GM COMPONENTS HOLDINGDS, LLC 200 UPPER MOUNTAIN ROAD LOCKPORT, NEW YORK BUILDING 10 2009 SVE/SSD OPERATION & MONITORING REPORT

PREPARED FOR:
New York State Department of Environmental Conservation

PREPARED BY:
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Buffalo, New York

May 2010
File No. 21.0056546.00

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1.0 INTRODUCTION AND BACKGROUND

On behalf of GM Components Holdings, LLC (GMCH), GZA GeoEnvironmental of New York (GZA) has prepared this Annual Soil Vapor Extraction (SVE) and Sub-slab Depressurization (SSD) System Monitoring Report for the extraction and treatment of soil vapor from a portion of Building 10 (Figure 1). Building 10 is part of the GMCH Lockport Facility located at 200 Upper Mountain Road, Lockport, New York. GMHC purchased the facility from Delphi Automotive systems LLC (Delphi) on October 6, 2009.

The SVE/SSD System was installed by Delphi in the northern portion of Building 10 to address concerns related to soil impacts and consequent vapor intrusion concerns associated with subsurface contamination, primarily tetrachloroethene (PCE) identified in the Building 10 Focused Environmental Assessment[1] (Bldg 10 FEA) which Delphi submitted to the New York State Department of Environmental Conservation (NYSDEC) in August 2007.

The SVE/SSD System was designed and installed based on the SVE Pilot Test Summary and SVE System Design Report[2] (SVE Design Report), which was also submitted by Delphi to NYSDEC in November 2007.

Delphi submitted a SVE/SSD System Installation Document[3] and an Operation, Maintenance & Monitoring (OM&M) Plan[4] to NYSDEC in July 2009. Delphi initiated operation of the SVE/SSD system in March 2009. The OM&M Plan identifies that a SVE/SSD System operation report will be prepared annually and submitted in May of each calendar year. This report is intended to satisfy the reporting requirements.

This SVE/SSD System Operation Report, which will be referred to as the "2009 Operation & Monitoring Report," covers the monitoring period from March 2009 through April 2010 and provides monitoring data, SVE operational information, conclusions regarding overall system effectiveness, recommendations for modifications to the SVE/SSD system, as appropriate.

1.1 NATURE AND EXTENT OF SUBSURFACE CONTAMINATION

The subsurface investigation work completed as part of the Bldg 10 FEA and SVE Design Report identified an approximately 14,000 square foot area with detected PCE concentrations in soil above 300 ppm (the Part 375 Industrial Soil Cleanup Objective (ISCO)) as shown on Figure 2. Based on this area, the average PCE concentration in the soil (360 ppm), and the depth of the unsaturated zone (about 6.5 feet below floor

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[1] "Focused Environmental Assessment, Building 10, Lockport, New York" dated August 27, 2007.
[2] "Soil Vapor Extraction (SVE) Pilot Test Summary and SVE System Design Report, Delphi Automotive, Northern Portion of Building 10, Lockport Complex, 200 upper Mountain Road, Lockport, New York" dated November 2007.
[3] "SVE/SSD System, Installation Document, Delphi Automotive, Lockport, New York" dated July 2007.
[4] "Operation, Maintenance & Monitoring Plan, SVE/SSD System, GM Components Holdings, LLC, Lockport, New York" dated March 2010.

grade), it has been estimated that approximately 3,600 pounds of PCE is present in the zone being treated (see Appendix A for calculations). This mass of PCE will be used when evaluating the effectiveness of the SVE/SSD System as discussed in Section 4.0.

2.0 SOIL VAPOR EXTRACTION SYSTEM

This section provides a general description of the SVE system and adjustments made during the reporting period.

2.1 SVE/SSD SYSTEM OVERVIEW

There are two subsurface components to the SVE/SSD system operating in Building 10: a vertical well SVE system and a horizontal perforated pipe SSD system (see Figure 2).

- The vertical well SVE system consists of 17, 4-inch diameter vertical extraction wells (see Figure 2). The 17 extraction wells were installed using rotary drilling methods and are constructed of 4-inch diameter flush coupled polyvinyl chloride (PVC) riser and screen. Depth of the wells ranges from about 5.5 to 7 feet below ground surface (bgs) with the screened portion of the wells ranging from about 3.5 to 5-foot in length and consisting of #10 machine slotted PVC pipe. The annulus space around the well screen was backfilled with a #00 sand pack and an approximate 2-foot thick layer of bentonite was placed above the sand filter. Three trenches were excavated to an approximate depth of 2 feet bgs through the concrete slab-on-grade, subbase and soil for installation of the piping that connects the extraction wells to the manifold located within the SVE shed. The trenches were backfilled with pea stone to approximately 6 to 8-inches below the concrete slab.

- The horizontal piping SSD piping was installed in the upper portion of the pea stone in the SVE manifold trenches. The subsurface SSD system piping consists of 2-inch diameter #10 machine slotted PVC well screen lengths, connected with PVC couplers, and covered with a fabric sleeve (see Figure 2). The three lengths, called sub-slab (SS) legs 1, 2 and 3 are connected to the manifold inside the SVE shed via 1.5-inch diameter HDPE piping.

The trenches were topped with approximately 6-inches of crushed stone, compacted and covered with concrete to meet the existing slab-on-grade. Cracks and seams in the existing concrete floor were filled using a self-leveling polyurethane caulk.

Additional SVE/SSD system construction details are provided in the Installation Document referenced above. The system is designed to operate continuously at a consistent vacuum and flow rate to remove soil vapor from the impacted area.

The SVE/SSD System's main above ground components consist of a moisture separator, air filter, positive displacement blower, heat exchanger and two vapor phase granular activated carbon vessels each containing approximately 1,800 pounds of

granular activated carbon. The entire system is skid mounted, with vacuum, temperature, pressure and flow instrumentation, and is operated through a control panel. Figure 3 shows the process and instrumentation diagram for the SVE/SSD System.

2.2 SVE SYSTEM ADJUSTMENTS

No significant SVE system adjustments were made during the reporting period. However, on April 17, 2009 and February 8, 2010 the system was balanced in an attempt to more evenly distribute the vacuum and extraction air flow between the 17 extraction wells. This was done in general accordance with Section 3.4.1 of the OM&M Plan.

The 17 SVE wells do not have similar air flow capacities (i.e., vacuum – flow relationship). These varying air flow capacities are likely due to heterogeneities in the subsurface soils and the presence of subsurface features (i.e., piping, manholes, etc.). During the two monitoring events (April 17, 2009 and February 8, 2010), the air flow of the 17 extraction wells (see Figure 2 for locations) were measured using a velocity meter and compared to each other. We have categorized the wells into the following three categories: good (highest air velocities, typically greater than 20 cfm), fair (middle air velocities, between 10 and 20 cfm) and low (lowest air velocities, less than 10 cfm). Based on the February 8, 2010 measurements, the EWs fall into the following categories.

Good:	EW-4, -5, -6, -7, and -8
Fair:	EW-1, -2, -12, -13, -15, -16 and -17.
Low:	EW-3, -9, -10, -11 and -14.

The measurements collected from the 12 extraction wells identified as Good or Fair were used to establish an average flow. The individual extraction well flow control valves were then adjusted to more closely meet the calculated average on a well specific basis. The air flow rates in the SVE system are interrelated, therefore, adjusting the flow rate at one well location has an effect on vacuum and flow rate at other locations. The five wells identified as Low were not used in calculating the average and in making adjustments since these adjustments to the valves for these wells have little effect on the overall air flow or vacuum of the SVE system.

3.0 OPERATION AND MONITORING

This section discusses the operation and monitoring activities performed for the SVE/SSD system during the current reporting period. The system startup began under Delphi on March 2, 2009. The system has generally been running continuously since March 3, 2009. Table 1 is a breakdown of the monitoring activities completed.

A GZA operator monitored the SVE/SSD system generally on a weekly basis from March 2 through May 8, 2009; bi-weekly from May 8, 2009 through June 25, 2009; monthly in July 2009 and August 2009. After the transition associated with the sale from Delphi to GMCH, a GZA operator continued to perform monitoring from

February 2010 through April 2010. No monitoring was done in September 2009 through January 2010.

Monitoring included the collection of: 1) extracted vapor samples from the treatment system influent (Pre-Carbon), midpoint (Mid-Carbon) and effluent (Post-Carbon) to assess system performance and 2) system readings to measure the approximate system flow rates. See Table 1 for the SVE/SSD System Monitoring Summary.

Routine Monitoring Forms were developed and used to document operation and monitoring events for the SVE/SSD system from June 2009 through April 2010 (see Appendix B). Prior to June 2009, information was documented by others means (i.e., field books and note pad), and are not included in Appendix B.

The operator also monitored water accumulation in the moisture separator during the reporting period. Water accumulation generally occurred during the first month of system operation. The water was transferred via the system transfer pump from the moisture separator to 55 gallon drums. The drums were discharged by Delphi (prior to October 2009) and GMCH (after October 2009) to the City of Lockport sanitary sewer, with approval from the City of Lockport. Approximately 110 gallons of water were collected and disposed of during this reporting period.

Since the start of the system monitoring, four types of extracted vapor monitoring samples have been collected to assess the system performance, operating conditions and contaminant removal rate. They are as follows.

1. Tedlar bag samples for field screening (Field Screening Sample);
2. Summa canister air samples for TO-15 laboratory analysis (Summa);
3. Colorimetric Detector tubes for PCE (Detector Tube); and
4. Tedlar bag samples for Gas Chromatograph analysis (GC Sample).

Field Screening Samples have generally been collected (by GZA) during each monitoring event (see Table 1) and were analyzed for total VOCs using a photoionization detector (PID) equipped with a 10.6 eV lamp[5]. The PID was calibrated using 100 parts per million by volume (ppmv) of isobutylene. Based on information provided by Rae Systems (the manufacturer of the PID used to perform the field screening), isobutylene has a response factor of 1.0, while, PCE has a response factor of 0.57[6]. Since PCE is the primary compound of concern, the readings were adjusted to reflect the PCE response factor.

Summa samples were collected by GZA from the Pre-Carbon, Mid-Carbon and Post-Carbon sampling locations on two occasions, March 13, 2009 and April 9, 2009, and delivered to Con-Test Laboratory (East Longmeadow, Massachusetts) and Centek Laboratory (Syracuse, New York), respectively. Samples were analyzed for volatile

[5] PID readings were obtained by collecting soil vapor samples in Tedlar® bags. Prior to sampling, the bags were purged with the same soil vapor as was being sampled for analysis using a dedicated Tedlar bag for the respective sampling location.

[6] Rae Systems Inc., Technical Note TN-106 "Correction Factors, Ionization Energies and Calibration Characteristics" Revised December 2007.

organic compounds (VOCs) using Environmental Protection Agency (EPA) Method TO-15. The Summa regulators were set to collect samples over a 5 minute period from the three sampling locations. The analytical results from the two sampling events are shown on Table 1 (Total VOCs) and Table 2 (Summary of VOCs Detected). The laboratory analytical reports are included in Appendix C. Table 2 also contains the Field Screening Sample and Detector Tube readings for the corresponding monitoring events.

GC Samples were collected by GZA for screening with a gas chromatograph at the Haley & Aldrich office in Rochester, New York, for the February, March and April 2010 monitoring events. The total VOC and PCE concentrations detected for these monitoring events are included on Table 1 with a summary table of the data included in Appendix C.

Detector Tube readings were collected by Delphi prior to October 2009 and by GMCH after October 2009 during some monitoring events since startup, as shown on Table 1. Detector Tube readings were collected directly from the air stream of the three sampling locations after opening the valve at the respective locations. The Detector Tube results were also used to make field decisions regarding carbon breakthrough on the first carbon vessel.

GZA has evaluated these results to assess the mass of PCE extracted by the SVE/SSD system as well as to assess the efficiency of the carbon treatment system. In performing this evaluation, we have identified inconsistencies between the various data that was collected and have made judgments with respect to the most appropriate data to use in these calculations. The following describes our evaluation.

The Pre-Carbon Summa air sample results from two sampling events do not appear to correlate well with the Field Screening and Detector Tube readings. The total VOC concentrations detected in the two Summa Pre-Carbon samples of 2.9 ppmv (March 13, 2009) and 3.8 ppmv (April 9, 2009) are an order of magnitude lower than the Field Screening and Detector Tubes results for those days (see Table 1). There is, however, reasonably good correlation for the Mid-Carbon Summa and Post-Carbon Summa sample results as compared to the Field Screening and Detector Tube results taken on those same days. The GC Samples collected in February 2010, March 2010 and April 2010 that were analyzed using a gas chromatograph, discussed later in this section, reported total VOCs and PCE concentrations 3 times the Summa samples which were collected about 1 year earlier (See Table 1). Since it is highly unlikely that VOC concentrations would increase after one year of continuous SVE and since, as indicated below, the other data indicates an expected exponential decay in concentrations, we suspect that the Pre-Carbon Summa data collected in 2009 underestimates the actual concentrations at that time[7]. Therefore, the Pre-Carbon Summa data have not been used in the assessment of contaminant removal rates.

[7] Though we are uncertain about the reasons that the Pre-Carbon Summa results are low, possible causes include the sampling methodologies used (sampling tube to Summa intake valve may not have been properly positioned in the sampling port), moisture in the system (the SVE/SSD system was generating

Because the correlation between the other three data sets (i.e., the Field Screening Samples, Detector Tubes and GC Samples) collected in 2010, is within a reasonable range of consistency, these data has been used in the assessment of contaminant removal rates.

Detector Tube readings in six of the seven monitoring events show good correlation with the Field Screening Samples and/or GC Sample results. Therefore, the Detector Tube results are considered a good indicator for assessing carbon breakthrough. The Field Screening Sample results, due to the amount of data collected, have been used to assess PCE contaminant removal mass rates.

The following rationale was used to estimate the mass removal rates. The five monitoring events for which speciation data are available (i.e., when either Summa[8] or GC Pre-Carbon Samples were collected - 3/13/09, 4/9/09, 2/8/10, 3/16/10 and 4/23/10) were evaluated to estimate what percentage the total VOC concentrations detected was due to PCE. From these five events, PCE was determined to be 55%, 84%, 80%, 82% and 78%, respectively, of the total concentration with an average of 75%. Therefore, the Pre-Carbon Adjusted Field Screening Results were adjusted to 75% of the total as shown in 3rd last column of Table 1 to reflect the estimated concentration of PCE.

These estimated PCE concentrations (average between the monitoring event) were used along with the system average flow rates (average between the monitoring events) and the system operation time to estimate the PCE mass removal between monitoring events (2nd last column), the PCE mass removal per day (last column) and the total PCE mass removal since the startup (lower right hand corner). We estimate that approximately 1,340 pounds of PCE have been removed since March 3, 2009. This is approximately 37% of the total mass of PCE (3,600 pounds) estimated to be present in the subsurface, as discussed in Section 1.0.

Figure 4 is a graph of the Adjusted Pre-Carbon Field Screening Sample results versus run time of the SVE/SSD system operation in days. This graph depicts a typical scenario of diminishing returns for the operation of a SVE system over time.

4.0 SYSTEM EVALUATION AND CONCLUSIONS

An evaluation of, and conclusions regarding, SVE system operation during the reporting period are presented below.

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water at the time of the two sampling events) and higher system flow rate relative to the flow rate of the regulator.

[8] Note though we believe the Pre-Carbon Summa data may be biased low, our evaluation of the data indicates the relative concentrations of the detected compounds in these samples is representative.

4.1 SYSTEM EVALUATION

The SVE Design Report recommended that the SVE system be designed to be capable of extracting approximately 250 SCFM at an applied wellhead vacuum of 10" Hg. Laboratory data collected during the pilot test (total VOC concentrations of up to approximately 420 to 3,900 ppm during the pilot test) translate to an initial VOC mass flux rate for the system of approximately 9 to 85 pounds per day, assuming 250 SCFM. This VOC mass flux rate was expected to decrease rapidly during SVE system operation.

Operation and monitoring data collected, as shown on Table 1, indicates that the system has operated as designed. Initial flow rates (March 2 and 3, 2009) were 125 to 150 SCFM, which were below the design capabilities and was likely due to the soil moisture (initial moisture content of about 18 to 20% (SVE Design Report)) and elevated water table due to the high initial operating vacuum of the system. However, once the soil began to "dry out", the system operating vacuum has dropped off, system flow rate has increased, and water has not been observed in the moisture separator since April 2009. The SVE system generally operated at steady state condition with an approximate 3" Hg vacuum which yielded a SVE/SSD system average air flow rate of approximately 295 SCFM.

Field Screening Sample results from the PID were used to along with the operating hours and SVE flow rate to assess the PCE mass removal for this monitoring period. We estimate, as shown on Table 1, that approximately 1,340 pounds of PCE has been removed from the subsurface since the start of the system. The initial PCE removal rates for March 2009 ranged from about 55 pounds per day to 7 pounds per day and have decreased steadily over time. The estimated mass removal rate is currently less than 1 pound per day.

To date, four carbon vessels, each containing approximately 1,800 pounds of GAC have been sent to Siemens Water Technology Corporation (Siemens) in Rochester, Pennsylvania for reactivation. The efficiency removal rate of GAC for PCE removal from a dry air stream can about 10 to 15% by weight. Therefore, the carbon vessels used each can absorb about 180 to 270 pounds of PCE, before reaching saturation and break through begins to occur.

4.2 CONCLUSIONS

The SVE/SSD system generally operated on a continuous basis during the reporting period, and is effectively extracting soil vapor from the remedial area consistent with the design parameters established in the 2007 SVE Design Report. To date, approximately 1,340 pounds of PCE (the primary contaminant of concern), have been extracted from the subsurface. It has been estimated that approximately 3,600 pounds of PCE are present in the subsurface soil in the remedial zone. Therefore, about 37% of the PCE contamination has been removed.

The mass removal rate since the startup has decreased to less than 1 pound per day. The PCE Field Screening results versus time depicted on Figure 4 indicate that asymptotic

removal rates have been achieved under current operating conditions. Figure 4 also depicts the cumulative mass of PCE removed in pounds.

As a result, GZA is recommending changing the current operating conditions of the system by shutting down the extraction wells which do not produce significant air flow (EW-3, EW-9, EW-10 and EW-11). This will allow the system to direct the available extraction system capacity on the wells that are providing the greatest flow. If an increase in the mass removal is not observed in the first 2 months after the change is implemented, GZA recommends cycling the system on and off for a period of time (e.g., shutting the system down for one month and then turning the system on for one month). The actual cycling periods employed will be based on Field Screening Sample and GC Sample results. If, after multiple operating parameter adjustments are made to the system and an increase in PCE mass removal are not observed, GMCH will contact NYSDEC to discuss the feasibility of system operation and other potential options.

5.0 PROPOSED 2010 ACTIVITIES

The operation of the SVE/SSD system will be altered as discussed in Section 4.2 to improve removal efficiency. GZA will continue to perform monthly monitoring of the system and carbon vessel change outs will be scheduled as necessary. GZA will collect additional monitoring data when the system operation is altered (i.e., shut down of extraction wells or cycling of the system) to assess the effect of the changes.

In the Summer 2010, GMCH expects to begin the Brownfield Cleanup Program Remedial Investigation of Building 10 (Site ID #C932140). At that time, as part of the BCP investigation, two indoor air samples will be collected to assess the vapor intrusion concern identified as part of the Bldg 10 FEA. Additionally, six soil probes will be completed within the footprint of the SVE/SSD system to assess subsurface soil conditions and install vacuum monitoring points to assess vacuum distribution. This data along with monthly monitoring data will be used to further assess the system performance and make decisions on operating parameters. The next SVE/SSD Annual Monitoring Report is scheduled to be submitted in May 2011.

6.0 CERTIFICATION

I certify that the following statements are true related to the SVE/SSD system installed in the northern portion of Building 10:

- The operation and monitoring of the SVE/SSD system, to confirm the effectiveness of the SVE/SSD System, was performed under my direction;
- The operation of the SVE/SSD system has generally been consistent from the date it was put in place;
- No significant event, as monitored by GZA, has occurred that would impair the ability of the SVE/SSD System to protect the public health and environment;

- Access to the SVE/SSD system will continue to be provided to the Department (with valid Safety Protocol Program Card) to evaluate the SVE/SSD System remedy, including access to evaluate the continued maintenance of this system;
- The SVE/SSD system is performing as designed and is effective;
- To the best of my knowledge and belief, the work and conclusions described in this report are in accordance with generally accepted engineering practices; and
- The information presented in this report is accurate and complete.

I certify[9] that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Bart A. Klettke, P.E., of GZA GeoEnvironmental of New York, am certifying as a GMCH Representative.

BART A. KLETTKE

Printed Name

Bart A. Klettke

Signature

5-28-10

Date

[9] Certify means to state or declare a professional opinion.

TABLES

TABLE 1
SVE/SSD MONITORING SUMMARY
2009 ANNUAL SVE/SSD SYSTEM MONITORING REPORT
BUILDING 10 SVE/SSD SYTEM
GM COMPONENTS HOLDINGS, LLC
LOCKPORT, NEW YORK

DATE	RUN TIME	# OF DAYS BETWEEN READINGS	SYSTEM FLOW RATE	OPERATING VACUUM	PRECARBON MONITORING POINT			MID-CARBON MONITORING POINT			POST-CARBON MONITORING POINT			Estimated PCE Concentrations from Field Screening Results	Pound of PCE Removed Since Previous Measurement	PCE Removed in pounds per days
	hours	DAYS	SCFM	in Hg	Adjusted Field Screening Results ppmv	Detector Tube ppm	Total VOCs from Lab Analysis or GC Screen Total VOC / PCE Conc. ppmv	Adjusted Field Screening Results ppmv	Detector Tube ppm	Total VOCs from Lab Analysis or GC Screen Total VOC / PCE Conc. ppmv	Adjusted Field Screening Results ppmv	Detector Tube ppm	Total VOCs from Lab Analysis or GC Screen Total VOC / PCE Conc. ppmv	See Note 1 ppm	See Note 9 pounds	pounds
3/2/2009	4		125	12.5	143									107		
3/3/2009	30	1.1	150	11	855			0.4			0.4			641	**34**	31.4
3/6/2009	98	2.8	280	4.5	257			0.9			0.5			192	**155**	54.6
3/9/2009	168	2.9	300	5	54			0.3			0.3			41	**60**	20.6
3/13/2009	252	3.5	325	4	48	15	2.9 / 1.6 [2]	0.9		1.3 / 0.003 [1]	0.5		1.6 / 0.003 [1]	36	**58**	16.6
3/20/2009	432	7.5	325	3.5	39			1.1			0.6			29	**49**	6.5
3/27/2009	529	4.0	270	8.5	114			1.3			0.3			86	**42**	10.4
3/30/2009	576		300	1.5				0.0								
4/9/2009	766	9.9	320	2.75	29	19	3.8 / 3.2 [3]	0.6	ND	0.17 / 0.004 [2]	1.1		0.12 / 0.001 [2]	21	**100**	10.1
4/17/2009	958	8.0	315	3	47			0.7			0.5			35	**44**	5.5
4/27/2009	1,203	10.2	330	4.5	23			0.5			0.5			17	**52**	5.1
5/8/2009	1440	9.9	315	5	26			0.6			0.2			20	**36**	3.6
5/14/2009						25		0.0	0.6							
5/29/2009	1,945	21.0	280	3	30			7.4	5.5 [3]		0.4			22	**80**	3.8
6/12/2009	2,280	14.0	350	3	22	25 [4]		0.3			0.2			16	**52**	3.7
6/25/2009	2,594	13.1	330	3	23			0.9			0.5			18	**46**	3.5
7/10/2009	2,953	15.0	340	3.25	33			1.7			0.3			25	**65**	4.3
8/3/2009	3,528	24.0	310	3	19			10.8	15		1.1	0.5		15	**93**	3.9
2/8/2010	8,064	189.0	285	2.5	5	6	11.6 / 7.1	2.9	5	6 / 5.9	0.9	1.25	1.5 1.3	4	**315**	1.7
3/16/2010	8,928	36.0	335	4	6	7	9.8 / 8.0	2.9	7.5	6.7 / 5.6	0.3	ND	0.9 / ND	4	**28**	0.8
4/23/2010	9,840	38.0	310	3	5	7	9.2 / 7.2	2.4	5	6.0 / 5.4	0.3	ND	ND / ND	3	**30**	0.8
															1337	
															pounds of PCE removed	

Notes
1 - Estimated PCE concentrations were determined assuming 75% of total VOCs was related to PCE concentrations and usinga 0.57 correction factor on the PID reading
2 - Laboratory analysis performed by Con-Test Lasboratory
3 - Laboratory analysis performed by Centek Laboratory
4 - Detector tube measurement collected on 5/28/2009.
5 - Detector tube measurement collected on 6/15/2009.

TABLE 2
SUMMARY OF AIR SAMPLE RESULTS
BUILDING 10 SVE/SSD SYSTEM
GM COMPONENTS HOLDINGS, LLC
LOCKPORT, NEW YORK

March 13, 2009 TO-15 Data from Con-Test Laboratory & Detector Tube Readings

Compounds	PRE CARBON	MID CARBON	POST CARBON
Volatile Organic Compounds via USEPA Method T0-15 (ppbv)			
Acetone	140	740	910
Benzene	1.8	1.4	1.5
2-Butanone (MEK)	1.7	1.4	1.2
Chloroform	1.7		
Cyclohexane	6.7	2.6	2.6
1,1-Dichloroethylene	13	1.3	
cis-1,2-Dichloroethylene	290	2.9	
Ethanol	340	200	220
Ethylbenzene		7	8
4-Ethyl Toluene		2.8	3.2
n-Heptane	11	3.9	4.3
Hexane	110	190	230
Isopropanol	8.4	6.9	7.5
Methylene Chloride	3.5	1.7	
Tetrachloroethylene	1,600	2.7	2.9
Tetrahydrofuran	1.3		
Toluene	38	120	140
1,1,2-Trichloroethane	1.1		
Trichloroethylene	330	7.6	
1,2,4-Trimethylbenzene		4.4	4.8
1,3,5-Trimethylbenzene		2	2.3
m/p-Xylene		22	26
o-Xylene		6.3	7.1
Total VOC (ppbv)	2,917	1,327	1,571
OVM field screening results (ppb)	85,000	1,500	800
Detector Tubes (ppm)	15	0	NM

April 9, 2009 TO-15 Data from Centek Laboratory & Detector Tube Readings

Compounds	PRE CARBON	MID CARBON	POST CARBON
Volatile Organic Compounds via USEPA Method T0-15 (ppbv)			
Acetone	210	68	59
Benzene	0.86	0.25	0.2
2-Butanone (MEK)		13	
Chloroform	1.3	0.11	
Cyclohexane	7.3	1.5	
1,1-Dichloroethylene	3.8	21	
cis-1,2-Dichloroethylene	100	1.1	0.12
trans-1,2-dichloroethylene	8.4	0.38	
Ethylbenzene	0.27	0.15	0.13
4-Ethyl Toluene	0.11		
n-Heptane	5.8	2	1.3
Hexane	92	17	20
Methylene Chloride	5	6.1	15
Tetrachloroethylene	3,200	3.7	0.88
Toluene	68	33	23
1,1,2-Trichloroethane	0.54		
Trichloroethylene	97	0.25	0.15
1,2,4-Trimethylbenzene	0.25	0.14	
1,3,5-Trimethylbenzene	0.1		
m/p-Xylene	1.6	0.41	0.29
o-Xylene	0.41	0.12	
Vinyl Chloride	0.21	0.21	0.21
Styrene	0.14		
Methyl isobutyl ketone		0.25	
Ispropyl alcohol	21	14	11
Freon 11	0.26	0.56	0.13
Freon 12	0.46	0.44	0.5
Ethyl Acetate	2.5	1.7	0.97
Chloromethane	0.4	0.33	0.43
Carbon Disulfide	0.34	0.64	0.15
1,4-Dichlorobenzene	0.39	0.3	0.28
Total VOC (ppbv)	3,803	168	120
OVM field screening results (ppb)	50,000	1,000	2,000
Detector Tubes (ppm)	19	0	NM

Notes: 1) Detector Tube readings are for tetracloroethylene concentrations.
2) NM - not measured.
3) Blank indicates compound was detected below method detection limits.
4) ppbv - pars per billion by volume.
5) ppb - parts per billion.
6) ppm - parts per million.

FIGURES

NORTH

LEGEND:

INDICATES BUILDING 10 FOOTPRINT

APPROXIMATE LOCATION OF SVE/SSD SYSTEM

NOTES:

1. BASE MAP ADAPTED FROM A 2005 AERIAL PHOTOGRAPH DOWNLOADED FROM http://www.nysgis.state.ny.us/gateway/mg/interactive_main.html AND SITE OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

DRAWN BY: DEW

DATE: MAY 2010

GZA GeoEnvironmental of New York

APPROXIMATE SCALE IN FEET

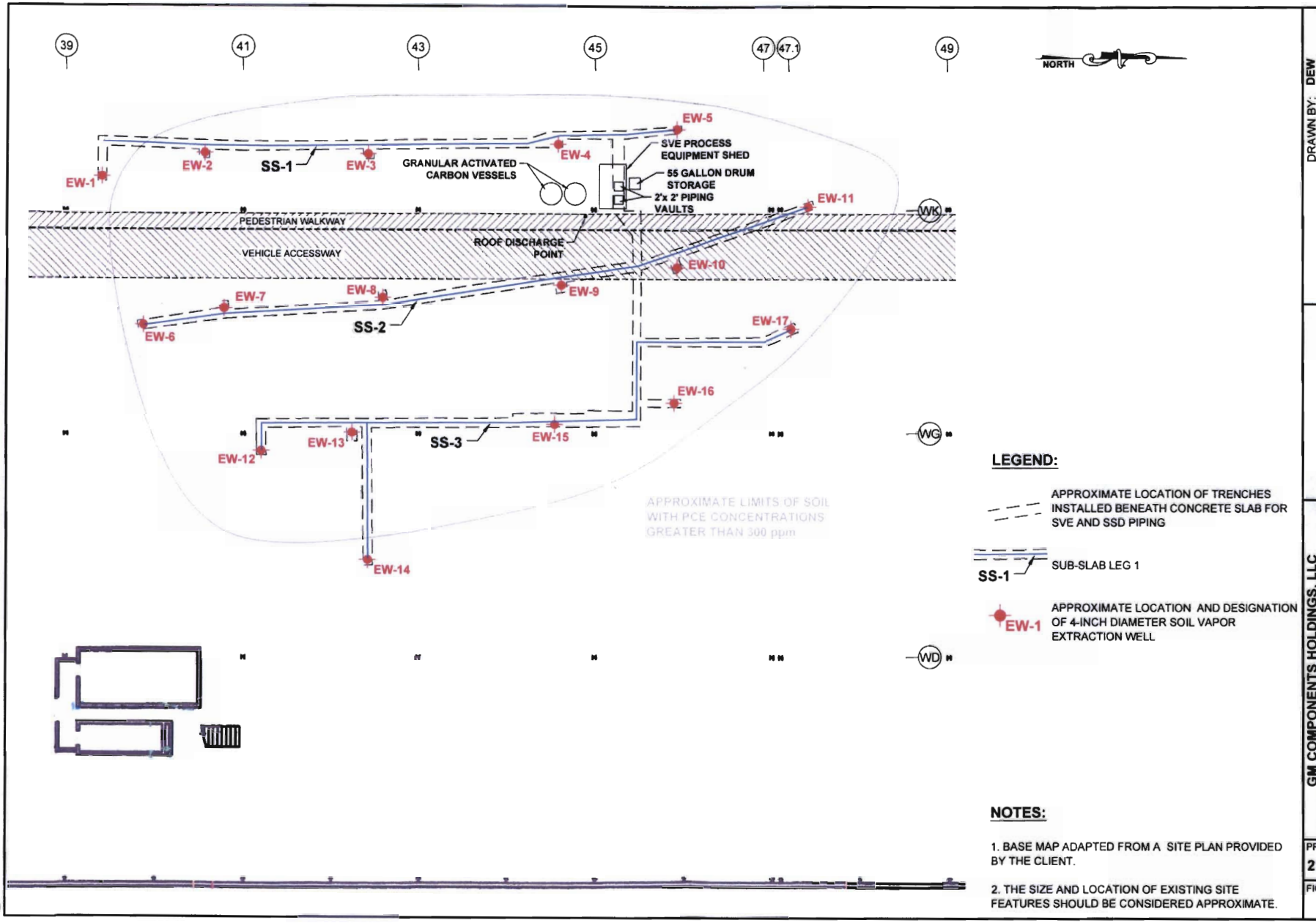
0 200 400 800

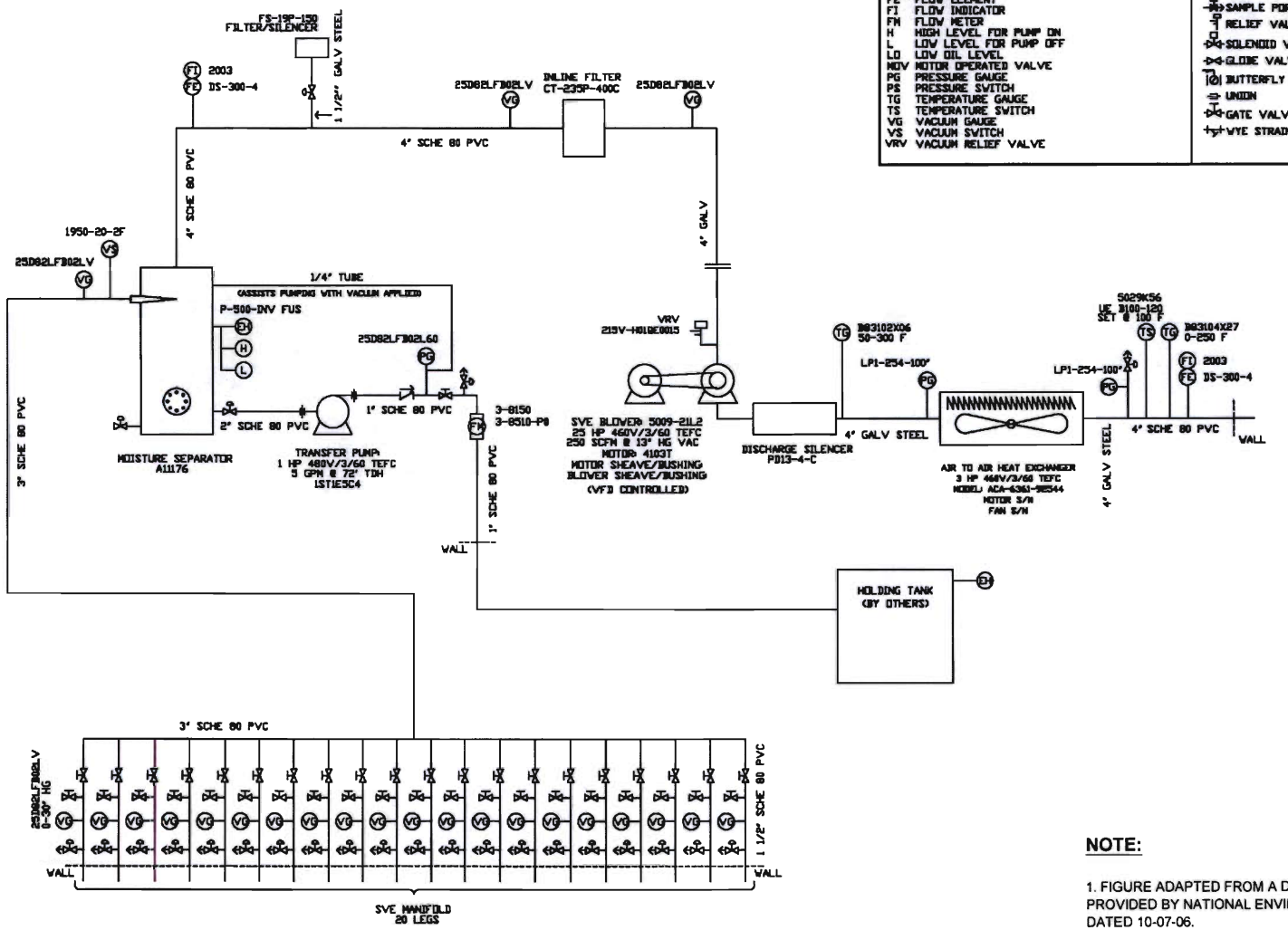
GM COMPONENTS HOLDINGS, LLC
LOCKPORT FACILITY
200 UPPER MOUNTAIN ROAD, LOCKPORT, NEW YORK
BUILDING 10

SVE / SSD SYSTEM 2009 MONITORING REPORT
SITE PLAN

PROJECT No. 21.0056546.00

FIGURE No. 1





NOTE:

1. FIGURE ADAPTED FROM A DRAWING DEVELOPED AND PROVIDED BY NATIONAL ENVIRONMENTAL SYSTEMS, DATED 10-07-06.

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DATE: MAY 2010

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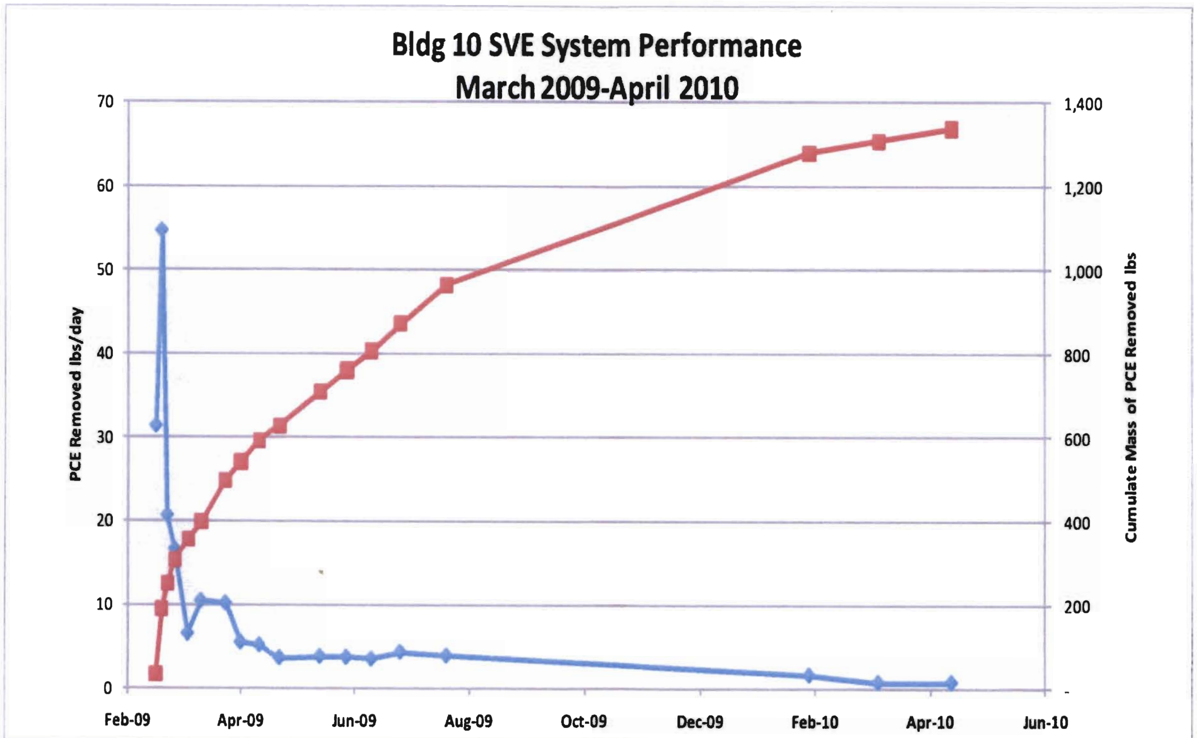
LOCKPORT FACILITY
200 UPPER MOUNTAIN ROAD, LOCKPORT, NEW YORK
BUILDING 10

SVE / SSD SYSTEM 2009 MONITORING REPORT
SVE / SSD SYSTEM PROCESS AND INSTRUMENTATION DIAGRAM

PROJECT No.
21.0056546.00

FIGURE No.
3



DRAWN BY: DEW

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LOCKPORT FACILITY
200 UPPER MOUNTAIN ROAD, LOCKPORT, NEW YORK
BUILDING 10

SVE / SSD SYSTEM 2009 MONITORING REPORT
BLDG 10 SVE SYSTEM PERFORMANCE
MARCH 2009 - APRIL 2010

PROJECT No.
21.0056546.00

FIGURE No.
4

APPENDIX A

PCE MASS CALCULATIONS

GZA GeoEnvironmental of New York
Engineers and Scientists

Project GMHC Bldg 10 SVE/SSD System			File No. 21.0056546.0
Location Lockport NY	Date 5/5/10	By	CL.
Subject Ave PCE Conc. in SVE Footprint	Checked 5/6/10	By	DJT
Based on Lab Data.	Revised	By	

17 Soil Samples were collected from within the SVE area footprint as follows w/ PCE conc.

SP-1: 0-2 ft : 72 ppm
2-4 : 119
4-6 : 177
6-8 : 506

SP-2: 2-4 ft : 5 ppm

SP-3 2-4 ft. 770 ppm

SP-4: 6-7.1 ft 447 ppm

SP-7: 4-6 ft 297 ppm

SP-13 4-6 ft : 260 ppm
6-8 ft : 105 ppm

SP-14 : 2-4 ft : 25 ppm
4-6 ft. 1,120 ppm

SP-15 : 6-8 ft : 5 ppm
8-9 ft : 4 ppm

SP-20 0-2 ft. 28 ppm
2-4 ft : 1075 ppm
4-6 ft : 1090 ppm

Ave PCE Conc : 359 ppm

Say 360 ppm

GZA GeoEnvironmental of New York
Engineers and Scientists

Project GMHC TSldg 10 SVE/SSD			File No. 21.0056546.0
Location Lockport NY	Date 5/5/10	By	cb.
Subject Mass of PCE in Unsaturated Soil	Checked 5/6/10	By	DJT
Based on	Revised	By	

Mass of PCE in unsaturated soil to be addressed w/ SVE System in TSldg 10

- Area to be addressed is ~14,000 sq. ft.
- Assume Unsaturated soil thickness is 6.0 ft. (6.5 ft to water table − 0.5 ft for concrete + fill)
- Assume 360 ppm PCE average soil concentration.
- Assume 10% of volume contains utilities

$14{,}000 \text{ sq ft} \times 6 \text{ ft} = 84{,}000 \text{ ft}^3 \; (3{,}111 \text{ yds}^3)$

$3{,}111 \text{ yds}^3 \times 0.90 = 2{,}800 \text{ yd}^3 \text{ (vol. w/out utilities)}$

$2{,}800 \text{ yds}^3 * 1.6 \text{ tons/yd}^3 = 4{,}480 \text{ tons of soil}$

$4{,}480 \text{ tons} * 1{,}016 \text{ kg/ton} = 4{,}551{,}680 \text{ kg}$

$360 \text{ mg/kg} * 4{,}551{,}680 \text{ kg} = 1{,}638{,}604{,}800 \text{ mg}$

$1{,}638{,}604{,}800 \text{ mg} * 2.2046 \times 10^{-6}$ (convert mg to pounds) $= 3{,}613 \text{ pounds}$

Say 3,600 lbs of PCE

GZA GeoEnvironmental of New York
Engineers and Scientists

Project GMCH Bldg 10 SVE/SSD System			File No. 21.0056546.0
Location Lockport, NY	Date 5/5/10	By	clo
Subject PCE Removal Rate Calc.	Checked 5/6/10	By	DJT
Based on	Revised	By	

Pounds of PCE Removed by SVE Sys for Time Period 3/6/09 → 3/9/09.

Days between Readings: 2.9 days.

Ave System Flow between Readings: (300 scfm + 280 scfm) ÷ 2

290 scfm

Estimate Average PCE Conc. between Readings: $\frac{41 \text{ ppmv} + 192 \text{ ppmv}}{2}$

= 117 ppmv

2.9 days * 290 scfm * 24 $\frac{\text{hrs}}{\text{day}}$ * 60 $\frac{\text{min}}{\text{hr}}$

= 1,211,040 ft^3

1,211,040 ft^3 * 0.02832 (convert ft^3 to m^3) = 34,297 m^3

117 ppmv * 6.78 (convert ppmv to mg/m^3) = 793 mg/m^3

34,297 m^3 * 793 mg/m^3 = 27,197,521 mg

(27,198 g)

27,198 g * 0.002205 (convert g to pounds) = **60 pounds PCE REMOVED**

APPENDIX B

MONITORNG FORMS

(JUNE 2009 – APRIL 2010)

ROUTINE MONITORING FORM

OPERATION AND MAINTENANCE GUIDANCE DOCUMENT
SVE/SSD SYSTEM
DELPHI
LOCKPORT, NEW YORK

Name [illegible] Time On-Site 945 Time Off-Site 1045

Date 6/25/03 SVE Blower Run Time 2593.8 hours VDF 60.0 hertz

SYSTEM STATUS

SVE System Operating:	(YES) NO	If no:	
Alarm lights off.	(YES) NO	If no.	
Autodialer Alarm On:	YES (NO)	If Yes:	

Postion of Swing Panel HOA Switches:

Control Power Switch	(ON) OFF	SVE Blower Switch	HAND OFF (AUTO)
M/S Effluent Pump Switch	HAND (OFF) AUTO	Heat Exchanger Switch	HAND OFF (AUTO)
Heat Exchanger Operating	(YES) NO	If no:	
SVE System appear to be operating properly?	(YES) NO	If no:	

Moisture Separator Tank Level: (Empty) 1/4 Full 1/2 Full 3/4 Full Full Volume Tranfered: gals

SYSTEM MONITORING READINGS

Vacuum Gauge Pre-Inline Filter	3	in Hg
Vacuum Gauge Post-Inline Filter	3	in Hg
Temperature on Discharge Silencer	115	°F
Temperature after Heat Exchanger	82	°F
Pressure Before Heat Exchanger	36	in H_2O
Pressure Magnehelic Gauge.	2.5	in H_2O
Vacuum Magnehelic Gauge:	>2	in H_2O
Vacuum Gauge After Manifold	1	in Hg

System Monitoring Notes:
Pre Carbon Sample Port appears to be leaking. [illegible]

EXTRACTION WELL VACUUM GAUGE READINGS

EW-1.	1.5	in Hg	EW-11	1.0	in Hg
EW-2.	1.0	in Hg	EW-12	1.0	in Hg
EW-3.	0.5	in Hg	EW-13	2.5	in Hg
EW-4	2.5	in Hg	EW-14	1.0	in Hg
EW-5:	1.0	in Hg	EW-15	1.0	in Hg
EW-6.	0.5	in Hg	EW-16	1.0	in Hg
EW-7	1.0	in Hg	EW-17	0.5	in Hg
EW-8:	1.0	in Hg	SS-1	2.5	in H2O
EW-9	0.5	in Hg	SS-2	2.0	in H2O
EW-10	1.0	in Hg	SS-3	2.0	in H2O

Vaccum Gauge Reading Notes:

AIR FLOW FIELD SCREENING

Background Outside SVE Shed:	NM	ppm
Background Inside SVE Shed.	NM	ppm
Pre Carbon Discharge	41	ppm
Mid Carbon Discharge.	1.6	ppm
Post Carbon Discharge	0.9	ppm

Detector Tube Readings

Pre Carbon	YES (NO)	ppm
Mid Carbon	YES (NO)	ppm
Post Carbon	YES (NO)	ppm

Additional Notes:
[illegible]

ROUTINE MONITORING FORM

OPERATION AND MAINTENANCE GUIDANCE DOCUMENT
SVE/SSD SYSTEM
DELPHI
LOCKPORT, NEW YORK

Name:	Chris Bowen	Time On-Site:	915
Time Off-Site:	1020		
Date:	7/10/02	SVE Blower Run Time:	29534 hours
VDF:	60.0 hertz		

SYSTEM STATUS

SVE System Operating:	(YES)	NO	If no:
Alarm lights off:	(YES)	NO	If no:
Autodialer Alarm On:	YES	(NO)	If Yes:

Postion of Swing Panel HOA Switches:

Control Power Switch	(ON)		OFF	SVE Blower Switch	HAND	OFF	(AUTO)
M/S Effluent Pump Switch	HAND	(OFF)	AUTO	Heat Exchanger Switch	HAND	OFF	(AUTO)
Heat Exchanger Operating	(YES)		NO	If no:			
SVE System appear to be operating properly?	(YES)		NO	If no:			
Moisture Separator Tank Level:	(Empty)	1/4 Full	1/2 Full	3/4 Full	Full	Volume Tranfered:	Ø gals

SYSTEM MONITORING READINGS

Vacuum Gauge Pre-Inline Filter:	3.25	in Hg
Vacuum Gauge Post-Inline Filter:	3.25	in Hg
Temperature on Discharge Silencer:	112	° F
Temperature after Heat Exchanger:	80	° F
Pressure After Heat Exchanger	26	in H_2O
Pressure Before Heat Exchanger	35	in H_2O
Pressure Magnehelic Gauge:	2.5	in H_2O
Vacuum Magnehelic Gauge:	>2	in H_2O
Vacuum Gauge After Manifold:	1	in Hg

System Monitoring Notes:

EXTRACTION WELL VACUUM GAUGE READINGS

EW -1:	0.5	in Hg	EW-11:	1.0	in Hg
EW-2:	1.0	in Hg	EW-12:	1.0	in Hg
EW-3:	0.75	in Hg	EW-13:	0.5	in Hg
EW-4:	0.75	in Hg	EW-14:	1.25	in Hg
EW-5:	1.0	in Hg	EW-15:	1.0	in Hg
EW-6:	0.5	in Hg	EW-16:	1.0	in Hg
EW-7:	1.0	in Hg	EW-17:	0.5	in Hg
EW-8:	1.0	in Hg	SS-1:	2.5	in H2O
EW-9:	0.75	in Hg	SS-2:	2.0	in H2O
EW-10:	1.0	in Hg	SS-3:	2.0	in H2O

Vaccum Gauge Reading Notes:

AIR FLOW FIELD SCREENING

Background Outside SVE Shed:	NM	ppm
Background Inside SVE Shed:	NM	ppm
Pre Carbon Discharge:	58	ppm
Mid Carbon Discharge:	3	ppm
Post Carbon Discharge:	0.5	ppm

Detector Tube Readings

Pre Carbon	YES	(NO)	ppm
Mid Carbon	YES	(NO)	ppm
Post Carbon	YES	(NO)	ppm

Additional Notes:

ROUTINE MONITORING FORM

OPERATION AND MAINTENANCE GUIDANCE DOCUMENT
SVE/SSD SYSTEM
DELPHI
LOCKPORT, NEW YORK

Name: Chris Baron	Time On-Site: 810	Time Off-Site: 1030	
Date: 8/3/09	SVE Blower Run Time: 3,528 hours	VDF: 60 hertz	

SYSTEM STATUS

SVE System Operating:	(YES)	NO	If no:
Alarm lights off:	(YES)	NO	If no:
Autodialer Alarm On:	YES	(NO)	If Yes:

Postion of Swing Panel HOA Switches:

Control Power Switch	(ON)		OFF	SVE Blower Switch	HAND	OFF	(AUTO)
M/S Effluent Pump Switch	HAND	(OFF)	AUTO	Heat Exchanger Switch	HAND	OFF	(AUTO)
Heat Exchanger Operating	(YES)	NO		If no:			
SVE System appear to be operating properly?	(YES)	NO		If no:			
Moisture Separator Tank Level:	(Empty)	1/4 Full	1/2 Full	3/4 Full	Full	Volume Tranfered:	gals

SYSTEM MONITORING READINGS

Vacuum Gauge Pre-Inline Filter:	5	in Hg
Vacuum Gauge Post-Inline Filter	3	in Hg
Temperature on Discharge Silencer:	125	°F
Temperature after Heat Exchanger:	80	°F
Pressure After Heat Exchanger	21	in H_2O
Pressure Before Heat Exchanger	29	in H_2O
Pressure Magnehelic Gauge:	2.1	in H_2O
Vacuum Magnehelic Gauge:	>2	in H_2O
Vacuum Gauge After Manifold:	1	in Hg

System Monitoring Notes:
Filter needs to be changed.
Pre-Carbon Sample Port Ball Valve needs to be changed. Small Leak.

EXTRACTION WELL VACUUM GAUGE READINGS

EW -1:	0.5	in Hg	EW-11:	1	in Hg
EW-2:	1	in Hg	EW-12:	1	in Hg
EW-3:	0.75	in Hg	EW-13:	<0.5	in Hg
EW-4:	0.5	in Hg	EW-14:	1.25	in Hg
EW-5:	1	in Hg	EW-15:	1	in Hg
EW-6:	0.5	in Hg	EW-16:	1	in Hg
EW-7:	1	in Hg	EW-17:	0.5	in Hg
EW-8:	1	in Hg	SS-1:	2	in H2O
EW-9:	0.5	in Hg	SS-2:	2.5	in H2O
EW-10:	1	in Hg	SS-3:	2	in H2O

Vaccum Gauge Reading Notes:
System balancing should be done after Carbon Vessel and Filter change out are completed.

AIR FLOW FIELD SCREENING

Background Outside SVE Shed:	0	ppm
Background Inside SVE Shed:	0.2	ppm
Pre Carbon Discharge:	34	ppm
Mid Carbon Discharge:	19	ppm
Post Carbon Discharge:	2.0	ppm

Detector Tube Readings

Pre Carbon	YES	(NO)	NM	ppm
Mid Carbon	(YES)	NO	15	ppm
Post Carbon	(YES)	NO	0.5	ppm

Additional Notes: Carbon Vessel #1, Lead Vessel needs to be changed. Small Leak noted at top of Ferule Fitting on clear tubing from Lead Vessel to Polishing Vessel. Ferrule and tubing should be refit and tightened.

ROUTINE MONITORING FORM

OPERATION AND MAINTENANCE GUIDANCE DOCUMENT
SVE/SSD SYSTEM
DELPHI
LOCKPORT, NEW YORK

Name: Chris Bacon Time On-Site: 1250 Time Off-Site: 1755

Date: 2-8-10 SVE Blower Run Time: 6,628.2 hours VDF 60 hertz

SYSTEM STATUS

SVE System Operating:	(YES)	NO	If no:
Alarm lights off:	(YES)	NO	If no:
Autodialer Alarm On:	YES	(NO)	If Yes.

Postion of Swing Panel HOA Switches:

Control Power Switch	(ON)		OFF	SVE Blower Switch	HAND	OFF	(AUTO)
M/S Effluent Pump Switch	HAND	(OFF)	AUTO	Heat Exchanger Switch	HAND	OFF	(AUTO)
Heat Exchanger Operating	(YES)		NO	If no:			
SVE System appear to be operating properly?	(YES)		NO	If no:			

Moisture Separator Tank Level: (Empty) 1/4 Full 1/2 Full 3/4 Full Full Volume Tranfered: gals

SYSTEM MONITORING READINGS

Vacuum Gauge Pre-Inline Filter:	7.5	3	in Hg
Vacuum Gauge Post-Inline Filter:	2.5	3	in Hg
Temperature on Discharge Silencer:	60	50	°F
Temperature after Heat Exchanger:	79	75	°F
Pressure After Heat Exchanger	36	42	in H_2O
Pressure Before Heat Exchanger	35	54	in H_2O
Pressure Magnehelic Gauge:	1.7	2.6	in H_2O
Vacuum Magnehelic Gauge:	1.78	>2	in H_2O
Vacuum Gauge After Manifold.	<1	1	in Hg

System Monitoring Notes: In-line filter was changed due to >1" Hg Readings between Pre and Post Filter gauges. Pre and post filter change readings were recorded. Batteries in the Autodialer were replaced.

EXTRACTION WELL VACUUM GAUGE READINGS

EW-1	<0.5	<0.5	in Hg	EW-11.	<0.5	1	in Hg
EW-2.	<0.5	1	in Hg	EW-12:	<0.5	1	in Hg
EW-3:	<0.5	0.5	in Hg	EW-13:	<0.5	<0.5	in Hg
EW-4:	<0.5	<0.5	in Hg	EW-14:	<0.5	1	in Hg
EW-5:	<0.5	0.75	in Hg	EW-15:	<0.5	1	in Hg
EW-6:	<0.5	<0.5	in Hg	EW-16:	<0.5	1	in Hg
EW-7:	<0.5	0.75	in Hg	EW-17:	<0.5	<0.5	in Hg
EW-8:	<0.5	<0.5	in Hg	SS-1	1	2.25	in H2O
EW-9:	<0.5	<0.5	in Hg	SS-2:	1	1.5	in H2O
EW-10:	<0.5	1	in Hg	SS-3:	1	1.5	in H2O

Vaccum Gauge Reading Notes: Pre and post filter change readings were recorded.

AIR FLOW FIELD SCREENING

Background Outside SVE Shed:	0.3	ppm
Background Inside SVE Shed:	0.4	ppm
Pre Carbon Discharge:	9.0	ppm
Mid Carbon Discharge:	5.1	ppm
Post Carbon Discharge.	1.10	ppm

Detector Tube Readings

Pre Carbon	(YES)	NO	6	ppm
Mid Carbon	(YES)	NO	5	ppm
Post Carbon	(YES)	NO	1.25	ppm

Additional Notes:
Lead Carbon Vessel needs to be changed out.
Leak at Fernco fitting between Carbon Vessel (above mid pt. sampling location)
Latex Gloves needed for shed. Tedlar bag air samples sent to H+A for GC screening (See attached results)

GM LOCKPORT
BLDG 10 SVE/SSD
SUMMARY OF GC SCREENING RESULTS
36795-000

	2/8/2010			
Target Compound	Pre-Carbon (mg/m^3)	Pre-Carbon DUP (mg/m^3)	Mid-Carbon (mg/m^3)	Post-Carbon (mg/m^3)
Methane	0.013 U	0.013 U	0.013 U	0.013 U
Vinyl chloride	**0.504**	0.018 U	0.018 U	**0.500**
1,1-Dichloroethene	0.036 U	0.036 U	0.036 U	0.036 U
Methylene chloride	0.075 U	0.075 U	0.075 U	0.075 U
trans 1,2-Dichloroethene	0.037 U	0.037 U	0.037 U	0.037 U
1,1-Dichloroethane	0.033 U	0.033 U	0.033 U	0.033 U
MTBE	0.014 U	0.014 U	0.014 U	0.014 U
2-Butanone (MEK)	0.016 U	0.016 U	0.016 U	0.016 U
cis 1,2-Dichloroethene	0.047 U	0.047 U	0.047 U	0.047 U
Chloroform	**4.69**	**4.51**	0.130 U	0.130 U
1,1,1-Trichloroethane	0.043 U	0.043 U	0.043 U	0.043 U
Benzene	0.009 U	0.009 U	0.009 U	0.009 U
1,2-Dichloropropane	0.027 U	0.027 U	0.027 U	0.027 U
Trichloroethene	**0.557**	**0.564**	**0.772**	0.042 U
Toluene	0.009 U	0.009 U	0.009 U	0.009 U
Tetrachloroethene	**48.1**	**48.3**	**40.4**	**8.80**
Chlorobenzene	0.012 U	0.012 U	0.012 U	0.012 U
Ethylbenzene	0.008 U	0.008 U	0.008 U	0.008 U
m/p-Xylene	0.009 U	0.009 U	0.009 U	0.009 U
o-Xylene	0.007 U	0.007 U	0.007 U	0.007 U
Unknown TPH	**6.00**	**6.00**	0.020 U	0.020 U
Flow Rate (SCFM)	280	280	280	280
Mass Rate (lb/hr)	0.063	0.062	0.043	0.010
Mass Rate (lb/day)	1.51	1.49	1.04	0.23
Removal Efficiency (Pre to Mid)	31.3%			
Removal Efficiency (Pre to Post)	84.5%			

GC Screening Results in ppm/v 7.4 6 1.5

Field Screening Results 9 ppm 5.1 ppm 1.6 ppm

Detector Tube Results for PCE. 6 ppm 5 ppm 1.25 ppm

2/8/10 Flow Readings Collected from individual legs of the SVE/SSD System.

Location	Initial Flow Rate	Adj Flow Rate	
8	24.5 cfm	18.1	
9	1.4*	2.5	
10	1.7*	3.1	
5	27.6	18.6	
4	28.9	19.1	
13	13.5	18.7	Pre Carbon Field Screen
14	9.8*	12.9	Result after adj. 15.5 ppm
15	14.7	19.0	
6	20.7	19.3	Flow Rate after Filter
7	20.5	17.6	Change Out + Balance Flow
3	6.6*	8.4	based on Pressure Gauge
2	16.8	20.1	Pitot Tube: 349 SCFM
1	18.7	18.7	or 315 ACFM
11	1.6*	4.3	* Flow Valve Wide Open
12	19.4	17.7	
16	17.5	18.0	
17	13.7	19.8	
SVE total:	257.9 cfm	253.4 cfm	
SS-1	~~8.7~~	3.0	
SS-2	12.6	~~8~~ 2.1	
SS-3	8.0	~~8~~ 2.0	
SSD Total	25.3 cfm	7.1 cfm	
System Total:	282.9 cfm	260.5 cfm	

284 SCFM: Flow Rate based on System Pressure Gauge Pitot Tube before Filter Change Out

Well Locations

>20 cfm High Flow: 4, 5, 6, 7, 8

10-20 cfm Med Flow: 1, 2, 12, 15, 16, 17, 13, ~~14~~

<10 cfm Low Flow: 3, 9, 10, 11, 14

TOTAL System Ave : 14.1 cfm
Sys Average w/out SSD Legs : 15.2 cfm
Sys Ave w/out Low Flow (246.6/13): 19 cfm

Gauge Readings Prior Leaving:

Manifold Vacuum Gauge: 1.5" Hg
Pressure Gauge: >2" H_2O
Pre Filter: 2.5" H_2O
Post Filter: 3.9" Hg
Post Filter: 4.0" Hg
Post Heat Ex Temp 73° F
Post Heat Ex Pressure 44" H_2O

ROUTINE MONITORING FORM

OPERATION AND MAINTENANCE GUIDANCE DOCUMENT
SVE/SSD SYSTEM
GM COMPONENTS HOLDINGS, LLC
LOCKPORT, NEW YORK

Name: Chris Brown	Time On-Site: 805	Time Off-Site: 1040	
Date: 3/16/16	SVE Blower Run Time: 6,622.2 hours	VDF: 60.0 hertz	

SYSTEM STATUS

SVE System Operating:	(YES)	NO	If no:
Alarm lights off:	(YES)	NO	If no:
Autodialer Alarm On:	YES	(NO)	If Yes.

Postion of Swing Panel HOA Switches:

Control Power Switch	(ON)		OFF	SVE Blower Switch	HAND	OFF	(AUTO)
M/S Effluent Pump Switch	HAND	(OFF)	AUTO	Heat Exchanger Switch	HAND	OFF	(AUTO)
Heat Exchanger Operating		(YES)	NO	If no:			
SVE System appear to be operating properly?		YES	NO	If no:			
Moisture Separator Tank Level:	(Empty)	1/4 Full	1/2 Full	3/4 Full	Full	Volume Tranfered:	0 gals

SYSTEM MONITORING READINGS

Vacuum Gauge Pre-Inline Filter:	4	in Hg
Vacuum Gauge Post-Inline Filter:	4.5	in Hg
Temperature on Discharge Silencer	113	°F
Temperature after Heat Exchanger:	72	°F
Pressure After Heat Exchanger	29	in H_2O
Pressure Before Heat Exchanger	36	in H_2O
Pressure Magnehelic Gauge:	2.4	in H_2O
Vacuum Magnehelic Gauge:	>2	in H_2O
Vacuum Gauge After Manifold:	1.5	in Hg

System Monitoring Notes:

Flow Rate Based on Pressure Gauge: 337 cfm
Flow Rate Based on Vacuum Gauge: 290 cfm

EXTRACTION WELL VACUUM GAUGE READINGS

EW -1:	>1	in Hg	EW-11	1	in Hg
EW-2:	1.25	in Hg	EW-12:	1	in Hg
EW-3:	1	in Hg	EW-13:	1	in Hg
EW-4:	>1	in Hg	EW-14:	1.5	in Hg
EW-5:	>1	in Hg	EW-15:	1	in Hg
EW-6:	>1	in Hg	EW-16:	1	in Hg
EW-7:	>1	in Hg	EW-17:	1	in Hg
EW-8:	>1	in Hg	SS-1	1	in H2O
EW-9:	1.25	in Hg	SS-2:	1	in H2O
EW-10:	1.5	in Hg	SS-3:	1	in H2O

Vaccum Gauge Reading Notes:

AIR FLOW FIELD SCREENING

Background Outside SVE Shed:	0.3	ppm
Background Inside SVE Shed:	0.5	ppm
Pre Carbon Discharge:	10.5	ppm
Mid Carbon Discharge:	5	ppm
Post Carbon Discharge:	0.5	ppm

Detector Tube Readings

Pre Carbon	(YES)	NO	7 ppm
Mid Carbon	(YES)	NO	7.5 ppm
Post Carbon	(YES)	NO	<0.2 ppm

Additional Notes:

Tedlar bag samples collected from Pre Carbon, Mid Carbon + Post Carbon & sent to H+A for analysis.

GAS CHROMATOGRAPHY REPORT SHEET
SCREENING RESULTS
DIRECT INJECT

Date of Analysis: 17-Mar-10

Client: GM Lockport
File No: 36795-000
Sample Type: BLDG-10 SVE/SSD

0.500

Operator: TJV
QA/QC: DMC

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Pre-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 3/16/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	14.356	14.050	2.7	1.733	3.47	mg/m^3	0.71	ppmV	0.00	0.09	5.40	
Flow = 260 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316	19.045	1.2	0.261	0.52	mg/m^3	0.10	ppmV	0.00	0.01	0.81	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419	24.162	121.5	27.096	54.19	mg/m^3	7.99	ppmV	0.06	1.36	84.44	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			30.0	3.000	6.00	mg/m^3	1.05	ppmV	0.01	0.15	9.35	
			total volatiles			155		**64.2**	mg/m^3	**9.8**	ppmV	**0.07**	**1.62**	**100.00**	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Mid-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 3/16/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	14.356			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Flow = 260 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316	19.089	3.3	0.707	1.41	mg/m^3	0.26	ppmV	0.00	0.04	3.19	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419	24.200	85.0	18.958	37.92	mg/m^3	5.59	ppmV	0.04	0.95	85.53	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			25.0	2.500	5.00	mg/m^3	0.87	ppmV	0.01	0.13	11.28	
			total volatiles			113		**44.3**	mg/m^3	**6.7**	ppmV	**0.05**	**1.12**	**100.00**	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Mid-Carbon (DUP)	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 3/16/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	14.356			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Flow = [illegible] SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316	18.996	3.2	0.678	1.36	mg/m^3	0.25	ppmV	0.00	0.03	3.38	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419	24.107	73.3	16.346	32.69	mg/m^3	4.82	ppmV	0.03	0.82	81.63	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			30.0	3.000	6.00	mg/m^3	1.05	ppmV	0.01	0.15	14.98	
			total volatiles			106		**40.0**	mg/m^3	**6.1**	ppmV	**0.04**	**1.01**	**100.00**	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Post-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 3/16/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	14.356			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Flow = [illegible] SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			25.0	2.500	5.00	mg/m^3	0.87	ppmV	0.01	0.13	100.00	
			total volatiles			25		**5.0**	mg/m^3	**0.9**	ppmV	**0.01**	**0.13**	**100.00**	

ROUTINE MONITORING FORM

OPERATION, MAINTENANCE AND MONITORING PLAN
SVE/SSD SYSTEM
GM COMPONENTS HOLDINGS, LLC
LOCKPORT, NEW YORK

Name: [illegible]		Time On-Site: [illegible]	Time Off-Site: 1005
Date: 4/23/10		SVE Blower Run Time: [illegible] hours	VDF: 60 hertz

SYSTEM STATUS

SVE System Operating.	(YES)	NO	If no:
Alarm lights off:	(YES)	NO	If no:
Autodialer Alarm On:	YES	(NO)	If Yes.

Postion of Swing Panel HOA Switches:

Control Power Switch	(ON)		OFF	SVE Blower Switch	HAND	OFF	(AUTO)
M/S Effluent Pump Switch	HAND	(OFF)	AUTO	Heat Exchanger Switch	HAND	OFF	(AUTO)

Heat Exchanger Operating	(YES)	NO	If no:
SVE System appear to be operating properly?	(YES)	NO	If no:

Moisture Separator Tank Level: (Empty) 1/4 Full 1/2 Full 3/4 Full Full Volume Tranfered: gals

SYSTEM MONITORING READINGS

Vacuum Gauge Pre-Inline Filter:	.1	in Hg
Vacuum Gauge Post-Inline Filter:	.1	in Hg
Temperature on Discharge Silencer:	125	°F
Temperature after Heat Exchanger:	75	°F
Pressure After Heat Exchanger	24	in H_2O
Pressure Before Heat Exchanger	30	in H_2O
Pressure Magnehelic Gauge:	2.1	in H_2O
Vacuum Magnehelic Gauge:	>2	in H_2O
Vacuum Gauge After Manifold:	1	in Hg

System Monitoring Notes:

Flow Rate Based on Pressure Gauge: 312 cfm
Flow Rate Based on Vacuum Gauge: 294 cfm

EXTRACTION WELL VACUUM GAUGE READINGS

EW-1.	<1	in Hg	EW-11:	1	in Hg
EW-2:	1	in Hg	EW-12:	<1	in Hg
EW-3:	1	in Hg	EW-13:	<1	in Hg
EW-4:	<1	in Hg	EW-14:	1	in Hg
EW-5:	<1	in Hg	EW-15:	1	in Hg
EW-6:	<1	in Hg	EW-16:	1	in Hg
EW-7:	<1	in Hg	EW-17:	<1	in Hg
EW-8:	<1	in Hg	SS-1:	1	in H2O
EW-9:	1	in Hg	SS-2:	1	in H2O
EW-10:	1	in Hg	SS-3:	1	in H2O

Vaccum Gauge Reading Notes:

AIR FLOW FIELD SCREENING

Background Outside SVE Shed:	0.9	ppm
Background Inside SVE Shed:	0.9	ppm
Pre Carbon Discharge:	8.0	ppm
Mid Carbon Discharge:	4.2	ppm
Post Carbon Discharge.	0.5	ppm

Detector Tube Readings

Pre Carbon	YES	NO	7	ppm
Mid Carbon	YES	NO	5	ppm
Post Carbon	YES	NO	<0.2	ppm

Additional Notes:

SVE Blower Run Time meter not working [illegible]

Background 0.9 ppm Inside + Outside of SVE Shed

GAS CHROMATOGRAPHY REPORT SHEET
SCREENING RESULTS
DIRECT INJECT

Date of Analysis: 28-Apr-10

Client: GM Lockport
File No: 36795-000
Sample Type: BLDG-10 SVE/SSD

Operator: TJV
QA/QC: DMC

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Pre-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 4/26/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	14.356	14.335	5.7	3.694	7.39	mg/m^3	1.51	ppmV	0.01	0.19	12.57	
Flow = [illegible] SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316	19.250	1.3	0.278	0.56	mg/m^3	0.10	ppmV	0.00	0.01	0.95	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419	24.292	109.5	24.407	48.81	mg/m^3	7.20	ppmV	0.05	1.23	83.08	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			10.0	1.000	2.00	mg/m^3	0.35	ppmV	0.00	0.05	3.40	
			total volatiles			126		**58.8**	mg/m^3	**9.2**	ppmV	**0.06**	1.48	100.00	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Mid-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 4/26/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	14.356			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Flow = [illegible] SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316	19.296	1.2	0.263	0.53	mg/m^3	0.10	ppmV	0.00	0.01	1.32	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419	24.337	81.5	18.172	36.34	mg/m^3	5.36	ppmV	0.04	0.91	91.15	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			15.0	1.500	3.00	mg/m^3	0.52	ppmV	0.00	0.08	7.52	
			total volatiles			98		**39.9**	mg/m^3	**6.0**	ppmV	**0.04**	1.00	100.00	

Sample Identification		Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
		500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID:	Duplicate	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date:	4/26/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:		500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp =	°F	500	67-66-3	chloroform	14.356	14.368	5.8	3.786	7.57	mg/m^3	1.55	ppmV	0.01	0.19	12.46	
Flow =	SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	79-01-6	trichloroethene	19.316	19.274	1.4	0.298	0.60	mg/m^3	0.11	ppmV	0.00	0.01	0.98	
		500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	127-18-4	tetrachloroethene	24.419	24.315	104.5	23.295	46.59	mg/m^3	6.87	ppmV	0.05	1.17	76.68	
		500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500		Unknown TPH			30.0	3.000	6.00	mg/m^3	1.05	ppmV	0.01	0.15	9.87	
				total volatiles			142		**60.8**	mg/m^3	**9.6**	ppmV	**0.06**	**1.53**	**100.00**	

Sample Identification		Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
		500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
ID:	Post-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Date:	4/26/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Time:		500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Temp =	°F	500	67-66-3	chloroform	14.356			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Flow =	SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	79-01-6	trichloroethene	19.316			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	127-18-4	tetrachloroethene	24.419			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500		Unknown TPH				0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
				total volatiles			0		**0.0**	mg/m^3	**0.0**	ppmV	**0.00**	**0.00**	**#DIV/0!**	

APPENDIX C

ANALYTICAL DATA

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ANALYTICAL LABORATORY

39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 3/23/2009

GZA ENVIRONMENTAL - BUFFALO
535 WASHINGTON STREET, 11TH FLOOR
BUFFALO, NY 14203
ATTN: CHRIS BORON

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER: 21.0056445.0

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-23960
JOB NUMBER: 21.0056445.0

PROJECT LOCATION:

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
MID CARBON	09B07792	AIR	Not Specified	to-15 ppbv	
MID CARBON	09B07792	AIR	Not Specified	to-15 ug/m3	
POST CARBON	09B07793	AIR	Not Specified	to-15 ppbv	
POST CARBON	09B07793	AIR	Not Specified	to-15 ug/m3	
PRE CARBON	09B07791	AIR	Not Specified	to-15 ppbv	
PRE CARBON	09B07791	AIR	Not Specified	to-15 ug/m3	

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REPORT DATE 3/23/2009

GZA ENVIRONMENTAL - BUFFALO
535 WASHINGTON STREET, 11TH FLOOR
BUFFALO, NY 14203
ATTN: CHRIS BORON

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER: 21.0056445.0

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-23960
JOB NUMBER: 21.0056445.0

Comments :

LIMS BATCH NO. : LIMT-23960

In method TO-15, any reported result for 1,2-dichloropropane in samples is estimated and likely to be biased on the low side based on continuing calibration bias.

In method TO-15, any reported result for benzene in sample 09B07792 - 09B07793 is estimated and likely to be biased on the low side based on continuing calibration bias.

In method TO-15, any reported result for 1,2-dichloropropane in samples is likely to be biased on the low side based on laboratory fortified blank recovery bias.

Method blank-130874 is associated with sample 09B07791.

LFBLANK-93081 is associated with sample 09B07791.

Method blank-130875 is associated with sample 09B07792 - 09B07793.

LFBLANK-93082 is associated with sample 09B07792 - 09B07793.

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

AIHA 100033	AIHA ELLAP (LEAD) 100033	NORTH CAROLINA CERT. #652
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	FLORIDA DOH E871027 (AIR)
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Edward Denson 3/23/09

SIGNATURE DATE

Tod Kopyscinski
Air Laboratory Manager

Michael Erickson
Assistant Laboratory Director

Edward Denson
Technical Director

Daren Damboragian
Organics Department Supervisor

* See end of data tabulation for notes and comments pertaining to this sample

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ANALYTICAL LABORATORY

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CHRIS BORON
GZA ENVIRONMENTAL - BUFFALO
535 WASHINGTON STREET, 11TH FLOOR
BUFFALO, NY 14203

Purchase Order No.:

3/23/2009

Project Number: 21.0056445.0
LIMS-BAT #: LIMT-23960
Job Number: 21.0056445.0

Project Location:
Date Received: 3/14/2009

Field Sample # : MID CARBON

Sample ID : 09B07792

‡Sampled : 3/13/2009
Not Specified
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	740	1.0		03/20/09	WSD
Benzene	PPBv	1.4	1.0		03/20/09	WSD
Benzyl Chloride	PPBv	ND	1.0		03/20/09	WSD
Bromodichloromethane	PPBv	ND	1.0		03/20/09	WSD
Bromoform	PPBv	ND	1.0		03/20/09	WSD
Bromomethane	PPBv	ND	1.0		03/20/09	WSD
1,3-Butadiene	PPBv	ND	1.0		03/20/09	WSD
2-Butanone (MEK)	PPBv	1.4	1.0		03/20/09	WSD
Carbon Disulfide	PPBv	ND	1.0		03/20/09	WSD
Carbon Tetrachloride	PPBv	ND	1.0		03/20/09	WSD
Chlorobenzene	PPBv	ND	1.0		03/20/09	WSD
Chlorodibromomethane	PPBv	ND	1.0		03/20/09	WSD
Chloroethane	PPBv	ND	1.0		03/20/09	WSD
Chloroform	PPBv	ND	1.0		03/20/09	WSD
Chloromethane	PPBv	ND	1.0		03/20/09	WSD
Cyclohexane	PPBv	2.6	1.0		03/20/09	WSD
1,2-Dibromoethane	PPBv	ND	1.0		03/20/09	WSD
1,2-Dichlorobenzene	PPBv	ND	1.0		03/20/09	WSD
1,3-Dichlorobenzene	PPBv	ND	1.0		03/20/09	WSD
1,4-Dichlorobenzene	PPBv	ND	1.0		03/20/09	WSD
Dichlorodifluoromethane	PPBv	ND	1.0		03/20/09	WSD
1,1-Dichloroethane	PPBv	ND	1.0		03/20/09	WSD
1,2-Dichloroethane	PPBv	ND	1.0		03/20/09	WSD
1,1-Dichloroethylene	PPBv	1.3	1.0		03/20/09	WSD
cis-1,2-Dichloroethylene	PPBv	2.9	1.0		03/20/09	WSD
t-1,2-Dichloroethylene	PPBv	ND	1.0		03/20/09	WSD
1,2-Dichloropropane	PPBv	ND	1.0		03/20/09	WSD
cis-1,3-Dichloropropene	PPBv	ND	1.0		03/20/09	WSD
trans-1,3-Dichloropropene	PPBv	ND	1.0		03/20/09	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	1.0		03/20/09	WSD
Ethanol	PPBv	200	1.0		03/20/09	WSD
Ethyl Acetate	PPBv	ND	1.0		03/20/09	WSD
Ethylbenzene	PPBv	7.0	1.0		03/20/09	WSD
4-Ethyl Toluene	PPBv	2.8	1.0		03/20/09	WSD
n-Heptane	PPBv	3.9	1.0		03/20/09	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

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CHRIS BORON
GZA ENVIRONMENTAL - BUFFALO
535 WASHINGTON STREET, 11TH FLOOR
BUFFALO, NY 14203

Purchase Order No.:

Project Number: 21.0056445.0
LIMS-BAT #: LIMT-23960
Job Number: 21.0056445.0

Project Location:
Date Received: 3/14/2009

Field Sample # : MID CARBON

Sample ID : 09B07792

‡Sampled : 3/13/2009
Not Specified
Sample Medium : SUMMA

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	1.0		03/20/09	WSD
Hexane	PPBv	190	1.0		03/20/09	WSD
2-Hexanone	PPBv	ND	1.0		03/20/09	WSD
Isopropanol	PPBv	6.9	1.0		03/20/09	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	1.0		03/20/09	WSD
Methylene Chloride	PPBv	1.7	1.0		03/20/09	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	1.0		03/20/09	WSD
Propene	PPBv	ND	1.0		03/20/09	WSD
Styrene	PPBv	ND	1.0		03/20/09	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	1.0		03/20/09	WSD
Tetrachloroethylene	PPBv	2.7	1.0		03/20/09	WSD
Tetrahydrofuran	PPBv	ND	1.0		03/20/09	WSD
Toluene	PPBv	120	1.0		03/20/09	WSD
1,2,4-Trichlorobenzene	PPBv	ND	1.0		03/20/09	WSD
1,1,1-Trichloroethane	PPBv	ND	1.0		03/20/09	WSD
1,1,2-Trichloroethane	PPBv	ND	1.0		03/20/09	WSD
Trichloroethylene	PPBv	7.6	1.0		03/20/09	WSD
Trichlorofluoromethane (Freon 11)	PPBv	ND	1.0		03/20/09	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	1.0		03/20/09	WSD
1,2,4-Trimethylbenzene	PPBv	4.4	1.0		03/20/09	WSD
1,3,5-Trimethylbenzene	PPBv	2.0	1.0		03/20/09	WSD
Vinyl Acetate	PPBv	ND	1.0		03/20/09	WSD
Vinyl Chloride	PPBv	ND	1.0		03/20/09	WSD
m/p-Xylene	PPBv	22	2.0		03/20/09	WSD
o-Xylene	PPBv	6.3	1.0		03/20/09	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	1700	2.4		03/20/09	WSD
Benzene	ug/m3	4.4	3.2		03/20/09	WSD
Benzyl Chloride	ug/m3	ND	5.2		03/20/09	WSD
Bromodichloromethane	ug/m3	ND	6.7		03/20/09	WSD
Bromoform	ug/m3	ND	11		03/20/09	WSD
Bromomethane	ug/m3	ND	3.9		03/20/09	WSD
1,3-Butadiene	ug/m3	ND	2.3		03/20/09	WSD
2-Butanone (MEK)	ug/m3	4.0	3.0		03/20/09	WSD
Carbon Disulfide	ug/m3	ND	3.1		03/20/09	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

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CHRIS BORON
GZA ENVIRONMENTAL - BUFFALO
535 WASHINGTON STREET, 11TH FLOOR
BUFFALO, NY 14203

Purchase Order No.:

3/23/2009

Project Number: 21.0056445.0
LIMS-BAT #: LIMT-23960
Job Number: 21.0056445.0

Project Location:
Date Received: 3/14/2009

Field Sample # : MID CARBON

Sample ID : 09B07792

‡Sampled : 3/13/2009
Not Specified
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	ND	6.3		03/20/09	WSD
Chlorobenzene	ug/m3	ND	4.6		03/20/09	WSD
Chlorodibromomethane	ug/m3	ND	8.6		03/20/09	WSD
Chloroethane	ug/m3	ND	2.7		03/20/09	WSD
Chloroform	ug/m3	ND	4.9		03/20/09	WSD
Chloromethane	ug/m3	ND	2.1		03/20/09	WSD
Cyclohexane	ug/m3	9.0	3.5		03/20/09	WSD
1,2-Dibromoethane	ug/m3	ND	7.6		03/20/09	WSD
1,2-Dichlorobenzene	ug/m3	ND	6.0		03/20/09	WSD
1,3-Dichlorobenzene	ug/m3	ND	6.0		03/20/09	WSD
1,4-Dichlorobenzene	ug/m3	ND	6.0		03/20/09	WSD
Dichlorodifluoromethane	ug/m3	ND	4.9		03/20/09	WSD
1,1-Dichloroethane	ug/m3	ND	4.1		03/20/09	WSD
1,2-Dichloroethane	ug/m3	ND	4.0		03/20/09	WSD
1,1-Dichloroethylene	ug/m3	5.3	4.0		03/20/09	WSD
cis-1,2-Dichloroethylene	ug/m3	11	4.0		03/20/09	WSD
t-1,2-Dichloroethylene	ug/m3	ND	4.0		03/20/09	WSD
1,2-Dichloropropane	ug/m3	ND	4.6		03/20/09	WSD
cis-1,3-Dichloropropene	ug/m3	ND	4.5		03/20/09	WSD
trans-1,3-Dichloropropene	ug/m3	ND	4.5		03/20/09	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	7.0		03/20/09	WSD
Ethanol	ug/m3	370	1.9		03/20/09	WSD
Ethyl Acetate	ug/m3	ND	3.6		03/20/09	WSD
Ethylbenzene	ug/m3	30	4.4		03/20/09	WSD
4-Ethyl Toluene	ug/m3	14	5.0		03/20/09	WSD
n-Heptane	ug/m3	16	4.1		03/20/09	WSD
Hexachlorobutadiene	ug/m3	ND	11		03/20/09	WSD
Hexane	ug/m3	660	3.6		03/20/09	WSD
2-Hexanone	ug/m3	ND	4.1		03/20/09	WSD
Isopropanol	ug/m3	17	2.5		03/20/09	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	3.6		03/20/09	WSD
Methylene Chloride	ug/m3	5.9	3.5		03/20/09	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	4.1		03/20/09	WSD
Propene	ug/m3	ND	1.8		03/20/09	WSD
Styrene	ug/m3	ND	4.3		03/20/09	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

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ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

CHRIS BORON
GZA ENVIRONMENTAL - BUFFALO
535 WASHINGTON STREET, 11TH FLOOR
BUFFALO, NY 14203

Purchase Order No.:

Project Number: 21.0056445.0
LIMS-BAT #: LIMT-23960
Job Number: 21.0056445.0

Project Location:
Date Received: 3/14/2009

Field Sample # : MID CARBON

Sample ID : 09B07792

‡Sampled : 3/13/2009
Not Specified
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	6.8		03/20/09	WSD
Tetrachloroethylene	ug/m3	18	6.7		03/20/09	WSD
Tetrahydrofuran	ug/m3	ND	3.0		03/20/09	WSD
Toluene	ug/m3	430	3.8		03/20/09	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	7.4		03/20/09	WSD
1,1,1-Trichloroethane	ug/m3	ND	5.4		03/20/09	WSD
1,1,2-Trichloroethane	ug/m3	ND	5.4		03/20/09	WSD
Trichloroethylene	ug/m3	41	5.4		03/20/09	WSD
Trichlorofluoromethane	ug/m3	ND	5.6		03/20/09	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	7.6		03/20/09	WSD
1,2,4-Trimethylbenzene	ug/m3	22	5.0		03/20/09	WSD
1,3,5-Trimethylbenzene	ug/m3	10.0	5.0		03/20/09	WSD
Vinyl Acetate	ug/m3	ND	3.6		03/20/09	WSD
Vinyl Chloride	ug/m3	ND	2.6		03/20/09	WSD
m/p-Xylene	ug/m3	98	8.7		03/20/09	WSD
o-Xylene	ug/m3	27	4.4		03/20/09	WSD

RL = Reporting Limit

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

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CHRIS BORON
GZA ENVIRONMENTAL - BUFFALO
535 WASHINGTON STREET, 11TH FLOOR
BUFFALO, NY 14203

Purchase Order No.:

Project Number: 21.0056445.0
LIMS-BAT #: LIMT-23960
Job Number: 21.0056445.0

Project Location:
Date Received: 3/14/2009

Field Sample # : POST CARBON

Sample ID : 09B07793

‡Sampled : 3/13/2009
Not Specified
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	910	1.0		03/20/09	WSD
Benzene	PPBv	1.5	1.0		03/20/09	WSD
Benzyl Chloride	PPBv	ND	1.0		03/20/09	WSD
Bromodichloromethane	PPBv	ND	1.0		03/20/09	WSD
Bromoform	PPBv	ND	1.0		03/20/09	WSD
Bromomethane	PPBv	ND	1.0		03/20/09	WSD
1,3-Butadiene	PPBv	ND	1.0		03/20/09	WSD
2-Butanone (MEK)	PPBv	1.2	1.0		03/20/09	WSD
Carbon Disulfide	PPBv	ND	1.0		03/20/09	WSD
Carbon Tetrachloride	PPBv	ND	1.0		03/20/09	WSD
Chlorobenzene	PPBv	ND	1.0		03/20/09	WSD
Chlorodibromomethane	PPBv	ND	1.0		03/20/09	WSD
Chloroethane	PPBv	ND	1.0		03/20/09	WSD
Chloroform	PPBv	ND	1.0		03/20/09	WSD
Chloromethane	PPBv	ND	1.0		03/20/09	WSD
Cyclohexane	PPBv	2.6	1.0		03/20/09	WSD
1,2-Dibromoethane	PPBv	ND	1.0		03/20/09	WSD
1,2-Dichlorobenzene	PPBv	ND	1.0		03/20/09	WSD
1,3-Dichlorobenzene	PPBv	ND	1.0		03/20/09	WSD
1,4-Dichlorobenzene	PPBv	ND	1.0		03/20/09	WSD
Dichlorodifluoromethane	PPBv	ND	1.0		03/20/09	WSD
1,1-Dichloroethane	PPBv	ND	1.0		03/20/09	WSD
1,2-Dichloroethane	PPBv	ND	1.0		03/20/09	WSD
1,1-Dichloroethylene	PPBv	ND	1.0		03/20/09	WSD
cis-1,2-Dichloroethylene	PPBv	ND	1.0		03/20/09	WSD
t-1,2-Dichloroethylene	PPBv	ND	1.0		03/20/09	WSD
1,2-Dichloropropane	PPBv	ND	1.0		03/20/09	WSD
cis-1,3-Dichloropropene	PPBv	ND	1.0		03/20/09	WSD
trans-1,3-Dichloropropene	PPBv	ND	1.0		03/20/09	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	1.0		03/20/09	WSD
Ethanol	PPBv	220	1.0		03/20/09	WSD
Ethyl Acetate	PPBv	ND	1.0		03/20/09	WSD
Ethylbenzene	PPBv	8.0	1.0		03/20/09	WSD
4-Ethyl Toluene	PPBv	3.2	1.0		03/20/09	WSD
n-Heptane	PPBv	4.3	1.0		03/20/09	WSD

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‡ See attached chain-of-custody record for time sampled

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CHRIS BORON
GZA ENVIRONMENTAL - BUFFALO
535 WASHINGTON STREET, 11TH FLOOR
BUFFALO, NY 14203

Purchase Order No.:

Project Number: 21.0056445.0
LIMS-BAT #: LIMT-23960
Job Number: 21.0056445.0

Project Location:
Date Received: 3/14/2009

Field Sample # : POST CARBON

Sample ID : 09B07793

‡Sampled : 3/13/2009
Not Specified
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	1.0		03/20/09	WSD
Hexane	PPBv	230	1.0		03/20/09	WSD
2-Hexanone	PPBv	ND	1.0		03/20/09	WSD
Isopropanol	PPBv	7.5	1.0		03/20/09	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	1.0		03/20/09	WSD
Methylene Chloride	PPBv	ND	1.0		03/20/09	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	1.0		03/20/09	WSD
Propene	PPBv	ND	1.0		03/20/09	WSD
Styrene	PPBv	ND	1.0		03/20/09	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	1.0		03/20/09	WSD
Tetrachloroethylene	PPBv	2.9	1.0		03/20/09	WSD
Tetrahydrofuran	PPBv	ND	1.0		03/20/09	WSD
Toluene	PPBv	140	1.0		03/20/09	WSD
1,2,4-Trichlorobenzene	PPBv	ND	1.0		03/20/09	WSD
1,1,1-Trichloroethane	PPBv	ND	1.0		03/20/09	WSD
1,1,2-Trichloroethane	PPBv	ND	1.0		03/20/09	WSD
Trichloroethylene	PPBv	ND	1.0		03/20/09	WSD
Trichlorofluoromethane (Freon 11)	PPBv	ND	1.0		03/20/09	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	1.0		03/20/09	WSD
1,2,4-Trimethylbenzene	PPBv	4.8	1.0		03/20/09	WSD
1,3,5-Trimethylbenzene	PPBv	2.3	1.0		03/20/09	WSD
Vinyl Acetate	PPBv	ND	1.0		03/20/09	WSD
Vinyl Chloride	PPBv	ND	1.0		03/20/09	WSD
m/p-Xylene	PPBv	26	2.0		03/20/09	WSD
o-Xylene	PPBv	7.1	1.0		03/20/09	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	2200	2.4		03/20/09	WSD
Benzene	ug/m3	4.8	3.2		03/20/09	WSD
Benzyl Chloride	ug/m3	ND	5.2		03/20/09	WSD
Bromodichloromethane	ug/m3	ND	6.7		03/20/09	WSD
Bromoform	ug/m3	ND	11		03/20/09	WSD
Bromomethane	ug/m3	ND	3.9		03/20/09	WSD
1,3-Butadiene	ug/m3	ND	2.3		03/20/09	WSD
2-Butanone (MEK)	ug/m3	3.5	3.0		03/20/09	WSD
Carbon Disulfide	ug/m3	ND	3.1		03/20/09	WSD

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‡ See attached chain-of-custody record for time sampled

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CHRIS BORON
GZA ENVIRONMENTAL - BUFFALO
535 WASHINGTON STREET, 11TH FLOOR
BUFFALO, NY 14203

Purchase Order No..

Project Number: 21.0056445.0
LIMS-BAT #: LIMT-23960
Job Number: 21.0056445.0

Project Location:
Date Received: 3/14/2009

Field Sample # : POST CARBON

Sample ID : 09B07793

‡Sampled : 3/13/2009
Not Specified
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	ND	6.3		03/20/09	WSD
Chlorobenzene	ug/m3	ND	4.6		03/20/09	WSD
Chlorodibromomethane	ug/m3	ND	8.6		03/20/09	WSD
Chloroethane	ug/m3	ND	2.7		03/20/09	WSD
Chloroform	ug/m3	ND	4.9		03/20/09	WSD
Chloromethane	ug/m3	ND	2.1		03/20/09	WSD
Cyclohexane	ug/m3	8.9	3.5		03/20/09	WSD
1,2-Dibromoethane	ug/m3	ND	7.6		03/20/09	WSD
1,2-Dichlorobenzene	ug/m3	ND	6.0		03/20/09	WSD
1,3-Dichlorobenzene	ug/m3	ND	6.0		03/20/09	WSD
1,4-Dichlorobenzene	ug/m3	ND	6.0		03/20/09	WSD
Dichlorodifluoromethane	ug/m3	ND	4.9		03/20/09	WSD
1,1-Dichloroethane	ug/m3	ND	4.1		03/20/09	WSD
1,2-Dichloroethane	ug/m3	ND	4.0		03/20/09	WSD
1,1-Dichloroethylene	ug/m3	ND	4.0		03/20/09	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	4.0		03/20/09	WSD
t-1,2-Dichloroethylene	ug/m3	ND	4.0		03/20/09	WSD
1,2-Dichloropropane	ug/m3	ND	4.6		03/20/09	WSD
cis-1,3-Dichloropropene	ug/m3	ND	4.5		03/20/09	WSD
trans-1,3-Dichloropropene	ug/m3	ND	4.5		03/20/09	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	7.0		03/20/09	WSD
Ethanol	ug/m3	420	1.9		03/20/09	WSD
Ethyl Acetate	ug/m3	ND	3.6		03/20/09	WSD
Ethylbenzene	ug/m3	35	4.4		03/20/09	WSD
4-Ethyl Toluene	ug/m3	16	5.0		03/20/09	WSD
n-Heptane	ug/m3	18	4.1		03/20/09	WSD
Hexachlorobutadiene	ug/m3	ND	11		03/20/09	WSD
Hexane	ug/m3	810	3.6		03/20/09	WSD
2-Hexanone	ug/m3	ND	4.1		03/20/09	WSD
Isopropanol	ug/m3	18	2.5		03/20/09	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	3.6		03/20/09	WSD
Methylene Chloride	ug/m3	ND	3.5		03/20/09	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	4.1		03/20/09	WSD
Propene	ug/m3	ND	1.8		03/20/09	WSD
Styrene	ug/m3	ND	4.3		03/20/09	WSD

RL = Reporting Limit

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‡ See attached chain-of-custody record for time sampled

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ANALYTICAL LABORATORY
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CHRIS BORON
GZA ENVIRONMENTAL - BUFFALO
535 WASHINGTON STREET, 11TH FLOOR
BUFFALO, NY 14203

Purchase Order No.:

Project Number: 21.0056445.0
LIMS-BAT #: LIMT-23960
Job Number: 21.0056445.0

Project Location:
Date Received: 3/14/2009

Field Sample # : POST CARBON

Sample ID : 09B07793

‡Sampled : 3/13/2009
Not Specified
Sample Medium : SUMMA

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	6.8		03/20/09	WSD
Tetrachloroethylene	ug/m3	20	6.7		03/20/09	WSD
Tetrahydrofuran	ug/m3	ND	3.0		03/20/09	WSD
Toluene	ug/m3	520	3.8		03/20/09	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	7.4		03/20/09	WSD
1,1,1-Trichloroethane	ug/m3	ND	5.4		03/20/09	WSD
1,1,2-Trichloroethane	ug/m3	ND	5.4		03/20/09	WSD
Trichloroethylene	ug/m3	ND	5.4		03/20/09	WSD
Trichlorofluoromethane	ug/m3	ND	5.6		03/20/09	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	7.6		03/20/09	WSD
1,2,4-Trimethylbenzene	ug/m3	24	5.0		03/20/09	WSD
1,3,5-Trimethylbenzene	ug/m3	11	5.0		03/20/09	WSD
Vinyl Acetate	ug/m3	ND	3.6		03/20/09	WSD
Vinyl Chloride	ug/m3	ND	2.6		03/20/09	WSD
m/p-Xylene	ug/m3	110	8.7		03/20/09	WSD
o-Xylene	ug/m3	31	4.4		03/20/09	WSD

RL = Reporting Limit

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CHRIS BORON
GZA ENVIRONMENTAL - BUFFALO
535 WASHINGTON STREET, 11TH FLOOR
BUFFALO, NY 14203

Purchase Order No..

Project Number: 21.0056445.0
LIMS-BAT #: LIMT-23960
Job Number: 21.0056445.0

Project Location:
Date Received: 3/14/2009

Field Sample # : PRE CARBON

Sample ID : 09B07791

‡Sampled : 3/13/2009
Not Specified
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	140	1.0		03/18/09	WSD
Benzene	PPBv	1.8	1.0		03/18/09	WSD
Benzyl Chloride	PPBv	ND	1.0		03/18/09	WSD
Bromodichloromethane	PPBv	ND	1.0		03/18/09	WSD
Bromoform	PPBv	ND	1.0		03/18/09	WSD
Bromomethane	PPBv	ND	1.0		03/18/09	WSD
1,3-Butadiene	PPBv	ND	1.0		03/18/09	WSD
2-Butanone (MEK)	PPBv	1.7	1.0		03/18/09	WSD
Carbon Disulfide	PPBv	ND	1.0		03/18/09	WSD
Carbon Tetrachloride	PPBv	ND	1.0		03/18/09	WSD
Chlorobenzene	PPBv	ND	1.0		03/18/09	WSD
Chlorodibromomethane	PPBv	ND	1.0		03/18/09	WSD
Chloroethane	PPBv	ND	1.0		03/18/09	WSD
Chloroform	PPBv	1.7	1.0		03/18/09	WSD
Chloromethane	PPBv	ND	1.0		03/18/09	WSD
Cyclohexane	PPBv	6.7	1.0		03/18/09	WSD
1,2-Dibromoethane	PPBv	ND	1.0		03/18/09	WSD
1,2-Dichlorobenzene	PPBv	ND	1.0		03/18/09	WSD
1,3-Dichlorobenzene	PPBv	ND	1.0		03/18/09	WSD
1,4-Dichlorobenzene	PPBv	ND	1.0		03/18/09	WSD
Dichlorodifluoromethane	PPBv	ND	1.0		03/18/09	WSD
1,1-Dichloroethane	PPBv	ND	1.0		03/18/09	WSD
1,2-Dichloroethane	PPBv	ND	1.0		03/18/09	WSD
1,1-Dichloroethylene	PPBv	13	1.0		03/18/09	WSD
cis-1,2-Dichloroethylene	PPBv	290	1.0		03/18/09	WSD
t-1,2-Dichloroethylene	PPBv	19	1.0		03/18/09	WSD
1,2-Dichloropropane	PPBv	ND	1.0		03/18/09	WSD
cis-1,3-Dichloropropene	PPBv	ND	1.0		03/18/09	WSD
trans-1,3-Dichloropropene	PPBv	ND	1.0		03/18/09	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	1.0		03/18/09	WSD
Ethanol	PPBv	340	1.0		03/18/09	WSD
Ethyl Acetate	PPBv	ND	1.0		03/18/09	WSD
Ethylbenzene	PPBv	ND	1.0		03/18/09	WSD
4-Ethyl Toluene	PPBv	ND	1.0		03/18/09	WSD
n-Heptane	PPBv	11	1.0		03/18/09	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

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CHRIS BORON
GZA ENVIRONMENTAL - BUFFALO
535 WASHINGTON STREET, 11TH FLOOR
BUFFALO, NY 14203

Purchase Order No.:

Project Number: 21.0056445.0
LIMS-BAT #: LIMT-23960
Job Number: 21.0056445.0

Project Location:
Date Received: 3/14/2009

Field Sample # : PRE CARBON

Sample ID : 09B07791

‡Sampled : 3/13/2009
Not Specified
Sample Medium : SUMMA

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	1.0		03/18/09	WSD
Hexane	PPBv	110	1.0		03/18/09	WSD
2-Hexanone	PPBv	ND	1.0		03/18/09	WSD
Isopropanol	PPBv	8.4	1.0		03/18/09	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	1.0		03/18/09	WSD
Methylene Chloride	PPBv	3.5	1.0		03/18/09	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	1.0		03/18/09	WSD
Propene	PPBv	ND	1.0		03/18/09	WSD
Styrene	PPBv	ND	1.0		03/18/09	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	1.0		03/18/09	WSD
Tetrachloroethylene	PPBv	1600	1.0		03/18/09	WSD
Tetrahydrofuran	PPBv	1.3	1.0		03/18/09	WSD
Toluene	PPBv	38	1.0		03/18/09	WSD
1,2,4-Trichlorobenzene	PPBv	ND	1.0		03/18/09	WSD
1,1,1-Trichloroethane	PPBv	ND	1.0		03/18/09	WSD
1,1,2-Trichloroethane	PPBv	1.1	1.0		03/18/09	WSD
Trichloroethylene	PPBv	330	1.0		03/18/09	WSD
Trichlorofluoromethane (Freon 11)	PPBv	ND	1.0		03/18/09	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	1.0		03/18/09	WSD
1,2,4-Trimethylbenzene	PPBv	ND	1.0		03/18/09	WSD
1,3,5-Trimethylbenzene	PPBv	ND	1.0		03/18/09	WSD
Vinyl Acetate	PPBv	ND	1.0		03/18/09	WSD
Vinyl Chloride	PPBv	ND	1.0		03/18/09	WSD
m/p-Xylene	PPBv	ND	2.0		03/18/09	WSD
o-Xylene	PPBv	ND	1.0		03/18/09	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	340	2.4		03/18/09	WSD
Benzene	ug/m3	5.7	3.2		03/18/09	WSD
Benzyl Chloride	ug/m3	ND	5.2		03/18/09	WSD
Bromodichloromethane	ug/m3	ND	6.7		03/18/09	WSD
Bromoform	ug/m3	ND	11		03/18/09	WSD
Bromomethane	ug/m3	ND	3.9		03/18/09	WSD
1,3-Butadiene	ug/m3	ND	2.3		03/18/09	WSD
2-Butanone (MEK)	ug/m3	4.9	3.0		03/18/09	WSD
Carbon Disulfide	ug/m3	ND	3.1		03/18/09	WSD

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‡ See attached chain-of-custody record for time sampled

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ANALYTICAL LABORATORY
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CHRIS BORON
GZA ENVIRONMENTAL - BUFFALO
535 WASHINGTON STREET, 11TH FLOOR
BUFFALO, NY 14203

Purchase Order No.:

Project Number: 21.0056445.0
LIMS-BAT #: LIMT-23960
Job Number: 21.0056445.0

Project Location:
Date Received: 3/14/2009

Field Sample # : PRE CARBON

Sample ID : 09B07791

‡Sampled : 3/13/2009
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	ND	6.3		03/18/09	WSD
Chlorobenzene	ug/m3	ND	4.6		03/18/09	WSD
Chlorodibromomethane	ug/m3	ND	8.6		03/18/09	WSD
Chloroethane	ug/m3	ND	2.7		03/18/09	WSD
Chloroform	ug/m3	8.1	4.9		03/18/09	WSD
Chloromethane	ug/m3	ND	2.1		03/18/09	WSD
Cyclohexane	ug/m3	23	3.5		03/18/09	WSD
1,2-Dibromoethane	ug/m3	ND	7.6		03/18/09	WSD
1,2-Dichlorobenzene	ug/m3	ND	6.0		03/18/09	WSD
1,3-Dichlorobenzene	ug/m3	ND	6.0		03/18/09	WSD
1,4-Dichlorobenzene	ug/m3	ND	6.0		03/18/09	WSD
Dichlorodifluoromethane	ug/m3	ND	4.9		03/18/09	WSD
1,1-Dichloroethane	ug/m3	ND	4.1		03/18/09	WSD
1,2-Dichloroethane	ug/m3	ND	4.0		03/18/09	WSD
1,1-Dichloroethylene	ug/m3	51	4.0		03/18/09	WSD
cis-1,2-Dichloroethylene	ug/m3	1200	4.0		03/18/09	WSD
t-1,2-Dichloroethylene	ug/m3	76	4.0		03/18/09	WSD
1,2-Dichloropropane	ug/m3	ND	4.6		03/18/09	WSD
cis-1,3-Dichloropropene	ug/m3	ND	4.5		03/18/09	WSD
trans-1,3-Dichloropropene	ug/m3	ND	4.5		03/18/09	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	7.0		03/18/09	WSD
Ethanol	ug/m3	650	1.9		03/18/09	WSD
Ethyl Acetate	ug/m3	ND	3.6		03/18/09	WSD
Ethylbenzene	ug/m3	ND	4.4		03/18/09	WSD
4-Ethyl Toluene	ug/m3	ND	5.0		03/18/09	WSD
n-Heptane	ug/m3	43	4.1		03/18/09	WSD
Hexachlorobutadiene	ug/m3	ND	11		03/18/09	WSD
Hexane	ug/m3	400	3.6		03/18/09	WSD
2-Hexanone	ug/m3	ND	4.1		03/18/09	WSD
Isopropanol	ug/m3	21	2.5		03/18/09	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	3.6		03/18/09	WSD
Methylene Chloride	ug/m3	12	3.5		03/18/09	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	4.1		03/18/09	WSD
Propene	ug/m3	ND	1.8		03/18/09	WSD
Styrene	ug/m3	ND	4.3		03/18/09	WSD

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CHRIS BORON
GZA ENVIRONMENTAL - BUFFALO
535 WASHINGTON STREET, 11TH FLOOR
BUFFALO, NY 14203

Purchase Order No.:

Project Number: 21.0056445.0
LIMS-BAT #: LIMT-23960
Job Number: 21.0056445.0

Project Location:
Date Received: 3/14/2009

Field Sample # : PRE CARBON

Sample ID : 09B07791

‡Sampled : 3/13/2009
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	6.8		03/18/09	WSD
Tetrachloroethylene	ug/m3	11000	6.7		03/18/09	WSD
Tetrahydrofuran	ug/m3	3.7	3.0		03/18/09	WSD
Toluene	ug/m3	140	3.8		03/18/09	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	7.4		03/18/09	WSD
1,1,1-Trichloroethane	ug/m3	ND	5.4		03/18/09	WSD
1,1,2-Trichloroethane	ug/m3	6.0	5.4		03/18/09	WSD
Trichloroethylene	ug/m3	1800	5.4		03/18/09	WSD
Trichlorofluoromethane	ug/m3	ND	5.6		03/18/09	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	7.6		03/18/09	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	5.0		03/18/09	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	5.0		03/18/09	WSD
Vinyl Acetate	ug/m3	ND	3.6		03/18/09	WSD
Vinyl Chloride	ug/m3	ND	2.6		03/18/09	WSD
m/p-Xylene	ug/m3	ND	8.7		03/18/09	WSD
o-Xylene	ug/m3	ND	4.4		03/18/09	WSD

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Project Location:
Date Received: 3/14/2009

Purchase Order No.:

Project Number: 21.0056445.0
LIMS-BAT #: LIMT-23960
Job Number: 21.0056445.0

** END OF REPORT **

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‡ See attached chain-of-custody record for time sampled

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 3/23/2009 Lims Bat # : LIMT-23960

QC Batch Number: BATCH-16276

Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B07791					
	4-Bromofluorobenzene	Surrogate Recovery	83.37	%	70-130
09B07792					
	4-Bromofluorobenzene	Surrogate Recovery	94.87	%	70-130
09B07793					
	4-Bromofluorobenzene	Surrogate Recovery	87.12	%	70-130
BLANK-130874					
	Acetone	Blank	<0.60	ug/m3	
	Benzene	Blank	<0.80	ug/m3	
	Carbon Tetrachloride	Blank	<1.6	ug/m3	
	Chloroform	Blank	<1.3	ug/m3	
	1,2-Dichloroethane	Blank	<1.0	ug/m3	
	1,4-Dichlorobenzene	Blank	<1.5	ug/m3	
	Ethyl Acetate	Blank	<0.90	ug/m3	
	Ethylbenzene	Blank	<1.1	ug/m3	
	Hexane	Blank	<0.88	ug/m3	
	Isopropanol	Blank	<0.62	ug/m3	
	2-Butanone (MEK)	Blank	<0.74	ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Blank	<1.1	ug/m3	
	Styrene	Blank	<1.1	ug/m3	
	Tetrachloroethylene	Blank	<1.7	ug/m3	
	Toluene	Blank	<0.94	ug/m3	
	1,1,1-Trichloroethane	Blank	<1.4	ug/m3	
	Trichloroethylene	Blank	<1.4	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<1.9	ug/m3	
	Trichlorofluoromethane	Blank	<1.4	ug/m3	
	o-Xylene	Blank	<1.1	ug/m3	
	m/p-Xylene	Blank	<2.2	ug/m3	
	1,2-Dichlorobenzene	Blank	<1.5	ug/m3	
	1,3-Dichlorobenzene	Blank	<1.5	ug/m3	
	1,1-Dichloroethane	Blank	<1.1	ug/m3	
	1,1-Dichloroethylene	Blank	<0.98	ug/m3	
	Ethanol	Blank	<0.47	ug/m3	
	4-Ethyl Toluene	Blank	<1.3	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Blank	<0.90	ug/m3	
	t-1,2-Dichloroethylene	Blank	<0.98	ug/m3	
	Vinyl Chloride	Blank	<0.64	ug/m3	
	Methylene Chloride	Blank	<0.86	ug/m3	
	Chlorobenzene	Blank	<1.2	ug/m3	
	Chloromethane	Blank	<0.51	ug/m3	
	Bromomethane	Blank	<0.96	ug/m3	
	Chloroethane	Blank	<0.66	ug/m3	
	cis-1,3-Dichloropropene	Blank	<1.2	ug/m3	
	trans-1,3-Dichloropropene	Blank	<1.2	ug/m3	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 3/23/2009 Lims Bat # : LIMT-23960

QC Batch Number: BATCH-16276

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-130874					
	Chlorodibromomethane	Blank	<2.2	ug/m3	
	1,1,2-Trichloroethane	Blank	<1.4	ug/m3	
	Bromoform	Blank	<2.6	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<1.7	ug/m3	
	Hexachlorobutadiene	Blank	<2.7	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<1.9	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<1.3	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<1.3	ug/m3	
	Cyclohexane	Blank	<0.86	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<0.98	ug/m3	
	1,2-Dichloropropane	Blank	<1.2	ug/m3	
	Dichlorodifluoromethane	Blank	<1.3	ug/m3	
	Benzyl Chloride	Blank	<1.3	ug/m3	
	Carbon Disulfide	Blank	<0.78	ug/m3	
	Vinyl Acetate	Blank	<0.88	ug/m3	
	2-Hexanone	Blank	<1.1	ug/m3	
	Bromodichloromethane	Blank	<1.7	ug/m3	
	1,2-Dibromoethane	Blank	<1.9	ug/m3	
	n-Heptane	Blank	<1.1	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<1.8	ug/m3	
	Tetrahydrofuran	Blank	<0.74	ug/m3	
	Propene	Blank	<0.43	ug/m3	
	1,3-Butadiene	Blank	<0.56	ug/m3	
BLANK-130875					
	Acetone	Blank	<0.60	ug/m3	
	Benzene	Blank	<0.80	ug/m3	
	Carbon Tetrachloride	Blank	<1.6	ug/m3	
	Chloroform	Blank	<1.3	ug/m3	
	1,2-Dichloroethane	Blank	<1.0	ug/m3	
	1,4-Dichlorobenzene	Blank	<1.5	ug/m3	
	Ethyl Acetate	Blank	<0.90	ug/m3	
	Ethylbenzene	Blank	<1.1	ug/m3	
	Hexane	Blank	<0.88	ug/m3	
	Isopropanol	Blank	<0.62	ug/m3	
	2-Butanone (MEK)	Blank	<0.74	ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Blank	<1.1	ug/m3	
	Styrene	Blank	<1.1	ug/m3	
	Tetrachloroethylene	Blank	<1.7	ug/m3	
	Toluene	Blank	<0.94	ug/m3	
	1,1,1-Trichloroethane	Blank	<1.4	ug/m3	
	Trichloroethylene	Blank	<1.4	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<1.9	ug/m3	
	Trichlorofluoromethane	Blank	<1.4	ug/m3	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 3/23/2009 Lims Bat # : LIMT-23960

QC Batch Number: BATCH-16276

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-130875					
	o-Xylene	Blank	<1.1	ug/m3	
	m/p-Xylene	Blank	<2.2	ug/m3	
	1,2-Dichlorobenzene	Blank	<1.5	ug/m3	
	1,3-Dichlorobenzene	Blank	<1.5	ug/m3	
	1,1-Dichloroethane	Blank	<1.1	ug/m3	
	1,1-Dichloroethylene	Blank	<0.98	ug/m3	
	Ethanol	Blank	<0.47	ug/m3	
	4-Ethyl Toluene	Blank	<1.3	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Blank	<0.90	ug/m3	
	t-1,2-Dichloroethylene	Blank	<0.98	ug/m3	
	Vinyl Chloride	Blank	<0.64	ug/m3	
	Methylene Chloride	Blank	<0.86	ug/m3	
	Chlorobenzene	Blank	<1.2	ug/m3	
	Chloromethane	Blank	<0.51	ug/m3	
	Bromomethane	Blank	<0.96	ug/m3	
	Chloroethane	Blank	<0.66	ug/m3	
	cis-1,3-Dichloropropene	Blank	<1.2	ug/m3	
	trans-1,3-Dichloropropene	Blank	<1.2	ug/m3	
	Chlorodibromomethane	Blank	<2.2	ug/m3	
	1,1,2-Trichloroethane	Blank	<1.4	ug/m3	
	Bromoform	Blank	<2.6	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<1.7	ug/m3	
	Hexachlorobutadiene	Blank	<2.7	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<1.9	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<1.3	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<1.3	ug/m3	
	Cyclohexane	Blank	<0.86	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<0.98	ug/m3	
	1,2-Dichloropropane	Blank	<1.2	ug/m3	
	Dichlorodifluoromethane	Blank	<1.3	ug/m3	
	Benzyl Chloride	Blank	<1.3	ug/m3	
	Carbon Disulfide	Blank	<0.78	ug/m3	
	Vinyl Acetate	Blank	<0.88	ug/m3	
	2-Hexanone	Blank	<1.1	ug/m3	
	Bromodichloromethane	Blank	<1.7	ug/m3	
	1,2-Dibromoethane	Blank	<1.9	ug/m3	
	n-Heptane	Blank	<1.1	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<1.8	ug/m3	
	Tetrahydrofuran	Blank	<0.74	ug/m3	
	Propene	Blank	<0.43	ug/m3	
	1,3-Butadiene	Blank	<0.56	ug/m3	
LFBLANK-93081					
	Acetone	Lab Fort Blank Amt.	11.87	ug/m3	

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Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 3/23/2009 Lims Bat # : LIMT-23960

QC Batch Number: BATCH-16276

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-93081					
	Acetone	Lab Fort Blk. Found	12.34	ug/m3	
		Lab Fort Blk. % Rec.	103.94	%	50-150
	Benzene	Lab Fort Blank Amt.	15.95	ug/m3	
		Lab Fort Blk. Found	11.19	ug/m3	
		Lab Fort Blk. % Rec.	70.19	%	70-130
	Carbon Tetrachloride	Lab Fort Blank Amt.	31.45	ug/m3	
		Lab Fort Blk. Found	35.37	ug/m3	
		Lab Fort Blk. % Rec.	112.48	%	70-130
	Chloroform	Lab Fort Blank Amt.	24.33	ug/m3	
		Lab Fort Blk. Found	23.14	ug/m3	
		Lab Fort Blk. % Rec.	95.11	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	20.63	ug/m3	
		Lab Fort Blk. % Rec.	101.94	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	34.78	ug/m3	
		Lab Fort Blk. % Rec.	115.72	%	70-130
	Ethyl Acetate	Lab Fort Blank Amt.	18.01	ug/m3	
		Lab Fort Blk. Found	17.92	ug/m3	
		Lab Fort Blk. % Rec.	99.48	%	50-150
	Ethylbenzene	Lab Fort Blank Amt.	21.67	ug/m3	
		Lab Fort Blk. Found	18.19	ug/m3	
		Lab Fort Blk. % Rec.	83.92	%	70-130
	Hexane	Lab Fort Blank Amt.	17.62	ug/m3	
		Lab Fort Blk. Found	19.02	ug/m3	
		Lab Fort Blk. % Rec.	107.98	%	70-130
	Isopropanol	Lab Fort Blank Amt.	12.28	ug/m3	
		Lab Fort Blk. Found	15.44	ug/m3	
		Lab Fort Blk. % Rec.	125.66	%	50-150
	2-Butanone (MEK)	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	14.43	ug/m3	
		Lab Fort Blk. % Rec.	97.90	%	70-130
	4-Methyl-2-Pentanone (MIBK)	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	20.06	ug/m3	
		Lab Fort Blk. % Rec.	97.93	%	70-130
	Styrene	Lab Fort Blank Amt.	21.26	ug/m3	
		Lab Fort Blk. Found	19.13	ug/m3	
		Lab Fort Blk. % Rec.	89.95	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	33.90	ug/m3	
		Lab Fort Blk. Found	34.23	ug/m3	
		Lab Fort Blk. % Rec.	100.98	%	70-130
	Toluene	Lab Fort Blank Amt.	18.81	ug/m3	
		Lab Fort Blk. Found	14.57	ug/m3	

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Method Blanks

Report Date: 3/23/2009 Lims Bat # : LIMT-23960

QC Batch Number: BATCH-16276

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-93081					
	Toluene	Lab Fort Blk. % Rec.	77.48	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	26.43	ug/m3	
		Lab Fort Blk. % Rec.	96.92	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	26.87	ug/m3	
		Lab Fort Blk. Found	23.05	ug/m3	
		Lab Fort Blk. % Rec.	85.78	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	38.31	ug/m3	
		Lab Fort Blk. Found	42.21	ug/m3	
		Lab Fort Blk. % Rec.	110.16	%	70-130
	Trichlorofluoromethane	Lab Fort Blank Amt.	28.09	ug/m3	
		Lab Fort Blk. Found	34.31	ug/m3	
		Lab Fort Blk. % Rec.	122.14	%	70-130
	o-Xylene	Lab Fort Blank Amt.	21.71	ug/m3	
		Lab Fort Blk. Found	19.55	ug/m3	
		Lab Fort Blk. % Rec.	90.02	%	70-130
	m/p-Xylene	Lab Fort Blank Amt.	43.43	ug/m3	
		Lab Fort Blk. Found	36.51	ug/m3	
		Lab Fort Blk. % Rec.	84.06	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	35.61	ug/m3	
		Lab Fort Blk. % Rec.	118.46	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	35.69	ug/m3	
		Lab Fort Blk. % Rec.	118.74	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	15.87	ug/m3	
		Lab Fort Blk. % Rec.	78.42	%	70-130
	1,1-Dichloroethylene	Lab Fort Blank Amt.	19.83	ug/m3	
		Lab Fort Blk. Found	20.31	ug/m3	
		Lab Fort Blk. % Rec.	102.40	%	70-130
	Ethanol	Lab Fort Blank Amt.	9.42	ug/m3	
		Lab Fort Blk. Found	11.13	ug/m3	
		Lab Fort Blk. % Rec.	118.19	%	50-150
	4-Ethyl Toluene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	24.98	ug/m3	
		Lab Fort Blk. % Rec.	101.66	%	50-150
	Methyl tert-Butyl Ether (MTBE)	Lab Fort Blank Amt.	18.02	ug/m3	
		Lab Fort Blk. Found	16.46	ug/m3	
		Lab Fort Blk. % Rec.	91.31	%	70-130
	t-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	16.66	ug/m3	
		Lab Fort Blk. % Rec.	84.05	%	70-130

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 3/23/2009 Lims Bat # : LIMT-23960

QC Batch Number: BATCH-16276

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-93081					
	Vinyl Chloride	Lab Fort Blank Amt.	12.78	ug/m3	
		Lab Fort Blk. Found	11.26	ug/m3	
		Lab Fort Blk. % Rec.	88.12	%	70-130
	Methylene Chloride	Lab Fort Blank Amt.	17.36	ug/m3	
		Lab Fort Blk. Found	19.42	ug/m3	
		Lab Fort Blk. % Rec.	111.86	%	70-130
	Chlorobenzene	Lab Fort Blank Amt.	23.02	ug/m3	
		Lab Fort Blk. Found	20.82	ug/m3	
		Lab Fort Blk. % Rec.	90.41	%	70-130
	Chloromethane	Lab Fort Blank Amt.	10.32	ug/m3	
		Lab Fort Blk. Found	9.49	ug/m3	
		Lab Fort Blk. % Rec.	91.92	%	70-130
	Bromomethane	Lab Fort Blank Amt.	19.40	ug/m3	
		Lab Fort Blk. Found	19.77	ug/m3	
		Lab Fort Blk. % Rec.	101.90	%	70-130
	Chloroethane	Lab Fort Blank Amt.	13.19	ug/m3	
		Lab Fort Blk. Found	12.00	ug/m3	
		Lab Fort Blk. % Rec.	91.03	%	70-130
	cis-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	18.46	ug/m3	
		Lab Fort Blk. % Rec.	81.34	%	70-130
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	20.52	ug/m3	
		Lab Fort Blk. % Rec.	90.40	%	70-130
	Chlorodibromomethane	Lab Fort Blank Amt.	42.59	ug/m3	
		Lab Fort Blk. Found	49.72	ug/m3	
		Lab Fort Blk. % Rec.	116.74	%	70-130
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	21.66	ug/m3	
		Lab Fort Blk. % Rec.	79.41	%	70-130
	Bromoform	Lab Fort Blank Amt.	51.69	ug/m3	
		Lab Fort Blk. Found	71.52	ug/m3	
		Lab Fort Blk. % Rec.	138.36	%	70-130
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	34.33	ug/m3	
		Lab Fort Blk. Found	29.59	ug/m3	
		Lab Fort Blk. % Rec.	86.19	%	70-130
	Hexachlorobutadiene	Lab Fort Blank Amt.	53.33	ug/m3	
		Lab Fort Blk. Found	65.95	ug/m3	
		Lab Fort Blk. % Rec.	123.66	%	70-130
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	37.10	ug/m3	
		Lab Fort Blk. Found	43.74	ug/m3	
		Lab Fort Blk. % Rec.	117.90	%	70-130
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	

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Method Blanks

Report Date: 3/23/2009 Lims Bat # : LIMT-23960

QC Batch Number: BATCH-16276

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-93081					
	1,2,4-Trimethylbenzene	Lab Fort Blk. Found	24.04	ug/m3	
		Lab Fort Blk. % Rec.	97.81	%	70-130
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	23.87	ug/m3	
		Lab Fort Blk. % Rec.	97.12	%	70-130
	Cyclohexane	Lab Fort Blank Amt.	17.21	ug/m3	
		Lab Fort Blk. Found	16.30	ug/m3	
		Lab Fort Blk. % Rec.	94.73	%	50-150
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	16.95	ug/m3	
		Lab Fort Blk. % Rec.	85.51	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	23.10	ug/m3	
		Lab Fort Blk. Found	15.07	ug/m3	
		Lab Fort Blk. % Rec.	65.25	%	70-130
	Dichlorodifluoromethane	Lab Fort Blank Amt.	24.72	ug/m3	
		Lab Fort Blk. Found	27.32	ug/m3	
		Lab Fort Blk. % Rec.	110.50	%	70-130
	Benzyl Chloride	Lab Fort Blank Amt.	25.88	ug/m3	
		Lab Fort Blk. Found	28.51	ug/m3	
		Lab Fort Blk. % Rec.	110.16	%	70-130
	Carbon Disulfide	Lab Fort Blank Amt.	15.57	ug/m3	
		Lab Fort Blk. Found	14.26	ug/m3	
		Lab Fort Blk. % Rec.	91.64	%	70-130
	Vinyl Acetate	Lab Fort Blank Amt.	17.60	ug/m3	
		Lab Fort Blk. Found	18.36	ug/m3	
		Lab Fort Blk. % Rec.	104.30	%	70-130
	2-Hexanone	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	19.87	ug/m3	
		Lab Fort Blk. % Rec.	97.01	%	50-150
	Bromodichloromethane	Lab Fort Blank Amt.	33.50	ug/m3	
		Lab Fort Blk. Found	32.24	ug/m3	
		Lab Fort Blk. % Rec.	96.24	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	38.42	ug/m3	
		Lab Fort Blk. Found	34.64	ug/m3	
		Lab Fort Blk. % Rec.	90.16	%	70-130
	n-Heptane	Lab Fort Blank Amt.	20.49	ug/m3	
		Lab Fort Blk. Found	15.49	ug/m3	
		Lab Fort Blk. % Rec.	75.62	%	50-150
	1,2-Dichlorotetrafluoroethane (114)	Lab Fort Blank Amt.	34.95	ug/m3	
		Lab Fort Blk. Found	36.12	ug/m3	
		Lab Fort Blk. % Rec.	103.34	%	70-130
	Tetrahydrofuran	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	14.77	ug/m3	

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Method Blanks

Report Date: 3/23/2009 Lims Bat # : LIMT-23960

QC Batch Number: BATCH-16276

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-93081					
	Tetrahydrofuran	Lab Fort Blk. % Rec.	100.18	%	50-150
	Propene	Lab Fort Blank Amt.	8.60	ug/m3	
		Lab Fort Blk. Found	7.96	ug/m3	
		Lab Fort Blk. % Rec.	92.54	%	50-150
	1,3-Butadiene	Lab Fort Blank Amt.	11.06	ug/m3	
		Lab Fort Blk. Found	12.72	ug/m3	
		Lab Fort Blk. % Rec.	115.02	%	70-130
LFBLANK-93082					
	Acetone	Lab Fort Blank Amt.	11.87	ug/m3	
		Lab Fort Blk. Found	12.34	ug/m3	
		Lab Fort Blk. % Rec.	103.94	%	50-150
	Benzene	Lab Fort Blank Amt.	15.95	ug/m3	
		Lab Fort Blk. Found	11.19	ug/m3	
		Lab Fort Blk. % Rec.	70.19	%	70-130
	Carbon Tetrachloride	Lab Fort Blank Amt.	31.45	ug/m3	
		Lab Fort Blk. Found	35.37	ug/m3	
		Lab Fort Blk. % Rec.	112.48	%	70-130
	Chloroform	Lab Fort Blank Amt.	24.33	ug/m3	
		Lab Fort Blk. Found	23.14	ug/m3	
		Lab Fort Blk. % Rec.	95.11	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	20.63	ug/m3	
		Lab Fort Blk. % Rec.	101.94	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	34.78	ug/m3	
		Lab Fort Blk. % Rec.	115.72	%	70-130
	Ethyl Acetate	Lab Fort Blank Amt.	18.01	ug/m3	
		Lab Fort Blk. Found	17.92	ug/m3	
		Lab Fort Blk. % Rec.	99.48	%	50-150
	Ethylbenzene	Lab Fort Blank Amt.	21.67	ug/m3	
		Lab Fort Blk. Found	18.19	ug/m3	
		Lab Fort Blk. % Rec.	83.92	%	70-130
	Hexane	Lab Fort Blank Amt.	17.62	ug/m3	
		Lab Fort Blk. Found	19.02	ug/m3	
		Lab Fort Blk. % Rec.	107.98	%	70-130
	Isopropanol	Lab Fort Blank Amt.	12.28	ug/m3	
		Lab Fort Blk. Found	15.44	ug/m3	
		Lab Fort Blk. % Rec.	125.66	%	50-150
	2-Butanone (MEK)	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	14.43	ug/m3	
		Lab Fort Blk. % Rec.	97.90	%	70-130
	4-Methyl-2-Pentanone (MIBK)	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	20.06	ug/m3	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-93082					
	4-Methyl-2-Pentanone (MIBK)	Lab Fort Blk. % Rec.	97.93	%	70-130
	Styrene	Lab Fort Blank Amt.	21.26	ug/m3	
		Lab Fort Blk. Found	19.13	ug/m3	
		Lab Fort Blk. % Rec.	89.95	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	33.90	ug/m3	
		Lab Fort Blk. Found	34.23	ug/m3	
		Lab Fort Blk. % Rec.	100.98	%	70-130
	Toluene	Lab Fort Blank Amt.	18.81	ug/m3	
		Lab Fort Blk. Found	14.57	ug/m3	
		Lab Fort Blk. % Rec.	77.48	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	26.43	ug/m3	
		Lab Fort Blk. % Rec.	96.92	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	26.87	ug/m3	
		Lab Fort Blk. Found	23.05	ug/m3	
		Lab Fort Blk. % Rec.	85.78	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	38.31	ug/m3	
		Lab Fort Blk. Found	42.21	ug/m3	
		Lab Fort Blk. % Rec.	110.16	%	70-130
	Trichlorofluoromethane	Lab Fort Blank Amt.	28.09	ug/m3	
		Lab Fort Blk. Found	34.31	ug/m3	
		Lab Fort Blk. % Rec.	122.14	%	70-130
	o-Xylene	Lab Fort Blank Amt.	21.71	ug/m3	
		Lab Fort Blk. Found	19.55	ug/m3	
		Lab Fort Blk. % Rec.	90.02	%	70-130
	m/p-Xylene	Lab Fort Blank Amt.	43.43	ug/m3	
		Lab Fort Blk. Found	36.51	ug/m3	
		Lab Fort Blk. % Rec.	84.06	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	35.61	ug/m3	
		Lab Fort Blk. % Rec.	118.46	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	35.69	ug/m3	
		Lab Fort Blk. % Rec.	118.74	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	15.87	ug/m3	
		Lab Fort Blk. % Rec.	78.42	%	70-130
	1,1-Dichloroethylene	Lab Fort Blank Amt.	19.83	ug/m3	
		Lab Fort Blk. Found	20.31	ug/m3	
		Lab Fort Blk. % Rec.	102.40	%	70-130
	Ethanol	Lab Fort Blank Amt.	9.42	ug/m3	
		Lab Fort Blk. Found	11.13	ug/m3	
		Lab Fort Blk. % Rec.	118.19	%	50-150

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QC SUMMARY REPORT

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Method Blanks

Report Date: 3/23/2009 Lims Bat # : LIMT-23960

QC Batch Number: BATCH-16276

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-93082					
	4-Ethyl Toluene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	24.98	ug/m3	
		Lab Fort Blk. % Rec.	101.66	%	50-150
	Methyl tert-Butyl Ether (MTBE)	Lab Fort Blank Amt.	18.02	ug/m3	
		Lab Fort Blk. Found	16.46	ug/m3	
		Lab Fort Blk. % Rec.	91.31	%	70-130
	t-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	16.66	ug/m3	
		Lab Fort Blk. % Rec.	84.05	%	70-130
	Vinyl Chloride	Lab Fort Blank Amt.	12.78	ug/m3	
		Lab Fort Blk. Found	11.26	ug/m3	
		Lab Fort Blk. % Rec.	88.12	%	70-130
	Methylene Chloride	Lab Fort Blank Amt.	17.36	ug/m3	
		Lab Fort Blk. Found	19.42	ug/m3	
		Lab Fort Blk. % Rec.	111.86	%	70-130
	Chlorobenzene	Lab Fort Blank Amt.	23.02	ug/m3	
		Lab Fort Blk. Found	20.82	ug/m3	
		Lab Fort Blk. % Rec.	90.41	%	70-130
	Chloromethane	Lab Fort Blank Amt.	10.32	ug/m3	
		Lab Fort Blk. Found	9.49	ug/m3	
		Lab Fort Blk. % Rec.	91.92	%	70-130
	Bromomethane	Lab Fort Blank Amt.	19.40	ug/m3	
		Lab Fort Blk. Found	19.77	ug/m3	
		Lab Fort Blk. % Rec.	101.90	%	70-130
	Chloroethane	Lab Fort Blank Amt.	13.19	ug/m3	
		Lab Fort Blk. Found	12.00	ug/m3	
		Lab Fort Blk. % Rec.	91.03	%	70-130
	cis-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	18.46	ug/m3	
		Lab Fort Blk. % Rec.	81.34	%	70-130
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	20.52	ug/m3	
		Lab Fort Blk. % Rec.	90.40	%	70-130
	Chlorodibromomethane	Lab Fort Blank Amt.	42.59	ug/m3	
		Lab Fort Blk. Found	49.72	ug/m3	
		Lab Fort Blk. % Rec.	116.74	%	70-130
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	21.66	ug/m3	
		Lab Fort Blk. % Rec.	79.41	%	70-130
	Bromoform	Lab Fort Blank Amt.	51.69	ug/m3	
		Lab Fort Blk. Found	71.52	ug/m3	
		Lab Fort Blk. % Rec.	138.36	%	70-130
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	34.33	ug/m3	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-93082					
	1,1,2,2-Tetrachloroethane	Lab Fort Blk. Found	29.59	ug/m3	
		Lab Fort Blk. % Rec.	86.19	%	70-130
	Hexachlorobutadiene	Lab Fort Blank Amt.	53.33	ug/m3	
		Lab Fort Blk. Found	65.95	ug/m3	
		Lab Fort Blk. % Rec.	123.66	%	70-130
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	37.10	ug/m3	
		Lab Fort Blk. Found	43.74	ug/m3	
		Lab Fort Blk. % Rec.	117.90	%	70-130
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	24.04	ug/m3	
		Lab Fort Blk. % Rec.	97.81	%	70-130
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	23.87	ug/m3	
		Lab Fort Blk. % Rec.	97.12	%	70-130
	Cyclohexane	Lab Fort Blank Amt.	17.21	ug/m3	
		Lab Fort Blk. Found	16.30	ug/m3	
		Lab Fort Blk. % Rec.	94.73	%	50-150
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	16.95	ug/m3	
		Lab Fort Blk. % Rec.	85.51	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	23.10	ug/m3	
		Lab Fort Blk. Found	15.07	ug/m3	
		Lab Fort Blk. % Rec.	65.25	%	70-130
	Dichlorodifluoromethane	Lab Fort Blank Amt.	24.72	ug/m3	
		Lab Fort Blk. Found	27.32	ug/m3	
		Lab Fort Blk. % Rec.	110.50	%	70-130
	Benzyl Chloride	Lab Fort Blank Amt.	25.88	ug/m3	
		Lab Fort Blk. Found	28.51	ug/m3	
		Lab Fort Blk. % Rec.	110.16	%	70-130
	Carbon Disulfide	Lab Fort Blank Amt.	15.57	ug/m3	
		Lab Fort Blk. Found	14.26	ug/m3	
		Lab Fort Blk. % Rec.	91.64	%	70-130
	Vinyl Acetate	Lab Fort Blank Amt.	17.60	ug/m3	
		Lab Fort Blk. Found	18.36	ug/m3	
		Lab Fort Blk. % Rec.	104.30	%	70-130
	2-Hexanone	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	19.87	ug/m3	
		Lab Fort Blk. % Rec.	97.01	%	50-150
	Bromodichloromethane	Lab Fort Blank Amt.	33.50	ug/m3	
		Lab Fort Blk. Found	32.24	ug/m3	
		Lab Fort Blk. % Rec.	96.24	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	38.42	ug/m3	
		Lab Fort Blk. Found	34.64	ug/m3	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-93082					
	1,2-Dibromoethane	Lab Fort Blk. % Rec.	90.16	%	70-130
	n-Heptane	Lab Fort Blank Amt.	20.49	ug/m3	
		Lab Fort Blk. Found	15.49	ug/m3	
		Lab Fort Blk. % Rec.	75.62	%	50-150
	1,2-Dichlorotetrafluoroethane (114)	Lab Fort Blank Amt.	34.95	ug/m3	
		Lab Fort Blk. Found	36.12	ug/m3	
		Lab Fort Blk. % Rec.	103.34	%	70-130
	Tetrahydrofuran	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	14.77	ug/m3	
		Lab Fort Blk. % Rec.	100.18	%	50-150
	Propene	Lab Fort Blank Amt.	8.60	ug/m3	
		Lab Fort Blk. Found	7.96	ug/m3	
		Lab Fort Blk. % Rec.	92.54	%	50-150
	1,3-Butadiene	Lab Fort Blank Amt.	11.06	ug/m3	
		Lab Fort Blk. Found	12.72	ug/m3	
		Lab Fort Blk. % Rec.	115.02	%	70-130

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39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

NOTES:

QC Batch No. : BATCH-16276
Sample ID : LFBLANK-93081
Analysis : 1,2-Dichloropropane

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. ANY REPORTED RESULT FOR THIS COMPOUND IN THIS BATCH IS LIKELY TO BE BIASED ON THE LOW SIDE.

QC Batch No. : BATCH-16276
Sample ID : LFBLANK-93081
Analysis : Bromoform

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. DATA VALIDATION IS NOT AFFECTED SINCE ALL RESULTS ARE "NOT DETECTED" FOR ALL SAMPLES IN THIS BATCH FOR THIS COMPOUND AND BIAS IS ON THE HIGH SIDE.

QC Batch No. : BATCH-16276
Sample ID : LFBLANK-93082
Analysis : 1,2-Dichloropropane

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. ANY REPORTED RESULT FOR THIS COMPOUND IN THIS BATCH IS LIKELY TO BE BIASED ON THE LOW SIDE.

QC Batch No. : BATCH-16276
Sample ID : LFBLANK-93082
Analysis : Bromoform

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. DATA VALIDATION IS NOT AFFECTED SINCE ALL RESULTS ARE "NOT DETECTED" FOR ALL SAMPLES IN THIS BATCH FOR THIS COMPOUND AND BIAS IS ON THE HIGH SIDE.

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken though all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries

con-test® ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

39 SPRUCE ST
EAST LONGMEADOW, MA 01028

AIR SAMPLE CHAIN OF CUSTODY RECORD

LSMF-23960

Company Name: GZA GeoEnvironmental
Address: 535 Washington St 11th Floor
Attention. Chris Baron
Project Location:
Sampled By: C. Baron

Telephone: (716) 844-7046
Project # 21.0056445.0
Client PO #

DATA DELIVERY (check one):
☐ FAX ☒ EMAIL ☐ WEBSITE CLIENT
Fax # :
Email: Christopher.baron@gza.com
Format: ☐ EXCEL ☐ PDF ☐ GIS KEY ☐ OTHER___

Proposal Provided? (For Billing purposes)
☐ yes _____ proposal date

Field ID	Sample Description	Media	Lab #	Date Sampled Start Date Time	Date Sampled Stop Date Time	ONLY USE WHEN USING PUMPS Total Minutes Sampled	Flow Rate M³/Min. or L / Min.	Volume Liters or M³	Matrix Code*	ANALYSIS REQUESTED TO-15				" Hg Initial pressure	" Hg Final pressure	Lab Receipt Pressure	Summa Canister ID	Flow Controller ID
Pre Carbon		S	D9307791	3/13/09 1100	3/13/09 1104	4			O	X				30	0		1377	4000
Mid Carbon		S	92	3/13/09 1100	1100	01			O	X				25	0		1370	4010
Post Carbon		S	93	3/13/09 1100	1100	01			O	X				25	0		1511	4003

Please fill out completely, sign, date and retain the yellow copy for your record.

Summa canisters and flow controllers must be returned within 14 days of receipt or rental fees will apply.

Summa canisters will be retained for a minimum of 14 days after sampling date prior to cleaning.

Laboratory Comments:

CLIENT COMMENTS: Regulators were to be set for 5 minutes. Reg 4003 + 4010 sampling was complete in less than 10 seconds.

Relinquished by: (signature)	Date/Time:
Chris Baron	3/13/09 1500
Received by: (signature)	Date/Time:
	3/14/09 0957
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround **
☐ 7-Day
☒ 10-Day
☐ Other ___
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
*Approval Required

Special Requirements
Regulations:
Data Enhancement/RCP? ☐ Y ☒ N
Enhanced Data Package ☐ Y ☒ N
(Surchage Applies)
Required Detection Limits:
Other:

*Matrix Code:
SG= SOIL GAS
IA= INDOOR AIR
AMB=AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = other_____

**Media Codes:
S=summa can
TB=tedlar bag
P=PUF
T=tube
F= filter
C=cassette
O = Other_____

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAC & WBE/DBE Certified

United States

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Track by E-mail
Signature Tracking
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Wireless Tracking
Track with Quantum View
Access Flex Global View
Integrate Tracking Tools
Void a Shipment

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Search

Track Shipments

Track Packages & Freight Quantum View Flex Global View

Tracking Summary

Printer Friendl

Tracking Number:	1Z 75R 4V2 22 1002 338 1
	View package progress
Type:	Package
Status:	**Delivered**
Delivered On:	03/14/2009 9:57 A.M.
Delivered To:	E LONGMEADOW, MA, US
Signed By:	COLLINS
Service:	NEXT DAY AIR

Tracking results provided by UPS: 03/16/2009 9:56 A.M. ET

Printer Friendly

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East Longmeadow, MA
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AIR ONLY RECEIPT CHECKLIST

CLIENT NAME: GZA
RECEIVED BY: KM DATE: 02/14/09

Was chain of custody relinquished and signed? YES NO
Does Chain agree with samples? YES NO

If not, explain:

All Samples in good condition? YES NO

If not, explain:

Are there any on hold samples? YES NO STORED WHERE:

ARE THERE ANY RUSH OR SHORT HOLDING TIME SAMPLES? WHO WAS NOTIFIED?_____DATE_____TIME_____

Location where samples are stored: AIR

Permission to sub-contract samples? Yes No (circle)
(Walk in clients only) if not already approved
Client Signature_____

CONTAINERS SENT TO CON-TEST	# of containers
Summa cans	3
Tedlar Bags	
Regulators	
Restrictors	3
Tubes	
Other	

Was all media (used & unused) checked into the WASP asset management program? Y

Were all returned summa cans, restrictors, & regulators documented as returned in the AIR Lab Outbound excel sheet? Y

Were the Lab ID's documented in the Air Lab Outbound excel sheet? Y

Was the job documented in the Air Lab Log-In Access Database? Y

Laboratory comments:

CENTEK LABORATORIES, LLC

148 Midler Park Drive * Syracuse, NY 13206
Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752

www.CentekLabs.com

Analytical Report

NYSDOH ELAP
Certificate No. 11830

Mr. Chris Boron
GZA GeoEnvironmental of NY
535 Washington Street
11th Floor
Buffalo, NY 14203

TEL: 716-685-2300
FAX: 716-685-3629

Thursday, April 16, 2009
Order No.: C0904016

RE: Delphi Bldg/D

Dear Mr. Chris Boron:

Centek Laboratories, LLC received 3 sample(s) on 4/13/2009 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Analytical results relate to samples as received at laboratory. We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services.

Centek Laboratories is distinctively qualified to meet your needs for precise and timely volatile organic compound analysis. We perform all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service.

Please contact your client service representative at (315) 431-9730, if you would like any additional information regarding this report.

Thank you for using Centek Laboratories. This report can not be reproduced except in its entirety, without prior written authorization.

Sincerely,

Russell J. Pellegrino
Technical Director

Centek Laboratories

Date: *05-May-10*

CLIENT: GZA GeoEnvironmental of NY

Project: -Delphi Bldg/D

Lab Order: C0904016

CASE NARRATIVE

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

Centek Laboratories, LLC

Chain of Custody

143 Midler Park Drive
Syracuse, NY 13206
Phone: 315-431-9730 Fax: 315-431-9731 Emergency: 315-416-2751 / 416-2752

Site Name: Delphi Bldg D
Project: 21.0056995.0
PO#:
Other:

Detection Limit	Report Level
☐ 5ppbv	☐ Level I
☒ 1ug/M3	☐ Level II
☐ 1ug/M3 +TCE .25	☐ Cat "B" Like

Turnaround Time:	Check One	Rush TAT Surcharge %	Due Date:
5 Business Days	☒	0%	4/17/09
4 Business Days	☐	35%	
3 Business Days	☐	50%	
2 Business Days	☐	75%	
Next Day by 5pm	☐	100%	
Next Day by Noon	☐	150%	
Same Day	☐	200%	

Company: GZA GeoEnvironmental of NY
Report: 535 Washington St. 11th Floor J Buffalo NY 14203
Phone: 716-854-7046
Fax:
Email: christopher.baron@gza.com

Company:
Invoice: SAME
Phone:
Fax:
Email:

Sample ID	Date Sampled	Canister Number	Regulator Number	Analysis Request	Comments	Vacuum Start/Stop
Pre Carbon	4/9/09	418	173	TO-15	935 start 945 stop	28 / 0
Mid Carbon	4/9/09	431	277	TO-15	934 " 945 "	29 / 0
Post Carbon	4/9/09	159	451	TO-15	934 " 945 "	29 / 0

Chain of Custody	Print Name	Signature	Date/Time	Courier:
Sampled by:	Chris Baron			UPS
Relinquished by:				
Received at Lab by:	Dan Sra'a		4/13/09	

Centek Laboratories, LLC

Date: *05-May-10*

CLIENT: GZA GeoEnvironmental of NY
Project: Delphi Bldg/D
Lab Order: C0904016

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C0904016-001A	Pre Carbon	418,173	4/9/2009	4/13/2009
C0904016-002A	Mid Carbon	431,277	4/9/2009	4/13/2009
C0904016-003A	Post Carbon	159,451	4/9/2009	4/13/2009

Centek Laboratories, LLC

05-May-10

Lab Order: C0904016
Client: GZA GeoEnvironmental of NY
Project: Delphi Bldg/D

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C0904016-001A	Pre Carbon	4/9/2009	Air	1ug/M3 by Method TO15			4/15/2009
				1ug/M3 by Method TO15			4/15/2009
				1ug/M3 by Method TO15			4/15/2009
				1ug/M3 by Method TO15			4/15/2009
C0904016-002A	Mid Carbon			1ug/M3 by Method TO15			4/16/2009
				1ug/M3 by Method TO15			4/15/2009
				1ug/M3 by Method TO15			4/15/2009
C0904016-003A	Post Carbon			1ug/M3 by Method TO15			4/16/2009
				1ug/M3 by Method TO15			4/15/2009
				1ug/M3 by Method TO15			4/15/2009

Centek Laboratories

Analytical Report

Date: *05-May-10*

CLIENT:	GZA GeoEnvironmental of NY	**Client Sample ID:**	Pre Carbon
Lab Order:	C0904016	**Tag Number:**	418,173
Project:	Delphi Bldg/D	**Collection Date:**	4/9/2009
Lab ID:	C0904016-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab's Vacuum Reading	-3			"Hg		4/13/2009
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
1,1,2-Trichloroethane	0.54	0.15		ppbV	1	4/15/2009 8:38:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
1,1-Dichloroethene	3.8	1.5		ppbV	10	4/15/2009 12:18:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
1,2,4-Trimethylbenzene	0.25	0.15		ppbV	1	4/15/2009 8:38:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
1,3,5-Trimethylbenzene	0.10	0.15	J	ppbV	1	4/15/2009 8:38:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
1,4-Dichlorobenzene	0.39	0.15		ppbV	1	4/15/2009 8:38:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	4/15/2009 8:38:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
4-ethyltoluene	0.11	0.15	J	ppbV	1	4/15/2009 8:38:00 AM
Acetone	210	73		ppbV	243	4/15/2009 8:35:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
Benzene	0.86	0.15		ppbV	1	4/15/2009 8:38:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
Bromoform	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
Carbon disulfide	0.34	0.15		ppbV	1	4/15/2009 8:38:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
Chloroform	1.3	0.15		ppbV	1	4/15/2009 8:38:00 AM
Chloromethane	0.40	0.15		ppbV	1	4/15/2009 8:38:00 AM
cis-1,2-Dichloroethene	100	36		ppbV	243	4/15/2009 8:35:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
Cyclohexane	7.3	1.5		ppbV	10	4/15/2009 12:18:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
Ethyl acetate	2.5	2.5		ppbV	10	4/15/2009 12:18:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

CLIENT:	GZA GeoEnvironmental of NY	**Client Sample ID:**	Pre Carbon
Lab Order:	C0904016	**Tag Number:**	418,173
Project:	Delphi Bldg/D	**Collection Date:**	4/9/2009
Lab ID:	C0904016-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.27	0.15		ppbV	1	4/15/2009 8:38:00 AM
Freon 11	0.26	0.15		ppbV	1	4/15/2009 8:38:00 AM
Freon 113	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
Freon 114	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
Freon 12	0.46	0.15		ppbV	1	4/15/2009 8:38:00 AM
Heptane	5.8	1.5		ppbV	10	4/15/2009 12:18:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
Hexane	92	36		ppbV	243	4/15/2009 8:35:00 PM
Isopropyl alcohol	21	1.5		ppbV	10	4/15/2009 12:18:00 AM
m&p-Xylene	1.6	0.30		ppbV	1	4/15/2009 8:38:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	4/15/2009 8:38:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	4/15/2009 8:38:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	4/15/2009 8:38:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
Methylene chloride	5.0	1.5		ppbV	10	4/15/2009 12:18:00 AM
o-Xylene	0.41	0.15		ppbV	1	4/15/2009 8:38:00 AM
Propylene	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
Styrene	0.14	0.15	J	ppbV	1	4/15/2009 8:38:00 AM
Tetrachloroethylene	3200	360		ppbV	2430	4/15/2009 8:01:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
Toluene	68	36		ppbV	243	4/15/2009 8:35:00 PM
trans-1,2-Dichloroethene	8.4	1.5		ppbV	10	4/15/2009 12:18:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
Trichloroethene	97	36		ppbV	243	4/15/2009 8:35:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	4/15/2009 8:38:00 AM
Vinyl chloride	0.21	0.15		ppbV	1	4/15/2009 8:38:00 AM
Surr: Bromofluorobenzene	124	70-130		%REC	1	4/15/2009 8:38:00 AM

CLIENT:	GZA GeoEnvironmental of NY	**Client Sample ID:**	Mid Carbon
Lab Order:	C0904016	**Tag Number:**	431,277
Project:	Delphi Bldg/D	**Collection Date:**	4/9/2009
Lab ID:	C0904016-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab's Vacuum Reading	-3			"Hg		4/13/2009
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
1,1-Dichloroethene	21	1.5		ppbV	10	4/15/2009 12:51:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
1,2,4-Trimethylbenzene	0.14	0.15	J	ppbV	1	4/15/2009 7:30:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
1,4-Dichlorobenzene	0.30	0.15		ppbV	1	4/15/2009 7:30:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	4/15/2009 7:30:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
Acetone	68	27		ppbV	90	4/16/2009 9:17:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
Benzene	0.25	0.15		ppbV	1	4/15/2009 7:30:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
Bromoform	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
Carbon disulfide	0.64	0.15		ppbV	1	4/15/2009 7:30:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
Chloroform	0.11	0.15	J	ppbV	1	4/15/2009 7:30:00 AM
Chloromethane	0.33	0.15		ppbV	1	4/15/2009 7:30:00 AM
cis-1,2-Dichloroethene	1.1	0.15		ppbV	1	4/15/2009 7:30:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
Cyclohexane	1.5	0.15		ppbV	1	4/15/2009 7:30:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
Ethyl acetate	1.7	0.25		ppbV	1	4/15/2009 7:30:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories

Analytical Report

Date: *05-May-10*

CLIENT:	GZA GeoEnvironmental of NY	**Client Sample ID:**	Mid Carbon
Lab Order:	C0904016	**Tag Number:**	431,277
Project:	Delphi Bldg/D	**Collection Date:**	4/9/2009
Lab ID:	C0904016-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
Freon 11	0.56	0.15		ppbV	1	4/15/2009 7:30:00 AM
Freon 113	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
Freon 114	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
Freon 12	0.44	0.15		ppbV	1	4/15/2009 7:30:00 AM
Heptane	2.0	0.15		ppbV	1	4/15/2009 7:30:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
Hexane	17	14		ppbV	90	4/16/2009 9:17:00 AM
Isopropyl alcohol	14	1.5		ppbV	10	4/15/2009 12:51:00 AM
m&p-Xylene	0.41	0.30		ppbV	1	4/15/2009 7:30:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	4/15/2009 7:30:00 AM
Methyl Ethyl Ketone	13	3.0		ppbV	10	4/15/2009 12:51:00 AM
Methyl Isobutyl Ketone	0.25	0.30	J	ppbV	1	4/15/2009 7:30:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
Methylene chloride	6.1	1.5		ppbV	10	4/15/2009 12:51:00 AM
o-Xylene	0.12	0.15	J	ppbV	1	4/15/2009 7:30:00 AM
Propylene	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
Styrene	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
Tetrachloroethylene	3.7	1.5		ppbV	10	4/15/2009 12:51:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
Toluene	33	14		ppbV	90	4/16/2009 9:17:00 AM
trans-1,2-Dichloroethene	0.38	0.15		ppbV	1	4/15/2009 7:30:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
Trichloroethene	0.25	0.15		ppbV	1	4/15/2009 7:30:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	4/15/2009 7:30:00 AM
Vinyl chloride	0.21	0.15		ppbV	1	4/15/2009 7:30:00 AM
Surr: Bromofluorobenzene	89.0	70-130		%REC	1	4/15/2009 7:30:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

CLIENT:	GZA GeoEnvironmental of NY	**Client Sample ID:**	Post Carbon
Lab Order:	C0904016	**Tag Number:**	159,451
Project:	Delphi Bldg/D	**Collection Date:**	4/9/2009
Lab ID:	C0904016-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab's Vacuum Reading	-3			"Hg		4/13/2009
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
1,4-Dichlorobenzene	0.28	0.15		ppbV	1	4/15/2009 8:04:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	4/15/2009 8:04:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Acetone	59	27		ppbV	90	4/16/2009 9:50:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Benzene	0.20	0.15		ppbV	1	4/15/2009 8:04:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Bromoform	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Carbon disulfide	0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Chloroform	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Chloromethane	0.43	0.15		ppbV	1	4/15/2009 8:04:00 AM
cis-1,2-Dichloroethene	0.12	0.15	J	ppbV	1	4/15/2009 8:04:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Ethyl acetate	0.97	0.25		ppbV	1	4/15/2009 8:04:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

CLIENT:	GZA GeoEnvironmental of NY	**Client Sample ID:**	Post Carbon
Lab Order:	C0904016	**Tag Number:**	159,451
Project:	Delphi Bldg/D	**Collection Date:**	4/9/2009
Lab ID:	C0904016-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.13	0.15	J	ppbV	1	4/15/2009 8:04:00 AM
Freon 11	0.13	0.15	J	ppbV	1	4/15/2009 8:04:00 AM
Freon 113	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Freon 114	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Freon 12	0.50	0.15		ppbV	1	4/15/2009 8:04:00 AM
Heptane	1.3	0.15		ppbV	1	4/15/2009 8:04:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Hexane	20	14		ppbV	90	4/16/2009 9:50:00 AM
Isopropyl alcohol	11	1.5		ppbV	10	4/15/2009 1:24:00 AM
m&p-Xylene	0.29	0.30	J	ppbV	1	4/15/2009 8:04:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	4/15/2009 8:04:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	4/15/2009 8:04:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	4/15/2009 8:04:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Methylene chloride	15	1.5		ppbV	10	4/15/2009 1:24:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Propylene	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Styrene	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Tetrachloroethylene	0.88	0.15		ppbV	1	4/15/2009 8:04:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Toluene	23	14		ppbV	90	4/16/2009 9:50:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Trichloroethene	0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	4/15/2009 8:04:00 AM
Vinyl chloride	0.21	0.15		ppbV	1	4/15/2009 8:04:00 AM
Surr: Bromofluorobenzene	94.0	70-130		%REC	1	4/15/2009 8:04:00 AM

Centek Laboratories

Analytical Report

Date: *05-May-10*

CLIENT:	GZA GeoEnvironmental of NY	**Client Sample ID:**	Pre Carbon
Lab Order:	C0904016	**Tag Number:**	418,173
Project:	Delphi Bldg/D	**Collection Date:**	4/9/2009
Lab ID:	C0904016-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	4/15/2009 8:38:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	4/15/2009 8:38:00 AM
1,1,2-Trichloroethane	3.0	0.83		ug/m3	1	4/15/2009 8:38:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	4/15/2009 8:38:00 AM
1,1-Dichloroethene	15	6.0		ug/m3	10	4/15/2009 12:18:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	4/15/2009 8:38:00 AM
1,2,4-Trimethylbenzene	1.2	0.75		ug/m3	1	4/15/2009 8:38:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	4/15/2009 8:38:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	4/15/2009 8:38:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	4/15/2009 8:38:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	4/15/2009 8:38:00 AM
1,3,5-Trimethylbenzene	0.50	0.75	J	ug/m3	1	4/15/2009 8:38:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	4/15/2009 8:38:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	4/15/2009 8:38:00 AM
1,4-Dichlorobenzene	2.4	0.92		ug/m3	1	4/15/2009 8:38:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	4/15/2009 8:38:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	4/15/2009 8:38:00 AM
4-ethyltoluene	0.55	0.75	J	ug/m3	1	4/15/2009 8:38:00 AM
Acetone	500	180		ug/m3	243	4/15/2009 8:35:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	4/15/2009 8:38:00 AM
Benzene	2.8	0.49		ug/m3	1	4/15/2009 8:38:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	4/15/2009 8:38:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	4/15/2009 8:38:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	4/15/2009 8:38:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	4/15/2009 8:38:00 AM
Carbon disulfide	1.1	0.47		ug/m3	1	4/15/2009 8:38:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	4/15/2009 8:38:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	4/15/2009 8:38:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	4/15/2009 8:38:00 AM
Chloroform	6.3	0.74		ug/m3	1	4/15/2009 8:38:00 AM
Chloromethane	0.84	0.31		ug/m3	1	4/15/2009 8:38:00 AM
cis-1,2-Dichloroethene	410	150		ug/m3	243	4/15/2009 8:35:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	4/15/2009 8:38:00 AM
Cyclohexane	26	5.2		ug/m3	10	4/15/2009 12:18:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	4/15/2009 8:38:00 AM
Ethyl acetate	9.2	9.2		ug/m3	10	4/15/2009 12:18:00 AM
Ethylbenzene	1.2	0.66		ug/m3	1	4/15/2009 8:38:00 AM
Freon 11	1.5	0.86		ug/m3	1	4/15/2009 8:38:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

CLIENT:	GZA GeoEnvironmental of NY	**Client Sample ID:**	Pre Carbon
Lab Order:	C0904016	**Tag Number:**	418,173
Project:	Delphi Bldg/D	**Collection Date:**	4/9/2009
Lab ID:	C0904016-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 113	< 1.2	1.2		ug/m3	1	4/15/2009 8:38:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	4/15/2009 8:38:00 AM
Freon 12	2.3	0.75		ug/m3	1	4/15/2009 8:38:00 AM
Heptane	24	6.2		ug/m3	10	4/15/2009 12:18:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	4/15/2009 8:38:00 AM
Hexane	330	130		ug/m3	243	4/15/2009 8:35:00 PM
Isopropyl alcohol	52	3.7		ug/m3	10	4/15/2009 12:18:00 AM
m&p-Xylene	6.9	1.3		ug/m3	1	4/15/2009 8:38:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	4/15/2009 8:38:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	4/15/2009 8:38:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	4/15/2009 8:38:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	4/15/2009 8:38:00 AM
Methylene chloride	18	5.3		ug/m3	10	4/15/2009 12:18:00 AM
o-Xylene	1.8	0.66		ug/m3	1	4/15/2009 8:38:00 AM
Propylene	< 0.26	0.26		ug/m3	1	4/15/2009 8:38:00 AM
Styrene	0.61	0.65	J	ug/m3	1	4/15/2009 8:38:00 AM
Tetrachloroethylene	22000	2500		ug/m3	2430	4/15/2009 8:01:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	4/15/2009 8:38:00 AM
Toluene	260	140		ug/m3	243	4/15/2009 8:35:00 PM
trans-1,2-Dichloroethene	34	6.0		ug/m3	10	4/15/2009 12:18:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	4/15/2009 8:38:00 AM
Trichloroethene	530	200		ug/m3	243	4/15/2009 8:35:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	4/15/2009 8:38:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	4/15/2009 8:38:00 AM
Vinyl chloride	0.55	0.39		ug/m3	1	4/15/2009 8:38:00 AM

CLIENT:	GZA GeoEnvironmental of NY	**Client Sample ID:**	Mid Carbon
Lab Order:	C0904016	**Tag Number:**	431,277
Project:	Delphi Bldg/D	**Collection Date:**	4/9/2009
Lab ID:	C0904016-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	4/15/2009 7:30:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	4/15/2009 7:30:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	4/15/2009 7:30:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	4/15/2009 7:30:00 AM
1,1-Dichloroethene	85	6.0		ug/m3	10	4/15/2009 12:51:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	4/15/2009 7:30:00 AM
1,2,4-Trimethylbenzene	0.70	0.75	J	ug/m3	1	4/15/2009 7:30:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	4/15/2009 7:30:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	4/15/2009 7:30:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	4/15/2009 7:30:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	4/15/2009 7:30:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	4/15/2009 7:30:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	4/15/2009 7:30:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	4/15/2009 7:30:00 AM
1,4-Dichlorobenzene	1.8	0.92		ug/m3	1	4/15/2009 7:30:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	4/15/2009 7:30:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	4/15/2009 7:30:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	4/15/2009 7:30:00 AM
Acetone	160	65		ug/m3	90	4/16/2009 9:17:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	4/15/2009 7:30:00 AM
Benzene	0.81	0.49		ug/m3	1	4/15/2009 7:30:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	4/15/2009 7:30:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	4/15/2009 7:30:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	4/15/2009 7:30:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	4/15/2009 7:30:00 AM
Carbon disulfide	2.0	0.47		ug/m3	1	4/15/2009 7:30:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	4/15/2009 7:30:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	4/15/2009 7:30:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	4/15/2009 7:30:00 AM
Chloroform	0.55	0.74	J	ug/m3	1	4/15/2009 7:30:00 AM
Chloromethane	0.69	0.31		ug/m3	1	4/15/2009 7:30:00 AM
cis-1,2-Dichloroethene	4.6	0.60		ug/m3	1	4/15/2009 7:30:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	4/15/2009 7:30:00 AM
Cyclohexane	5.3	0.52		ug/m3	1	4/15/2009 7:30:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	4/15/2009 7:30:00 AM
Ethyl acetate	6.2	0.92		ug/m3	1	4/15/2009 7:30:00 AM
Ethylbenzene	0.66	0.66		ug/m3	1	4/15/2009 7:30:00 AM
Freon 11	3.2	0.86		ug/m3	1	4/15/2009 7:30:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories

Analytical Report

Date: *05-May-10*

CLIENT:	GZA GeoEnvironmental of NY	**Client Sample ID:**	Mid Carbon
Lab Order:	C0904016	**Tag Number:**	431,277
Project:	Delphi Bldg/D	**Collection Date:**	4/9/2009
Lab ID:	C0904016-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 113	< 1.2	1.2		ug/m3	1	4/15/2009 7:30:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	4/15/2009 7:30:00 AM
Freon 12	2.2	0.75		ug/m3	1	4/15/2009 7:30:00 AM
Heptane	8.1	0.62		ug/m3	1	4/15/2009 7:30:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	4/15/2009 7:30:00 AM
Hexane	61	50		ug/m3	90	4/16/2009 9:17:00 AM
Isopropyl alcohol	35	3.7		ug/m3	10	4/15/2009 12:51:00 AM
m&p-Xylene	1.8	1.3		ug/m3	1	4/15/2009 7:30:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	4/15/2009 7:30:00 AM
Methyl Ethyl Ketone	40	9.0		ug/m3	10	4/15/2009 12:51:00 AM
Methyl Isobutyl Ketone	1.0	1.2	J	ug/m3	1	4/15/2009 7:30:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	4/15/2009 7:30:00 AM
Methylene chloride	22	5.3		ug/m3	10	4/15/2009 12:51:00 AM
o-Xylene	0.53	0.66	J	ug/m3	1	4/15/2009 7:30:00 AM
Propylene	< 0.26	0.26		ug/m3	1	4/15/2009 7:30:00 AM
Styrene	< 0.65	0.65		ug/m3	1	4/15/2009 7:30:00 AM
Tetrachloroethylene	26	10		ug/m3	10	4/15/2009 12:51:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	4/15/2009 7:30:00 AM
Toluene	130	54		ug/m3	90	4/16/2009 9:17:00 AM
trans-1,2-Dichloroethene	1.5	0.60		ug/m3	1	4/15/2009 7:30:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	4/15/2009 7:30:00 AM
Trichloroethene	1.4	0.82		ug/m3	1	4/15/2009 7:30:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	4/15/2009 7:30:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	4/15/2009 7:30:00 AM
Vinyl chloride	0.55	0.39		ug/m3	1	4/15/2009 7:30:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	N	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

CLIENT:	GZA GeoEnvironmental of NY	**Client Sample ID:**	Post Carbon
Lab Order:	C0904016	**Tag Number:**	159,451
Project:	Delphi Bldg/D	**Collection Date:**	4/9/2009
Lab ID:	C0904016-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	4/15/2009 8:04:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	4/15/2009 8:04:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	4/15/2009 8:04:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	4/15/2009 8:04:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	4/15/2009 8:04:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	4/15/2009 8:04:00 AM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	4/15/2009 8:04:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	4/15/2009 8:04:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	4/15/2009 8:04:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	4/15/2009 8:04:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	4/15/2009 8:04:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	4/15/2009 8:04:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	4/15/2009 8:04:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	4/15/2009 8:04:00 AM
1,4-Dichlorobenzene	1.7	0.92		ug/m3	1	4/15/2009 8:04:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	4/15/2009 8:04:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	4/15/2009 8:04:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	4/15/2009 8:04:00 AM
Acetone	140	65		ug/m3	90	4/16/2009 9:50:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	4/15/2009 8:04:00 AM
Benzene	0.65	0.49		ug/m3	1	4/15/2009 8:04:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	4/15/2009 8:04:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	4/15/2009 8:04:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	4/15/2009 8:04:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	4/15/2009 8:04:00 AM
Carbon disulfide	0.47	0.47		ug/m3	1	4/15/2009 8:04:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	4/15/2009 8:04:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	4/15/2009 8:04:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	4/15/2009 8:04:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	4/15/2009 8:04:00 AM
Chloromethane	0.90	0.31		ug/m3	1	4/15/2009 8:04:00 AM
cis-1,2-Dichloroethene	0.48	0.60	J	ug/m3	1	4/15/2009 8:04:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	4/15/2009 8:04:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	4/15/2009 8:04:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	4/15/2009 8:04:00 AM
Ethyl acetate	3.6	0.92		ug/m3	1	4/15/2009 8:04:00 AM
Ethylbenzene	0.57	0.66	J	ug/m3	1	4/15/2009 8:04:00 AM
Freon 11	0.74	0.86	J	ug/m3	1	4/15/2009 8:04:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

CLIENT:	GZA GeoEnvironmental of NY	**Client Sample ID:**	Post Carbon
Lab Order:	C0904016	**Tag Number:**	159,451
Project:	Delphi Bldg/D	**Collection Date:**	4/9/2009
Lab ID:	C0904016-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 113	< 1.2	1.2		ug/m3	1	4/15/2009 8:04:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	4/15/2009 8:04:00 AM
Freon 12	2.5	0.75		ug/m3	1	4/15/2009 8:04:00 AM
Heptane	5.3	0.62		ug/m3	1	4/15/2009 8:04:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	4/15/2009 8:04:00 AM
Hexane	71	50		ug/m3	90	4/16/2009 9:50:00 AM
Isopropyl alcohol	28	3.7		ug/m3	10	4/15/2009 1:24:00 AM
m&p-Xylene	1.3	1.3	J	ug/m3	1	4/15/2009 8:04:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	4/15/2009 8:04:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	4/15/2009 8:04:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	4/15/2009 8:04:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	4/15/2009 8:04:00 AM
Methylene chloride	54	5.3		ug/m3	10	4/15/2009 1:24:00 AM
o-Xylene	< 0.66	0.66		ug/m3	1	4/15/2009 8:04:00 AM
Propylene	< 0.26	0.26		ug/m3	1	4/15/2009 8:04:00 AM
Styrene	< 0.65	0.65		ug/m3	1	4/15/2009 8:04:00 AM
Tetrachloroethylene	6.1	1.0		ug/m3	1	4/15/2009 8:04:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	4/15/2009 8:04:00 AM
Toluene	90	54		ug/m3	90	4/16/2009 9:50:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	4/15/2009 8:04:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	4/15/2009 8:04:00 AM
Trichloroethene	0.82	0.82		ug/m3	1	4/15/2009 8:04:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	4/15/2009 8:04:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	4/15/2009 8:04:00 AM
Vinyl chloride	0.55	0.39		ug/m3	1	4/15/2009 8:04:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GM LOCKPORT
BLDG 10 SVE/SSD
SUMMARY OF GC SCREENING RESULTS
36795-000

	2/8/2010			
Target Compound	Pre-Carbon (mg/m^3)	Pre-Carbon DUP (mg/m^3)	Mid-Carbon (mg/m^3)	Post-Carbon (mg/m^3)
Methane	0.013 U	0.013 U	0.013 U	0.013 U
Vinyl chloride	**0.504**	0.018 U	0.018 U	**0.500**
1,1-Dichloroethene	0.036 U	0.036 U	0.036 U	0.036 U
Methylene chloride	0.075 U	0.075 U	0.075 U	0.075 U
trans 1,2-Dichloroethene	0.037 U	0.037 U	0.037 U	0.037 U
1,1-Dichloroethane	0.033 U	0.033 U	0.033 U	0.033 U
MTBE	0.014 U	0.014 U	0.014 U	0.014 U
2-Butanone (MEK)	0.016 U	0.016 U	0.016 U	0.016 U
cis 1,2-Dichloroethene	0.047 U	0.047 U	0.047 U	0.047 U
Chloroform	**4.69**	**4.51**	0.130 U	0.130 U
1,1,1-Trichloroethane	0.043 U	0.043 U	0.043 U	0.043 U
Benzene	0.009 U	0.009 U	0.009 U	0.009 U
1,2-Dichloropropane	0.027 U	0.027 U	0.027 U	0.027 U
Trichloroethene	**0.557**	**0.564**	**0.772**	0.042 U
Toluene	0.009 U	0.009 U	0.009 U	0.009 U
Tetrachloroethene	**48.1**	**48.3**	**40.4**	**8.80**
Chlorobenzene	0.012 U	0.012 U	0.012 U	0.012 U
Ethylbenzene	0.008 U	0.008 U	0.008 U	0.008 U
m/p-Xylene	0.009 U	0.009 U	0.009 U	0.009 U
o-Xylene	0.007 U	0.007 U	0.007 U	0.007 U
Unknown TPH	**6.00**	**6.00**	0.020 U	0.020 U
Flow Rate (SCFM)	280	280	280	280
Mass Rate (lb/hr)	0.063	0.062	0.043	0.010
Mass Rate (lb/day)	1.51	1.49	1.04	0.23
Removal Efficiency (Pre to Mid)	31.3%			
Removal Efficiency (Pre to Post)	84.5%			

GAS CHROMATOGRAPHY REPORT SHEET
SCREENING RESULTS
DIRECT INJECT

Date of Analysis: 17-Mar-10

Client: GM Lockport
File No: 36795-000
Sample Type: BLDG-10 SVE/SSD

0.500

Operator: TJV
QA/QC: DMC

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Pre-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 3/16/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	14.356	14.050	2.7	1.733	3.47	mg/m^3	0.71	ppmV	0.00	0.09	5.40	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316	19.045	1.2	0.261	0.52	mg/m^3	0.10	ppmV	0.00	0.01	0.81	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419	24.162	121.5	27.096	54.19	mg/m^3	7.99	ppmV	0.06	1.36	84.44	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			30.0	3.000	6.00	mg/m^3	1.05	ppmV	0.01	0.15	9.35	
			total volatiles			155		**64.2**	mg/m^3	**9.8**	ppmV	**0.07**	**1.62**	**100.00**	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Mid-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 3/16/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	14.356			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316	19.089	3.3	0.707	1.41	mg/m^3	0.26	ppmV	0.00	0.04	3.19	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419	24.200	85.0	18.958	37.92	mg/m^3	5.59	ppmV	0.04	0.95	85.53	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			25.0	2.500	5.00	mg/m^3	0.87	ppmV	0.01	0.13	11.28	
			total volatiles			113		**44.3**	mg/m^3	**6.7**	ppmV	**0.05**	**1.12**	**100.00**	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Mid-Carbon (DUP)	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 3/16/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	14.356			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Flow = 260 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316	18.996	3.2	0.678	1.36	mg/m^3	0.25	ppmV	0.00	0.03	3.38	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419	24.107	73.3	16.346	32.69	mg/m^3	4.82	ppmV	0.03	0.82	81.63	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			30.0	3.000	6.00	mg/m^3	1.05	ppmV	0.01	0.15	14.98	
			total volatiles			106		**40.0**	mg/m^3	**6.1**	ppmV	**0.04**	**1.01**	**100.00**	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Post-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 3/16/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	14.356			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Flow = 260 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			25.0	2.500	5.00	mg/m^3	0.87	ppmV	0.01	0.13	100.00	
			total volatiles			25		**5.0**	mg/m^3	**0.9**	ppmV	**0.01**	**0.13**	**100.00**	

GAS CHROMATOGRAPHY REPORT SHEET
SCREENING RESULTS
DIRECT INJECT

Date of Analysis: 28-Apr-10

Client: GM Lockport
File No: 36795-000
Sample Type: BLDG-10 SVE/SSD

Operator: TJV
QA/QC: DMC

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Pre-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 4/26/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	14.356	14.335	5.7	3.694	7.39	mg/m^3	1.51	ppmV	0.01	0.19	12.57	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316	19.250	1.3	0.278	0.56	mg/m^3	0.10	ppmV	0.00	0.01	0.95	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419	24.292	109.5	24.407	48.81	mg/m^3	7.20	ppmV	0.05	1.23	83.08	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			10.0	1.000	2.00	mg/m^3	0.35	ppmV	0.00	0.05	3.40	
			total volatiles			126		**58.8**	mg/m^3	**9.2**	ppmV	**0.06**	**1.48**	**100.00**	

Sample Identification	Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
	500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID: Mid-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date: 4/26/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:	500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp = °F	500	67-66-3	chloroform	14.356			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Flow = 280 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	79-01-6	trichloroethene	19.316	19.296	1.2	0.263	0.53	mg/m^3	0.10	ppmV	0.00	0.01	1.32	
	500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	127-18-4	tetrachloroethene	24.419	24.337	81.5	18.172	36.34	mg/m^3	5.36	ppmV	0.04	0.91	91.15	
	500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
	500		Unknown TPH			15.0	1.500	3.00	mg/m^3	0.52	ppmV	0.00	0.08	7.52	
			total volatiles			98		**39.9**	mg/m^3	**6.0**	ppmV	**0.04**	**1.00**	**100.00**	

Sample Identification		Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
		500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
ID:	Duplicate	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Date:	4/26/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Time:		500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
Temp =	°F	500	67-66-3	chloroform	14.356	14.368	5.8	3.786	7.57	mg/m^3	1.55	ppmV	0.01	0.19	12.46	
Flow =	280 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	79-01-6	trichloroethene	19.316	19.274	1.4	0.298	0.60	mg/m^3	0.11	ppmV	0.00	0.01	0.98	
		500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	127-18-4	tetrachloroethene	24.419	24.315	104.5	23.296	46.59	mg/m^3	6.87	ppmV	0.05	1.17	76.68	
		500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	0.00	
		500		Unknown TPH			30.0	3.000	6.00	mg/m^3	1.05	ppmV	0.01	0.15	9.87	
				total volatiles			142		**60.8**	mg/m^3	**9.6**	ppmV	**0.06**	**1.53**	**100.00**	

Sample Identification		Sample Volume (uL)	CASRN	Target Compound	Cal. Ret. Time (min.)	Ret. Time (min.)	Det. Resp. (Area Cts.)	On-Col Mass (ng)	Conc.		Conc.		Mass Rmvd (lb/hr)	Mass Rmvd (lb/day)	%Total Mass Rmvd	REMARKS
		500	74-82-8	methane	2.350			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	75-01-4	vinyl chloride	3.680			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	75-35-4	1,1-dichloroethene	8.076			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	75-09-2	methylene chloride	8.364			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
ID:	Post-Carbon	500	156-60-5	trans 1,2-dichloroethene	10.970			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Date:	4/26/2010	500	75-34-3	1,1-dichloroethane	11.526			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Time:		500	1634-04-4	MTBE	11.707			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	78-93-3	2-butanone (MEK)	12.537			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	156-59-2	cis 1,2-dichloroethene	13.669			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Temp =	°F	500	67-66-3	chloroform	14.356			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
Flow =	280 SCFM	500	71-55-6	1,1,1-trichloroethane	16.454			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	71-43-2	benzene	17.343			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	78-87-5	1,2-dichloropropane	18.875			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	79-01-6	trichloroethene	19.316			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	108-88-3	toluene	22.496			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	127-18-4	tetrachloroethene	24.419			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	108-90-7	chlorobenzene	25.574			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	100-41-4	ethylbenzene	26.243			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	108-38-3/106-42-3	m/p-xylene	26.535			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500	95-47-6	o-xylene	27.385			0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
		500		Unknown TPH				0.000	ND	mg/m^3	ND	ppmV	0.00	0.00	#DIV/0!	
				total volatiles			0		**0.0**	mg/m^3	**0.0**	ppmV	**0.00**	**0.00**	**#DIV/0!**	