples	was screened for	or Total Volatile	Organic Compou	inds (TVOCs) usii	ng an OVM Mode	I 580B photoioniza	ation detecto	or equipped	d with a		
	10.6 eV la	imp. ND	indicates read	ding below the ir	nstruments dete	ction limit of appr	oximately 1 ppmv							
2	. Approxir	nate 5' G	roundwater Ta	able.										
3	. Set 2" P	/C well, [·]	10' well screen	n; 2' riser and alu	iminum road bo	κ.								
4	. Old Petro	leum sta	in and odor be	elow groundwate	r table.	71.01								
5 NOTES:	. Recent F	etroleum 1) STRA	TIFICATION L	INES REPRESE	ENT APPROXIN	<u>/ -9</u> IATE BOUNDAR`	Y BETWEEN SOI	L TYPES; TRANS	SITIONS MAY BE	GRADUAL.				
		2) WATE		ADINGS HAVE	BEEN MADE AT	TIMES AND UN	IDER CONDITION	NS STATED; FLU	ICTUATIONS OF	GROUNDW	ATER TAE	BLE		
GZA		way oc	CUR DUE TO	UTHER FACTO	JKS THAN THO	ISE PRESENT A	I THE TIME MEA	SUKEMENTS W	ERE MADE.		RC	RING NO	GP-117	

No BREADWAY, PROVIDENCE, HODE ISLAND CAMEER TRACETY Description NO BREADWAY, PROVIDENCE, CONSTRUCTOR DOTAL PROVIDENCE, HODE ISLAND PROVIDENCE NO BREADWAY, PROVIDENCE, CONSTRUCTOR DOTAL DOTAL PROVIDENCE, HODE ISLAND PROVIDENCE, HODE ISLAND NO BREADWAY, PROVIDENCE, CONSTRUCTOR DOTAL DOTAL DOTAL PROVIDENCE, HODE ISLAND NO BREADWAY, PROVIDENCE, CONSTRUCTOR DOTAL DOTAL DOTAL PROVIDENCE, HODE ISLAND CONSTRUCTOR MARKER, LILLY DOTAL DOTAL DOTAL DOTAL CONSTRUCTOR, MARKER, CONSTRUCTOR DOTAL DOTAL PROVIDENCE, HODE ISLAND TELEST SAUCH PROLOKANDER, MARKER, CONSTRUCTOR DOTAL DOTAL PROVIDENCE, HODE ISLAND TELEST SAUCH PROLOKANDE, MARKER, MORE RECORDER/TON DESCRIPTION DOTAL TELEST PROVIDENCE, MARKER, MARKER, MORE RECORDER/TON DESCRIPTION DOTAL TELEST PROVIDENCE, MARKER, MORE RECORDER/TON DESCRIPTION DOTAL TELEST PROVIDENCE, MARKER, MARKER, MORE RECORDER/TON DOTAL DOTAL TELEST PROV	GZA G	EOENV	IRONM	ENTAL INC	;.				PROJECT		REPORT OF BORING NO. GP-11				
A TOK HIDE BLACK ADD ALL CONSULTANTS A TOK HIDE BLACK ADD ALL CONSULTANTS ADD ALL	140 BF	ROADW	AY, PR	OVIDENCE,	, RHODE ISL	AND		CI	HARBERT FACIL	.ITY			SHEET	1 OF 1	
EXCENSION OF CONTROLOGY EXCENSION OF CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL EXCENSION OF CONTROL	GEOT	ECH/GE			L CONSULTA	NIS		AL	ON, RHODE ISL	AND			FILE NO.	32795.10	6
BORMA CO ME & GOTECL: DORALMAN D'INDE MERROY	HIDRO	JLUGIC	AL BUI	RING LUG									CHKD BY	EAS	
Order Market State Process and the set of the set	BORING	GCO.		N.E. GEOTE	СН		-	BO		1	REAR BO	ILER RO	DOM FLOOR		-
Concentration Concent	FOREM.			STEVE PERH			-	GROUND	DATE STADT			DATE		1/05/09	-
							-		DATE START						-
					ED, SAMPLER (DISPOSABLE I II	VER		DATE	TIME	WATER		JINGS	STABILIZ	ATION TIME	
CARDE: DORENO (111) PREVIOUS CONTROL FORMULE TOTAL SAME TO TOTAL PREVIOUS CONTROL TOTAL SAME TO SAME											0/10/10		011101212		
CANNE SEE: 127 OTTER: CANNE SEE: 127 OTTER: TETHON SAME (FT) BLOWE MO FOR ANNE DEVELOPMENT (FT) BLOWE MO FOR ANNE DE	CASING	: DRIVE	NWIIH		HAMMER										
OPTH: SAMPLE SAMPLE SAMPLE DESCRIPTION STRATUM COUNTENT PLOKE PL	CASING	SIZE:	3.25"		OTHER:										
IPT BLOWS IND TEMPRE DEFINITION DESCRIPTION	DPTH	CASING			SAMPLE		SA	MPLE DESCRIP	TION	STRATU	N	EQUIPMENT FIELD			R
Sh1 6044 0.5 Sh1: Tan. Into to came SAND, title SH Red Red 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0<	(FT)	BLOWS	NO	PEN/REC	DEPTH (FT)	BLOWS/6"	BURM	ISTER CLASSIFI	CATION	DESCRIPTI	ON	INS	STALLED	TESTING	К
<pre></pre>			S-1	60/48	0-5		S-1: Tan, fine to	coarse SAND, lit	tle Silt		F	Road	Box		
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							6" Layer of black	k ash.					Riser		
Site from the to readum Sand, kills Sit, Site of the to readum Sand, kills Site,													¥ · · · · · ·	18 PPMV	1
5 Image: Set in the second SAND, takes files Set in the second SAND, takes files Set in the second SAND, takes files 10 Image: Set in the second SAND, takes files Image: Set in the second SAND, takes files Image: Set in the second SAND, takes files 10 Image: Set in the second SAND, takes files Image: Set in the second SAND, takes files Image: Set in the second SAND, takes files 10 Image: Set in the second SAND, takes files Image: Set in the second SAND, takes files Image: Set in the second SAND, takes files 10 Image: Set in the second SAND, takes files Image: Set in the second SAND, takes files Image: Set in the second SAND, takes files 10 Image: Set in the second SAND, takes files 26 Image: Image: Set in the second SAND, takes files 26 Image: Image: Set in the second SAND, take files Image: Set in the second SAND, take second SAND, take second SA							S-1a: Brown fine	e to medium Sand	, little Silt.		Ei	ilter			
a b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b b	5										S	and			
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BORING	G CO.		NONE			<u></u>	BO	RING LOCATIO	N	LAC	GOON 5			
FOREM	AN		NONE				GROUND	SURFACE ELEV	/. 42.74'		DATUM		_	
GZA EN	IGINEER		STEPHEN A	NDRUS		DATE START 01-20-09 DATE END 01-20-09								
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							DATE	TIME	WATER	CASING	STABIL	IZATION TIME		
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(FT)	BLOWS	NO	PEN/REC	DEPTH (FT)	BLOWS/6"	BURM	ISTER CLASSIFI	CATION	DESCRIPT	ION	INSTALLED	TESTING	к	
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BORING NO. Micro - 5

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