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MEMORANDUM

TO: Kurt Blizzard/GM ENCORE

REF. NO.: 017360-10

FROM: Jeni Quigley/jq/49/Lan

DATE: September 8, 2006

C.C.: Gary Klepper/CRA

RE: **Summary of Soil Investigations
Former Soil Vapor Extraction System Area
General Motors Corporation Metal Fabrication Division
Grand Rapids Metal Plant
Wyoming, Michigan**

This memorandum presents a summary of the soil investigations (Summary) conducted by Conestoga-Rovers & Associates, Inc. (CRA) in the vicinity of the former soil vapor extraction (SVE) system at the General Motors Corporation (GM) Metal Fabrication Division (MFD) Grand Rapids Metal Plant (Plant) located at 300 36th Street in Wyoming, Michigan (Site). The soil investigations were conducted to evaluate and delineate volatile organic compound (VOC) concentrations in the vicinity of the former SVE system.

1.0 INTRODUCTION/BACKGROUND

From 1953 to 1979 (the exact date of activity cessation is unknown), the Site conducted degreasing operations inside the facility, near Column A-15, utilizing chlorinated compounds. This area is the suspected source of chlorinated compound contamination in soil and groundwater at the Site. Numerous subsurface investigations were conducted between 1985 and 1989 to identify and delineate the chlorinated compound contamination and geological/hydrogeological conditions at the Site and on the area located hydraulically downgradient of the Site to the north. Based on the results of the investigations, a SVE system and a groundwater extraction system was constructed in the source area in 1989, and a second groundwater extraction well was installed in the north parking lot of the Site in 1993 to remediate soil and groundwater at the Site. The SVE system was located in the source area for chlorinated compounds, namely trichloroethene (TCE), impacts to soil and groundwater at the Site. The SVE system was shut down in 2003, with concurrence with the Michigan Department of Environmental Quality (MDEQ), after a review was conducted to evaluate the SVE system and determine if the SVE system was removing significant VOC mass from the soil. At that time, it was determined that the SVE system was not removing significant VOC mass from soil; however, significant mass had historically been removed. The SVE system was subsequently abandoned by pressure grouting the former wells in place in July 2004. Seven pressure monitoring wells associated with the SVE system were abandoned in place using a bentonite/grout powder hydrated at one-foot intervals to the top of the well. The SVE extraction well was abandoned in place using

bentonite/grout chips hydrated at one-foot intervals to the top of the well. The abandoned locations were finished with concrete and wood floor block, as appropriate.

2.0 SCOPE OF WORK

Subsequent to the SVE system shutdown, subsurface investigation activities were conducted to assess VOC concentrations in the vadose, or unsaturated zone. Investigation activities were conducted in July 2004, July 2005, and December 2005, respectively. The scope of work for the investigative activities included the advancement of soil borings and the collection of soil samples in the area of the former SVE system for analysis for Target Compound List (TCL) VOCs. The subsections below present a summary of each sampling event.

2.1 JULY 2004 SOIL INVESTIGATION

Five soil borings, SB1-04 through SB5-04, were advanced at the Site on July 14 and 15, 2004, and a total of 55 soil samples were collected to define current soil conditions at the historic VOC release area. The five soil borings were installed in the area surrounding air purge well 87-3, associated with the former SVE treatment system, to vertically and horizontally determine the current concentrations of chlorinated compounds in the vadose, or unsaturated zone. Stratigraphic soil boring logs are presented in Attachment A.

Soil borings were advanced utilizing a 4 1/4-inch inside diameter hollow stem auger (HSA) with continuous split spoon sampling. Soil samples were collected starting at the top of the ground surface and continuing at two-foot intervals until a terminal depth of twenty-two feet bgs, which is above the water table. A two-foot long, two-inch outside diameter stainless steel split spoon sampler driven into the undisturbed material through the 4 1/4-inch HSA annulus. Soil samples were described and classified according to the Unified Soil Classification System (USCS) by a CRA Geologist. Soil samples were field screened for visual/olfactory evidence of impact and with an 11.7 eV photoionization detector (PID). PID readings were recorded on the stratigraphic logs presented in Attachment A, with the exception of SB2-04, due to the fact that the PID malfunctioned during the installation of the soil boring. No PID readings are available for SB2-04. One soil sample was collected from each two-foot split spoon interval for analysis for TCL VOCs. Collected samples were placed in pre-cleaned ENCORE samplers, properly labeled, and shipped under chain-of-custody (COC) protocol via overnight courier to Severn Trent Laboratories (STL) in North Canton, Ohio to be analyzed on a two week turnaround time (TAT). Table 1 presents a soil sample summary.

Upon completion of soil sample collection, each borehole was abandoned. All soil borings were abandoned using a tremie method to backfill the annulus with bentonite grout to the ground surface. Floor block and concrete surfaces were patched, as necessary.

2.2 JULY 2005 SOIL INVESTIGATION

After the July 2004 soil investigation was conducted, the MDEQ sample collection guidance for VOCs was revised, and results from ENCORE sampling methods were no longer recommended. On this basis, a second round of sampling was conducted in the former SVE system area in July 2005. Nine soil borings,

SB6-05 through SB14-05, were advanced at the Site on July 11 and 12, 2005, and a total of 93 soil samples were collected to define current soil conditions at the historic VOC release area. The nine soil borings were installed in the area surrounding air purge well 87-3, associated with the former SVE treatment system, to further vertically and horizontally evaluate the current concentrations of chlorinated compounds in the vadose, or unsaturated zone. Stratigraphic soil boring logs are presented in Attachment A.

Soil borings were advanced utilizing a direct push Geoprobe® rig with continuous macrocore sampling. Soil samples were collected starting at the top of the ground surface and continuing at two-foot intervals until a terminal depth of twenty feet bgs, which is immediately above the water table. A five-foot long, two-inch outside diameter stainless steel macrocore, with plastic inner sleeve, was driven into the undisturbed material. Soil samples were described and classified according to the USCS by a CRA Geologist. Soil samples were field screened for visual/olfactory evidence of impact and with an 11.7 eV PID. PID readings were recorded on the stratigraphic logs presented in Attachment A. One soil sample was collected per two-foot interval for analysis for TCL VOCs. Samples were collected consistent with MDEQ Remediation and Redevelopment Division (RRD) Operational Memorandum No. 2, October 2004. Collected samples were placed in pre-cleaned laboratory containers, properly labeled, and shipped under COC protocol via overnight courier to STL in North Canton, Ohio to be analyzed on a two week TAT. Table 1 presents a soil sample summary.

Soil boring abandonment was conducted as specified in Section 2.1.

2.3 DECEMBER 2005 SOIL INVESTIGATION

Based on the results of the July 2005 soil investigation, four soil borings, SB15-05 through SB18-05, were advanced at the Site on December 3, 2005, and a total of 43 soil samples were collected to further define current soil conditions at the historic VOC release area. The soil borings were installed in the area surrounding SB8-05, where TCE was detected in July 2005 above the Michigan Act 451, Part 201 Generic Cleanup Criteria, to further vertically and horizontally evaluate the current concentrations of chlorinated compounds in the vadose, or unsaturated zone. Stratigraphic soil boring logs are presented in Attachment A.

Soil borings were advanced utilizing a direct push Geoprobe® rig with continuous macrocore sampling. Soil samples were collected starting at the top of the ground surface and continuing at two-foot intervals until a terminal depth of twenty feet bgs, which is immediately above the water table. A five-foot long, two-inch outside diameter stainless steel macrocore, with plastic inner sleeve, was driven into the undisturbed material. Soil samples were described and classified according to USCS by a CRA Geologist. Soil samples were field screened for visual/olfactory evidence of impact and with an 11.7 eV PID. PID readings were recorded on the stratigraphic logs presented in Attachment A. One soil sample was collected per two-foot interval for analysis for TCL VOCs. Samples were collected consistent with MDEQ RRD Operational Memorandum No. 2, October 2004. Collected samples were placed in pre-cleaned laboratory containers, properly labeled, and shipped under COC protocol via overnight courier to STL in North Canton, Ohio to be analyzed on a two week TAT. Table 1 presents a soil sample summary.

Soil boring abandonment was conducted as specified in Section 2.1.

3.0 RESULTS

Laboratory analytical results were compared to Michigan Public Act 451, Part 201 Generic Residential and Commercial I Cleanup Criteria (Part 201 Residential), as well as the Michigan Public Act 451, Part 201 Generic Industrial and Commercial II, III, and IV Criteria (Part 201 Industrial). A summary of analytical results compared to the Part 201 Residential Cleanup Criteria is presented in Table 2. Figure 1 provides a comparison to the Part 201 Residential Cleanup Criteria by location. A summary of analytical results compared to the Part 201 Industrial Cleanup Criteria is presented in Table 3. Figure 2 provides a comparison to the Part 201 Industrial Cleanup Criteria by location. Analytical results for the investigations are provided in Attachment B. A copy of the data validation memorandums is provided in Attachment C.

3.1 JULY 2004 SOIL INVESTIGATION

TCE was detected in the soil samples collected from SB1-04 (at 0 to 2 feet below ground surface (bgs), SB2-04 (at 0 to 2 feet bgs), SB3-04 (at 0 to 2 feet bgs), SB4-04 (at 0 to 2 feet bgs), and SB5-04 (at 0 to 2 feet bgs) at concentrations above the Part 201 Residential and Industrial Drinking Water Protection Criteria (DWPC). TCE was also detected in the soil samples collected from SB2-04 (at 0 to 2 feet bgs) and SB5-04 (at 0 to 2 feet bgs) at concentrations exceeding the Part 201 Residential and Industrial Groundwater Surface Water Interface Criteria (GSIC). The concentration of TCE detected in the soil sample collected from SB2-04 (at 0 to 2 feet bgs) also exceeded the Part 201 Residential Soil Volatilization to Indoor Air Criteria (SVIAC), but below the Part 201 Industrial SVIAC.

No other TCL VOCs were detected in the soil samples collected from SB1-04 through SB5-04 at concentrations above the aforementioned comparison Part 201 Cleanup Criteria.

3.2 JULY 2005 SOIL INVESTIGATION

TCE was detected in the soil samples collected from SB7-05 (at 0 to 2 feet bgs, 2 to 4 feet bgs, 14 to 16 feet bgs, and 16 to 18 feet bgs), SB8-05 (at 0 to 2 feet bgs, 2 to 4 feet bgs, 10 to 12 feet bgs, and 16 to 18 feet bgs), SB10-05 (at 0 to 2 feet bgs), SB12-05 (at 0 to 2 feet bgs, 2 to 4 feet bgs, 4 to 6 feet bgs, and 14 to 16 feet bgs), SB13-05 (at 0 to 2 feet bgs, 12 to 14 feet bgs, and 16 to 18 feet bgs), and SB14-05 (at 0 to 2 feet bgs and 16 to 18 feet bgs) at concentrations above the Part 201 Residential and Industrial DWPC. TCE was also detected in the soil samples collected from SB8-05 (at 0 to 2 feet bgs and 10 to 12 feet bgs), SB12-05 (at 2 to 4 feet bgs) at concentrations exceeding the Part 201 Residential and Industrial GSIC. The concentration of TCE detected in the soil sample collected from SB8-05 (at 0 to 2 feet bgs) also exceeded the Part 201 Residential and Industrial SVIAC.

Xylenes were detected in the soil sample collected from SB12-05 (at 2 to 4 feet bgs) at a concentration above the Part 201 Residential and Industrial GSIC.

No other TCL VOCs were detected in the soil samples collected from SB5-05 through SB14-05 at concentrations above the aforementioned comparison Part 201 Cleanup Criteria.

3.3 DECEMBER 2005 SOIL INVESTIGATION

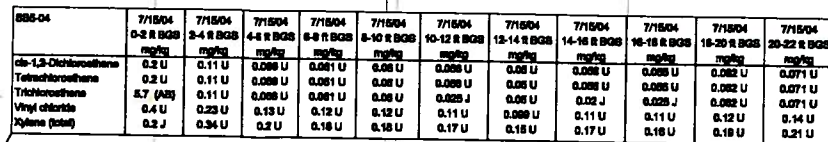
TCE was detected in the soil samples collected from SB15-05 (at 0 to 2 feet bgs and 10 to 12 feet bgs), SB16-05 (at 0 to 2 feet bgs and 6 to 8 feet bgs) at concentrations above the Part 201 Residential and Industrial DWPC. TCE was also detected in the soil sample collected from SB15-05 (at 10 to 12 feet bgs) at a concentration exceeding the Part 201 Residential and Industrial GSIC. The concentration of TCE in the soil sample collected from SB15-05 (at 10 to 12 feet bgs) also exceeded the Part 201 Residential SVIAC, but was below the Part 201 Industrial SVIAC.

No other TCL VOCs were detected in the soil samples collected from SB15-05 through SB18-05 at concentrations above the aforementioned comparison Part 201 Residential Cleanup Criteria.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the detected VOCs currently present in soil, additional investigation is required to delineate the extent of contamination which is subject to Michigan Act 451, Part 201.

A Work Plan will be developed to further evaluate the extent of VOCs currently present in soil.



BS-104	711504 0-2 R BGS	711504 3-4 R BGS	711504 4-6 R BGS	711504 6-8 R BGS	711504 8-10 R BGS	711504 10-12 R BGS	711504 12-14 R BGS	711504 14-16 R BGS	711504 16-18 R BGS	711504 18-20 R BGS	711504 20-22 R BGS
de-1,4-Dichlorobenzene	0.089 U	0.059 U	0.087 U	0.268 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
1,4-Dichlorobenzene	0.089 U	0.059 U	0.087 U	0.268 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Trichlorobenzene	2 (A)	0.089 U	0.087 U	0.089 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Vinyl chloride	0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U	0.12 U	0.1 U	0.12 U
Styrene (Total)	0.036 U	0.17 U	0.17 U	0.17 U	0.18 U	0.17 U	0.18 U	0.17 U	0.23 U	0.19 U	0.18 U

2007-08	7/11/08 6-10 8 PGS mg/kg	7/11/08 6-10 8 PGS mg/kg	7/11/08 6-10 8 PGS mg/kg	7/11/08 6-10 8 PGS mg/kg	7/11/08 6-10 8 PGS mg/kg	7/11/08 6-10 8 PGS mg/kg	7/11/08 6-10 8 PGS mg/kg	7/11/08 6-10 8 PGS mg/kg	7/11/08 6-10 8 PGS mg/kg	7/11/08 6-10 8 PGS mg/kg	7/11/08 6-10 8 PGS mg/kg
class 1-2-Chlorobutane	0.04 U	0.274 U	0.030 U	0.051 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U
Trichloroethane	1.04 U	0.074 U	0.030 U	0.037 U	0.030 U	0.041 U	0.038 U	0.044 U	0.062 U	0.04 U	0.04 U
Trichloroethylene	0.8 U	2.8 U	0.016 U	0.037 U	0.030 U	0.041 U	0.038 U	0.038 U	0.038 U	0.04 U	0.04 U
Vinyl chloride	0.08 U	0.18 U	0.078 U	0.074 U	0.078 U	0.082 U	0.077 U	0.088 U	0.1 U	0.091 U	0.091 U
Xylene (total)	0.016 J	0.12 U	0.12 U	0.11 U	0.12 U	0.12 U	0.12 U	0.12 U	0.1 U	0.12 U	0.12 U

8818-06	12/3/05 6-8 HRS DGS	12/3/05 8-10 HRS DGS	12/3/05 4-6 HRS DGS	12/3/05 6-8 HRS DGS	12/3/05 6-10 HRS DGS	12/3/05 10-12 HRS DGS	12/3/05 12-14 HRS DGS	12/3/05 14-16 HRS DGS	12/3/05 16-18 HRS DGS	12/3/05 18-20 HRS DGS
de-1,3-Dichlorostyrene	0.043 U	0.041 U	0.043 U	0.043 U	0.043 U	0.041 U	0.043 U	0.043 U	0.042 U	0.046 U
Tetrachlorostyrene	0.043 U	0.041 U	0.043 U	0.043 U	0.046 U	0.041 U	0.043 U	0.042 U	0.042 U	0.046 U
Trichlorostyrene	0.038 U	0.041 U	0.043 U	0.042 U	0.046 U	0.041 U	0.046 U	0.042 U	0.042 U	0.046 U
Vinyl chloride	0.086 U	0.083 U	0.086 U	0.086 U	0.082 U	0.081 U	0.081 U	0.084 U	0.086 U	0.08 U
Xylene (total)	0.19 U	0.19 U	0.19 U	0.13 U	0.14 U	0.14 U	0.13 U	0.13 U	0.13 U	0.13 U

0817-05	12/3/05 0-2 R BGS mg/kg	12/3/05 2-4 R BGS mg/kg	12/3/05 4-6 R BGS mg/kg	12/3/05 6-8 R BGS mg/kg	12/3/05 8-10 R BGS mg/kg	12/3/05 10-12 R BGS mg/kg	12/3/05 12-14 R BGS mg/kg	12/3/05 14-16 R BGS mg/kg	12/3/05 16-18 R BGS mg/kg	12/3/05 18-20 R BGS mg/kg
di-(2-Chlorobutyl)sebacate	0.043 U	0.042 U	0.042 U	0.044 U	0.04 U	0.046 U	0.046 U	0.041 U	0.039 U	0.046 U
Tetrachlorobutene	0.045 U	0.045 U	0.042 U	0.044 U	0.04 U	0.046 U	0.046 U	0.041 U	0.039 U	0.046 U
Tetrachloroethene	0.043 U	0.039 U	0.042 U	0.044 U	0.04 U	0.046 U	0.046 U	0.041 U	0.039 U	0.046 U
Vinyl chloride	0.037 U	0.036 U	0.036 U	0.038 U	0.034 U	0.039 U	0.039 U	0.034 U	0.037 U	0.046 U
Xylene (total)	0.18 U	0.13 U	0.12 U	0.13 U	0.12 U	0.14 U	0.14 U	0.11 U	0.11 U	0.14 U

SB15-05	12/29/05 0-2 R 90S	12/30/05 2-4 R 90S	12/30/05 4-8 R 90S	12/30/05 8-8 R 90S	12/30/05 8-10 R 90S	12/30/05 10-12 R 90S	12/30/05 12-14 R 90S	12/30/05 14-16 R 90S	12/30/05 16-18 R 90S	12/30/05 18-20 R 90S
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
di-1,3-Dichlorobenzene	0.044	0.046	0.046	0.046	0.046	0.14	0.046	0.042	0.044	0.044
Trichlorobenzene	0.044	0.046	0.046	0.046	0.046	0.14	0.046	0.042	0.044	0.044
Trifluorobenzene	0.044	0.046	0.046	0.046	0.046	0.14	0.046	0.042	0.044	0.044
Vinyl chloride	0.087	0.084	0.088	0.088	0.088	0.27	0.091	0.084	0.088	0.088
Xylene (m,p)	0.18	0.18	0.18	0.18	0.14	0.41	0.14	0.13	0.13	0.13

888-06	7/12/05 0-2 R BGS	7/12/05 2-4 R BGS	7/12/05 4-6 R BGS	7/12/05 6-8 R BGS	7/12/05 10-12 R BGS	7/12/05 12-14 R BGS	7/12/05 14-16 R BGS	7/12/05 16-18 R BGS	7/12/05 18-20 R BGS
45-1.3-Chlorothene	0.04 U	0.04 U	0.029 U	0.028 U	0.04 U	0.16 U	0.046 U	0.04 U	0.037 U
Tetrachloroethene	1.3 U	1.5 U	0.59 U	0.59 U	0.16 U	0.046 U	0.04 U	0.048 U	0.037 U
Trichloroethene	46 (ABC)	1.24 (A)	0.527 J	0.516 J	0.92 U	0.08 U	0.046 U	0.04 U	0.037 U
Vinyl chloride	2.7 U	0.08 U	0.078 U	0.078 U	0.3 U	0.002 U	0.046 U	0.17 (A)	0.038 U
Styrene (total)	4 U	0.12 U	0.12 U	0.12 U	0.08 U	0.04 U	0.14 U	0.12 U	0.11 U

[illegible]

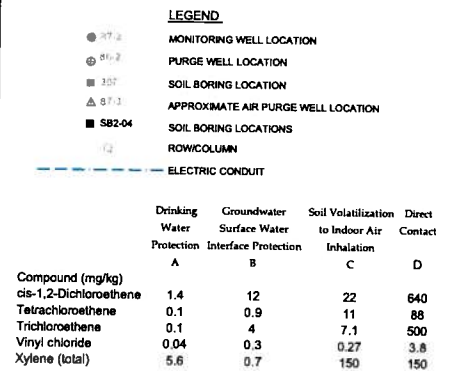
	771404 0-2 R 95%	771404 2-4 R 95%	771404 4-8 R 95%	771404 8-16 R 95%	771404 16-32 R 95%	771404 32-64 R 95%	771404 64-128 R 95%	771404 128-256 R 95%	771404 256-512 R 95%	771404 512-1024 R 95%
0-2-12 Chloroethane	0.43 U	0.056 U	0.091 U	0.069 U	0.096 U	0.091 U	0.005 U	0.067 U	0.005 U	0.005 U
Tetrafluoroethane	0.43 U	0.056 U	0.091 U	0.069 U	0.096 U	0.091 U	0.065 U	0.067 U	0.065 U	0.069 U
Tetrafluoroethane	0.12 (46%)	0.056 U	0.12 U	0.12 U	0.12 U	0.022 J	0.022 J	0.067	0.065	0.027 J
Vinyl chloride	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.12 U	0.12 U	0.11 U	0.11 U	0.12 U
Vinyl acetate	0.28 J	0.17 U	0.16 U	0.16 U	0.16 U	0.12 U	0.12 U	0.11 U	0.11 U	0.12 U

[illegible][illegible][illegible][illegible]

7/1-1/05 2-4 R BGS avg	7/1-1/05 2-4 R BGS avg	7/1-1/05 4-6 R BGS avg	7/1-1/05 6-8 R BGS avg	7/1-1/05 8-10 R BGS avg	7/1-1/05 10-12 R BGS avg	7/1-1/05 12-14 R BGS avg	7/1-1/05 14-16 R BGS avg	7/1-1/05 16-18 R BGS avg	7/1-1/05 18-20 R BGS avg
0.04 U	0.18 U	0.24 U	0.31 U	0.35 U	0.38 U	0.41 U	0.43 U	0.45 U	0.46 U
0.18 U	0.18 U	0.24 U	0.31 U	0.35 U	0.38 U	0.41 U	0.43 U	0.45 U	0.46 U
0.18 U	0.18 U	0.24 U	0.31 U	0.35 U	0.38 U	0.41 U	0.43 U	0.45 U	0.46 U

999-06	7/11/05 0-4 R BGS mg/kg	7/11/05 2-4 R BGS mg/kg	7/11/05 4-6 R BGS mg/kg	7/11/05 6-8 R BGS mg/kg	7/11/05 8-10 R BGS mg/kg	7/11/05 10-12 R BGS mg/kg	7/11/05 12-14 R BGS mg/kg	7/11/05 14-16 R BGS mg/kg	7/11/05 16-18 R BGS mg/kg	7/11/05 18-20 R BGS mg/kg
de-13-Dichlorobenzene	0.030 U	0.04 U	0.043 U	0.030 U	0.038 U	0.038 U	0.037 U	0.038 U	0.030 U	0.026 U
Tetra-chlorobenzene	0.038 U	0.04 U	0.042 U	0.036 U	0.038 U	0.038 U	0.038 U	0.037 U	0.038 U	0.026 U
Trichlorobenzene	0.089	0.04 U	0.042 U	0.036 U	0.038 U	0.038 U	0.038 U	0.037 U	0.038 U	0.026 U
Vinyl chloride	0.076 U	0.08 U	0.083 U	0.078 U	0.077 U	0.078 U	0.077 U	0.074 U	0.075 U	0.076 U
Xylene (total)	0.11 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U	0.11 U	0.11 U

SD11-85	7/12/05 5-8 R BGS	7/12/05 2-4 R BGS	7/12/05 4-8 R BGS	7/12/05 6-8 R BGS	7/12/05 9-10 R BGS	7/12/05 10-12 R BGS	7/12/05 13-14 R BGS	7/12/05 14-16 R BGS	7/12/05 16-18 R BGS	7/12/05 18-20 R BGS	7/12/05 16-20 R BGS
	<i>mg/kg</i>	<i>mg/kg</i>	<i>mg/kg</i>	<i>mg/kg</i>	<i>mg/kg</i>	<i>mg/kg</i>	<i>mg/kg</i>	<i>mg/kg</i>	<i>mg/kg</i>	<i>mg/kg</i>	<i>mg/kg</i>
dlc-1,2-Dichlorobenzene	0.04 U	0.056 U	0.030 U	0.04 U	0.04 U	1.9 U	0.19 U	0.020 U	1 U	0.34 U	
Tetrachlorobenzene	0.04 U	0.026 U	0.026 U	0.04 U	0.04 U	1.9 U	0.19 U	0.020 U	1 U	0.34 U	
Trichlorobenzene	0.078 U	0.036 U	0.026 U	0.04 U	0.04 U	1.9 U	0.067 U	0.027 U	1 U	0.34 U	
Vinyl chloride	0.06 U	0.075 U	0.078 U	0.078 U	0.08 U	3.7 U	0.3 U	0.076 U	2 U	0.48 U	
Xylene (total)	0.12 U	0.11 U	0.12 U	0.12 U	0.12 U	6.8 U	0.46 U	0.12 U	3 U	0.73 U	

[illegible]

A - PART 201 RESIDENTIAL DRINKING WATER PROTECTION CRITERIA EXCEEDANCE
B - PART 201 RESIDENTIAL GROUNDWATER SURFACE WATER INTERFACE PROTECTION CRITERIA EXCEEDANCE
C - PART 201 RESIDENTIAL SOIL VOLATILIZATION TO INDOOR AIR CRITERIA EXCEEDANCE
D - PART 201 RESIDENTIAL DIRECT CONTACT CRITERIA EXCEEDANCE

SAMPLES FROM SBI-04 THROUGH SBI-04 WERE COLLECTED USING ENCORE SAMPLES.

SAMPLES FROM SB1-04 THROUGH SB5-04 WERE COLLECTED USING ENCORE SAMPLES.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY

SELECT VOCs IN SOIL COMPARED TO PART 201 RESIDENTIAL CRITERIA

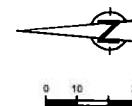
WYOMING, MICHIGAN

GRAND RAPIDS METAL PLANT

**CONESTOGA-ROVERS & ASSOCIATES**

Source References

Project Manager: G.K.	Reviewed By: B.M.	Date: JULY 2006	
Scale: 1"=30'	Project N. #: 17360-10	Report N. #: MEM0049	Drawing N. #: figure 1



- LEGEND**
- 17-2 MONITORING WELL LOCATION
 - 81-2 PURGE WELL LOCATION
 - 30-1 SOIL BORING LOCATION
 - △ 87-3 APPROXIMATE AIR PURGE WELL LOCATION
 - SB2-04 SOIL BORING LOCATIONS
 - ELECTRIC CONDUIT

Compound (mg/kg)	Industrial and Commercial Drinking Water A	Groundwater Surface Water Interface Protection B	Groundwater Contact Protection C	Soil Volatilization to Indoor Air Inhalation D	Direct Contact Industrial and Commercial II E
1,2-Dichloroethane	1.4	12	640	41	640
Tetrachloroethane	0.1	0.9	88	60	88
Trichloroethane	0.1	4	440	37	500
Vinyl chloride	0.04	0.3	20	2.8	34
Xylene (total)	5.6	0.7	150	150	150

A - PART 201 INDUSTRIAL AND COMMERCIAL DRINKING WATER PROTECTION CRITERIA EXCEEDANCE
B - PART 201 GROUNDWATER SURFACE WATER INTERFACE PROTECTION CRITERIA EXCEEDANCE
C - PART 201 GROUNDWATER CONTACT PROTECTION CRITERIA EXCEEDANCE
D - PART 201 SOIL VOLATILIZATION TO INDOOR AIR INHALATION CRITERIA EXCEEDANCE
E - PART 201 DIRECT CONTACT INDUSTRIAL AND COMMERCIAL CRITERIA EXCEEDANCE
SAMPLES FROM SB1-04 THROUGH SB5-04 WERE COLLECTED USING ENCORE SAMPLES.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

SELECT VOCs IN SOIL COMPARED TO
PART 201 INDUSTRIAL CRITERIA

WYOMING, MICHIGAN

GRAND RAPIDS METAL PLANT



Project Manager: G.K.	Reviewed By: B.M.	Date: JULY 2006
Scale: 1"=30'	Project N°: 17360-10	Report N°: MEMO049 figure 2

17360-10(MEMO049)GN-DE03 J04 28/2006

SB4-04	7/15/04 0-2 R BGS	7/15/04 2-4 R BGS	7/15/04 4-6 R BGS	7/15/04 6-8 R BGS	7/15/04 8-10 R BGS	7/15/04 10-12 R BGS	7/15/04 12-14 R BGS	7/15/04 14-16 R BGS	7/15/04 16-18 R BGS	7/15/04 18-20 R BGS	7/15/04 20-22 R BGS
1,2-Dichloroethane	0.080 U	0.078 U	0.082 U	0.088 U	0.088 U	0.087 U	0.091 U	0.089 U	0.083 U	0.083 U	0.083 U
Tetrachloroethane	0.080 U	0.078 U	0.082 U	0.088 U	0.088 U	0.087 U	0.091 U	0.089 U	0.083 U	0.083 U	0.083 U
Trichloroethane	0.18 (A)	0.078 U	0.082 U	0.088 U	0.088 U	0.087 U	0.091 U	0.089 U	0.083 U	0.083 U	0.083 U
Vinyl chloride	0.13 U	0.16 U	0.18 U	0.12 U	0.12 U	0.13 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Xylene (total)	0.2 U	0.29 U	0.36 U	0.18 U	0.18 U	0.2 U	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U

SB1-04	7/15/04 0-2 R BGS	7/15/04 2-4 R BGS	7/15/04 4-6 R BGS	7/15/04 6-8 R BGS	7/15/04 8-10 R BGS	7/15/04 10-12 R BGS	7/15/04 12-14 R BGS	7/15/04 14-16 R BGS	7/15/04 16-18 R BGS	7/15/04 18-20 R BGS	7/15/04 20-22 R BGS
1,2-Dichloroethane	0.089 U	0.086 U	0.087 U	0.088 U	0.089 U	0.089 U	0.089 U	0.087 U	0.087 U	0.089 U	0.089 U
Tetrachloroethane	0.089 U	0.086 U	0.087 U	0.088 U	0.089 U	0.089 U	0.089 U	0.087 U	0.087 U	0.089 U	0.089 U
Trichloroethane	2 (A)	0.089 U	0.087 U	0.088 U	0.089 U	0.089 U	0.089 U	0.087 U	0.087 U	0.089 U	0.089 U
Vinyl chloride	0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	0.12 U	0.11 U	0.12 U	0.12 U	0.12 U	0.12 U
Xylene (total)	0.28 J	0.17 U	0.17 U	0.17 U	0.18 U	0.18 U	0.17 U	0.17 U	0.18 U	0.18 U	0.18 U

SB7-05	7/11/05 0-2 R BGS	7/11/05 2-4 R BGS	7/11/05 4-6 R BGS	7/11/05 6-8 R BGS	7/11/05 8-10 R BGS	7/11/05 10-12 R BGS	7/11/05 12-14 R BGS	7/11/05 14-16 R BGS	7/11/05 16-18 R BGS	7/11/05 18-20 R BGS
1,2-Dichloroethane	0.04 U	0.074 U	0.039 U	0.037 U	0.039 U	0.041 U	0.038 U	0.044 U	0.032 U	0.04 U
Tetrachloroethane	0.04 U	0.074 U	0.039 U	0.037 U	0.039 U	0.041 U	0.038 U	0.044 U	0.032 U	0.04 U
Trichloroethane	1.8 (A)	2.5 (A)	0.518 J	0.037 U	0.039 U	0.041 U	0.038 U	0.044 U	0.032 U	0.04 U
Vinyl chloride	0.08 U	0.18 U	0.078 U	0.074 U	0.078 U	0.077 U	0.078 U	0.077 U	0.078 U	0.077 U
Xylene (total)	0.016 J	0.22 U	0.12 U	0.11 U	0.12 U	0.12 U	0.12 U	0.13 U	0.13 U	0.12 U

SB5-04	7/15/04 0-2 R BGS	7/15/04 2-4 R BGS	7/15/04 4-6 R BGS	7/15/04 6-8 R BGS	7/15/04 8-10 R BGS	7/15/04 10-12 R BGS	7/15/04 12-14 R BGS	7/15/04 14-16 R BGS	7/15/04 16-18 R BGS	7/15/04 18-20 R BGS	7/15/04 20-22 R BGS
1,2-Dichloroethane	0.2 U	0.11 U	0.088 U	0.081 U	0.08 U	0.088 U	0.08 U	0.088 U	0.082 U	0.071 U	0.071 U
Tetrachloroethane	0.2 U	0.11 U	0.088 U	0.081 U	0.08 U	0.088 U	0.08 U	0.088 U	0.082 U	0.071 U	0.071 U
Trichloroethane	8.7 (AB)	0.11 U	0.088 U	0.081 U	0.08 U	0.088 U	0.08 U	0.088 U	0.082 U	0.071 U	0.071 U
Vinyl chloride	0.4 U	0.23 U	0.13 U	0.12 U	0.12 U	0.11 U	0.088 U	0.11 U	0.12 U	0.14 U	0.21 U
Xylene (total)	0.2 J	0.34 U	0.2 U	0.18 U	0.18 U	0.17 U	0.18 U	0.17 U	0.18 U	0.21 U	0.21 U

SB18-05	12/3/05 0-2 R BGS	12/3/05 2-4 R BGS	12/3/05 4-6 R BGS	12/3/05 6-8 R BGS	12/3/05 8-10 R BGS	12/3/05 10-12 R BGS	12/3/05 12-14 R BGS	12/3/05 14-16 R BGS	12/3/05 16-18 R BGS	12/3/05 18-20 R BGS	12/3/05 20-22 R BGS
1,2-Dichloroethane	0.048 U	0.041 U	0.043 U	0.043 U	0.043 U	0.046 U	0.041 U	0.046 U	0.042 U	0.046 U	0.046 U
Tetrachloroethane	0.048 U	0.041 U	0.043 U	0.043 U	0.043 U	0.046 U	0.041 U	0.046 U	0.042 U	0.046 U	0.046 U
Trichloroethane	0.038 J	0.041 U	0.043 U	0.043 U	0.043 U	0.046 U	0.041 U	0.046 U	0.042 U	0.046 U	0.046 U
Vinyl chloride	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U
Xylene (total)	0.19 U	0.12 U	0.13 U	0.13 U	0.13 U	0.14 U	0.14 U	0.13 U	0.13 U	0.13 U	0.13 U

SB17-05	12/3/05 0-2 R BGS	12/3/05 2-4 R BGS	12/3/05 4-6 R BGS	12/3/05 6-8 R BGS	12/3/05 8-10 R BGS	12/3/05 10-12 R BGS	12/3/05 12-14 R BGS	12/3/05 14-16 R BGS	12/3/05 16-18 R BGS	12/3/05 18-20 R BGS	12/3/05 20-22 R BGS
1,2-Dichloroethane	0.043 U	0.042 U	0.042 U	0.044 U	0.04 U	0.046 U	0.046 U	0.041 U	0.039 U	0.046 U	0.046 U
Tetrachloroethane	0.043 U	0.042 U	0.042 U	0.044 U	0.04 U	0.046 U	0.046 U	0.041 U	0.039 U	0.046 U	0.046 U
Trichloroethane	0.043 U	0.042 U	0.042 U	0.044 U	0.04 U	0.046 U	0.046 U	0.041 U	0.039 U	0.046 U	0.046 U
Vinyl chloride	0.087 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U
Xylene (total)	0.19 U	0.13 U	0.13 U	0.13 U	0.12 U	0.14 U	0.14 U	0.13 U	0.12 U	0.13 U	0.13 U

SB16-05	12/3/05 0-2 R BGS	12/3/05 2-4 R BGS	12/3/05 4-6 R BGS	12/3/05 6-8 R BGS	12/3/05 8-10 R BGS	12/3/05 10-12 R BGS	12/3/05 12-14 R BGS	12/3/05 14-16 R BGS	12/3/05 16-18 R BGS	12/3/05 18-20 R BGS	12/3/05 20-22 R BGS
1,2-Dichloroethane	0.044 U	0.042 U	0.044 U	0.042 U	0.046 U	0.14 U	0.046 U	0.042 U	0.044 U	0.044 U	0.044 U
Tetrachloroethane	0.044 U	0.042 U	0.044 U	0.042 U	0.046 U	0.14 U	0.046 U	0.042 U	0.044 U	0.044 U	0.044 U
Trichloroethane	2.1 (A)	0.04 J	0.04 J	0.036 J	0.046 U	12 (AB)	0.08	0.08	0.08	0.017 J	0.017 J
Vinyl chloride	0.087 U	0.084 U	0.088 U	0.088 U	0.088 U	0.27 U	0.081 U	0.084 U	0.088 U	0.088 U	0.088 U
Xylene (total)	0.13 U	0.19 U	0.19 U	0.13 U	0.14 U	0.41 U	0.14 U	0.18 U	0.13 U	0.13 U	0.13 U

SB8-05	7/12/05 0-2 R BGS	7/12/05 2-4 R BGS	7/12/05 4-6 R BGS	7/12/05 6-8 R BGS	7/12/05 8-10 R BGS	7/12/05 10-12 R BGS	7/12/05 12-14 R BGS	7/12/05 14-16 R BGS	7/12/05 16-18 R BGS	7/12/05 18-20 R BGS	7/12/05 20-22 R BGS
1,2-Dichloroethane	1.3 U	0.04 U	0.039 U	0.039 U	0.04 U	0.16 U	0.046 U	0.04 U	0.046 U	0.037 U	0.037 U
Tetrachloroethane	1.3 U	0.04 U	0.039 U	0.039 U	0.04 U	0.16 U	0.046 U	0.04 U	0.046 U	0.037 U	0.037 U
Trichloroethane	46 (AB)	1.5 (A)	0.037 J	0.037 J	0.046 J	6.8 (AB)	0.1 J	0.09	0.17 (A)	0.088	0.088
Vinyl chloride	2.7 U	0.08 U	0.076 U	0.076 U	0.076 U	0.08 U	0.081 U	0.084 U	0.088 U	0.074 U	0.074 U
Xylene (total)	4 U	0.12 U	0.12 U	0.12 U	0.12 U	0.46 U	0.14 U	0.14 U	0.14 U	0.11 U	0.11 U

SB15-05	12/3/05 0-2 R BGS	12/3/05 2-4 R BGS	12/3/05 4-6 R BGS	12/3/05 6-8 R BGS	12/3/05 8-10 R BGS	12/3/05 10-12 R BGS	12/3/05 12-14 R BGS	12/3/05 14-16 R BGS	12/3/05 16-18 R BGS	12/3/05 18-20 R BGS	12/3/05 20-22 R BGS
1,2-Dichloroethane	0.043 U	0.042 U	0.042 U	0.042 U	0.043 U	0.046 U	0.046 U	0.047 U	0.046 U	0.046 U	0.046 U
Tetrachloroethane	0.043 U	0.042 U	0.042 U	0.042 U	0.043 U	0.046 U	0.046 U	0.047 U	0.046 U	0.046 U	0.046 U
Trichloroethane	0.043 U	0.042 U	0.042 U	0.042 U	0.043 U	0.046 U	0.046 U	0.047 U	0.046 U	0.046 U	0.046 U
Vinyl chloride	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U
Xylene (total)	0.17 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.14 U	0.14 U	0.13 U	0.13 U

SB3-04	7/14/04 0-2 R BGS	7/14/04 2-4 R BGS	7/14/04 4-6 R BGS	7/14/04 6-8 R BGS	7/14/04 8-10 R BGS	7/14/04 10-12 R BGS	7/14/04 12-14 R BGS	7/14/04 14-16 R BGS	7/14/04 16-18 R BGS	7/14/04 18-20 R BGS	7/14/04 20-22 R BGS
1,2-Dichloroethane	0.43 U	0.088 U	0.081 U	0.088 U	0.088 U	0.081 U	0.088 U	0.087 U	0.088 U	0.088 U	0.088 U
Tetrachloroethane	0.43 U	0.088 U	0.081 U	0.088 U	0.088 U	0.081 U	0.088 U	0.087 U	0.088 U	0.088 U	0.088 U
Trichloroethane	12 (AB)	0.088 U	0.081 U	0.088 U	0.088 U	0.081 U	0.088 U	0.087 U	0.088 U	0.088 U	0.088 U
Vinyl chloride	0.86 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	0.11 U
Xylene (total)	0.28 J	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U	0.17 U	0.17 U	0.18 U	0.18 U	0.17 U

SB10-05	7/12/05 0-2 R BGS	7/12/05 2-4 R BGS	7/12/05 4-6 R BGS	7/12/05 6-8 R BGS	7/12/05 8-10 R BGS	7/12/05 10-12 R BGS	7/12/05 12-14 R BGS	7/12/05 14-16 R BGS	7/12/05 16-18 R BGS	7/12/05 18-20 R BGS	7/12/05 20-22 R BGS
1,2-Dichloroethane	0.037 U	0.038 U	0.041 U	0.038 U	0.038 U	0.041 U	0.04 U	0.04 U	0.04 U	0.041 U	0.041 U
Tetrachloroethane	0.037 U	0.038 U	0.041 U	0.038 U	0.038 U	0.041 U	0.04 U	0.04 U	0.04 U	0.041 U	0.041 U
Trichloroethane	0.04 (A)	0.038 U	0.041 U	0.038 U	0.038 U	0.041 U	0.04 U	0.04 U	0.04 U	0.041 U	0.041 U
Vinyl chloride	0.071 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Xylene (total)	0.027 J	0.11 U	0.12 U	0.11 U	0.11 U	0.11 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

SB14-05	7/12/05 0-2 R BGS	7/12/05 2-4 R BGS	7/12/05 4-6 R BGS	7/12/05 6-8 R BGS	7/12/05 8-10 R BGS	7/12/05 10-12 R BGS	7/12/05 12-14 R BGS	7/12/05 14-16 R BGS	7/12/05 16-18 R BGS	7/12/05 18-20 R BGS	7/12/05 20-22 R BGS
1,2-Dichloroethane	0.04 U	0.048 U	0.042 U	0.04 U	0.04 U	0.042 U	0.038 U	0.046 U	0.037 U	0.04 U	0.04 U
Tetrachloroethane	0.04 U	0.048 U	0.042 U	0.04 U	0.04 U	0.042 U	0.038 U	0.046 U	0.037 U	0.04 U	0.04 U
Trichloroethane	0.03 (A)	0.048 U	0.042 U	0.04 U	0.04 U	0.042 U	0.038 U	0.046 U	0.037 U	0.04 U	0.04 U
Vinyl chloride	0.08 U	0.086 U	0.084 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Xylene (total)	0.021 J	0.14 U	0.13 U	0.12 U	0.12 U	0.12 U	0.13 U	0.11 U	0.11 U	0.12 U	0.12 U

SB13-05	7/11/05 0-2 R

TABLE 1

**SAMPLE COLLECTION AND ANALYSIS SUMMARY
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

<i>Sample Identification</i>	<i>Sample Location</i>	<i>Sample Depth</i>		<i>Matrix</i>	<i>QC Sample</i>	<i>Parameter</i>
		<i>Start (ft bgs)</i>	<i>End (ft bgs)</i>			
S-17360-071404-DCR-078	SB3-04	0	2	Soil		TCL VOCs
S-17360-071404-DCR-079	SB3-04	2	4	Soil		TCL VOCs
S-17360-071404-DCR-080	SB3-04	4	6	Soil		TCL VOCs
S-17360-071404-DCR-081	SB3-04	6	8	Soil		TCL VOCs
S-17360-071404-DCR-082	SB3-04	8	10	Soil		TCL VOCs
S-17360-071404-DCR-083	SB3-04	10	12	Soil		TCL VOCs
S-17360-071404-DCR-084	SB3-04	12	14	Soil		TCL VOCs
S-17360-071404-DCR-085	SB3-04	14	16	Soil		TCL VOCs
S-17360-071404-DCR-086	SB3-04	16	18	Soil		TCL VOCs
S-17360-071404-DCR-087	SB3-04	18	20	Soil		TCL VOCs
S-17360-071404-DCR-088	SB3-04	20	22	Soil		TCL VOCs
S-17360-071404-DCR-089	SB2-04	0	2	Soil		TCL VOCs
S-17360-071404-DCR-090	SB2-04	2	4	Soil		TCL VOCs
S-17360-071404-DCR-091	SB2-04	4	6	Soil		TCL VOCs
S-17360-071404-DCR-092	SB2-04	6	8	Soil		TCL VOCs
S-17360-071404-DCR-093	SB2-04	8	10	Soil		TCL VOCs
S-17360-071404-DCR-094	SB2-04	10	12	Soil		TCL VOCs
S-17360-071404-DCR-095	SB2-04	12	14	Soil		TCL VOCs
S-17360-071404-DCR-096	SB2-04	14	16	Soil		TCL VOCs
S-17360-071404-DCR-097	SB2-04	16	18	Soil		TCL VOCs
S-17360-071404-DCR-098	SB2-04	18	20	Soil		TCL VOCs
S-17360-071404-DCR-099	SB2-04	20	22	Soil		TCL VOCs
S-17360-071504-DCR-100	SB5-04	0	2	Soil		TCL VOCs
S-17360-071504-DCR-101	SB5-04	2	4	Soil		TCL VOCs
S-17360-071504-DCR-102	SB5-04	4	6	Soil		TCL VOCs
S-17360-071504-DCR-103	SB5-04	6	8	Soil		TCL VOCs
S-17360-071504-DCR-104	SB5-04	8	10	Soil		TCL VOCs
S-17360-071504-DCR-105	SB5-04	10	12	Soil		TCL VOCs
S-17360-071504-DCR-106	SB5-04	12	14	Soil		TCL VOCs
S-17360-071504-DCR-107	SB5-04	14	16	Soil		TCL VOCs
S-17360-071504-DCR-108	SB5-04	16	18	Soil		TCL VOCs
S-17360-071504-DCR-109	SB5-04	18	20	Soil		TCL VOCs
S-17360-071504-DCR-110	SB5-04	20	22	Soil		TCL VOCs
S-17360-071504-DCR-111	SB4-04	0	2	Soil		TCL VOCs
S-17360-071504-DCR-112	SB4-04	2	4	Soil		TCL VOCs
S-17360-071504-DCR-113	SB4-04	4	6	Soil		TCL VOCs
S-17360-071504-DCR-114	SB4-04	6	8	Soil		TCL VOCs
S-17360-071504-DCR-115	SB4-04	8	10	Soil		TCL VOCs
S-17360-071504-DCR-116	SB4-04	10	12	Soil		TCL VOCs
S-17360-071504-DCR-117	SB4-04	12	14	Soil		TCL VOCs
S-17360-071504-DCR-118	SB4-04	14	16	Soil		TCL VOCs
S-17360-071504-DCR-119	SB4-04	16	18	Soil		TCL VOCs
S-17360-071504-DCR-120	SB4-04	18	20	Soil		TCL VOCs
S-17360-071504-DCR-121	SB4-04	20	22	Soil		TCL VOCs
S-17360-071504-DCR-122	SB1-04	0	2	Soil		TCL VOCs
S-17360-071504-DCR-123	SB1-04	2	4	Soil		TCL VOCs
S-17360-071504-DCR-124	SB1-04	4	6	Soil		TCL VOCs
S-17360-071504-DCR-125	SB1-04	6	8	Soil		TCL VOCs
S-17360-071504-DCR-126	SB1-04	8	10	Soil		TCL VOCs
S-17360-071504-DCR-127	SB1-04	10	12	Soil		TCL VOCs
S-17360-071504-DCR-128	SB1-04	12	14	Soil		TCL VOCs
S-17360-071504-DCR-129	SB1-04	14	16	Soil		TCL VOCs
S-17360-071504-DCR-130	SB1-04	16	18	Soil		TCL VOCs
S-17360-071504-DCR-131	SB1-04	18	20	Soil		TCL VOCs

TABLE 1

**SAMPLE COLLECTION AND ANALYSIS SUMMARY
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

<i>Sample Identification</i>	<i>Sample Location</i>	<i>Sample Depth</i>		<i>Matrix</i>	<i>QC Sample</i>	<i>Parameter</i>
		<i>Start (ft bgs)</i>	<i>End (ft bgs)</i>			
S-17360-071504-DCR-132	SB1-04	20	22	Soil		TCL VOCs
SO-17360-071105-DCR-409	SB13-05	0	2	Soil		TCL VOCs
SO-17360-071105-DCR-410	SB13-05	2	4	Soil		TCL VOCs
SO-17360-071105-DCR-411	SB13-05	4	6	Soil		TCL VOCs
SO-17360-071105-DCR-412	SB13-05	6	8	Soil		TCL VOCs
SO-17360-071105-DCR-413	SB13-05	8	10	Soil		TCL VOCs
SO-17360-071105-DCR-414	SB13-05	10	12	Soil		TCL VOCs
SO-17360-071105-DCR-415	SB13-05	12	14	Soil		TCL VOCs
SO-17360-071105-DCR-416	SB13-05	14	16	Soil		TCL VOCs
SO-17360-071105-DCR-417	SB13-05	16	18	Soil		TCL VOCs
SO-17360-071105-DCR-418	SB13-05	18	20	Soil	MS/MSD	TCL VOCs
SO-17360-071105-DCR-419	SB6-05	0	2	Soil		TCL VOCs
SO-17360-071105-DCR-420	SB6-05	2	4	Soil		TCL VOCs
SO-17360-071105-DCR-421	SB6-05	4	6	Soil		TCL VOCs
SO-17360-071105-DCR-422	SB6-05	6	8	Soil		TCL VOCs
SO-17360-071105-DCR-423	SB6-05	8	10	Soil		TCL VOCs
SO-17360-071105-DCR-424	SB6-05	10	12	Soil		TCL VOCs
SO-17360-071105-DCR-425	SB6-05	12	14	Soil		TCL VOCs
SO-17360-071105-DCR-426	SB6-05	14	16	Soil		TCL VOCs
SO-17360-071105-DCR-427	SB6-05	16	18	Soil		TCL VOCs
SO-17360-071105-DCR-428	SB6-05	18	20	Soil		TCL VOCs
SO-17360-071105-DCR-429	SB6-05	8	10	Soil	Duplicate (423)	TCL VOCs
SO-17360-071105-DCR-430	SB9-05	0	2	Soil		TCL VOCs
SO-17360-071105-DCR-431	SB9-05	2	4	Soil		TCL VOCs
SO-17360-071105-DCR-432	SB9-05	4	6	Soil		TCL VOCs
SO-17360-071105-DCR-433	SB9-05	6	8	Soil		TCL VOCs
SO-17360-071105-DCR-434	SB9-05	8	10	Soil		TCL VOCs
SO-17360-071105-DCR-435	SB9-05	10	12	Soil		TCL VOCs
SO-17360-071105-DCR-436	SB9-05	12	14	Soil		TCL VOCs
SO-17360-071105-DCR-437	SB9-05	14	16	Soil		TCL VOCs
SO-17360-071105-DCR-438	SB9-05	16	18	Soil		TCL VOCs
SO-17360-071105-DCR-439	SB9-05	18	20	Soil		TCL VOCs
SO-17360-071105-DCR-440	SB12-05	0	2	Soil	MS/MSD	TCL VOCs
SO-17360-071105-DCR-441	SB12-05	2	4	Soil		TCL VOCs
SO-17360-071105-DCR-442	SB12-05	4	6	Soil		TCL VOCs
SO-17360-071105-DCR-443	SB12-05	6	8	Soil		TCL VOCs
SO-17360-071105-DCR-444	SB12-05	8	10	Soil		TCL VOCs
SO-17360-071105-DCR-445	SB12-05	10	12	Soil		TCL VOCs
SO-17360-071105-DCR-446	SB12-05	12	14	Soil		TCL VOCs
SO-17360-071105-DCR-447	SB12-05	14	16	Soil		TCL VOCs
SO-17360-071105-DCR-448	SB12-05	16	18	Soil		TCL VOCs
SO-17360-071105-DCR-449	SB12-05	18	20	Soil		TCL VOCs
SO-17360-071105-DCR-450	SB7-05	0	2	Soil		TCL VOCs
SO-17360-071105-DCR-451	SB7-05	2	4	Soil		TCL VOCs
SO-17360-071105-DCR-452	SB7-05	4	6	Soil		TCL VOCs
SO-17360-071105-DCR-453	SB7-05	6	8	Soil		TCL VOCs
SO-17360-071105-DCR-454	SB7-05	8	10	Soil		TCL VOCs
SO-17360-071105-DCR-455	SB7-05	10	12	Soil		TCL VOCs
SO-17360-071105-DCR-456	SB7-05	12	14	Soil		TCL VOCs
SO-17360-071105-DCR-457	SB7-05	14	16	Soil		TCL VOCs
SO-17360-071105-DCR-458	SB7-05	16	18	Soil		TCL VOCs
SO-17360-071105-DCR-459	SB7-05	18	20	Soil		TCL VOCs
SO-17360-071205-DCR-460	SB14-05	0	2	Soil		TCL VOCs

TABLE 1

**SAMPLE COLLECTION AND ANALYSIS SUMMARY
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

<i>Sample Identification</i>	<i>Sample Location</i>	<i>Sample Depth</i>		<i>Matrix</i>	<i>QC Sample</i>	<i>Parameter</i>
		<i>Start (ft bgs)</i>	<i>End (ft bgs)</i>			
SO-17360-071205-DCR-461	SB14-05	2	4	Soil	Duplicate (467)	TCL VOCs
SO-17360-071205-DCR-462	SB14-05	4	6	Soil		TCL VOCs
SO-17360-071205-DCR-463	SB14-05	6	8	Soil		TCL VOCs
SO-17360-071205-DCR-464	SB14-05	8	10	Soil		TCL VOCs
SO-17360-071205-DCR-465	SB14-05	10	12	Soil		TCL VOCs
SO-17360-071205-DCR-466	SB14-05	12	14	Soil		TCL VOCs
SO-17360-071205-DCR-467	SB14-05	14	16	Soil		TCL VOCs
SO-17360-071205-DCR-468	SB14-05	14	16	Soil	MS/MSD	TCL VOCs
SO-17360-071205-DCR-469	SB14-05	16	18	Soil		TCL VOCs
SO-17360-071205-DCR-470	SB14-05	18	20	Soil		TCL VOCs
SO-17360-071205-DCR-471	SB8-05	0	2	Soil		TCL VOCs
SO-17360-071205-DCR-472	SB8-05	2	4	Soil		TCL VOCs
SO-17360-071205-DCR-473	SB8-05	4	6	Soil		TCL VOCs
SO-17360-071205-DCR-474	SB8-05	6	8	Soil		TCL VOCs
SO-17360-071205-DCR-475	SB8-05	8	10	Soil		TCL VOCs
SO-17360-071205-DCR-476	SB8-05	10	12	Soil		TCL VOCs
SO-17360-071205-DCR-477	SB8-05	12	14	Soil		TCL VOCs
SO-17360-071205-DCR-478	SB8-05	14	16	Soil		TCL VOCs
SO-17360-071205-DCR-479	SB8-05	16	18	Soil		TCL VOCs
SO-17360-071205-DCR-480	SB8-05	18	20	Soil		TCL VOCs
SO-17360-071205-DCR-481	SB10-05	0	2	Soil		TCL VOCs
SO-17360-071205-DCR-482	SB10-05	2	4	Soil		TCL VOCs
SO-17360-071205-DCR-483	SB10-05	4	6	Soil		TCL VOCs
SO-17360-071205-DCR-484	SB10-05	6	8	Soil		TCL VOCs
SO-17360-071205-DCR-485	SB10-05	8	10	Soil		TCL VOCs
SO-17360-071205-DCR-486	SB10-05	10	12	Soil		TCL VOCs
SO-17360-071205-DCR-487	SB10-05	12	14	Soil		TCL VOCs
SO-17360-071205-DCR-488	SB10-05	14	16	Soil		TCL VOCs
SO-17360-071205-DCR-489	SB10-05	16	18	Soil		TCL VOCs
SO-17360-071205-DCR-490	SB10-05	18	20	Soil		TCL VOCs
SO-17360-071205-DCR-491	SB11-05	0	2	Soil		TCL VOCs
SO-17360-071205-DCR-492	SB11-05	2	4	Soil		TCL VOCs
SO-17360-071205-DCR-493	SB11-05	4	6	Soil		TCL VOCs
SO-17360-071205-DCR-494	SB11-05	6	8	Soil		TCL VOCs
SO-17360-071205-DCR-495	SB11-05	8	10	Soil		TCL VOCs
SO-17360-071205-DCR-496	SB11-05	10	12	Soil		TCL VOCs
SO-17360-071205-DCR-497	SB11-05	12	14	Soil		TCL VOCs
SO-17360-071205-DCR-498	SB11-05	14	16	Soil		TCL VOCs
SO-17360-071205-DCR-499	SB11-05	16	18	Soil		TCL VOCs
SO-17360-071205-DCR-500	SB11-05	18	20	Soil		TCL VOCs
TB-17360-071205-DCR-501	--	--	--	Methanol	Trip Blank	TCL VOCs
SO-17360-120305-DCR-508	SB16-05	0	2	Soil	Duplicate (508)	TCL VOCs
SO-17360-120305-DCR-509	SB16-05	0	2	Soil		TCL VOCs
SO-17360-120305-DCR-510	SB16-05	2	4	Soil		TCL VOCs
SO-17360-120305-DCR-511	SB16-05	4	6	Soil		TCL VOCs
SO-17360-120305-DCR-512	SB16-05	6	8	Soil		TCL VOCs
SO-17360-120305-DCR-513	SB16-05	8	10	Soil		TCL VOCs
SO-17360-120305-DCR-514	SB16-05	10	12	Soil		TCL VOCs
SO-17360-120305-DCR-515	SB16-05	12	14	Soil		TCL VOCs
SO-17360-120305-DCR-516	SB16-05	14	16	Soil		TCL VOCs
SO-17360-120305-DCR-517	SB16-05	16	18	Soil		TCL VOCs
SO-17360-120305-DCR-518	SB16-05	18	20	Soil		TCL VOCs
SO-17360-120305-DCR-519	SB17-05	0	2	Soil		TCL VOCs

TABLE 1
SAMPLE COLLECTION AND ANALYSIS SUMMARY
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

<i>Sample Identification</i>	<i>Sample Location</i>	<i>Sample Depth</i>		<i>Matrix</i>	<i>QC Sample</i>	<i>Parameter</i>
		<i>Start (ft bgs)</i>	<i>End (ft bgs)</i>			
SO-17360-120305-DCR-520	SB17-05	2	4	Soil		TCL VOCs
SO-17360-120305-DCR-521	SB17-05	4	6	Soil		TCL VOCs
SO-17360-120305-DCR-522	SB17-05	6	8	Soil		TCL VOCs
SO-17360-120305-DCR-523	SB17-05	8	10	Soil		TCL VOCs
SO-17360-120305-DCR-524	SB17-05	10	12	Soil		TCL VOCs
SO-17360-120305-DCR-525	SB17-05	12	14	Soil		TCL VOCs
SO-17360-120305-DCR-526	SB17-05	14	16	Soil		TCL VOCs
SO-17360-120305-DCR-527	SB17-05	16	18	Soil		TCL VOCs
SO-17360-120305-DCR-528	SB17-05	18	20	Soil		TCL VOCs
SO-17360-120305-DCR-529	SB18-05	0	2	Soil		TCL VOCs
SO-17360-120305-DCR-530	SB18-05	2	4	Soil		TCL VOCs
SO-17360-120305-DCR-531	SB18-05	4	6	Soil		TCL VOCs
SO-17360-120305-DCR-532	SB18-05	6	8	Soil		TCL VOCs
SO-17360-120305-DCR-533	SB18-05	8	10	Soil		TCL VOCs
SO-17360-120305-DCR-534	SB18-05	10	12	Soil		TCL VOCs
SO-17360-120305-DCR-535	SB18-05	10	12	Soil	Duplicate (535)	TCL VOCs
SO-17360-120305-DCR-536	SB18-05	12	14	Soil		TCL VOCs
SO-17360-120305-DCR-537	SB18-05	14	16	Soil		TCL VOCs
SO-17360-120305-DCR-538	SB18-05	16	18	Soil		TCL VOCs
SO-17360-120305-DCR-539	SB18-05	18	20	Soil		TCL VOCs
SO-17360-120305-DCR-540	SB15-05	0	2	Soil		TCL VOCs
SO-17360-120305-DCR-541	SB15-05	2	4	Soil		TCL VOCs
SO-17360-120305-DCR-542	SB15-05	4	6	Soil		TCL VOCs
SO-17360-120305-DCR-543	SB15-05	6	8	Soil		TCL VOCs
SO-17360-120305-DCR-544	SB15-05	8	10	Soil		TCL VOCs
SO-17360-120305-DCR-545	SB15-05	10	12	Soil		TCL VOCs
SO-17360-120305-DCR-546	SB15-05	12	14	Soil		TCL VOCs
SO-17360-120305-DCR-547	SB15-05	14	16	Soil		TCL VOCs
SO-17360-120305-DCR-548	SB15-05	16	18	Soil		TCL VOCs
SO-17360-120305-DCR-549	SB15-05	18	20	Soil		TCL VOCs
TB-17360-120305-DCR-550	--	--	--	Methanol	Trip Blank	TCL VOCs

Notes:

TCL - Target Compound List

VOC - Volatile Organic Compounds

QC - Quality Control

MS/MSD - Matrix Spike /Matrix Spike Duplicate

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Residential and Commercial ⁽¹⁾											SBI-04	SBI-04	SBI-04	SBI-04	SBI-04	SBI-04
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	S-17360-071504-DCR-122	S-17360-071504-DCR-123	S-17360-071504-DCR-124	S-17360-071504-DCR-125	S-17360-071504-DCR-126	S-17360-071504-DCR-127	
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				7/15/2004	7/15/2004	7/15/2004	7/15/2004	7/15/2004	7/15/2004	
Sample Depth											0-2 ft BGS	2-4 ft BGS	4-6 ft BGS	6-8 ft BGS	8-10 ft BGS	10-12 ft BGS	
Sample Type	a	b	c	d	e	f	g	h	i	j							
Units																	
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.29 U	0.28 U	0.28 U	0.29 U	0.29 U	
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.29 U	0.28 U	0.28 U	0.3 U	0.29 U	
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.29 U	0.28 U	0.28 U	0.3 U	0.29 U	
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.88 U	0.84 U	0.85 U	0.87 U	0.87 U	
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	2.9 U	2.8 U	2.8 U	3 U	2.9 U	
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	2.9 U	2.8 U	2.8 U	2.9 U	2.9 U	
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.88 U	0.84 U	0.85 U	0.87 U	0.87 U	
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.29 U	0.28 U	0.28 U	0.29 U	0.29 U	
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.29 U	0.28 U	0.28 U	0.29 U	0.29 U	
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.29 U	0.28 U	0.28 U	0.29 U	0.29 U	
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.29 U	0.28 U	0.28 U	0.3 U	0.29 U	
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	
cis-1,3-Dichloropropene	mg/kg											0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	
Cyclohexane	mg/kg											1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.29 U	0.28 U	0.28 U	0.29 U	0.29 U	
Methyl acetate	mg/kg											1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	
Methyl cyclohexane	mg/kg											0.039 J	1.4 U	1.4 U	1.4 U	1.4 U	
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.29 U	0.28 U	0.28 U	0.29 U	0.29 U	
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.29 U	0.28 U	0.28 U	0.29 U	0.29 U	
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.021 J	0.11 U	0.11 U	0.12 U	0.12 U	
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	
trans-1,3-Dichloropropene	mg/kg											0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	2"		0.056 U	0.057 U	0.058 U	
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.29 U	0.28 U	0.28 U	0.29 U	0.29 U	
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.038 J	0.17 U	0.17 U	0.18 U	0.17 U	

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
☐ - Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.).

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Residential and Commercial ⁽¹⁾											SBI-04	SBI-04	SBI-04	SBI-04	SBI-04	SBI-04
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source	Finite VSIC for 2 Meter Source	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	S-17360-071504-DCR-128	S-17360-071504-DCR-129	S-17360-071504-DCR-130	S-17360-071504-DCR-131	S-17360-071504-DCR-132	S-17360-071404-DCR-089	
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				7/15/2004	7/15/2004	7/15/2004	7/15/2004	7/15/2004	7/14/2004	
Sample Depth	a	b	c	d	e	f	g	h	i	j	12-14 ft BGS	14-16 ft BGS	16-18 ft BGS	18-20 ft BGS	20-22 ft BGS	0-2 ft BGS	
Sample Type	Units																
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.12 U	0.11 U	0.15 U	0.1 U	0.12 U	0.86 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.29 U	0.29 U	0.38 U	0.26 U	0.29 U	2.2 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.29 U	0.29 U	0.38 U	0.26 U	0.29 U	2.2 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.29 U	0.29 U	0.38 U	0.26 U	0.29 U	2.2 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.12 U	0.11 U	0.15 U	0.1 U	0.12 U	0.86 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.12 U	0.11 U	0.15 U	0.1 U	0.12 U	0.86 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.12 U	0.11 U	0.15 U	0.1 U	0.12 U	0.86 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.88 U	0.86 U	1.1 U	0.78 U	0.88 U	6.5 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	2.9 U	2.9 U	3.8 U	2.6 U	2.9 U	22 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	2.9 U	2.9 U	3.8 U	2.6 U	2.9 U	22 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.88 U	0.86 U	1.1 U	0.78 U	0.88 U	6.5 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.12 U	0.11 U	0.15 U	0.1 U	0.12 U	0.86 U
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.12 U	0.11 U	0.15 U	0.1 U	0.12 U	0.86 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.29 U	0.29 U	0.38 U	0.26 U	0.29 U	2.2 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.29 U	0.29 U	0.38 U	0.26 U	0.29 U	2.2 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.29 U	0.29 U	0.38 U	0.26 U	0.29 U	2.2 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.29 U	0.29 U	0.38 U	0.26 U	0.29 U	2.2 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
cis-1,3-Dichloropropene	mg/kg											0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
Cyclohexane	mg/kg											1.4 U	1.4 U	1.8 U	1.2 U	1.4 U	10 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.12 U	0.11 U	0.15 U	0.1 U	0.12 U	0.86 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.29 U	0.29 U	0.38 U	0.26 U	0.29 U	2.2 U
Methyl acetate	mg/kg											1.4 U	1.4 U	1.8 U	1.2 U	1.4 U	10 U
Methyl cyclohexane	mg/kg											1.4 U	1.4 U	1.8 U	1.2 U	1.4 U	0.2 J
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.29 U	0.29 U	0.38 U	0.26 U	0.29 U	2.2 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.29 U	0.29 U	0.38 U	0.26 U	0.29 U	2.2 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.12 U	0.11 U	0.15 U	0.1 U	0.12 U	0.16 J
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
trans-1,3-Dichloropropene	mg/kg											0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.016 J	0.014 J	0.075 U	0.052 U	0.059 U	12 ^{not}
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.12 U	0.11 U	0.15 U	0.1 U	0.12 U	0.86 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.29 U	0.29 U	0.38 U	0.26 U	0.29 U	2.2 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.12 U	0.11 U	0.15 U	0.1 U	0.12 U	0.86 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.18 U	0.17 U	0.23 U	0.16 U	0.18 U	0.28 J

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 - Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Residential and Commercial ⁽¹⁾</i>											<i>SB2-04</i>	<i>SB2-04</i>	<i>SB2-04</i>	<i>SB2-04</i>	<i>SB2-04</i>	<i>SB2-04</i>
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	<i>S-17360-071404-DCR-090</i>	<i>S-17360-071404-DCR-091</i>	<i>S-17360-071404-DCR-092</i>	<i>S-17360-071404-DCR-093</i>	<i>S-17360-071404-DCR-094</i>	<i>S-17360-071404-DCR-095</i>	
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				<i>7/14/2004</i>	<i>7/14/2004</i>	<i>7/14/2004</i>	<i>7/14/2004</i>	<i>7/14/2004</i>	<i>7/14/2004</i>	
Sample Depth	a	b	c	d	e	f	g	h	i	j	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	
Sample Type	<i>Units</i>																
<i>Volatile Organic Compounds</i>																	
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.27 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.27 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.27 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.87 U	0.92 U	0.88 U	0.88 U	0.92 U	0.82 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	2.9 U	3.1 U	2.9 U	2.9 U	3.1 U	2.7 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	2.9 U	3.1 U	2.9 U	2.9 U	3.1 U	2.7 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.87 U	0.92 U	0.88 U	0.88 U	0.92 U	0.82 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.27 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.27 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.27 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.27 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
cis-1,3-Dichloropropene	mg/kg											0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
Cyclohexane	mg/kg											1.4 U	1.5 U	1.4 U	1.4 U	1.5 U	1.3 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.27 U
Methyl acetate	mg/kg											1.4 U	1.5 U	1.4 U	1.4 U	1.5 U	1.3 U
Methyl cyclohexane	mg/kg											1.4 U	1.5 U	1.4 U	1.4 U	1.5 U	1.3 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.27 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.27 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
trans-1,3-Dichloropropene	mg/kg											0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.058 U	0.061 U	0.059 U	0.04 J	0.022 J	0.022 J
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.27 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U	0.16 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 - Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Residential and Commercial</i> ⁽¹⁾											<i>SB2-04</i>	<i>SB2-04</i>	<i>SB2-04</i>	<i>SB2-04</i>	<i>SB3-04</i>	<i>SB3-04</i>
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	<i>S-17360-071404-DCR-096</i>	<i>S-17360-071404-DCR-097</i>	<i>S-17360-071404-DCR-098</i>	<i>S-17360-071404-DCR-099</i>	<i>S-17360-071404-DCR-078</i>	<i>S-17360-071404-DCR-079</i>	
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				<i>7/14/2004</i>	<i>7/14/2004</i>	<i>7/14/2004</i>	<i>7/14/2004</i>	<i>7/14/2004</i>	<i>7/14/2004</i>	
Sample Depth	a	b	c	d	e	f	g	h	i	j	<i>14-16 ft BGS</i>	<i>16-18 ft BGS</i>	<i>18-20 ft BGS</i>	<i>20-22 ft BGS</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>	
Sample Type	<i>Units</i>																
<i>Volatile Organic Compounds</i>																	
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.11 U	0.11 U	0.12 U	0.11 U	0.22 U	0.13 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.29 U	0.28 U	0.3 U	0.28 U	0.54 U	0.32 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.29 U	0.28 U	0.3 U	0.28 U	0.54 U	0.32 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.29 U	0.28 U	0.3 U	0.28 U	0.54 U	0.32 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.11 U	0.11 U	0.12 U	0.11 U	0.22 U	0.13 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.11 U	0.11 U	0.12 U	0.11 U	0.22 U	0.13 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.11 U	0.11 U	0.12 U	0.11 U	0.22 U	0.13 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.86 U	0.83 U	0.89 U	0.83 U	1.6 U	0.95 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	2.9 U	2.8 U	3 U	2.8 U	5.4 U	3.2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	2.9 U	2.8 U	3 U	2.8 U	5.4 U	3.2 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.86 U	0.83 U	0.89 U	0.83 U	1.6 U	0.95 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.11 U	0.11 U	0.12 U	0.11 U	0.22 U	0.13 U
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.11 U	0.11 U	0.12 U	0.11 U	0.22 U	0.13 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.29 U	0.28 U	0.3 U	0.28 U	0.54 U	0.32 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.29 U	0.28 U	0.3 U	0.28 U	0.54 U	0.32 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.29 U	0.28 U	0.3 U	0.28 U	0.54 U	0.32 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.29 U	0.28 U	0.3 U	0.28 U	0.54 U	0.32 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
cis-1,3-Dichloropropene	mg/kg											0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
Cyclohexane	mg/kg											1.4 U	1.3 U	1.4 U	1.3 U	0.018 J	1.5 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.11 U	0.11 U	0.12 U	0.11 U	0.22 U	0.13 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.29 U	0.28 U	0.3 U	0.28 U	0.54 U	0.32 U
Methyl acetate	mg/kg											1.4 U	1.3 U	1.4 U	1.3 U	2.6 U	1.5 U
Methyl cyclohexane	mg/kg											1.4 U	1.3 U	1.4 U	1.3 U	0.1 J	1.5 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.29 U	0.28 U	0.3 U	0.28 U	0.54 U	0.32 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.29 U	0.28 U	0.3 U	0.28 U	0.54 U	0.32 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.11 U	0.11 U	0.12 U	0.11 U	0.042 J	0.13 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
trans-1,3-Dichloropropene	mg/kg											0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.087	0.063	0.027 J	0.046 J	2.8*	0.063 U
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.11 U	0.11 U	0.12 U	0.11 U	0.22 U	0.13 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.29 U	0.28 U	0.3 U	0.28 U	0.54 U	0.32 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.11 U	0.11 U	0.12 U	0.11 U	0.22 U	0.13 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.17 U	0.17 U	0.18 U	0.17 U	0.084 J	0.19 U

Notes:
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U - Not present at or above the associated value.
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UJ - Estimated reporting limit.
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TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Residential and Commercial ⁽¹⁾											SB3-04	SB3-04	SB3-04	SB3-04	SB3-04	SB3-04
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	S-17360-071404-DCR-080	S-17360-071404-DCR-081	S-17360-071404-DCR-082	S-17360-071404-DCR-083	S-17360-071404-DCR-084	S-17360-071404-DCR-085	
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				7/14/2004	7/14/2004	7/14/2004	7/14/2004	7/14/2004	7/14/2004	
Sample Depth											4-6 ft BGS	6-8 ft BGS	8-10 ft BGS	10-12 ft BGS	12-14 ft BGS	14-16 ft BGS	
Sample Type	a	b	c	d	e	f	g	h	i	j							
Units																	
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.12 U	0.16 U	0.11 U	0.1 U	0.1 U	0.11 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.3 U	0.4 U	0.27 U	0.26 U	0.25 U	0.26 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.3 U	0.4 U	0.27 U	0.26 U	0.25 U	0.26 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.3 U	0.4 U	0.27 U	0.26 U	0.25 U	0.26 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.12 U	0.16 U	0.11 U	0.1 U	0.1 U	0.11 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.12 U	0.16 U	0.11 U	0.1 U	0.1 U	0.11 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.12 U	0.16 U	0.11 U	0.1 U	0.1 U	0.11 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.89 U	1.2 U	0.8 U	0.77 U	0.75 U	0.79 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	3 U	4 U	2.7 U	2.6 U	2.5 U	2.6 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	3 U	4 U	2.7 U	2.6 U	2.5 U	2.6 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.89 U	1.2 U	0.8 U	0.77 U	0.75 U	0.79 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.12 U	0.16 U	0.11 U	0.1 U	0.1 U	0.11 U
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.12 U	0.16 U	0.11 U	0.1 U	0.1 U	0.11 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.3 U	0.4 U	0.27 U	0.26 U	0.25 U	0.26 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.3 U	0.4 U	0.27 U	0.26 U	0.25 U	0.26 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.3 U	0.4 U	0.27 U	0.26 U	0.25 U	0.26 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.3 U	0.4 U	0.27 U	0.26 U	0.25 U	0.26 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
cis-1,3-Dichloropropene	mg/kg											0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
Cyclohexane	mg/kg											1.4 U	1.9 U	1.3 U	1.2 U	1.2 U	1.3 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.12 U	0.16 U	0.11 U	0.1 U	0.1 U	0.11 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.3 U	0.4 U	0.27 U	0.26 U	0.25 U	0.26 U
Methyl acetate	mg/kg											1.4 U	1.9 U	1.3 U	1.2 U	1.2 U	1.3 U
Methyl cyclohexane	mg/kg											1.4 U	1.9 U	1.3 U	1.2 U	1.2 U	1.3 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.3 U	0.4 U	0.27 U	0.26 U	0.25 U	0.26 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.3 U	0.4 U	0.27 U	0.26 U	0.25 U	0.26 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.12 U	0.16 U	0.11 U	0.1 U	0.1 U	0.11 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
trans-1,3-Dichloropropene	mg/kg											0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.02 J	0.079 U	0.078	0.024 J	0.04 J	0.031 J
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.12 U	0.16 U	0.11 U	0.1 U	0.1 U	0.11 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.3 U	0.4 U	0.27 U	0.26 U	0.25 U	0.26 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.12 U	0.16 U	0.11 U	0.1 U	0.1 U	0.11 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.18 U	0.24 U	0.16 U	0.15 U	0.15 U	0.16 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
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GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Residential and Commercial ⁽¹⁾											SB3-04	SB3-04	SB3-04	SB4-04	SB4-04	SB4-04
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration	S-17360-071404-DCR-086	S-17360-071404-DCR-087	S-17360-071404-DCR-088	S-17360-071504-DCR-111	S-17360-071504-DCR-112	S-17360-071504-DCR-113	
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness			Screening	7/14/2004	7/14/2004	7/14/2004	7/15/2004	7/15/2004	7/15/2004	
Sample Depth											16-18 ft BGS	18-20 ft BGS	20-22 ft BGS	0-2 ft BGS	2-4 ft BGS	4-6 ft BGS	
Sample Type	a	b	c	d	e	f	g	h	i	j							
Units																	
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.12 U	0.11 U	0.11 U	0.13 U	0.15 U	0.16 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.29 U	0.27 U	0.26 U	0.33 U	0.38 U	0.41 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.29 U	0.27 U	0.26 U	0.33 U	0.38 U	0.41 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.29 U	0.27 U	0.26 U	0.33 U	0.38 U	0.41 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.12 U	0.11 U	0.11 U	0.13 U	0.15 U	0.16 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.12 U	0.11 U	0.11 U	0.13 U	0.15 U	0.16 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.12 U	0.11 U	0.11 U	0.13 U	0.15 U	0.16 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.86 U	0.82 U	0.79 U	0.99 U	1.1 U	1.2 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	2.9 U	2.7 U	2.6 U	3.3 U	3.8 U	4.1 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	2.9 U	2.7 U	2.6 U	3.3 U	3.8 U	4.1 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.86 U	0.82 U	0.79 U	0.99 U	1.1 U	1.2 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.12 U	0.11 U	0.11 U	0.13 U	0.15 U	0.16 U
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.12 U	0.11 U	0.11 U	0.13 U	0.15 U	0.16 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.29 U	0.27 U	0.26 U	0.33 U	0.38 U	0.41 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.29 U	0.27 U	0.26 U	0.33 U	0.38 U	0.41 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.29 U	0.27 U	0.26 U	0.33 U	0.38 U	0.41 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.29 U	0.27 U	0.26 U	0.33 U	0.027 J	0.41 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
cis-1,3-Dichloropropene	mg/kg											0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
Cyclohexane	mg/kg											1.4 U	1.3 U	1.3 U	1.6 U	1.8 U	2 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.12 U	0.11 U	0.11 U	0.13 U	0.15 U	0.16 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.29 U	0.27 U	0.26 U	0.33 U	0.38 U	0.41 U
Methyl acetate	mg/kg											1.4 U	1.3 U	1.3 U	1.6 U	1.8 U	2 U
Methyl cyclohexane	mg/kg											1.4 U	1.3 U	1.3 U	1.6 U	1.8 U	2 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.29 U	0.27 U	0.26 U	0.33 U	0.38 U	0.41 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.29 U	0.27 U	0.26 U	0.33 U	0.38 U	0.41 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.12 U	0.11 U	0.11 U	0.13 U	0.15 U	0.16 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
trans-1,3-Dichloropropene	mg/kg											0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.058 U	0.02 J	0.053 U	0.19*	0.076 U	0.082 U
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.12 U	0.11 U	0.11 U	0.13 U	0.15 U	0.16 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.29 U	0.27 U	0.26 U	0.33 U	0.38 U	0.41 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.12 U	0.11 U	0.11 U	0.13 U	0.15 U	0.16 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.17 U	0.16 U	0.16 U	0.2 U	0.23 U	0.25 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
☐ - Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Residential and Commercial ⁽¹⁾</i>											<i>SB4-04</i>	<i>SB4-04</i>	<i>SB4-04</i>	<i>SB4-04</i>	<i>SB4-04</i>	<i>SB4-04</i>
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	<i>S-17360-071504-DCR-114</i>	<i>S-17360-071504-DCR-115</i>	<i>S-17360-071504-DCR-116</i>	<i>S-17360-071504-DCR-117</i>	<i>S-17360-071504-DCR-118</i>	<i>S-17360-071504-DCR-119</i>	
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				<i>7/15/2004</i>	<i>7/15/2004</i>	<i>7/15/2004</i>	<i>7/15/2004</i>	<i>7/15/2004</i>	<i>7/15/2004</i>	
Sample Depth	a	b	c	d	e	f	g	h	i	j	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>16-18 ft BGS</i>	
Sample Type	<i>Units</i>																
<i>Volatile Organic Compounds</i>																	
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.12 U	0.12 U	0.13 U	0.11 U	0.12 U	0.12 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.3 U	0.29 U	0.33 U	0.28 U	0.31 U	0.29 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.3 U	0.29 U	0.33 U	0.28 U	0.31 U	0.29 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.3 U	0.29 U	0.33 U	0.28 U	0.31 U	0.29 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.12 U	0.12 U	0.13 U	0.11 U	0.12 U	0.12 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.12 U	0.12 U	0.13 U	0.11 U	0.12 U	0.12 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.12 U	0.12 U	0.13 U	0.11 U	0.12 U	0.12 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.89 U	0.88 U	0.98 U	0.85 U	0.92 U	0.88 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	3 U	2.9 U	3.3 U	2.8 U	3.1 U	2.9 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	3 U	2.9 U	3.3 U	2.8 U	3.1 U	2.9 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.89 U	0.88 U	0.98 U	0.85 U	0.92 U	0.88 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.12 U	0.12 U	0.13 U	0.11 U	0.12 U	0.12 U
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.12 U	0.12 U	0.13 U	0.11 U	0.12 U	0.12 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.3 U	0.29 U	0.33 U	0.28 U	0.31 U	0.29 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.3 U	0.29 U	0.33 U	0.28 U	0.31 U	0.29 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.3 U	0.29 U	0.33 U	0.28 U	0.31 U	0.29 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.3 U	0.29 U	0.021 J	0.018 J	0.31 U	0.29 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
cis-1,3-Dichloropropene	mg/kg											0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
Cyclohexane	mg/kg											1.4 U		1.6 U	1.4 U	1.5 U	1.4 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.12 U	0.12 U	0.13 U	0.11 U	0.12 U	0.12 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.3 U	0.29 U	0.33 U	0.28 U	0.31 U	0.29 U
Methyl acetate	mg/kg											1.4 U		1.6 U	1.4 U	1.5 U	1.4 U
Methyl cyclohexane	mg/kg											1.4 U		1.6 U	1.4 U	1.5 U	1.4 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.3 U	0.29 U	0.33 U	0.28 U	0.31 U	0.29 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.3 U	0.29 U	0.33 U	0.28 U	0.31 U	0.29 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.12 U	0.12 U	0.13 U	0.11 U	0.12 U	0.12 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
trans-1,3-Dichloropropene	mg/kg											0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.059 U	0.059 U	0.066 U	0.057 U	0.041 J	0.059 U
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.12 U	0.12 U	0.13 U	0.11 U	0.12 U	0.12 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.3 U	0.29 U	0.33 U	0.28 U	0.31 U	0.29 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.12 U	0.12 U	0.13 U	0.11 U	0.12 U	0.12 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.18 U		0.18 U	0.17 U	0.18 U	0.18 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 - Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Residential and Commercial ⁽¹⁾											SB4-04	SB4-04	SB5-04	SB5-04	SB5-04	SB5-04
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil	Finite VSIC for 5 Meter Source	Finite VSIC for 2 Meter Source	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration	S-17360-071504-DCR-120	S-17360-071504-DCR-121	S-17360-071504-DCR-100	S-17360-071504-DCR-101	S-17360-071504-DCR-102	S-17360-071504-DCR-103	
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				7/15/2004	7/15/2004	7/15/2004	7/15/2004	7/15/2004	7/15/2004	
Sample Depth	a	b	c	d	e	f	g	h	i	j	18-20 ft BGS	20-22 ft BGS	0-2 ft BGS	2-4 ft BGS	4-6 ft BGS	6-8 ft BGS	
Sample Type	Units																
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.11 U	0.11 U	0.4 U	0.23 U	0.13 U	0.12 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.27 U	0.27 U	1 U	0.57 U	0.33 U	0.3 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.27 U	0.27 U	1 U	0.57 U	0.33 U	0.3 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.27 U	0.27 U	1 U	0.57 U	0.33 U	0.3 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.11 U	0.11 U	0.4 U	0.23 U	0.13 U	0.12 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.11 U	0.11 U	0.4 U	0.23 U	0.13 U	0.12 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.11 U	0.11 U	0.4 U	0.23 U	0.13 U	0.12 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.8 U	0.8 U	3 U	1.7 U	0.99 U	0.059 J
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	2.7 U	2.7 U	10 U	5.7 U	3.3 U	3 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	2.7 U	2.7 U	10 U	5.7 U	3.3 U	3 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.8 U	0.8 U	3 U	1.7 U	0.99 U	0.91 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.053 U	0.053 U	0.033 J	0.11 U	0.066 U	0.061 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.11 U	0.11 U	0.4 U	0.23 U	0.13 U	0.12 U
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.11 U	0.11 U	0.4 U	0.23 U	0.13 U	0.12 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.27 U	0.27 U	1 U	0.57 U	0.33 U	0.3 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.27 U	0.27 U	1 U	0.57 U	0.33 U	0.3 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.27 U	0.27 U	1 U	0.57 U	0.33 U	0.3 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.27 U	0.023 J	1 U	0.57 U	0.33 U	0.3 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U
cis-1,3-Dichloropropene	mg/kg											0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U
Cyclohexane	mg/kg											1.3 U	1.3 U	0.031 J	2.7 U	1.6 U	1.5 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.11 U	0.11 U	0.4 U	0.23 U	0.13 U	0.12 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.27 U	0.27 U	0.025 J	0.57 U	0.33 U	0.3 U
Methyl acetate	mg/kg											1.3 U	1.3 U	4.8 U	2.7 U	1.6 U	1.5 U
Methyl cyclohexane	mg/kg											1.3 U	1.3 U	0.2 J	2.7 U	1.6 U	1.5 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.27 U	0.27 U	1 U	0.57 U	0.33 U	0.3 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.27 U	0.27 U	1 U	0.57 U	0.33 U	0.3 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.11 U	0.11 U	0.14 J	0.23 U	0.13 U	0.12 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U
trans-1,3-Dichloropropene	mg/kg											0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.053 U	0.018 J	5.7 ND	0.11 U	0.066 U	0.061 U
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.11 U	0.11 U	0.4 U	0.23 U	0.13 U	0.12 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.27 U	0.27 U	1 U	0.57 U	0.33 U	0.3 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.11 U	0.11 U	0.4 U	0.23 U	0.13 U	0.12 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.16 U	0.16 U	0.2 J	0.34 U	0.2 U	0.18 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 - Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Residential and Commercial ⁽¹⁾											SB5-04	SB5-04	SB5-04	SB5-04	SB5-04	SB5-04
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	S-17360-071504-DCR-104 7/15/2004 8-10 ft BGS	S-17360-071504-DCR-105 7/15/2004 10-12 ft BGS	S-17360-071504-DCR-106 7/15/2004 12-14 ft BGS	S-17360-071504-DCR-107 7/15/2004 14-16 ft BGS	S-17360-071504-DCR-108 7/15/2004 16-18 ft BGS	S-17360-071504-DCR-109 7/15/2004 18-20 ft BGS	
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness										
Sample Depth	a	b	c	d	e	f	g	h	i	j							
Sample Type	Units																
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.12 U	0.11 U	0.099 U	0.11 U	0.11 U	0.12 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.3 U	0.28 U	0.25 U	0.28 U	0.27 U	0.31 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.3 U	0.28 U	0.25 U	0.28 U	0.27 U	0.31 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.3 U	0.28 U	0.25 U	0.28 U	0.27 U	0.31 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.12 U	0.11 U	0.099 U	0.11 U	0.11 U	0.12 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.12 U	0.11 U	0.099 U	0.11 U	0.11 U	0.12 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.12 U	0.11 U	0.099 U	0.11 U	0.11 U	0.12 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.9 U	0.83 U	0.75 U	0.84 U	0.82 U	0.93 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	3 U	2.8 U	2.5 U	2.8 U	2.7 U	3.1 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	3 U	2.8 U	2.5 U	2.8 U	2.7 U	3.1 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.9 U	0.83 U	0.75 U	0.84 U	0.82 U	0.93 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.12 U	0.11 U	0.099 U	0.11 U	0.11 U	0.12 U
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.12 U	0.11 U	0.099 U	0.11 U	0.11 U	0.12 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.3 U	0.28 U	0.25 U	0.28 U	0.27 U	0.31 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.3 U	0.28 U	0.25 U	0.28 U	0.27 U	0.31 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.3 U	0.28 U	0.25 U	0.28 U	0.27 U	0.31 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.3 U	0.28 U	0.25 U	0.28 U	0.27 U	0.31 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
cis-1,3-Dichloropropene	mg/kg											0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
Cyclohexane	mg/kg											1.4 U	1.3 U	1.2 U	1.3 U	1.3 U	1.5 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.12 U	0.11 U	0.099 U	0.11 U	0.11 U	0.12 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.3 U	0.28 U	0.25 U	0.28 U	0.27 U	0.31 U
Methyl acetate	mg/kg											1.4 U	1.3 U	1.2 U	1.3 U	1.3 U	1.5 U
Methyl cyclohexane	mg/kg											1.4 U	1.3 U	1.2 U	1.3 U	1.3 U	1.5 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.3 U	0.28 U	0.25 U	0.28 U	0.27 U	0.31 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.3 U	0.28 U	0.25 U	0.28 U	0.27 U	0.31 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.12 U	0.11 U	0.099 U	0.11 U	0.11 U	0.12 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
trans-1,3-Dichloropropene	mg/kg											0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.06 U	0.025 J	0.05 U	0.02 J	0.025 J	0.062 U
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.12 U	0.11 U	0.099 U	0.11 U	0.11 U	0.12 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.3 U	0.28 U	0.25 U	0.28 U	0.27 U	0.31 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.12 U	0.11 U	0.099 U	0.11 U	0.11 U	0.12 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.18 U	0.17 U	0.15 U	0.17 U	0.16 U	0.19 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 - Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Residential and Commercial</i> ⁽¹⁾										<i>SB5-04</i>	<i>SB6-05</i>	<i>SB6-05</i>	<i>SB6-05</i>	<i>SB6-05</i>	<i>SB6-05</i>
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	<i>S-17360-071504-DCR-110</i>	<i>SO-17360-071105-DCR-419</i>	<i>SO-17360-071105-DCR-420</i>	<i>SO-17360-071105-DCR-421</i>	<i>SO-17360-071105-DCR-422</i>	<i>SO-17360-071105-DCR-423</i>
Sample Date																
Sample Depth	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness									
Sample Type	a	b	c	d	e	f	g	h	i	j	<i>7/15/2004</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>
											<i>20-22 ft BGS</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>
<i>Units</i>																
<i>Volatile Organic Compounds</i>																
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.14 U	0.08 U	0.081 U	0.076 U	0.075 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.35 U	0.2 U	0.2 U	0.19 U	0.19 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.35 U	0.2 U	0.2 U	0.19 U	0.19 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.35 U	0.2 U	0.2 U	0.19 U	0.19 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.14 U	0.08 U	0.081 U	0.076 U	0.075 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.14 U	0.08 U	0.081 U	0.076 U	0.075 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.14 U	0.08 U	0.081 U	0.076 U	0.075 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	1.1 U	0.6 U	0.61 U	0.57 U	0.56 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	3.5 U	2 U	2 U	1.9 U	1.9 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	3.5 U	2 U	2 U	1.9 U	1.9 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	1.1 U	0.6 U	0.61 U	0.57 U	0.56 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.14 U	0.08 UJ	0.081 UJ	0.076 UJ	0.075 UJ
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.14 U	0.08 U	0.081 U	0.076 U	0.075 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.35 U	0.2 U	0.2 U	0.19 U	0.19 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.35 U	0.2 U	0.2 U	0.19 U	0.19 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.35 U	0.2 U	0.2 U	0.19 U	0.19 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.35 U	0.2 U	0.2 U	0.19 U	0.19 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
cis-1,3-Dichloropropene	mg/kg											0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
Cyclohexane	mg/kg											1.7 U	0.96 U	0.97 U	0.91 U	0.9 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.14 U	0.08 U	0.081 U	0.076 U	0.075 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.35 U	0.2 U	0.2 U	0.19 U	0.19 U
Methyl acetate	mg/kg											1.7 U	0.053 J	0.97 U	0.91 U	0.9 U
Methyl cyclohexane	mg/kg											1.7 U	0.96 U	0.97 U	0.91 U	0.9 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.35 U	0.2 U	0.2 U	0.19 U	0.19 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.35 U	0.2 U	0.2 U	0.19 U	0.19 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.14 U	0.08 U	0.081 U	0.076 U	0.075 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
trans-1,3-Dichloropropene	mg/kg											0.071 U	0.04 UJ	0.04 UJ	0.038 UJ	0.038 UJ
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.071 U	0.015 J	0.04 U	0.038 U	0.038 U
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.14 U	0.08 U	0.081 U	0.076 U	0.075 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.35 U	0.2 U	0.2 U	0.19 U	0.19 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.14 U	0.08 U	0.081 U	0.076 U	0.075 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.21 U	0.12 U	0.12 U	0.11 U	0.11 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 - Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Residential and Commercial</i> ⁽¹⁾										<i>SB6-05</i>	<i>SB6-05</i>	<i>SB6-05</i>	<i>SB6-05</i>	<i>SB6-05</i>	<i>SB6-05</i>
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	<i>SO-17360-071105-DCR-424</i>	<i>SO-17360-071105-DCR-425</i>	<i>SO-17360-071105-DCR-426</i>	<i>SO-17360-071105-DCR-427</i>	<i>SO-17360-071105-DCR-428</i>	<i>SO-17360-071105-DCR-429</i>
Sample Date											<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>
Sample Depth	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>16-18 ft BGS</i>	<i>18-20 ft BGS</i>	<i>8-10 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j						<i>Duplicate</i>
<i>Units</i>																
<i>Volatile Organic Compounds</i>																
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.048 U	0.038 U	0.053 U	0.04 U	0.042 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.096 U	0.076 U	0.11 U	0.08 U	0.084 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.048 U	0.038 U	0.053 U	0.04 U	0.042 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.048 U	0.038 U	0.053 U	0.04 U	0.042 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.048 U	0.038 U	0.053 U	0.04 U	0.042 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.24 U	0.19 U	0.26 U	0.2 U	0.21 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.24 U	0.19 U	0.26 U	0.2 U	0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.24 U	0.19 U	0.26 U	0.2 U	0.21 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.096 U	0.076 U	0.11 U	0.08 U	0.084 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.048 U	0.038 U	0.053 U	0.04 U	0.042 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.048 U	0.038 U	0.053 U	0.04 U	0.042 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.096 U	0.076 U	0.11 U	0.08 U	0.084 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.096 U	0.076 U	0.11 U	0.08 U	0.084 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.72 U	0.57 U	0.79 U	0.6 U	0.63 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	2.4 U	1.9 U	2.6 U	2 U	2.1 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	2.4 U	1.9 U	2.6 U	2 U	2.1 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.72 U	0.57 U	0.79 U	0.6 U	0.63 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.048 U	0.038 U	0.053 U	0.04 U	0.042 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.096 UJ	0.076 UJ	0.11 UJ	0.08 UJ	0.079 U
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.096 U	0.076 U	0.11 U	0.08 U	0.084 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.24 U	0.19 U	0.26 U	0.2 U	0.21 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.24 U	0.19 U	0.26 U	0.2 U	0.21 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.048 U	0.038 U	0.053 U	0.04 U	0.042 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.048 U	0.038 U	0.053 U	0.04 U	0.042 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.24 U	0.19 U	0.26 U	0.2 U	0.21 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.048 U	0.038 U	0.053 U	0.04 U	0.042 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.24 U	0.19 U	0.26 U	0.2 U	0.21 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.048 U	0.038 U	0.053 U	0.04 U	0.042 U
cis-1,3-Dichloropropene	mg/kg											0.048 U	0.038 U	0.053 U	0.04 U	0.042 U
Cyclohexane	mg/kg											1.2 U	0.91 U	1.3 U	0.96 U	1 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.048 U	0.038 U	0.053 U	0.04 U	0.042 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.096 U	0.076 U	0.11 U	0.08 U	0.084 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.048 U	0.038 U	0.053 U	0.016 J	0.042 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.24 U	0.19 U	0.26 U	0.2 U	0.21 U
Methyl acetate	mg/kg											1.2 U	0.91 U	1.3 U	0.95 J	1 U
Methyl cyclohexane	mg/kg											1.2 U	0.91 U	1.3 U	0.96 U	1 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.24 U	0.19 U	0.26 U	0.2 U	0.21 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.24 U	0.19 U	0.26 U	0.2 U	0.21 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.048 U	0.038 U	0.053 U	0.04 U	0.042 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.048 U	0.038 U	0.053 U	0.04 U	0.042 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.096 U	0.076 U	0.11 U	0.08 U	0.084 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.048 U	0.038 U	0.053 U	0.04 U	0.042 U
trans-1,3-Dichloropropene	mg/kg											0.048 UJ	0.038 UJ	0.053 UJ	0.04 UJ	0.042 U
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.048 U	0.038 U	0.053 U	0.014 J	0.042 U
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.096 U	0.076 U	0.11 U	0.08 U	0.084 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.24 U	0.19 U	0.26 U	0.2 U	0.21 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.096 U	0.076 U	0.11 U	0.08 U	0.084 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.14 U	0.11 U	0.16 U	0.098 J	0.13 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Residential and Commercial ⁽¹⁾											SB7-05	SB7-05	SB7-05	SB7-05	SB7-05	SB7-05
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	SO-17360-071105-DCR-450	SO-17360-071105-DCR-451	SO-17360-071105-DCR-452	SO-17360-071105-DCR-453	SO-17360-071105-DCR-454	SO-17360-071105-DCR-455	
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				7/11/2005	7/11/2005	7/11/2005	7/11/2005	7/11/2005	7/11/2005	
Sample Depth											0-2 ft BGS	2-4 ft BGS	4-6 ft BGS	6-8 ft BGS	8-10 ft BGS	10-12 ft BGS	
Sample Type	a	b	c	d	e	f	g	h	i	j							
	Units																
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.04 U	0.074 U	0.039 U	0.037 U	0.039 U	0.041 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.08 U	0.15 U	0.078 U	0.074 U	0.078 U	0.082 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.04 U	0.074 U	0.039 U	0.037 U	0.039 U	0.041 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.04 U	0.074 U	0.039 U	0.037 U	0.039 U	0.041 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.04 U	0.074 U	0.039 U	0.037 U	0.039 U	0.041 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.2 U	0.37 U	0.19 U	0.18 U	0.19 U	0.2 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.2 U	0.37 U	0.19 U	0.18 U	0.19 U	0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.2 U	0.37 U	0.19 U	0.18 U	0.19 U	0.2 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.08 U	0.15 U	0.078 U	0.074 U	0.078 U	0.082 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.04 U	0.074 U	0.039 U	0.037 U	0.039 U	0.041 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.04 U	0.074 U	0.039 U	0.037 U	0.039 U	0.041 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.08 U	0.15 U	0.078 U	0.074 U	0.078 U	0.082 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.08 U	0.15 U	0.078 U	0.074 U	0.078 U	0.082 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.6 U	1.1 U	0.58 U	0.55 U	0.58 U	0.61 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	2 U	3.7 U	1.9 U	1.8 U	1.9 U	2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	2 U	3.7 U	1.9 U	1.8 U	1.9 U	2 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.6 U	1.1 U	0.58 U	0.55 U	0.58 U	0.61 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.04 U	0.074 U	0.039 U	0.037 U	0.039 U	0.041 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.08 UJ	0.15 UJ	0.078 UJ	0.074 UJ	0.078 UJ	0.082 UJ
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.08 U	0.15 U	0.078 U	0.074 U	0.078 U	0.082 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.2 U	0.37 U	0.19 U	0.18 U	0.19 U	0.2 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.2 U	0.37 U	0.19 U	0.18 U	0.19 U	0.2 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.04 U	0.074 U	0.039 U	0.037 U	0.039 U	0.041 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.04 U	0.074 U	0.039 U	0.037 U	0.039 U	0.041 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.2 U	0.37 U	0.19 U	0.18 U	0.19 U	0.2 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.04 U	0.074 U	0.039 U	0.037 U	0.039 U	0.041 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.2 U	0.37 U	0.19 U	0.18 U	0.19 U	0.2 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.04 U	0.074 U	0.039 U	0.037 U	0.039 U	0.041 U
cis-1,3-Dichloropropene	mg/kg											0.04 U	0.074 U	0.039 U	0.037 U	0.039 U	0.041 U
Cyclohexane	mg/kg											0.008 J	1.8 U	0.93 U	0.88 U	0.93 U	0.98 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.04 U	0.074 U	0.039 U	0.037 U	0.039 U	0.041 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.08 U	0.15 U	0.078 U	0.074 U	0.078 U	0.082 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.04 U	0.074 U	0.039 U	0.037 U	0.039 U	0.041 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.2 U	0.37 U	0.19 U	0.18 U	0.19 U	0.2 U
Methyl acetate	mg/kg											0.96 U	1.8 U	0.93 U	0.88 U	0.93 U	0.98 U
Methyl cyclohexane	mg/kg											0.026 J	0.032 J	0.93 U	0.88 U	0.93 U	0.98 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.2 U	0.37 U	0.19 U	0.18 U	0.19 U	0.2 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.2 U	0.37 U	0.19 U	0.18 U	0.19 U	0.2 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.04 U	0.074 U	0.039 U	0.037 U	0.039 U	0.041 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.04 U	0.074 U	0.039 U	0.037 U	0.039 U	0.041 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.08 U	0.15 U	0.078 U	0.074 U	0.078 U	0.082 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.04 U	0.074 U	0.039 U	0.037 U	0.039 U	0.041 U
trans-1,3-Dichloropropene	mg/kg											0.04 U	0.074 U	0.039 U	0.037 U	0.039 U	0.041 U
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	1.6 ^a 2.5 ^a		0.016 J	0.037 U	0.039 U	0.041 U
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.08 U	0.15 U	0.078 U	0.074 U	0.078 U	0.082 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.2 U	0.37 U	0.19 U	0.18 U	0.19 U	0.2 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.08 U	0.15 U	0.078 U	0.074 U	0.078 U	0.082 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.016 J	0.22 U	0.12 U	0.11 U	0.12 U	0.12 U

Notes:

⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.

U - Not present at or above the associated value.

J - Estimated concentration.

UJ - Estimated reporting limit.

Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Residential and Commercial ⁽¹⁾										SB7-05	SB7-05	SB7-05	SB7-05	SB8-05	SB8-05
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration	SO-17360-071105-DCR-456	SO-17360-071105-DCR-457	SO-17360-071105-DCR-458	SO-17360-071105-DCR-459	SO-17360-071205-DCR-471	SO-17360-071205-DCR-472
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness			Screening	7/11/2005	7/11/2005	7/11/2005	7/11/2005	7/12/2005	7/12/2005
Sample Depth	a	b	c	d	e	f	g	h	i	j	12-14 ft BGS	14-16 ft BGS	16-18 ft BGS	18-20 ft BGS	0-2 ft BGS	2-4 ft BGS
Sample Type	Units															
Volatile Organic Compounds																
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.038 U	0.044 U	0.052 U	0.04 U	0.04 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.077 U	0.089 U	0.1 U	0.081 U	0.08 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.038 U	0.044 U	0.052 U	0.04 U	0.04 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.038 U	0.044 U	0.052 U	0.04 U	0.04 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.038 U	0.044 U	0.052 U	0.04 U	0.04 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.19 U	0.22 U	0.26 U	0.2 U	0.2 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.19 U	0.22 U	0.26 U	0.2 U	0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.19 U	0.22 U	0.26 U	0.2 U	0.2 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.077 U	0.089 U	0.1 U	0.081 U	0.08 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.038 U	0.044 U	0.052 U	0.04 U	0.04 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.038 U	0.044 U	0.052 U	0.04 U	0.04 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.077 U	0.089 U	0.1 U	0.081 U	0.08 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.077 U	0.089 U	0.1 U	0.081 U	0.08 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.58 U	0.67 U	0.78 U	0.61 U	0.6 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	1.9 U	2.2 U	2.6 U	2 U	2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	1.9 U	2.2 U	2.6 U	2 U	2 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.58 U	0.67 U	0.78 U	0.61 U	0.6 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.038 U	0.044 U	0.052 U	0.04 U	0.04 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.077 UJ	0.089 UJ	0.1 UJ	0.081 UJ	0.08 UJ
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.077 U	0.089 U	0.1 U	0.081 U	0.08 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.19 U	0.22 U	0.26 U	0.2 U	0.2 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.19 U	0.22 U	0.26 U	0.2 U	0.2 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.038 U	0.044 U	0.052 U	0.04 U	0.04 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.038 U	0.044 U	0.052 U	0.04 U	0.04 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.19 U	0.22 U	0.26 U	0.2 U	0.2 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.038 U	0.044 U	0.052 U	0.04 U	0.04 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.19 U	0.22 U	0.26 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.038 U	0.044 U	0.052 U	0.04 U	0.04 U
cis-1,3-Dichloropropene	mg/kg											0.038 U	0.044 U	0.052 U	0.04 U	0.04 UJ
Cyclohexane	mg/kg											0.92 U	1.1 U	1.2 U	0.97 U	0.96 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.038 U	0.044 U	0.052 U	0.04 U	0.04 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.077 U	0.089 U	0.1 U	0.081 U	0.08 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.038 U	0.044 U	0.052 U	0.04 U	0.04 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.19 U	0.22 U	0.26 U	0.2 U	0.2 U
Methyl acetate	mg/kg											0.92 U	0.19 J	0.14 J	0.97 U	0.96 U
Methyl cyclohexane	mg/kg											0.92 U	1.1 U	1.2 U	0.97 U	0.96 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.19 U	0.22 U	0.26 U	0.2 U	0.2 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.19 U	0.22 U	0.26 U	0.2 U	0.2 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.038 U	0.044 U	0.052 U	0.04 U	0.04 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.038 U	0.044 U	0.052 U	0.04 U	0.04 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.077 U	0.089 U	0.1 U	0.081 U	0.08 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.038 U	0.044 U	0.052 U	0.04 U	0.04 U
trans-1,3-Dichloropropene	mg/kg											0.038 U	0.044 U	0.052 U	0.04 U	0.04 UJ
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.038 U	0.29 ^a		0.38 ^a	
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.077 U	0.089 U	0.1 U	0.081 U	0.08 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.19 U	0.22 U	0.26 U	0.2 U	0.2 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.077 U	0.089 U	0.1 U	0.081 U	0.08 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.12 U	0.13 U	0.16 U	0.12 U	0.12 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Residential and Commercial ⁽¹⁾											SB8-05	SB8-05	SB8-05	SB8-05	SB8-05	SB8-05
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	SO-17360-071205-DCR-473	SO-17360-071205-DCR-474	SO-17360-071205-DCR-475	SO-17360-071205-DCR-476	SO-17360-071205-DCR-477	SO-17360-071205-DCR-478	
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				7/12/2005	7/12/2005	7/12/2005	7/12/2005	7/12/2005	7/12/2005	
Sample Depth	a	b	c	d	e	f	g	h	i	j	4-6 ft BGS	6-8 ft BGS	8-10 ft BGS	10-12 ft BGS	12-14 ft BGS	14-16 ft BGS	
Sample Type	Units																
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.039 U	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.078 U	0.078 U	0.08 U	0.3 U	0.092 U	0.08 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.039 U	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.039 U	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.039 U	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.2 U	0.19 U	0.2 U	0.75 U	0.23 U	0.2 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.2 U	0.19 U	0.2 U	0.75 U	0.23 U	0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.2 U	0.19 U	0.2 U	0.75 U	0.23 U	0.2 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.078 U	0.078 U	0.08 U	0.3 U	0.092 U	0.08 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.039 U	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.039 U	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.078 U	0.078 U	0.08 U	0.3 U	0.092 U	0.08 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.078 U	0.078 U	0.08 U	0.3 U	0.092 U	0.08 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.59 U	0.58 U	0.6 U	2.2 U	0.69 U	0.6 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	2 U	1.9 U	2 U	7.5 U	2.3 U	2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	2 U	1.9 U	2 U	7.5 U	2.3 U	2 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.59 U	0.58 U	0.6 U	2.2 U	0.69 UJ	0.6 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.039 U	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.078 UJ	0.078 UJ	0.08 UJ	0.3 UJ	0.092 UJ	0.08 UJ
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.078 U	0.078 U	0.08 U	0.3 U	0.092 U	0.08 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.2 U	0.19 U	0.2 U	0.75 U	0.23 U	0.2 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.2 U	0.19 U	0.2 U	0.75 U	0.23 U	0.2 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.039 U	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.039 U	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.2 U	0.19 U	0.2 U	0.75 U	0.23 U	0.2 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.039 U	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.2 U	0.19 U	0.2 U	0.75 U	0.23 U	0.2 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.039 U	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U
cis-1,3-Dichloropropene	mg/kg											0.039 UJ	0.039 UJ	0.04 UJ	0.15 UJ	0.046 UJ	0.04 UJ
Cyclohexane	mg/kg											0.94 U	0.93 U	0.96 U	3.6 U	1.1 U	0.96 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.039 U	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.078 U	0.078 U	0.08 U	0.3 U	0.092 U	0.08 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.039 U	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.2 U	0.19 U	0.2 U	0.75 U	0.23 U	0.2 U
Methyl acetate	mg/kg											0.94 U	0.93 U	0.96 U	3.6 U	1.1 U	0.96 U
Methyl cyclohexane	mg/kg											0.94 U	0.93 U	0.96 U	3.6 U	1.1 U	0.96 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.2 U	0.19 U	0.2 U	0.75 U	0.23 U	0.2 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.2 U	0.19 U	0.2 U	0.75 U	0.23 U	0.2 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.039 U	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.039 U	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.078 U	0.078 U	0.08 U	0.3 U	0.092 U	0.08 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.039 U	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U
trans-1,3-Dichloropropene	mg/kg											0.039 UJ	0.039 UJ	0.04 UJ	0.15 UJ	0.046 UJ	0.04 UJ
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.027 J	0.016 J	0.012 J	5.9 ^{uo}		0.049
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.078 U	0.078 U	0.08 U	0.3 U	0.092 U	0.08 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.2 U	0.19 U	0.2 U	0.75 U	0.23 U	0.2 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.078 U	0.078 U	0.08 U	0.3 U	0.092 U	0.08 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.12 U	0.12 U	0.12 U	0.45 U	0.14 U	0.12 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Residential and Commercial ⁽¹⁾										SB8-05	SB8-05	SB9-05	SB9-05	SB9-05	SB9-05	
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration	SO-17360-071205-DCR-479	SO-17360-071205-DCR-480	SO-17360-071105-DCR-430	SO-17360-071105-DCR-431	SO-17360-071105-DCR-432	SO-17360-071105-DCR-433	
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness			Screening	7/12/2005	7/12/2005	7/11/2005	7/11/2005	7/11/2005	7/11/2005	
Sample Depth	a	b	c	d	e	f	g	h	i	j	16-18 ft BGS	18-20 ft BGS	0-2 ft BGS	2-4 ft BGS	4-6 ft BGS	6-8 ft BGS	
Sample Type	Units																
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.048 U	0.037 U	0.038 U	0.04 U	0.042 U	0.039 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.095 U	0.074 U	0.076 U	0.08 U	0.083 U	0.078 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.048 U	0.037 U	0.038 U	0.04 U	0.042 U	0.039 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.048 U	0.037 U	0.038 U	0.04 U	0.042 U	0.039 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.048 U	0.037 U	0.038 U	0.04 U	0.042 U	0.039 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.24 U	0.18 U	0.19 U	0.2 U	0.21 U	0.2 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.24 U	0.18 U	0.19 U	0.2 U	0.21 U	0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.24 U	0.18 U	0.19 U	0.2 U	0.21 U	0.2 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.095 U	0.074 U	0.076 U	0.08 U	0.083 U	0.078 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.048 U	0.037 U	0.038 U	0.04 U	0.042 U	0.039 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.048 U	0.037 U	0.038 U	0.04 U	0.042 U	0.039 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.095 U	0.074 U	0.076 U	0.08 U	0.083 U	0.078 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.095 U	0.074 U	0.076 U	0.08 U	0.083 U	0.078 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.71 U	0.55 U	0.57 U	0.6 U	0.62 U	0.59 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	2.4 U	1.8 U	1.9 U	2 U	2.1 U	2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	2.4 U	1.8 U	1.9 U	2 U	2.1 U	2 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.71 U	0.55 U	0.57 U	0.6 U	0.62 U	0.59 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.048 U	0.037 U	0.038 U	0.04 U	0.042 U	0.039 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.095 UJ	0.074 UJ	0.076 U	0.08 U	0.083 U	0.078 U
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.095 U	0.074 U	0.076 U	0.08 U	0.083 U	0.078 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.24 U	0.18 U	0.19 U	0.2 U	0.21 U	0.2 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.24 U	0.18 U	0.19 U	0.2 U	0.21 U	0.2 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.048 U	0.037 U	0.038 U	0.04 U	0.042 U	0.039 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.048 U	0.037 U	0.038 U	0.04 U	0.042 U	0.039 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.24 U	0.18 U	0.19 U	0.2 U	0.21 U	0.2 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.048 U	0.037 U	0.038 U	0.04 U	0.042 U	0.039 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.24 U	0.18 U	0.19 U	0.2 U	0.21 U	0.2 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.048 U	0.037 U	0.038 U	0.04 U	0.042 U	0.039 U
cis-1,3-Dichloropropene	mg/kg											0.048 UJ	0.037 UJ	0.038 U	0.04 U	0.042 U	0.039 U
Cyclohexane	mg/kg											1.1 U	0.88 U	0.91 U	0.96 U	1 U	0.94 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.048 U	0.037 U	0.038 U	0.04 U	0.042 U	0.039 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.095 U	0.074 U	0.076 U	0.08 U	0.083 U	0.078 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.048 U	0.037 U	0.038 U	0.04 U	0.042 U	0.039 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.24 U	0.18 U	0.19 U	0.2 U	0.21 U	0.2 U
Methyl acetate	mg/kg											1.1 U	0.88 U	0.91 U	0.96 U	1 U	0.94 U
Methyl cyclohexane	mg/kg											1.1 U	0.88 U	0.91 U	0.96 U	1 U	0.94 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.24 U	0.18 U	0.19 U	0.2 U	0.21 U	0.2 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.24 U	0.18 U	0.19 U	0.2 U	0.21 U	0.2 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.048 U	0.037 U	0.038 U	0.04 U	0.042 U	0.039 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.048 U	0.037 U	0.038 U	0.04 U	0.042 U	0.039 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.095 U	0.074 U	0.076 U	0.08 U	0.083 U	0.078 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.048 U	0.037 U	0.038 U	0.04 U	0.042 U	0.039 U
trans-1,3-Dichloropropene	mg/kg											0.048 UJ	0.037 UJ	0.038 U	0.04 U	0.042 U	0.039 U
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.17 ^a	0.063	0.099	0.04 U	0.042 U	0.039 U
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.095 U	0.074 U	0.076 U	0.08 U	0.083 U	0.078 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.24 U	0.18 U	0.19 U	0.2 U	0.21 U	0.2 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.095 U	0.074 U	0.076 U	0.08 U	0.083 U	0.078 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.14 U	0.11 U	0.11 U	0.12 U	0.12 U	0.12 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Residential and Commercial ⁽¹⁾											SB9-05	SB9-05	SB9-05	SB9-05	SB9-05	SB9-05
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	SO-17360-071105-DCR-434	SO-17360-071105-DCR-435	SO-17360-071105-DCR-436	SO-17360-071105-DCR-437	SO-17360-071105-DCR-438	SO-17360-071105-DCR-439	
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				7/11/2005	7/11/2005	7/11/2005	7/11/2005	7/11/2005	7/11/2005	
Sample Depth											8-10 ft BGS	10-12 ft BGS	12-14 ft BGS	14-16 ft BGS	16-18 ft BGS	18-20 ft BGS	
Sample Type	a	b	c	d	e	f	g	h	i	j							
	Units																
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.038 U	0.039 U	0.038 U	0.037 U	0.038 U	
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.077 U	0.078 U	0.077 U	0.074 U	0.075 U	
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.038 U	0.039 U	0.038 U	0.037 U	0.038 U	
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.038 U	0.039 U	0.038 U	0.037 U	0.038 U	
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.038 U	0.039 U	0.038 U	0.037 U	0.038 U	
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.19 U	0.2 U	0.19 U	0.18 U	0.19 U	
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.19 U	0.2 U	0.19 U	0.18 U	0.19 U	
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.19 U	0.2 U	0.19 U	0.18 U	0.19 U	
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.077 U	0.078 U	0.077 U	0.074 U	0.075 U	
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.038 U	0.039 U	0.038 U	0.037 U	0.038 U	
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.038 U	0.039 U	0.038 U	0.037 U	0.038 U	
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.077 U	0.078 U	0.077 U	0.074 U	0.075 U	
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.077 U	0.078 U	0.077 U	0.074 U	0.075 U	
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.58 U	0.59 U	0.58 U	0.55 U	0.56 U	
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	1.9 U	2 U	1.9 U	1.8 U	1.9 U	
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	1.9 U	2 U	1.9 U	1.8 U	1.9 U	
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.58 U	0.59 U	0.58 U	0.55 U	0.56 U	
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.038 U	0.039 U	0.038 U	0.037 U	0.038 U	
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.077 U	0.078 U	0.077 U	0.074 U	0.075 U	
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.077 U	0.078 U	0.077 U	0.074 U	0.075 U	
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.19 U	0.2 U	0.19 U	0.18 U	0.19 U	
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.19 U	0.2 U	0.19 U	0.18 U	0.19 U	
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.038 U	0.039 U	0.038 U	0.037 U	0.038 U	
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.038 U	0.039 U	0.038 U	0.037 U	0.038 U	
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.19 U	0.2 U	0.19 U	0.18 U	0.19 U	
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.038 U	0.039 U	0.038 U	0.037 U	0.038 U	
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.19 U	0.2 U	0.19 U	0.18 U	0.19 U	
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.038 U	0.039 U	0.038 U	0.037 U	0.038 U	
cis-1,3-Dichloropropene	mg/kg											0.038 U	0.039 U	0.038 U	0.037 U	0.038 U	
Cyclohexane	mg/kg											0.92 U	0.94 U	0.92 U	0.88 U	0.9 U	
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.038 U	0.039 U	0.038 U	0.037 U	0.038 U	
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.077 U	0.078 U	0.077 U	0.074 U	0.075 U	
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.038 U	0.039 U	0.038 U	0.037 U	0.038 U	
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.19 U	0.2 U	0.19 U	0.18 U	0.19 U	
Methyl acetate	mg/kg											0.92 U	0.94 U	0.92 U	0.88 U	0.1 J	
Methyl cyclohexane	mg/kg											0.92 U	0.94 U	0.92 U	0.88 U	0.9 U	
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.19 U	0.2 U	0.19 U	0.18 U	0.19 U	
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.19 U	0.2 U	0.19 U	0.18 U	0.19 U	
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.038 U	0.039 U	0.038 U	0.037 U	0.038 U	
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.038 U	0.039 U	0.038 U	0.037 U	0.038 U	
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.077 U	0.078 U	0.077 U	0.074 U	0.075 U	
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.038 U	0.039 U	0.038 U	0.037 U	0.038 U	
trans-1,3-Dichloropropene	mg/kg											0.038 U	0.039 U	0.038 U	0.037 U	0.038 U	
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.038 U	0.039 U	0.038 U	0.037 U	0.038 U	
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.077 U	0.078 U	0.077 U	0.074 U	0.075 U	
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.19 U	0.2 U	0.19 U	0.18 U	0.19 U	
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.077 U	0.078 U	0.077 U	0.074 U	0.075 U	
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.12 U	0.12 U	0.12 U	0.11 U	0.11 U	

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Residential and Commercial</i> ⁽¹⁾										<i>SB10-05</i>	<i>SB10-05</i>	<i>SB10-05</i>	<i>SB10-05</i>	<i>SB10-05</i>	<i>SB10-05</i>
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	<i>SO-17360-071205-DCR-481</i>	<i>SO-17360-071205-DCR-482</i>	<i>SO-17360-071205-DCR-483</i>	<i>SO-17360-071205-DCR-484</i>	<i>SO-17360-071205-DCR-485</i>	<i>SO-17360-071205-DCR-486</i>
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>
Sample Depth											<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j						
<i>Units</i>																
<i>Volatile Organic Compounds</i>																
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.037 U	0.038 U	0.041 U	0.038 U	0.041 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.074 U	0.075 U	0.082 U	0.076 U	0.082 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.037 U	0.038 U	0.041 U	0.038 U	0.041 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.037 U	0.038 U	0.041 U	0.038 U	0.041 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.037 U	0.038 U	0.041 U	0.038 U	0.041 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.18 U	0.19 U	0.21 U	0.19 U	0.2 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.18 U	0.19 U	0.21 U	0.19 U	0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.18 U	0.19 U	0.21 U	0.19 U	0.2 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.074 U	0.075 U	0.082 U	0.076 U	0.082 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.037 U	0.038 U	0.041 U	0.038 U	0.041 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.037 U	0.038 U	0.041 U	0.038 U	0.041 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.074 U	0.075 U	0.082 U	0.076 U	0.082 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.074 U	0.075 U	0.082 U	0.076 U	0.082 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.55 U	0.56 U	0.62 U	0.57 U	0.61 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	1.8 U	1.9 U	2.1 U	1.9 U	2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	1.8 U	1.9 U	2.1 U	1.9 U	2 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.55 U	0.56 U	0.62 U	0.57 U	0.61 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.037 U	0.038 U	0.041 U	0.038 U	0.041 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.074 UJ	0.075 UJ	0.082 UJ	0.076 UJ	0.082 UJ
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.074 U	0.075 U	0.082 U	0.076 U	0.082 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.18 U	0.19 U	0.21 U	0.19 U	0.2 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.18 U	0.19 U	0.21 U	0.19 U	0.2 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.037 U	0.038 U	0.041 U	0.038 U	0.041 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.037 U	0.038 U	0.041 U	0.038 U	0.041 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.18 U	0.19 U	0.21 U	0.19 U	0.2 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.037 U	0.038 U	0.041 U	0.038 U	0.041 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.18 U	0.19 U	0.21 U	0.19 U	0.2 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.037 U	0.038 U	0.041 U	0.038 U	0.041 U
cis-1,3-Dichloropropene	mg/kg											0.037 UJ	0.038 UJ	0.041 UJ	0.038 UJ	0.041 UJ
Cyclohexane	mg/kg											0.01 J	0.9 U	0.99 U	0.91 U	0.98 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.037 U	0.038 U	0.041 U	0.038 U	0.041 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.074 U	0.075 U	0.082 U	0.076 U	0.082 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.037 U	0.038 U	0.041 U	0.038 U	0.041 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.18 U	0.19 U	0.21 U	0.19 U	0.2 U
Methyl acetate	mg/kg											0.076 J	0.9 U	0.99 U	0.91 U	0.98 U
Methyl cyclohexane	mg/kg											0.031 J	0.9 U	0.99 U	0.91 U	0.98 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.18 U	0.19 U	0.21 U	0.19 U	0.2 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.18 U	0.19 U	0.21 U	0.19 U	0.2 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.037 U	0.038 U	0.041 U	0.038 U	0.041 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.037 U	0.038 U	0.041 U	0.038 U	0.041 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.012 J	0.075 U	0.082 U	0.076 U	0.082 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.037 U	0.038 U	0.041 U	0.038 U	0.041 U
trans-1,3-Dichloropropene	mg/kg											0.037 UJ	0.038 UJ	0.041 UJ	0.038 UJ	0.041 UJ
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.54 ⁺	0.038 U	0.041 U	0.038 U	0.029 J
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560		0.074 U	0.075 U	0.082 U	0.082 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.18 U	0.19 U	0.21 U	0.19 U	0.2 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.074 U	0.075 U	0.082 U	0.076 U	0.082 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.027 J	0.11 U	0.12 U	0.11 U	0.12 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Residential and Commercial</i> ⁽¹⁾										<i>SB10-05</i>	<i>SB10-05</i>	<i>SB10-05</i>	<i>SB10-05</i>	<i>SB11-05</i>	<i>SB11-05</i>
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration	<i>SO-17360-071205-DCR-487</i>	<i>SO-17360-071205-DCR-488</i>	<i>SO-17360-071205-DCR-489</i>	<i>SO-17360-071205-DCR-490</i>	<i>SO-17360-071205-DCR-491</i>	<i>SO-17360-071205-DCR-492</i>
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness			Screening	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>
Sample Depth											<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>16-18 ft BGS</i>	<i>18-20 ft BGS</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j						
<i>Units</i>																
<i>Volatile Organic Compounds</i>																
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.04 U	0.04 U	0.04 U	0.041 U	0.038 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.079 U	0.08 U	0.079 U	0.082 U	0.076 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.04 U	0.04 U	0.04 U	0.041 U	0.038 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.04 U	0.04 U	0.04 U	0.041 U	0.038 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.04 U	0.04 U	0.04 U	0.041 U	0.038 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.079 U	0.08 U	0.079 U	0.082 U	0.076 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.04 U	0.04 U	0.04 U	0.041 U	0.038 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.04 U	0.04 U	0.04 U	0.041 U	0.038 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.079 U	0.08 U	0.079 U	0.082 U	0.076 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.079 U	0.08 U	0.079 U	0.082 U	0.076 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.59 U	0.6 U	0.59 U	0.62 U	0.57 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	2 U	2 U	2 U	2.1 U	1.9 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	2 U	2 U	2 U	2.1 U	1.9 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.59 U	0.6 U	0.59 U	0.62 U	0.57 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.04 U	0.04 U	0.04 U	0.041 U	0.038 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.079 UJ	0.08 UJ	0.079 UJ	0.082 UJ	0.076 UJ
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.079 U	0.08 U	0.079 U	0.082 U	0.076 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.04 U	0.04 U	0.04 U	0.041 U	0.038 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.04 U	0.04 U	0.04 U	0.041 U	0.038 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.04 U	0.04 U	0.04 U	0.041 U	0.038 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.04 U	0.04 U	0.04 U	0.041 U	0.038 U
cis-1,3-Dichloropropene	mg/kg											0.04 UJ	0.04 UJ	0.04 UJ	0.041 UJ	0.038 UJ
Cyclohexane	mg/kg											0.95 U	0.96 U	0.95 U	0.99 U	0.91 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.04 U	0.04 U	0.04 U	0.041 U	0.038 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.079 U	0.08 U	0.079 U	0.082 U	0.076 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.04 U	0.04 U	0.04 U	0.041 U	0.038 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U
Methyl acetate	mg/kg											0.95 U	0.96 U	0.95 U	0.99 U	0.91 U
Methyl cyclohexane	mg/kg											0.95 U	0.96 U	0.95 U	0.99 U	0.0063 J
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.04 U	0.04 U	0.04 U	0.041 U	0.038 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.04 U	0.04 U	0.04 U	0.041 U	0.038 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.079 U	0.08 U	0.079 U	0.082 U	0.076 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.04 U	0.04 U	0.04 U	0.041 U	0.038 U
trans-1,3-Dichloropropene	mg/kg											0.04 U	0.04 U	0.04 U	0.041 U	0.038 U
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.03 J	0.016 J	0.021 J	0.041 U	0.038 U
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.079 U	0.08 U	0.079 U	0.082 U	0.076 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.079 U	0.08 U	0.079 U	0.082 U	0.076 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Residential and Commercial ⁽¹⁾										SB11-05	SB11-05	SB11-05	SB11-05	SB11-05	SB11-05	
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	SO-17360-071205-DCR-493	SO-17360-071205-DCR-494	SO-17360-071205-DCR-495	SO-17360-071205-DCR-496	SO-17360-071205-DCR-497	SO-17360-071205-DCR-498	
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				7/12/2005	7/12/2005	7/12/2005	7/12/2005	7/12/2005	7/12/2005	
Sample Depth											4-6 ft BGS	6-8 ft BGS	8-10 ft BGS	10-12 ft BGS	12-14 ft BGS	14-16 ft BGS	
Sample Type	a	b	c	d	e	f	g	h	i	j							
Units																	
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.039 U	0.04 U	0.04 U	1.9 U	0.15 U	0.039 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.078 U	0.079 U	0.08 U	3.7 U	0.3 U	0.078 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.039 U	0.04 U	0.04 U	1.9 U	0.15 U	0.039 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.039 U	0.04 U	0.04 U	1.9 U	0.15 U	0.039 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.039 U	0.04 U	0.04 U	1.9 U	0.15 U	0.039 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.19 U	0.2 U	0.2 U	9.3 U	0.75 U	0.2 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.19 U	0.2 U	0.2 U	9.3 U	0.75 U	0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.19 U	0.2 U	0.2 U	9.3 U	0.75 U	0.2 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.078 U	0.079 U	0.08 U	3.7 U	0.3 U	0.078 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.039 U	0.04 U	0.04 U	1.9 U	0.15 U	0.039 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.039 U	0.04 U	0.04 U	1.9 U	0.15 U	0.039 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.078 U	0.079 U	0.08 U	3.7 U	0.3 U	0.078 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.078 U	0.079 U	0.08 U	3.7 U	0.3 U	0.078 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.58 U	0.59 U	0.6 U	28 U	2.2 U	0.59 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	1.9 U	2 U	2 U	93 U	7.5 U	2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	1.9 U	2 U	2 U	93 U	7.5 U	2 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.58 U	0.59 U	0.6 U	28 U	2.2 U	0.59 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.039 U	0.04 U	0.04 U	1.9 U	0.15 U	0.039 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.078 UJ	0.079 UJ	0.08 UJ	3.7 UJ	0.3 UJ	0.078 UJ
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.078 U	0.079 U	0.08 U	3.7 U	0.3 U	0.078 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.19 U	0.2 U	0.2 U	9.3 U	0.75 U	0.2 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.19 U	0.2 U	0.2 U	9.3 U	0.75 U	0.2 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.039 U	0.04 U	0.04 U	1.9 U	0.15 U	0.039 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.039 U	0.04 U	0.04 U	1.9 U	0.15 U	0.039 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.19 U	0.2 U	0.2 U	9.3 U	0.75 U	0.2 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.039 U	0.04 U	0.04 U	1.9 U	0.15 U	0.039 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.19 U	0.2 U	0.2 U	9.3 U	0.75 U	0.2 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.039 U	0.04 U	0.04 U	1.9 U	0.15 U	0.039 U
cis-1,3-Dichloropropene	mg/kg											0.039 UJ	0.04 UJ	0.04 UJ	1.9 UJ	0.15 UJ	0.039 UJ
Cyclohexane	mg/kg											0.93 U	0.95 U	0.96 U	45 U	3.6 U	0.94 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.039 U	0.04 U	0.04 U	1.9 U	0.15 U	0.039 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.078 U	0.079 U	0.08 U	3.7 U	0.3 U	0.078 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.039 U	0.04 U	0.04 U	1.9 U	0.15 U	0.039 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.19 U	0.2 U	0.2 U	9.3 U	0.75 U	0.2 U
Methyl acetate	mg/kg											0.93 U	0.95 U	0.96 U	100	12	3.6
Methyl cyclohexane	mg/kg											0.93 U	0.95 U	0.96 U	45 U	3.6 U	0.94 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.19 U	0.2 U	0.2 U	9.3 U	0.75 U	0.2 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.19 U	0.2 U	0.2 U	9.3 U	0.75 U	0.2 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.039 U	0.04 U	0.04 U	1.9 U	0.15 U	0.039 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.039 U	0.04 U	0.04 U	1.9 U	0.15 U	0.039 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.078 U	0.079 U	0.08 U	3.7 U	0.3 U	0.078 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.039 U	0.04 U	0.04 U	1.9 U	0.15 U	0.039 U
trans-1,3-Dichloropropene	mg/kg											0.039 U	0.04 U	0.04 U	1.9 U	0.15 U	0.039 U
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.039 U	0.04 U	0.04 U	1.9 U	0.057 J	0.027 J
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.078 U	0.079 U	0.08 U	3.7 U	0.3 U	0.078 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.19 U	0.2 U	0.2 U	9.3 U	0.75 U	0.2 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.078 U	0.079 U	0.08 U	3.7 U	0.3 U	0.078 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.12 U	0.12 U	0.12 U	5.6 U	0.45 U	0.12 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Residential and Commercial ⁽¹⁾											SB11-05	SB11-05	SB12-05	SB12-05	SB12-05	SB12-05
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	SO-17360-071205-DCR-499	SO-17360-071205-DCR-500	SO-17360-071105-DCR-440	SO-17360-071105-DCR-441	SO-17360-071105-DCR-442	SO-17360-071105-DCR-443	
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				7/12/2005	7/12/2005	7/11/2005	7/11/2005	7/11/2005	7/11/2005	
Sample Depth											16-18 ft BGS	18-20 ft BGS	0-2 ft BGS	2-4 ft BGS	4-6 ft BGS	6-8 ft BGS	
Sample Type	a	b	c	d	e	f	g	h	i	j							
Units																	
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	1 U	0.24 U	0.041 U	0.16 U	0.037 U	
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	2 U	0.48 U	0.082 U	0.32 U	0.074 U	
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	1 U	0.24 U	0.041 U	0.16 U	0.037 U	
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	1 U	0.24 U	0.041 U	0.16 U	0.037 U	
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	1 U	0.24 U	0.041 U	0.16 U	0.037 U	
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	5 U	1.2 U	0.21 U	0.8 U	0.19 U	
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	5 U	1.2 U	0.21 U	0.8 U	0.19 U	
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	5 U	1.2 U	0.21 U	0.8 U	0.19 U	
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	2 U	0.48 U	0.082 U	0.32 U	0.074 U	
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	1 U	0.24 U	0.041 U	0.16 U	0.037 U	
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	1 U	0.24 U	0.041 U	0.16 U	0.037 U	
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	2 U	0.48 U	0.082 U	0.32 U	0.074 U	
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		2 U	0.48 U	0.082 U	0.32 U	0.074 U	
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	15 U	3.6 U	0.62 U	2.4 U	0.56 U	
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	50 U	12 U	2.1 U	8 U	1.9 U	
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	50 U	12 U	2.1 U	8 U	1.9 U	
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	15 U	3.6 U	0.62 U	2.4 U	0.56 U	
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	1 U	0.24 U	0.0087 J	0.073 J	0.006 J	
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	2 UJ	0.48 UJ	0.082 U	0.32 UJ	0.074 U	
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	2 U	0.48 U	0.082 U	0.32 U	0.074 U	
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	5 U	1.2 U	0.21 U	0.8 U	0.19 U	
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	5 U	1.2 U	0.21 U	0.8 U	0.19 U	
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	1 U	0.24 U	0.041 U	0.16 U	0.037 U	
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	1 U	0.24 U	0.041 U	0.16 U	0.037 U	
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	5 U	1.2 U	0.21 U	0.8 U	0.19 U	
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	1 U	0.24 U	0.041 U	0.16 U	0.037 U	
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	5 U	1.2 U	0.21 U	0.8 U	0.19 U	
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	1 U	0.24 U	0.041 U	0.16 U	0.037 U	
cis-1,3-Dichloropropene	mg/kg											1 UJ	0.24 UJ	0.041 U	0.16 U	0.037 U	
Cyclohexane	mg/kg											24 U	5.8 U	0.061 J	0.3 J	0.024 J	
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	1 U	0.24 U	0.041 UJ	0.16 U	0.037 U	
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	2 U	0.48 U	0.082 U	0.32 U	0.074 U	
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	1 U	0.24 U	0.022 J	0.13 J	0.01 J	
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	5 U	1.2 U	0.025 J	0.12 J	0.0094 J	
Methyl acetate	mg/kg											49	25	0.99 U	3.8 U	0.89 U	
Methyl cyclohexane	mg/kg											24 U	5.8 U	0.22 J	0.88 J	0.067 J	
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	5 U	1.2 U	0.21 U	0.8 U	0.19 U	
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	5 U	1.2 U	0.21 U	0.8 U	0.19 U	
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	1 U	0.24 U	0.041 U	0.16 U	0.037 U	
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	1 U	0.24 U	0.041 U	0.16 U	0.037 U	
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	2 U	0.48 U	0.076 J	0.49	0.041 J	
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	1 U	0.24 U	0.041 U	0.16 U	0.037 U	
trans-1,3-Dichloropropene	mg/kg											1 U	0.24 U	0.041 U	0.16 U	0.037 U	
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	1 U	0.24 U	2.2 J ^a	5.5 ^{ab}	0.53 ^a	
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	2 U	0.48 U	0.082 U	0.32 U	0.074 U	
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	5 U	1.2 U	0.21 U	0.8 U	0.19 U	
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	2 U	0.48 U	0.082 U	0.32 U	0.074 U	
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	3 U	0.73 U	0.19	0.91 ^c	0.068 J	

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Residential and Commercial</i> ⁽¹⁾										<i>SB12-05</i>	<i>SB12-05</i>	<i>SB12-05</i>	<i>SB12-05</i>	<i>SB12-05</i>	<i>SB12-05</i>
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration	<i>SO-17360-071105-DCR-444</i>	<i>SO-17360-071105-DCR-445</i>	<i>SO-17360-071105-DCR-446</i>	<i>SO-17360-071105-DCR-447</i>	<i>SO-17360-071105-DCR-448</i>	<i>SO-17360-071105-DCR-449</i>
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness	Inhalation	Contact	Screening	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>
Sample Depth											<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>16-18 ft BGS</i>	<i>18-20 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j						
<i>Units</i>																
<i>Volatile Organic Compounds</i>																
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.04 U	0.039 U	0.038 U	0.04 U	0.037 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.08 U	0.078 U	0.076 U	0.079 U	0.074 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.04 U	0.039 U	0.038 U	0.04 U	0.038 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.04 U	0.039 U	0.038 U	0.04 U	0.037 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.04 U	0.039 U	0.038 U	0.04 U	0.037 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.08 U	0.078 U	0.076 U	0.079 U	0.074 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.04 U	0.039 U	0.038 U	0.04 U	0.037 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.04 U	0.039 U	0.038 U	0.04 U	0.037 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.08 U	0.078 U	0.076 U	0.079 U	0.074 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.08 U	0.078 U	0.076 U	0.079 U	0.074 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.6 U	0.59 U	0.57 U	0.59 U	0.55 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	2 U	2 U	1.9 U	2 U	1.8 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	2 U	2 U	1.9 U	2 U	1.8 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.6 U	0.59 U	0.57 U	0.59 U	0.55 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.04 U	0.039 U	0.038 U	0.04 U	0.037 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.08 U	0.079 U	0.076 U	0.079 U	0.074 UJ
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.08 U	0.078 U	0.076 U	0.079 U	0.074 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.04 U	0.039 U	0.038 U	0.04 U	0.037 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.04 U	0.039 U	0.038 U	0.04 U	0.037 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.04 U	0.039 U	0.038 U	0.04 U	0.037 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.04 U	0.039 U	0.038 U	0.04 U	0.037 U
cis-1,3-Dichloropropene	mg/kg											0.04 U	0.039 U	0.038 U	0.04 U	0.037 U
Cyclohexane	mg/kg											0.96 U	0.94 U	0.91 U	0.95 U	0.91 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.04 U	0.039 U	0.038 U	0.04 U	0.037 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.08 U	0.078 U	0.076 U	0.079 U	0.074 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.04 U	0.039 U	0.038 U	0.04 U	0.037 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U
Methyl acetate	mg/kg											0.96 U	0.94 U	0.91 U	0.36 J	0.88 U
Methyl cyclohexane	mg/kg											0.96 U	0.94 U	0.91 U	0.015 J	0.88 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.04 U	0.039 U	0.038 U	0.04 U	0.037 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.04 U	0.039 U	0.038 U	0.04 U	0.037 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.08 U	0.078 U	0.076 U	0.0098 J	0.074 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.04 U	0.039 U	0.038 U	0.04 U	0.037 U
trans-1,3-Dichloropropene	mg/kg											0.04 U	0.039 U	0.038 U	0.04 U	0.037 U
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.04 U	0.039 U	0.013 J	0.14*	0.012 J
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.08 U	0.078 U	0.076 U	0.079 U	0.074 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.08 U	0.078 U	0.076 U	0.079 U	0.074 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.12 U	0.12 U	0.11 U	0.016 J	0.11 U

Notes:

⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.

U - Not present at or above the associated value.

J - Estimated concentration.

UJ - Estimated reporting limit.

Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Residential and Commercial</i> ⁽¹⁾										<i>SB13-05</i>	<i>SB13-05</i>	<i>SB13-05</i>	<i>SB13-05</i>	<i>SB13-05</i>	<i>SB13-05</i>
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	<i>SO-17360-071105-DCR-409</i>	<i>SO-17360-071105-DCR-410</i>	<i>SO-17360-071105-DCR-411</i>	<i>SO-17360-071105-DCR-412</i>	<i>SO-17360-071105-DCR-413</i>	<i>SO-17360-071105-DCR-414</i>
Sample Date											<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>
Sample Depth	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j						
<i>Units</i>																
<i>Volatile Organic Compounds</i>																
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.037 U	0.039 U	0.037 U	0.04 U	0.039 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.074 U	0.078 U	0.074 U	0.08 U	0.078 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.037 U	0.039 U	0.037 U	0.04 U	0.039 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.037 U	0.039 U	0.037 U	0.04 U	0.039 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.037 U	0.039 U	0.037 U	0.04 U	0.039 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.18 U	0.2 U	0.19 U	0.2 U	0.19 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.18 U	0.2 U	0.19 U	0.2 U	0.19 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.18 U	0.2 U	0.19 U	0.2 U	0.19 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.074 U	0.078 U	0.074 U	0.08 U	0.078 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.037 U	0.039 U	0.037 U	0.04 U	0.039 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.037 U	0.039 U	0.037 U	0.04 U	0.039 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.074 U	0.078 U	0.074 U	0.08 U	0.078 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.074 U	0.078 U	0.074 U	0.08 U	0.078 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.55 U	0.59 U	0.56 U	0.6 U	0.58 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	1.8 U	2 U	1.9 U	2 U	1.9 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	1.8 U	2 U	1.9 U	2 U	1.9 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.55 U	0.59 U	0.56 U	0.6 U	0.58 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.037 U	0.039 U	0.037 U	0.04 U	0.039 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.074 UJ	0.078 UJ	0.074 UJ	0.08 UJ	0.078 UJ
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.074 U	0.078 U	0.074 U	0.08 U	0.078 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.18 U	0.2 U	0.19 U	0.2 U	0.19 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.18 U	0.2 U	0.19 U	0.2 U	0.19 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.037 U	0.039 U	0.037 U	0.04 U	0.039 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.037 U	0.039 U	0.037 U	0.04 U	0.039 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.18 U	0.2 U	0.19 U	0.2 U	0.19 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.037 U	0.039 U	0.037 U	0.04 U	0.039 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.18 U	0.2 U	0.19 U	0.2 U	0.19 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.037 U	0.039 U	0.037 U	0.04 U	0.039 U
cis-1,3-Dichloropropene	mg/kg											0.037 U	0.039 U	0.037 U	0.04 U	0.039 U
Cyclohexane	mg/kg											0.048 J	0.094 U	0.89 U	0.96 U	0.93 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.037 U	0.039 U	0.037 U	0.04 U	0.039 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.074 U	0.078 U	0.074 U	0.08 U	0.078 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.018 J	0.039 U	0.037 U	0.04 U	0.039 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.019 J	0.2 U	0.19 U	0.2 U	0.19 U
Methyl acetate	mg/kg											0.88 U	0.94 U	0.073 J	0.96 U	0.071 J
Methyl cyclohexane	mg/kg											0.16 J	0.94 U	0.89 U	0.96 U	0.93 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.18 U	0.2 U	0.19 U	0.2 U	0.19 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.18 U	0.2 U	0.19 U	0.2 U	0.19 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.037 U	0.039 U	0.037 U	0.04 U	0.039 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.037 U	0.039 U	0.037 U	0.04 U	0.039 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.04 J	0.078 U	0.074 U	0.08 U	0.078 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.037 U	0.039 U	0.037 U	0.04 U	0.039 U
trans-1,3-Dichloropropene	mg/kg											0.037 UJ	0.039 UJ	0.037 UJ	0.04 UJ	0.039 UJ
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	1.5"		0.039 U	0.04 U	0.012 J
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.074 U	0.078 U	0.074 U	0.08 U	0.078 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.18 U	0.2 U	0.19 U	0.2 U	0.19 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.074 U	0.078 U	0.074 U	0.08 U	0.078 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.16	0.12 U	0.11 U	0.12 U	0.12 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Residential and Commercial</i> ⁽¹⁾										<i>SB13-05</i>	<i>SB13-05</i>	<i>SB13-05</i>	<i>SB13-05</i>	<i>SB14-05</i>	<i>SB14-05</i>				
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration	<i>SO-17360-071105-DCR-415</i>	<i>SO-17360-071105-DCR-416</i>	<i>SO-17360-071105-DCR-417</i>	<i>SO-17360-071105-DCR-418</i>	<i>SO-17360-071205-DCR-460</i>	<i>SO-17360-071205-DCR-461</i>				
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness			Screening	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>				
Sample Depth	a	b	c	d	e	f	g	h	i	j	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>16-18 ft BGS</i>	<i>18-20 ft BGS</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>				
Sample Type	<i>Units</i>																			
<i>Volatile Organic Compounds</i>																				
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.048 U			
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.08 U	0.079 U	0.079 U	0.08 U	0.08 U	0.095 U			
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.048 U			
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.048 U			
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.048 U			
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.24 U			
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.24 U			
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.24 U			
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.08 U	0.079 U	0.079 U	0.08 U	0.08 U	0.095 U			
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.048 U			
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.048 U			
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.08 U	0.079 U	0.079 U	0.08 U	0.08 U	0.095 U			
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.08 U	0.079 U	0.079 U	0.08 U	0.08 U	0.095 U			
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.6 U	0.59 U	0.59 U	0.6 U	0.6 U	0.71 U			
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	2 U	2 U	2 U	2 U	2 U	2.4 U			
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	2 U	2 U	2 U	2 U	2 U	2.4 U			
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.6 U	0.59 U	0.59 U	0.6 U	0.6 U	0.71 U			
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.048 U			
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.08 UJ	0.079 UJ	0.079 UJ	0.08 UJ	0.08 UJ	0.095 UJ			
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.08 U	0.079 U	0.079 U	0.08 U	0.08 U	0.095 U			
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.24 U			
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.24 U			
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.048 U			
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.048 U			
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.24 U			
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.048 U			
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.24 U			
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.048 U			
cis-1,3-Dichloropropene	mg/kg											0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.048 U			
Cyclohexane	mg/kg											0.96 U	0.95 U	0.013 J	0.96 U	0.0079 J	1.1 U			
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.048 U			
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.08 U	0.079 U	0.079 U	0.08 U	0.08 U	0.095 U			
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.048 U			
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.24 U			
Methyl acetate	mg/kg											0.38 J	0.95 U	0.44 J	0.96 U	0.96 U	1.1 U			
Methyl cyclohexane	mg/kg											0.014 J	0.95 U	0.037 J	0.96 U	0.024 J	1.1 U			
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.24 U			
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.24 U			
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.048 U			
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.048 U			
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.08 U	0.079 U	0.019 J	0.08 U	0.08 U	0.095 U			
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.048 U			
trans-1,3-Dichloropropene	mg/kg											0.04 UJ	0.04 UJ	0.04 UJ	0.04 UJ	0.04 UJ	0.048 U			
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.29 ^a		0.04 U	0.44 ^a		0.04 U	0.82 ^a		0.048 U
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.08 U	0.079 U	0.079 U	0.08 U	0.08 U	0.095 U			
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.24 U			
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.08 U	0.079 U	0.079 U	0.08 U	0.08 U	0.095 U			
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.015 J	0.12 U	0.036 J	0.12 U	0.021 J	0.14 U			

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Residential and Commercial</i> ⁽¹⁾										<i>SB14-05</i>	<i>SB14-05</i>	<i>SB14-05</i>	<i>SB14-05</i>	<i>SB14-05</i>	<i>SB14-05</i>
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	<i>SO-17360-071205-DCR-462</i>	<i>SO-17360-071205-DCR-463</i>	<i>SO-17360-071205-DCR-464</i>	<i>SO-17360-071205-DCR-465</i>	<i>SO-17360-071205-DCR-466</i>	<i>SO-17360-071205-DCR-467</i>
Sample Date											<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>
Sample Depth	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j						
<i>Units</i>																
<i>Volatile Organic Compounds</i>																
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.042 U	0.04 U	0.04 U	0.042 U	0.038 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.084 U	0.079 U	0.079 U	0.085 U	0.076 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.042 U	0.04 U	0.04 U	0.042 U	0.037 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.042 U	0.04 U	0.04 U	0.042 U	0.037 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.042 U	0.04 U	0.04 U	0.042 U	0.037 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.21 U	0.2 U	0.2 U	0.21 U	0.19 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.21 U	0.2 U	0.2 U	0.21 U	0.19 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.21 U	0.2 U	0.2 U	0.21 U	0.19 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.084 U	0.079 U	0.079 U	0.085 U	0.076 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.042 U	0.04 U	0.04 U	0.042 U	0.037 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.042 U	0.04 U	0.04 U	0.038 U	0.037 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.084 U	0.079 U	0.079 U	0.085 U	0.076 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.084 U	0.079 U	0.079 U	0.085 U	0.076 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.63 U	0.59 U	0.59 U	0.64 U	0.56 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	2.1 U	2 U	2 U	2.1 U	1.9 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	2.1 U	2 U	2 U	2.1 U	1.9 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.63 U	0.59 U	0.59 U	0.64 U	0.56 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.042 U	0.04 U	0.04 U	0.042 U	0.037 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.084 UJ	0.079 UJ	0.079 UJ	0.085 UJ	0.076 UJ
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.084 U	0.079 U	0.079 U	0.085 U	0.076 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.21 U	0.2 U	0.2 U	0.21 U	0.19 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.21 U	0.2 U	0.2 U	0.21 U	0.19 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.042 U	0.04 U	0.04 U	0.038 U	0.037 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.042 U	0.04 U	0.04 U	0.042 U	0.038 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.21 U	0.2 U	0.2 U	0.21 U	0.19 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.042 U	0.04 U	0.04 U	0.042 U	0.037 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.21 U	0.2 U	0.2 U	0.21 U	0.19 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.042 U	0.04 U	0.04 U	0.042 U	0.037 U
cis-1,3-Dichloropropene	mg/kg											0.042 U	0.04 U	0.04 U	0.042 U	0.037 UJ
Cyclohexane	mg/kg											1 U	0.95 U	0.95 U	1 U	0.89 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.042 U	0.04 U	0.04 U	0.042 U	0.037 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.084 U	0.079 U	0.079 U	0.085 U	0.076 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.042 U	0.04 U	0.04 U	0.042 U	0.037 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.21 U	0.2 U	0.2 U	0.21 U	0.19 U
Methyl acetate	mg/kg											1 U	0.95 U	0.95 U	1 U	0.89 U
Methyl cyclohexane	mg/kg											1 U	0.95 U	0.95 U	1 U	0.89 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.21 U	0.2 U	0.2 U	0.21 U	0.19 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.21 U	0.2 U	0.2 U	0.21 U	0.19 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.042 U	0.04 U	0.04 U	0.042 U	0.037 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.042 U	0.04 U	0.04 U	0.042 U	0.037 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.084 U	0.079 U	0.079 U	0.085 U	0.076 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.042 U	0.04 U	0.04 U	0.042 U	0.037 U
trans-1,3-Dichloropropene	mg/kg											0.042 U	0.04 U	0.04 U	0.042 U	0.037 UJ
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.042 U	0.04 U	0.04 U	0.029 J	0.016 J
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.084 U	0.079 U	0.079 U	0.085 U	0.076 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.21 U	0.2 U	0.2 U	0.21 U	0.19 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.084 U	0.079 U	0.079 U	0.085 U	0.076 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.13 U	0.12 U	0.12 U	0.13 U	0.11 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Residential and Commercial</i> ⁽¹⁾											<i>SB14-05</i>	<i>SB14-05</i>	<i>SB14-05</i>	<i>SB15-05</i>	<i>SB15-05</i>	<i>SB15-05</i>
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	<i>SO-17360-071205-DCR-468</i>	<i>SO-17360-071205-DCR-469</i>	<i>SO-17360-071205-DCR-470</i>	<i>SO-17360-120305-DCR-540</i>	<i>SO-17360-120305-DCR-541</i>	<i>SO-17360-120305-DCR-542</i>	
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>	
Sample Depth											<i>14-16 ft BGS</i>	<i>16-18 ft BGS</i>	<i>18-20 ft BGS</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	
Sample Type	a	b	c	d	e	f	g	h	i	j	<i>Duplicate</i>						
	<i>Units</i>																
<i>Volatile Organic Compounds</i>																	
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.045 U	0.037 U	0.04 U	0.044 U	0.042 U	0.044 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.09 U	0.074 U	0.08 U	0.087 U	0.084 U	0.088 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.045 U	0.037 U	0.04 U	0.044 U	0.042 U	0.044 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.045 U	0.037 U	0.04 U	0.044 U	0.042 U	0.044 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.045 U	0.037 U	0.04 U	0.044 U	0.042 U	0.044 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.22 U	0.18 U	0.2 U	0.22 U	0.21 U	0.22 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.22 U	0.18 U	0.2 U	0.22 U	0.21 U	0.22 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.22 U	0.18 U	0.2 U	0.22 U	0.21 U	0.22 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.09 U	0.074 U	0.08 U	0.087 U	0.084 U	0.088 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.045 U	0.037 U	0.04 U	0.044 U	0.042 U	0.044 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.045 U	0.037 U	0.04 U	0.044 U	0.042 U	0.044 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.09 U	0.074 U	0.08 U	0.087 U	0.084 U	0.088 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.09 U	0.074 U	0.08 U	0.087 U	0.084 U	0.088 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.67 U	0.55 U	0.6 U	0.65 U	0.63 U	0.66 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	2.2 U	1.8 U	2 U	2.2 U	2.1 U	2.2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	2.2 U	1.8 U	2 U	2.2 U	2.1 U	2.2 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.67 U	0.55 U	0.6 U	0.65 UJ	0.63 UJ	0.66 UJ
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.045 U	0.037 U	0.04 U	0.044 U	0.042 U	0.044 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.09 UJ	0.074 UJ	0.08 UJ	0.087 U	0.084 U	0.088 U
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.09 U	0.074 U	0.08 U	0.087 U	0.084 U	0.088 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.22 U	0.18 U	0.2 U	0.22 U	0.21 U	0.22 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.22 U	0.18 U	0.2 U	0.22 U	0.21 U	0.22 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.045 U	0.037 U	0.04 U	0.044 U	0.042 U	0.044 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.045 U	0.037 U	0.04 U	0.044 U	0.042 U	0.044 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.22 U	0.18 U	0.2 U	0.22 U	0.21 U	0.22 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.045 U	0.037 U	0.04 U	0.044 U	0.042 U	0.044 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.22 U	0.18 U	0.2 U	0.22 U	0.21 U	0.22 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.045 U	0.037 U	0.04 U	0.044 U	0.042 U	0.044 U
cis-1,3-Dichloropropene	mg/kg											0.045 UJ	0.037 UJ	0.04 UJ	0.044 U	0.042 U	0.044 U
Cyclohexane	mg/kg											1.1 U	0.88 U	0.96 U	1 U	1 U	1.1 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.045 U	0.037 U	0.04 U	0.044 U	0.042 U	0.044 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.09 U	0.074 U	0.08 U	0.087 U	0.084 U	0.088 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.045 U	0.037 U	0.04 U	0.044 U	0.042 U	0.044 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.22 U	0.18 U	0.2 U	0.22 U	0.21 U	0.22 U
Methyl acetate	mg/kg											1.1 U	0.88 U	0.96 U	1 U	1 U	1.1 U
Methyl cyclohexane	mg/kg											1.1 U	0.88 U	0.96 U	1 U	1 U	1.1 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.22 U	0.18 U	0.2 U	0.22 U	0.21 U	0.22 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.22 U	0.18 U	0.2 U	0.22 U	0.21 U	0.22 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.045 U	0.037 U	0.04 U	0.044 U	0.042 U	0.044 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.045 U	0.037 U	0.04 U	0.044 U	0.042 U	0.044 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.09 U	0.074 U	0.08 U	0.087 U	0.084 U	0.088 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.045 U	0.037 U	0.04 U	0.044 U	0.042 U	0.044 U
trans-1,3-Dichloropropene	mg/kg											0.045 UJ	0.037 UJ	0.04 UJ	0.044 U	0.042 U	0.044 U
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.018 J	0.12*	0.031 J	2.1*	0.04 J	0.014 J
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.09 U	0.074 U	0.08 U	0.087 U	0.084 U	0.088 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.22 U	0.18 U	0.2 U	0.22 U	0.21 U	0.22 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.09 U	0.074 U	0.08 U	0.087 U	0.084 U	0.088 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.13 U	0.11 U	0.12 U	0.13 U	0.13 U	0.13 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Residential and Commercial</i> ⁽¹⁾										<i>SB15-05</i>	<i>SB15-05</i>	<i>SB15-05</i>	<i>SB15-05</i>	<i>SB15-05</i>	<i>SB15-05</i>
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	<i>SO-17360-120305-DCR-543</i>	<i>SO-17360-120305-DCR-544</i>	<i>SO-17360-120305-DCR-545</i>	<i>SO-17360-120305-DCR-546</i>	<i>SO-17360-120305-DCR-547</i>	<i>SO-17360-120305-DCR-548</i>
Sample Date																
Sample Depth	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness									
Sample Type	a	b	c	d	e	f	g	h	i	j	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>16-18 ft BGS</i>
<i>Units</i>																
<i>Volatile Organic Compounds</i>																
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.042 U	0.048 U	0.14 U	0.046 U	0.042 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.085 U	0.096 U	0.27 U	0.091 U	0.084 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.042 U	0.048 U	0.14 U	0.046 U	0.044 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.042 U	0.048 U	0.14 U	0.046 U	0.044 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.042 U	0.048 U	0.14 U	0.046 U	0.044 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.21 U	0.24 U	0.68 U	0.23 U	0.22 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.21 U	0.24 U	0.68 U	0.23 U	0.22 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.21 U	0.24 U	0.68 U	0.23 U	0.22 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.085 U	0.096 U	0.27 U	0.091 U	0.088 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.042 U	0.048 U	0.14 U	0.046 U	0.044 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.042 U	0.048 U	0.14 U	0.046 U	0.044 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.085 U	0.096 U	0.27 U	0.091 U	0.084 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.085 U	0.096 U	0.27 U	0.091 U	0.088 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.64 U	0.72 U	2 U	0.69 U	0.66 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	2.1 U	2.4 U	6.8 U	2.3 U	2.2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	2.1 U	2.4 U	6.8 U	2.3 U	2.2 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.64 UJ	0.72 UJ	2 UJ	0.69 UJ	0.66 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.042 U	0.048 U	0.14 U	0.046 U	0.044 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.085 U	0.096 U	0.27 U	0.091 U	0.088 U
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.085 U	0.096 U	0.27 U	0.091 U	0.084 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.21 U	0.24 U	0.68 U	0.23 U	0.22 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.21 U	0.24 U	0.68 U	0.23 U	0.22 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.042 U	0.048 U	0.14 U	0.046 U	0.044 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.042 U	0.048 U	0.14 U	0.046 U	0.044 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.21 U	0.24 U	0.68 U	0.23 U	0.22 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.042 U	0.048 U	0.14 U	0.046 U	0.044 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.21 U	0.24 U	0.68 U	0.23 U	0.22 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.042 U	0.048 U	0.14 U	0.046 U	0.044 U
cis-1,3-Dichloropropene	mg/kg											0.042 U	0.048 U	0.14 U	0.046 U	0.044 U
Cyclohexane	mg/kg											1 U	1.1 U	3.3 U	1.1 U	1.1 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.042 U	0.048 U	0.14 U	0.046 U	0.044 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.085 U	0.096 U	0.27 U	0.091 U	0.084 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.042 U	0.048 U	0.14 U	0.046 U	0.044 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.21 U	0.24 U	0.68 U	0.23 U	0.22 U
Methyl acetate	mg/kg											1 U	1.1 U	0.8 J	1.1 U	1.1 U
Methyl cyclohexane	mg/kg											1 U	1.1 U	0.035 J	1.1 U	1.1 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.21 U	0.24 U	0.68 U	0.23 U	0.22 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.21 U	0.24 U	0.68 U	0.23 U	0.22 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.042 U	0.048 U	0.14 U	0.046 U	0.044 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.042 U	0.048 U	0.14 U	0.046 U	0.044 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.085 U	0.096 U	0.27 U	0.091 U	0.088 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.042 U	0.048 U	0.14 U	0.046 U	0.044 U
trans-1,3-Dichloropropene	mg/kg											0.042 U	0.048 U	0.14 U	0.046 U	0.044 U
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.026 J	0.048 U	12⁰⁰⁰	0.08	0.059
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.085 U	0.096 U	0.27 U	0.091 U	0.084 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.21 U	0.24 U	0.68 U	0.23 U	0.22 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.085 U	0.096 U	0.27 U	0.091 U	0.084 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.13 U	0.14 U	0.41 U	0.14 U	0.13 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Residential and Commercial</i> ⁽¹⁾										<i>SB15-05</i>	<i>SB16-05</i>	<i>SB16-05</i>	<i>SB16-05</i>	<i>SB16-05</i>	<i>SB16-05</i>
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	<i>SO-17360-120305-DCR-549</i>	<i>SO-17360-120305-DCR-508</i>	<i>SO-17360-120305-DCR-509</i>	<i>SO-17360-120305-DCR-510</i>	<i>SO-17360-120305-DCR-511</i>	<i>SO-17360-120305-DCR-512</i>
Sample Date																
Sample Depth	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness									
Sample Type	a	b	c	d	e	f	g	h	i	j						
<i>Units</i>																
<i>Volatile Organic Compounds</i>																
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.044 U	0.043 U	0.055 U	0.042 U	0.048 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.088 U	0.086 U	0.11 U	0.083 U	0.096 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.044 U	0.043 U	0.055 U	0.042 U	0.048 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.044 U	0.043 U	0.055 U	0.042 U	0.048 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.044 U	0.043 U	0.055 U	0.042 U	0.048 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.22 U	0.22 U	0.28 U	0.21 U	0.24 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.22 U	0.22 U	0.28 U	0.21 U	0.21 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.22 U	0.22 U	0.28 U	0.21 U	0.24 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.088 U	0.086 U	0.11 U	0.083 U	0.096 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.044 U	0.043 U	0.055 U	0.042 U	0.048 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.044 U	0.043 U	0.055 U	0.042 U	0.048 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.088 U	0.086 U	0.11 U	0.083 U	0.096 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.088 U	0.086 U	0.11 U	0.083 U	0.096 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.66 U	0.65 U	0.83 U	0.63 U	0.72 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	2.2 U	2.2 U	2.8 U	2.1 U	2.4 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	2.2 U	2.2 U	2.8 U	2.1 U	2.4 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.66 U	0.65 U	0.83 U	0.63 U	0.72 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.044 U	0.043 U	0.055 U	0.042 U	0.048 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.088 U	0.086 U	0.11 U	0.083 U	0.096 U
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.088 U	0.086 U	0.11 U	0.083 U	0.096 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.22 U	0.22 U	0.28 U	0.21 U	0.24 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.22 U	0.22 U	0.28 U	0.21 U	0.24 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.044 U	0.043 U	0.055 U	0.042 U	0.048 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.044 U	0.043 U	0.055 U	0.042 U	0.048 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.22 U	0.22 U	0.28 U	0.21 U	0.24 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.044 U	0.043 U	0.055 U	0.042 U	0.048 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.22 U	0.22 U	0.28 U	0.21 U	0.24 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.044 U	0.043 U	0.055 U	0.042 U	0.048 U
cis-1,3-Dichloropropene	mg/kg											0.044 U	0.043 U	0.055 U	0.042 U	0.048 U
Cyclohexane	mg/kg											1.1 U	1 U	1.3 U	1 U	1.1 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.044 U	0.043 U	0.055 U	0.042 U	0.048 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.088 U	0.086 U	0.11 U	0.083 U	0.096 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.044 U	0.043 U	0.055 U	0.042 U	0.048 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.22 U	0.22 U	0.28 U	0.21 U	0.24 U
Methyl acetate	mg/kg											1.1 U	1 U	1.3 U	1 U	1.1 U
Methyl cyclohexane	mg/kg											1.1 U	1 U	1.3 U	1 U	1.1 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.22 U	0.22 U	0.28 U	0.21 U	0.24 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.22 U	0.22 U	0.28 U	0.21 U	0.24 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.044 U	0.043 U	0.055 U	0.042 U	0.048 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.044 U	0.043 U	0.055 U	0.042 U	0.048 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.088 U	0.086 U	0.11 U	0.083 U	0.096 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.044 U	0.043 U	0.055 U	0.042 U	0.048 U
trans-1,3-Dichloropropene	mg/kg											0.044 U	0.043 U	0.055 U	0.042 U	0.048 U
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.017 J	1.2 ^a	0.74 ^a	0.074	0.025 J
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.088 U	0.086 U	0.11 U	0.083 U	0.096 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.22 U	0.22 U	0.28 U	0.21 U	0.24 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.088 U	0.086 U	0.11 U	0.083 U	0.096 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.13 U	0.13 U	0.17 U	0.13 U	0.14 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Residential and Commercial ⁽¹⁾										SB16-05	SB16-05	SB16-05	SB16-05	SB16-05	SB16-05	
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration	SO-17360-120305-DCR-513	SO-17360-120305-DCR-514	SO-17360-120305-DCR-515	SO-17360-120305-DCR-516	SO-17360-120305-DCR-517	SO-17360-120305-DCR-518	
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				12/3/2005	12/3/2005	12/3/2005	12/3/2005	12/3/2005	12/3/2005	
Sample Depth	a	b	c	d	e	f	g	h	i	j	8-10 ft BGS	10-12 ft BGS	12-14 ft BGS	14-16 ft BGS	16-18 ft BGS	18-20 ft BGS	
Sample Type	Units																
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.043 U	0.045 U	0.046 U	0.047 U	0.038 U	0.044 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.087 U	0.09 U	0.091 U	0.094 U	0.075 U	0.087 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.043 U	0.045 U	0.046 U	0.047 U	0.038 U	0.044 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.043 U	0.045 U	0.046 U	0.047 U	0.038 U	0.044 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.043 U	0.045 U	0.046 U	0.047 U	0.038 U	0.044 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.22 U	0.22 U	0.23 U	0.24 U	0.19 U	0.22 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.22 U	0.22 U	0.23 U	0.24 U	0.19 U	0.22 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.22 U	0.22 U	0.23 U	0.24 U	0.19 U	0.22 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.087 U	0.09 U	0.091 U	0.094 U	0.075 U	0.087 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.043 U	0.045 U	0.046 U	0.047 U	0.038 U	0.044 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.043 U	0.045 U	0.046 U	0.047 U	0.038 U	0.044 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.087 U	0.09 U	0.091 U	0.094 U	0.075 U	0.087 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.087 U	0.09 U	0.091 U	0.094 U	0.075 U	0.087 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.65 U	0.67 U	0.68 U	0.71 U	0.56 U	0.66 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	2.2 U	2.2 U	2.3 U	2.4 U	1.9 U	2.2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	2.2 U	2.2 U	2.3 U	2.4 U	1.9 U	2.2 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.65 U	0.67 U	0.68 U	0.71 U	0.56 U	0.66 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.043 U	0.045 U	0.046 U	0.047 U	0.038 U	0.044 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.087 U	0.09 U	0.091 U	0.094 U	0.075 U	0.087 U
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.087 U	0.09 U	0.091 U	0.094 U	0.075 U	0.087 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.22 U	0.22 U	0.23 U	0.24 U	0.19 U	0.22 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.22 U	0.22 U	0.23 U	0.24 U	0.19 U	0.22 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.043 U	0.045 U	0.046 U	0.047 U	0.038 U	0.044 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.043 U	0.045 U	0.046 U	0.047 U	0.038 U	0.044 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.22 U	0.22 U	0.23 U	0.24 U	0.19 U	0.22 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.043 U	0.045 U	0.046 U	0.047 U	0.038 U	0.044 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.22 U	0.22 U	0.23 U	0.24 U	0.19 U	0.22 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.043 U	0.045 U	0.046 U	0.047 U	0.038 U	0.044 U
cis-1,3-Dichloropropene	mg/kg											0.043 U	0.045 U	0.046 U	0.047 U	0.038 U	0.044 U
Cyclohexane	mg/kg											1 U	1.1 U	1.1 U	1.1 U	0.9 U	1 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.043 U	0.045 U	0.046 U	0.047 U	0.038 U	0.044 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.087 U	0.09 U	0.091 U	0.094 U	0.075 U	0.087 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.043 U	0.045 U	0.046 U	0.047 U	0.038 U	0.044 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.22 U	0.22 U	0.23 U	0.24 U	0.19 U	0.22 U
Methyl acetate	mg/kg											1 U	1.1 U	1.1 U	1.1 U	0.9 U	1 U
Methyl cyclohexane	mg/kg											1 U	1.1 U	1.1 U	1.1 U	0.9 U	1 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.22 U	0.22 U	0.23 U	0.24 U	0.19 U	0.22 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.22 U	0.22 U	0.23 U	0.24 U	0.19 U	0.22 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.043 U	0.045 U	0.046 U	0.047 U	0.038 U	0.044 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.043 U	0.045 U	0.046 U	0.047 U	0.038 U	0.044 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.087 U	0.09 U	0.091 U	0.094 U	0.075 U	0.087 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.043 U	0.045 U	0.046 U	0.047 U	0.038 U	0.044 U
trans-1,3-Dichloropropene	mg/kg											0.043 U	0.045 U	0.046 U	0.047 U	0.038 U	0.044 U
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.043 U	0.016 J	0.02 J	0.031 J	0.017 J	0.02 J
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.087 U	0.09 U	0.091 U	0.094 U	0.075 U	0.087 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.22 U	0.22 U	0.23 U	0.24 U	0.19 U	0.22 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.087 U	0.09 U	0.091 U	0.094 U	0.075 U	0.087 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.13 U	0.13 U	0.14 U	0.14 U	0.11 U	0.13 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Residential and Commercial ⁽¹⁾											SB17-05	SB17-05	SB17-05	SB17-05	SB17-05	SB17-05
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	SO-17360-120305-DCR-519	SO-17360-120305-DCR-520	SO-17360-120305-DCR-521	SO-17360-120305-DCR-522	SO-17360-120305-DCR-523	SO-17360-120305-DCR-524	
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				12/3/2005	12/3/2005	12/3/2005	12/3/2005	12/3/2005	12/3/2005	
Sample Depth	a	b	c	d	e	f	g	h	i	j	0-2 ft BGS	2-4 ft BGS	4-6 ft BGS	6-8 ft BGS	8-10 ft BGS	10-12 ft BGS	
Sample Type	Units																
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.043 U	0.042 U	0.042 U	0.044 U	0.04 U	0.046 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.087 U	0.085 U	0.085 U	0.088 U	0.08 U	0.093 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.043 U	0.042 U	0.042 U	0.044 U	0.04 U	0.046 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.043 U	0.042 U	0.042 U	0.044 U	0.04 U	0.046 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.043 U	0.042 U	0.042 U	0.044 U	0.04 U	0.046 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.22 U	0.21 U	0.21 U	0.22 U	0.2 U	0.23 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.22 U	0.21 U	0.21 U	0.22 U	0.2 U	0.23 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.22 U	0.21 U	0.21 U	0.22 U	0.2 U	0.23 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.087 U	0.085 U	0.085 U	0.088 U	0.08 U	0.093 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.043 U	0.042 U	0.042 U	0.044 U	0.04 U	0.046 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.043 U	0.042 U	0.042 U	0.044 U	0.04 U	0.046 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.087 U	0.085 U	0.085 U	0.088 U	0.08 U	0.093 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.087 U	0.085 U	0.085 U	0.088 U	0.08 U	0.093 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.65 U	0.64 U	0.63 U	0.66 U	0.6 U	0.7 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	2.2 U	2.1 U	2.1 U	2.2 U	2 U	2.3 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	2.2 U	2.1 U	2.1 U	2.2 U	2 U	2.3 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.65 U	0.64 U	0.63 U	0.66 U	0.6 U	0.7 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.043 U	0.042 U	0.042 U	0.044 U	0.04 U	0.046 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.087 U	0.085 U	0.085 U	0.088 U	0.08 U	0.093 U
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.087 U	0.085 U	0.085 U	0.088 U	0.08 U	0.093 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.22 U	0.21 U	0.21 U	0.22 U	0.2 U	0.23 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.22 U	0.21 U	0.21 U	0.22 U	0.2 U	0.23 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.043 U	0.042 U	0.042 U	0.044 U	0.04 U	0.046 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.043 U	0.042 U	0.042 U	0.044 U	0.04 U	0.046 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.22 U	0.21 U	0.21 U	0.22 U	0.2 U	0.23 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.043 U	0.042 U	0.042 U	0.044 U	0.04 U	0.046 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.22 U	0.21 U	0.21 U	0.22 U	0.2 U	0.23 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.043 U	0.042 U	0.042 U	0.044 U	0.04 U	0.046 U
cis-1,3-Dichloropropene	mg/kg											0.043 U	0.042 U	0.042 U	0.044 U	0.04 U	0.046 U
Cyclohexane	mg/kg											1 U	1 U	1 U	1.1 U	0.96 U	1.1 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.043 U	0.042 U	0.042 U	0.044 U	0.04 U	0.046 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.087 U	0.085 U	0.085 U	0.088 U	0.08 U	0.093 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.043 U	0.042 U	0.042 U	0.044 U	0.04 U	0.046 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.22 U	0.21 U	0.21 U	0.22 U	0.2 U	0.23 U
Methyl acetate	mg/kg											1 U	1 U	1 U	1.1 U	0.96 U	1.6
Methyl cyclohexane	mg/kg											1 U	1 U	1 U	1.1 U	0.96 U	1.1 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.22 U	0.21 U	0.21 U	0.22 U	0.2 U	0.23 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.22 U	0.21 U	0.21 U	0.22 U	0.2 U	0.23 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.043 U	0.042 U	0.042 U	0.044 U	0.04 U	0.046 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.043 U	0.042 U	0.042 U	0.044 U	0.04 U	0.046 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.087 U	0.085 U	0.085 U	0.088 U	0.08 U	0.093 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.043 U	0.042 U	0.042 U	0.044 U	0.04 U	0.046 U
trans-1,3-Dichloropropene	mg/kg											0.043 U	0.042 U	0.042 U	0.044 U	0.04 U	0.046 U
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.043 U	0.039 J	0.042 U	0.044 U	0.04 U	0.099
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.087 U	0.085 U	0.085 U	0.088 U	0.08 U	0.093 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.22 U	0.21 U	0.21 U	0.22 U	0.2 U	0.23 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.087 U	0.085 U	0.085 U	0.088 U	0.08 U	0.093 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.13 U	0.13 U	0.13 U	0.13 U	0.12 U	0.14 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Residential and Commercial</i> ⁽¹⁾										<i>SB17-05</i>	<i>SB17-05</i>	<i>SB17-05</i>	<i>SB17-05</i>	<i>SB18-05</i>	<i>SB18-05</i>
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration	<i>SO-17360-120305-DCR-525</i>	<i>SO-17360-120305-DCR-526</i>	<i>SO-17360-120305-DCR-527</i>	<i>SO-17360-120305-DCR-528</i>	<i>SO-17360-120305-DCR-529</i>	<i>SO-17360-120305-DCR-530</i>
Sample Date											<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>
Sample Depth	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness			Screening	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>16-18 ft BGS</i>	<i>18-20 ft BGS</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j						
<i>Units</i>																
<i>Volatile Organic Compounds</i>																
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.09 U	0.081 U	0.077 U	0.09 U	0.086 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.23 U	0.2 U	0.19 U	0.22 U	0.21 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.23 U	0.2 U	0.19 U	0.22 U	0.21 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.23 U	0.2 U	0.19 U	0.22 U	0.21 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.09 U	0.081 U	0.077 U	0.09 U	0.086 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.09 U	0.081 U	0.077 U	0.09 U	0.086 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.09 U	0.081 U	0.077 U	0.09 U	0.086 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.68 U	0.61 U	0.58 U	0.67 U	0.64 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	2.3 U	2 U	1.9 U	2.2 U	2.1 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	2.3 U	2 U	1.9 U	2.2 U	2.1 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.68 U	0.61 U	0.58 U	0.67 UJ	0.64 UJ
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.09 U	0.081 U	0.077 U	0.09 U	0.086 U
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.09 U	0.081 U	0.077 U	0.09 U	0.086 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.23 U	0.2 U	0.19 U	0.22 U	0.21 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.23 U	0.2 U	0.19 U	0.22 U	0.21 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.23 U	0.2 U	0.19 U	0.22 U	0.21 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.23 U	0.2 U	0.19 U	0.22 U	0.21 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
cis-1,3-Dichloropropene	mg/kg											0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
Cyclohexane	mg/kg											1.1 U	0.98 U	0.93 U	1.1 U	1 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.09 U	0.081 U	0.077 U	0.09 U	0.086 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.23 U	0.2 U	0.19 U	0.22 U	0.21 U
Methyl acetate	mg/kg											1.1 U	0.98 U	0.93 U	1.1 U	1 U
Methyl cyclohexane	mg/kg											1.1 U	0.98 U	0.93 U	1.1 U	1 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.23 U	0.2 U	0.19 U	0.22 U	0.21 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.23 U	0.2 U	0.19 U	0.22 U	0.21 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.09 U	0.081 U	0.077 U	0.09 U	0.086 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
trans-1,3-Dichloropropene	mg/kg											0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.045 U	0.041 U	0.039 U	0.045 U	0.038 J
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.09 U	0.081 U	0.077 U	0.09 U	0.086 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.23 U	0.2 U	0.19 U	0.22 U	0.21 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.09 U	0.081 U	0.077 U	0.09 U	0.086 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.14 U	0.12 U	0.12 U	0.13 U	0.13 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Residential and Commercial</i> ⁽¹⁾										<i>SB18-05</i>	<i>SB18-05</i>	<i>SB18-05</i>	<i>SB18-05</i>	<i>SB18-05</i>	<i>SB18-05</i>
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	<i>SO-17360-120305-DCR-531</i>	<i>SO-17360-120305-DCR-532</i>	<i>SO-17360-120305-DCR-533</i>	<i>SO-17360-120305-DCR-534</i>	<i>SO-17360-120305-DCR-535</i>	<i>SO-17360-120305-DCR-536</i>
Sample Date																
Sample Depth	Protection	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>
Sample Type	a	b	c	d	e	f	g	h	i	j	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>
<i>Units</i>																
<i>Volatile Organic Compounds</i>																
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.043 U	0.042 U	0.046 U	0.041 U	0.046 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.086 U	0.085 U	0.092 U	0.081 U	0.084 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.043 U	0.042 U	0.046 U	0.041 U	0.046 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.043 U	0.042 U	0.046 U	0.041 U	0.046 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.043 U	0.042 U	0.046 U	0.041 U	0.046 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.21 U	0.21 U	0.23 U	0.2 U	0.23 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.21 U	0.21 U	0.23 U	0.2 U	0.23 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.21 U	0.21 U	0.23 U	0.2 U	0.23 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.086 U	0.085 U	0.092 U	0.081 U	0.084 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.043 U	0.042 U	0.046 U	0.041 U	0.046 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.043 U	0.042 U	0.046 U	0.041 U	0.046 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.086 U	0.085 U	0.092 U	0.081 U	0.084 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.086 U	0.085 U	0.092 U	0.081 U	0.084 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.64 U	0.63 U	0.69 U	0.61 U	0.63 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	2.1 U	2.1 U	2.3 U	2 U	2.3 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	2.1 U	2.1 U	2.3 U	2 U	2.3 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.64 UJ	0.63 UJ	0.69 UJ	0.61 UJ	0.63 UJ
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.043 U	0.042 U	0.046 U	0.041 U	0.046 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.086 U	0.085 U	0.092 U	0.081 U	0.084 U
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.086 U	0.085 U	0.092 U	0.081 U	0.084 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.21 U	0.21 U	0.23 U	0.2 U	0.23 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.21 U	0.21 U	0.23 U	0.2 U	0.23 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.043 U	0.042 U	0.046 U	0.041 U	0.046 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.043 U	0.042 U	0.046 U	0.041 U	0.046 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.21 U	0.21 U	0.23 U	0.2 U	0.23 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.043 U	0.042 U	0.046 U	0.041 U	0.046 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.21 U	0.21 U	0.23 U	0.2 U	0.23 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.043 U	0.042 U	0.046 U	0.041 U	0.046 U
cis-1,3-Dichloropropene	mg/kg											0.043 U	0.042 U	0.046 U	0.041 U	0.046 U
Cyclohexane	mg/kg											1 U	1 U	1.1 U	0.97 U	1 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.043 U	0.042 U	0.046 U	0.041 U	0.046 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.086 U	0.085 U	0.092 U	0.081 U	0.084 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.043 U	0.042 U	0.046 U	0.041 U	0.046 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.21 U	0.21 U	0.23 U	0.2 U	0.23 U
Methyl acetate	mg/kg											1 U	1 U	1.1 U	0.97 U	1 U
Methyl cyclohexane	mg/kg											1 U	1 U	1.1 U	0.97 U	1 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.21 U	0.21 U	0.23 U	0.2 U	0.23 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.21 U	0.21 U	0.23 U	0.2 U	0.23 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.043 U	0.042 U	0.046 U	0.041 U	0.046 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.043 U	0.042 U	0.046 U	0.041 U	0.046 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.086 U	0.085 U	0.092 U	0.081 U	0.084 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.043 U	0.042 U	0.046 U	0.041 U	0.046 U
trans-1,3-Dichloropropene	mg/kg											0.043 U	0.042 U	0.046 U	0.041 U	0.046 U
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.043 U	0.042 U	0.046 U	0.041 U	0.046 U
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.086 U	0.085 U	0.092 U	0.081 U	0.084 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.21 U	0.21 U	0.23 U	0.2 U	0.23 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.086 U	0.085 U	0.092 U	0.081 U	0.084 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.13 U	0.13 U	0.14 U	0.12 U	0.13 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 2

SUMMARY OF SOIL SAMPLES COMPARED TO MICHIGAN ACT 451, PART 201 RESIDENTIAL CRITERIA
SVE SOIL INVESTIGATION
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Residential and Commercial ⁽¹⁾											SB18-05	SB18-05	SB18-05	Trip Blank	Trip Blank
Sample Identification	Drinking Water	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening	SO-17360-120305-DCR-537	SO-17360-120305-DCR-538	SO-17360-120305-DCR-539	TB-17360-071205-DCR-501	SO-17360-120305-DCR-550	
Sample Date	Protection	Interface Protection	Protection	Inhalation	Inhalation	f	g	h	i	j	12/3/2005	12/3/2005	12/3/2005	7/12/2005	12/3/2005	
Sample Depth											14-16 ft BGS	16-18 ft BGS	18-20 ft BGS			
Sample Type	a	b	c	d	e	f	g	h	i	j						
	Units															
Volatile Organic Compounds																
1,1,1-Trichloroethane	mg/kg	4	4	460	250	3800	12000	28000	67000000	460	460	0.043 U	0.042 U	0.045 U	0.04 U	0.04 U
1,1,2,2-Tetrachloroethane	mg/kg	0.17	1.6	94	4.3	10	10	14	54000	53	870	0.086 U	0.085 U	0.09 U	0.08 U	0.08 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	4.6	17	21	44	190000	180	920	0.043 U	0.042 U	0.045 U	0.04 U	0.04 U
1,1-Dichloroethane	mg/kg	18	15	890	230	2100	5900	14000	33000000	890	890	0.043 U	0.042 U	0.045 U	0.04 U	0.04 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.062	1.1	5.3	13	62000	200	570	0.043 U	0.042 U	0.045 U	0.04 U	0.04 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	28000	28000	28000	25000000	990	1100	0.21 U	0.21 U	0.22 U	0.2 U	0.2 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	13	13	13	13000	1.2	1.2	0.21 U	0.21 U	0.22 U	0.2 U	0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	0.67	1.7	1.7	3.3	14000	0.092	890	0.21 U	0.21 U	0.22 U	0.2 U	0.2 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	39000	39000	52000	100000000	210	210	0.086 U	0.085 U	0.09 U	0.08 U	0.08 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	2.1	6.2	11	26	120000	91	1200	0.043 U	0.042 U	0.045 U	0.04 U	0.04 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	4	25	50	110	270000	140	550	0.043 U	0.042 U	0.045 U	0.04 U	0.04 U
1,3-Dichlorobenzene	mg/kg	0.17	1.1	51	ID	ID	ID	ID	ID	170	170	0.086 U	0.085 U	0.09 U	0.08 U	0.08 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	19	77	77	110	450000	400		0.086 U	0.085 U	0.09 U	0.08 U	0.08 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	260	44	27000	27000	29000	29000	35000	67000000	27000	27000	0.64 U	0.64 U	0.67 U	0.6 U	0.6 U
2-Hexanone	mg/kg	20		2500	990	1100	1100	1400	2700000	2500	2500	2.1 U	2.1 U	2.2 U	2 U	2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	36	ID	2700	2700	45000	45000	67000	140000000	2700	2700	2.1 U	2.1 U	2.2 U	2 U	2 U
Acetone	mg/kg	15	34	110000	110000	130000	130000	190000	390000000	23000	110000	0.64 UJ	0.64 UJ	0.67 UJ	0.6 U	0.6 U
Benzene	mg/kg	0.1	4	220	1.6	13	34	79	380000	180	400	0.043 U	0.042 U	0.045 U	0.04 U	0.04 U
Bromodichloromethane	mg/kg	1.6	ID	280	1.2	9.1	9.7	19	84000	110	1500	0.086 U	0.085 U	0.09 U	0.08 UJ	0.08 U
Bromoform	mg/kg	1.6	ID	870	150	900	900	900	2800000	820	870	0.086 U	0.085 U	0.09 U	0.08 U	0.08 U
Bromomethane (Methyl Bromide)	mg/kg	0.2	0.7	1400	0.86	11	57	140	330000	320	2200	0.21 U	0.21 U	0.22 U	0.2 U	0.2 U
Carbon disulfide	mg/kg	16	ID	280	76	1300	7900	19000	47000000	280	280	0.21 U	0.21 U	0.22 U	0.2 U	0.2 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.19	3.5	12	28	130000	96	390	0.043 U	0.042 U	0.045 U	0.04 U	0.04 U
Chlorobenzene	mg/kg	2	0.94	260	120	770	990	2100	4700000	260	260	0.043 U	0.042 U	0.045 U	0.04 U	0.04 U
Chloroethane	mg/kg	8.6	ID	950	950	30000	120000	280000	670000000	950	950	0.21 U	0.21 U	0.22 U	0.2 U	0.2 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	7.2	45	120	270	1300000	1200	1500	0.043 U	0.042 U	0.045 U	0.04 U	0.04 U
Chloromethane (Methyl Chloride)	mg/kg	5.2	ID	1100	2.3	40	410	1000	4900000	1100	1100	0.21 U	0.21 U	0.22 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	22	180	420	990	2300000	640	640	0.043 U	0.042 U	0.045 U	0.04 U	0.04 U
cis-1,3-Dichloropropene	mg/kg											0.043 U	0.042 U	0.045 U	0.04 UJ	0.04 U
Cyclohexane	mg/kg											1 U	1 U	1.1 U	0.96 U	0.96 U
Dibromochloromethane	mg/kg	1.6	ID	360	3.9	24	24	33	130000	110	610	0.043 U	0.042 U	0.045 U	0.04 U	0.04 U
Dichlorodifluoromethane (CFC-12)	mg/kg	95	ID	1000	900	53000	550000	1400000	3300000000	1000	1000	0.086 U	0.085 U	0.09 U	0.08 U	0.08 U
Ethylbenzene	mg/kg	1.5	0.36	140	87	720	1000	2200	10000000	140	140	0.043 U	0.042 U	0.045 U	0.04 U	0.04 U
Isopropylbenzene	mg/kg	91	ID	390	390	1700	1700	2800	5800000	390	390	0.21 U	0.21 U	0.22 U	0.2 U	0.2 U
Methyl acetate	mg/kg											0.074 J	1 U	1.1 U	0.077 J	0.96 U
Methyl cyclohexane	mg/kg											1 U	1 U	1.1 U	0.96 U	0.96 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	25000	39000	87000	200000000	1500	5900	0.21 U	0.21 U	0.22 U	0.2 U	0.2 U
Methylene chloride	mg/kg	0.1	19	2300	45	210	590	1400	6600000	1300	2300	0.21 U	0.21 U	0.22 U	0.2 U	0.2 U
Styrene	mg/kg	2.7	2.2	270	250	970	970	1400	5500000	400	520	0.043 U	0.042 U	0.045 U	0.04 U	0.04 U
Tetrachloroethene	mg/kg	0.1	0.9	88	11	180	480	1100	5400000	88	88	0.043 U	0.042 U	0.045 U	0.04 U	0.04 U
Toluene	mg/kg	16	2.8	250	250	2800	5100	12000	27000000	250	250	0.086 U	0.085 U	0.09 U	0.08 U	0.08 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	23	280	830	2000	4700000	1400	1400	0.043 U	0.042 U	0.045 U	0.04 U	0.04 U
trans-1,3-Dichloropropene	mg/kg											0.043 U	0.042 U	0.045 U	0.04 U	0.04 U
Trichloroethene	mg/kg	0.1	4	440	7.1	78	170	390	1800000	500	500	0.043 U	0.042 U	0.045 U	0.04 U	0.04 U
Trichlorofluoromethane (CFC-11)	mg/kg	52		560	560	92000	630000	1500000	3800000000	560	560	0.086 U	0.085 U	0.09 U	0.08 U	0.08 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	180000	880000	2100000	5100000000	550	550	0.21 U	0.21 U	0.22 U	0.2 U	0.2 U
Vinyl chloride	mg/kg	0.04	0.3	20	0.27	4.2	30	73	350000	3.8	490	0.086 U	0.085 U	0.09 U	0.08 U	0.08 U
Xylene (total)	mg/kg	5.6	0.7	150	150	46000	61000	130000	290000000	150	150	0.13 U	0.13 U	0.13 U	0.12 U	0.12 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 - Value exceeds referenced Part 201 Criteria (I.e. a, b, etc.)

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾											SB1-04	SB1-04	SB1-04	SB1-04	SB1-04	SB1-04
Sample Identification	Industrial and Commercial	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source	Finite VSIC for 5 Meter Source	Finite VSIC for 2 Meter Source	Particulate Soil Inhalation	Direct Contact Industrial and Commercial II	Soil Saturation Concentration Screening	S-17360-071504-DCR-122	S-17360-071504-DCR-123	S-17360-071504-DCR-124	S-17360-071504-DCR-125	S-17360-071504-DCR-126	S-17360-071504-DCR-127	
Sample Date	Drinking Water	Interface Protection	Protection	Inhalation	Volatile Soil Inhalation	Thickness	Thickness				7/15/2004	7/15/2004	7/15/2004	7/15/2004	7/15/2004	7/15/2004	
Sample Depth											0-2 ft BGS	2-4 ft BGS	4-6 ft BGS	6-8 ft BGS	8-10 ft BGS	10-12 ft BGS	
Sample Type	a	b	c	d	e	f	g	h	i	j							
Units																	
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	0.058 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	0.12 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	0.058 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	0.058 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	0.058 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.29 U	0.28 U	0.28 U	0.29 U	0.03 J	0.29 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.29 U	0.28 U	0.28 U	0.29 U	0.3 U	0.29 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.29 U	0.28 U	0.28 U	0.29 U	0.3 U	0.29 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	0.12 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	0.058 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	0.058 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	0.12 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	0.12 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.88 U	0.84 U	0.85 U	0.87 U	0.89 U	0.87 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2.9 U	2.8 U	2.8 U	2.9 U	3 U	2.9 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2.9 U	2.8 U	2.8 U	2.9 U	3 U	2.9 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.88 U	0.84 U	0.85 U	0.87 U	0.89 U	0.87 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	0.058 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	0.12 U
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	0.12 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.29 U	0.28 U	0.28 U	0.29 U	0.3 U	0.29 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.29 U	0.28 U	0.28 U	0.29 U	0.3 U	0.29 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	0.058 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	0.058 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.29 U	0.28 U	0.28 U	0.29 U	0.3 U	0.29 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	0.058 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.29 U	0.28 U	0.28 U	0.29 U	0.3 U	0.29 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	0.058 U
cis-1,3-Dichloropropene	mg/kg											0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	0.058 U
Cyclohexane	mg/kg											1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	0.058 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	0.12 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	0.058 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.29 U	0.28 U	0.28 U	0.29 U	0.3 U	0.29 U
Methyl acetate	mg/kg											1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	mg/kg											0.039 J	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.29 U	0.28 U	0.28 U	0.29 U	0.3 U	0.29 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.29 U	0.28 U	0.28 U	0.29 U	0.3 U	0.29 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	0.058 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	0.058 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.021 J	0.11 U	0.11 U	0.12 U	0.12 U	0.12 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	0.058 U
trans-1,3-Dichloropropene	mg/kg											0.059 U	0.056 U	0.057 U	0.058 U	0.059 U	0.058 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	2		0.056 U	0.057 U	0.058 U	0.058 U
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	140000000	140000000	1700000000	560	560	0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	0.12 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.29 U	0.28 U	0.28 U	0.29 U	0.3 U	0.29 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.12 U	0.11 U	0.11 U	0.12 U	0.12 U	0.12 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.038 J	0.17 U	0.17 U	0.17 U	0.18 U	0.17 U

Notes:

⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.

U - Not present at or above the associated value.

J - Estimated concentration.

UJ - Estimated reporting limit.

Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)

ID - Insufficient data to develop criterion

NLL - Hazardous substance is not likely to leach under most soil conditions

NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾											SB1-04	SB1-04	SB1-04	SB1-04	SB1-04	SB2-04
Sample Identification	Industrial and Commercial	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact Industrial and Commercial II	Soil Saturation Concentration Screening	S-17360-071504-DCR-128 7/15/2004 12-14 ft BGS	S-17360-071504-DCR-129 7/15/2004 14-16 ft BGS	S-17360-071504-DCR-130 7/15/2004 16-18 ft BGS	S-17360-071504-DCR-131 7/15/2004 18-20 ft BGS	S-17360-071504-DCR-132 7/15/2004 20-22 ft BGS	S-17360-071404-DCR-089 7/14/2004 0-2 ft BGS	
Sample Date	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness										
Sample Depth	a	b	c	d	e	f	g	h	i	j							
Sample Type	Units																
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.12 U	0.11 U	0.15 U	0.1 U	0.12 U	0.86 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.29 U	0.29 U	0.38 U	0.26 U	0.29 U	2.2 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.29 U	0.29 U	0.38 U	0.26 U	0.29 U	2.2 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.29 U	0.29 U	0.38 U	0.26 U	0.29 U	2.2 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.12 U	0.11 U	0.15 U	0.1 U	0.12 U	0.86 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.12 U	0.11 U	0.15 U	0.1 U	0.12 U	0.86 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.12 U	0.11 U	0.15 U	0.1 U	0.12 U	0.86 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.88 U	0.86 U	1.1 U	0.78 U	0.88 U	6.5 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2.9 U	2.9 U	3.8 U	2.6 U	2.9 U	22 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2.9 U	2.9 U	3.8 U	2.6 U	2.9 U	22 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.88 U	0.86 U	1.1 U	0.78 U	0.88 U	6.5 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.12 U	0.11 U	0.15 U	0.1 U	0.12 U	0.86 U
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.12 U	0.11 U	0.15 U	0.1 U	0.12 U	0.86 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.29 U	0.29 U	0.38 U	0.26 U	0.29 U	2.2 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.29 U	0.29 U	0.38 U	0.26 U	0.29 U	2.2 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.29 U	0.29 U	0.38 U	0.26 U	0.29 U	2.2 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.29 U	0.29 U	0.38 U	0.26 U	0.29 U	2.2 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
cis-1,3-Dichloropropene	mg/kg											0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
Cyclohexane	mg/kg											1.4 U	1.4 U	1.8 U	1.2 U	1.4 U	10 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.12 U	0.11 U	0.15 U	0.1 U	0.12 U	0.86 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.29 U	0.29 U	0.38 U	0.26 U	0.29 U	2.2 U
Methyl acetate	mg/kg											1.4 U	1.4 U	1.8 U	1.2 U	1.4 U	10 U
Methyl cyclohexane	mg/kg											1.4 U	1.4 U	1.8 U	1.2 U	1.4 U	0.2 J
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.29 U	0.29 U	0.38 U	0.26 U	0.29 U	2.2 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.29 U	0.29 U	0.38 U	0.26 U	0.29 U	2.2 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.12 U	0.11 U	0.15 U	0.1 U	0.12 U	0.16 J
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
trans-1,3-Dichloropropene	mg/kg											0.058 U	0.057 U	0.075 U	0.052 U	0.059 U	0.43 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.016 J	0.014 J	0.075 U	0.052 U	0.059 U	12"
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	140000000	140000000	1700000000	560	560	0.12 U	0.11 U	0.15 U	0.1 U	0.12 U	0.86 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.29 U	0.29 U	0.38 U	0.26 U	0.29 U	2.2 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.12 U	0.11 U	0.15 U	0.1 U	0.12 U	0.86 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.18 U	0.17 U	0.23 U	0.16 U	0.18 U	0.28 J

Notes:

⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.

U - Not present at or above the associated value.

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TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾											SB2-04	SB2-04	SB2-04	SB2-04	SB2-04	SB2-04
Sample Identification	Industrial and Commercial	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatilization	Finite VSIC for 5 Meter Source	Finite VSIC for 2 Meter Source	Particulate Soil Inhalation	Direct Contact Industrial and Commercial II	Soil Saturation Concentration Screening	S-17360-071404-DCR-090	S-17360-071404-DCR-091	S-17360-071404-DCR-092	S-17360-071404-DCR-093	S-17360-071404-DCR-094	S-17360-071404-DCR-095	
Sample Date	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				7/14/2004	7/14/2004	7/14/2004	7/14/2004	7/14/2004	7/14/2004	
Sample Depth											2-4 ft BGS	4-6 ft BGS	6-8 ft BGS	8-10 ft BGS	10-12 ft BGS	12-14 ft BGS	
Sample Type	a	b	c	d	e	f	g	h	i	j							
Units																	
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.27 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.27 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.27 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.87 U	0.92 U	0.88 U	0.88 U	0.92 U	0.82 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2.9 U	3.1 U	2.9 U	2.9 U	3.1 U	2.7 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2.9 U	3.1 U	2.9 U	2.9 U	3.1 U	2.7 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.87 U	0.92 U	0.88 U	0.88 U	0.92 U	0.82 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.27 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.27 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.27 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.27 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
cis-1,3-Dichloropropene	mg/kg											0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
Cyclohexane	mg/kg											1.4 U	1.5 U	1.4 U	1.4 U	1.5 U	1.3 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.27 U
Methyl acetate	mg/kg											1.4 U	1.5 U	1.4 U	1.4 U	1.5 U	1.3 U
Methyl cyclohexane	mg/kg											1.4 U	1.5 U	1.4 U	1.4 U	1.5 U	1.3 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.27 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.27 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
trans-1,3-Dichloropropene	mg/kg											0.058 U	0.061 U	0.059 U	0.058 U	0.061 U	0.055 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.058 U	0.061 U	0.059 U	0.04 J	0.022 J	0.022 J
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	140000000	140000000	1700000000	560	560	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.27 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U	0.16 U

Notes:

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GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾											SB2-04	SB2-04	SB2-04	SB2-04	SB3-04	SB3-04
Sample Identification	Industrial and Commercial	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact Industrial and Commercial II	Soil Saturation Concentration Screening	S-17360-071404-DCR-096 7/14/2004 14-16 ft BGS	S-17360-071404-DCR-097 7/14/2004 16-18 ft BGS	S-17360-071404-DCR-098 7/14/2004 18-20 ft BGS	S-17360-071404-DCR-099 7/14/2004 20-22 ft BGS	S-17360-071404-DCR-078 7/14/2004 0-2 ft BGS	S-17360-071404-DCR-079 7/14/2004 2-4 ft BGS	
Sample Date	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness										
Sample Depth	a	b	c	d	e	f	g	h	i	j							
Sample Type	Units																
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.11 U	0.11 U	0.12 U	0.11 U	0.22 U	0.13 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.29 U	0.28 U	0.3 U	0.28 U	0.54 U	0.32 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.29 U	0.28 U	0.3 U	0.28 U	0.54 U	0.32 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.29 U	0.28 U	0.3 U	0.28 U	0.54 U	0.32 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.11 U	0.11 U	0.12 U	0.11 U	0.22 U	0.13 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.11 U	0.11 U	0.12 U	0.11 U	0.22 U	0.13 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.11 U	0.11 U	0.12 U	0.11 U	0.22 U	0.13 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.86 U	0.83 U	0.89 U	0.83 U	1.6 U	0.95 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2.9 U	2.8 U	3 U	2.8 U	5.4 U	3.2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2.9 U	2.8 U	3 U	2.8 U	5.4 U	3.2 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.86 U	0.83 U	0.89 U	0.83 U	1.6 U	0.95 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.11 U	0.11 U	0.12 U	0.11 U	0.22 U	0.13 U
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.11 U	0.11 U	0.12 U	0.11 U	0.22 U	0.13 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.29 U	0.28 U	0.3 U	0.28 U	0.54 U	0.32 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.29 U	0.28 U	0.3 U	0.28 U	0.54 U	0.32 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.29 U	0.28 U	0.3 U	0.28 U	0.54 U	0.32 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.29 U	0.28 U	0.3 U	0.28 U	0.54 U	0.32 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
cis-1,3-Dichloropropene	mg/kg										0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U	
Cyclohexane	mg/kg										1.4 U	1.3 U	1.4 U	1.3 U	0.018 J	1.5 U	
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.11 U	0.11 U	0.12 U	0.11 U	0.22 U	0.13 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.29 U	0.28 U	0.3 U	0.28 U	0.54 U	0.32 U
Methyl acetate	mg/kg										1.4 U	1.3 U	1.4 U	1.3 U	2.6 U	1.5 U	
Methyl cyclohexane	mg/kg										1.4 U	1.3 U	1.4 U	1.3 U	0.1 J	1.5 U	
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.29 U	0.28 U	0.3 U	0.28 U	0.54 U	0.32 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.29 U	0.28 U	0.3 U	0.28 U	0.54 U	0.32 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.11 U	0.11 U	0.12 U	0.11 U	0.042 J	0.13 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U
trans-1,3-Dichloropropene	mg/kg										0.057 U	0.055 U	0.059 U	0.055 U	0.11 U	0.063 U	
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.087	0.063	0.027 J	0.046 J	2.8*	
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	140000000	140000000	1700000000	560	560	0.11 U	0.11 U	0.12 U	0.11 U	0.22 U	0.13 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.29 U	0.28 U	0.3 U	0.28 U	0.54 U	0.32 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.11 U	0.11 U	0.12 U	0.11 U	0.22 U	0.13 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.17 U	0.17 U	0.18 U	0.17 U	0.084 J	0.19 U

Notes:

⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.

U - Not present at or above the associated value.

J - Estimated concentration.

UJ - Estimated reporting limit.

Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)

ID - Insufficient data to develop criterion

NLL - Hazardous substance is not likely to leach under most soil conditions

NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾											SB3-04	SB3-04	SB3-04	SB3-04	SB3-04	SB3-04
Sample Identification	Industrial and Commercial	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source	Finite VSIC for 5 Meter Source	Finite VSIC for 2 Meter Source	Particulate Soil Inhalation	Direct Contact Industrial and Commercial II	Soil Saturation Concentration Screening	S-17360-071404-DCR-080	S-17360-071404-DCR-081	S-17360-071404-DCR-082	S-17360-071404-DCR-083	S-17360-071404-DCR-084	S-17360-071404-DCR-085	
Sample Date	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				7/14/2004	7/14/2004	7/14/2004	7/14/2004	7/14/2004	7/14/2004	
Sample Depth											4-6 ft BGS	6-8 ft BGS	8-10 ft BGS	10-12 ft BGS	12-14 ft BGS	14-16 ft BGS	
Sample Type	a	b	c	d	e	f	g	h	i	j							
	Units																
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.12 U	0.16 U	0.11 U	0.1 U	0.1 U	0.11 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.3 U	0.4 U	0.27 U	0.26 U	0.25 U	0.26 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.3 U	0.4 U	0.27 U	0.26 U	0.25 U	0.26 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.3 U	0.4 U	0.27 U	0.26 U	0.25 U	0.26 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.12 U	0.16 U	0.11 U	0.1 U	0.1 U	0.11 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.12 U	0.16 U	0.11 U	0.1 U	0.1 U	0.11 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.12 U	0.16 U	0.11 U	0.1 U	0.1 U	0.11 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.89 U	1.2 U	0.8 U	0.77 U	0.75 U	0.79 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	3 U	4 U	2.7 U	2.6 U	2.5 U	2.6 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	3 U	4 U	2.7 U	2.6 U	2.5 U	2.6 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.89 U	1.2 U	0.8 U	0.77 U	0.75 U	0.79 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.12 U	0.16 U	0.11 U	0.1 U	0.1 U	0.11 U
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.12 U	0.16 U	0.11 U	0.1 U	0.1 U	0.11 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.3 U	0.4 U	0.27 U	0.26 U	0.25 U	0.26 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.3 U	0.4 U	0.27 U	0.26 U	0.25 U	0.26 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.3 U	0.4 U	0.27 U	0.26 U	0.25 U	0.26 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.3 U	0.4 U	0.27 U	0.26 U	0.25 U	0.26 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
cis-1,3-Dichloropropene	mg/kg											0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
Cyclohexane	mg/kg											1.4 U	1.9 U	1.3 U	1.2 U	1.2 U	1.3 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.12 U	0.16 U	0.11 U	0.1 U	0.1 U	0.11 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.3 U	0.4 U	0.27 U	0.26 U	0.25 U	0.26 U
Methyl acetate	mg/kg											1.4 U	1.9 U	1.3 U	1.2 U	1.2 U	1.3 U
Methyl cyclohexane	mg/kg											1.4 U	1.9 U	1.3 U	1.2 U	1.2 U	1.3 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.3 U	0.4 U	0.27 U	0.26 U	0.25 U	0.26 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.3 U	0.4 U	0.27 U	0.26 U	0.25 U	0.26 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.12 U	0.16 U	0.11 U	0.1 U	0.1 U	0.11 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
trans-1,3-Dichloropropene	mg/kg											0.059 U	0.079 U	0.053 U	0.051 U	0.05 U	0.053 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.02 J	0.079 U	0.078	0.024 J	0.04 J	0.031 J
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	140000000	140000000	1700000000	560	560	0.12 U	0.16 U	0.11 U	0.1 U	0.1 U	0.11 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.3 U	0.4 U	0.27 U	0.26 U	0.25 U	0.26 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.12 U	0.16 U	0.11 U	0.1 U	0.1 U	0.11 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.18 U	0.24 U	0.16 U	0.15 U	0.15 U	0.16 U

Notes:

⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.

U - Not present at or above the associated value.

J - Estimated concentration.

UJ - Estimated reporting limit.

Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)

ID - Insufficient data to develop criterion

NLL - Hazardous substance is not likely to leach under most soil conditions

NLV - Hazardous substance is not likely to volatilize under most conditions

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GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾											SB3-04	SB3-04	SB3-04	SB4-04	SB4-04	SB4-04
Sample Identification	Industrial and Commercial	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact Industrial and Commercial II	Soil Saturation Concentration Screening	S-17360-071404-DCR-086	S-17360-071404-DCR-087	S-17360-071404-DCR-088	S-17360-071504-DCR-111	S-17360-071504-DCR-112	S-17360-071504-DCR-113	
Sample Date	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				7/14/2004	7/14/2004	7/14/2004	7/15/2004	7/15/2004	7/15/2004	
Sample Depth											16-18 ft BGS	18-20 ft BGS	20-22 ft BGS	0-2 ft BGS	2-4 ft BGS	4-6 ft BGS	
Sample Type	a	b	c	d	e	f	g	h	i	j							
Units																	
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.12 U	0.11 U	0.11 U	0.13 U	0.15 U	0.16 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.29 U	0.27 U	0.26 U	0.33 U	0.38 U	0.41 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.29 U	0.27 U	0.26 U	0.33 U	0.38 U	0.41 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.29 U	0.27 U	0.26 U	0.33 U	0.38 U	0.41 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.12 U	0.11 U	0.11 U	0.13 U	0.15 U	0.16 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.12 U	0.11 U	0.11 U	0.13 U	0.15 U	0.16 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.12 U	0.11 U	0.11 U	0.13 U	0.15 U	0.16 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.86 U	0.82 U	0.79 U	0.99 U	1.1 U	1.2 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2.9 U	2.7 U	2.6 U	3.3 U	3.8 U	4.1 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2.9 U	2.7 U	2.6 U	3.3 U	3.8 U	4.1 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.86 U	0.82 U	0.79 U	0.99 U	1.1 U	1.2 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.12 U	0.11 U	0.11 U	0.13 U	0.15 U	0.16 U
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.12 U	0.11 U	0.11 U	0.13 U	0.15 U	0.16 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.29 U	0.27 U	0.26 U	0.33 U	0.38 U	0.41 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.29 U	0.27 U	0.26 U	0.33 U	0.38 U	0.41 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.29 U	0.27 U	0.26 U	0.33 U	0.38 U	0.41 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.29 U	0.27 U	0.26 U	0.33 U	0.027 J	0.41 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
cis-1,3-Dichloropropene	mg/kg											0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
Cyclohexane	mg/kg											1.4 U	1.3 U	1.3 U	1.6 U	1.8 U	2 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.12 U	0.11 U	0.11 U	0.13 U	0.15 U	0.16 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.29 U	0.27 U	0.26 U	0.33 U	0.38 U	0.41 U
Methyl acetate	mg/kg											1.4 U	1.3 U	1.3 U	1.6 U	1.8 U	2 U
Methyl cyclohexane	mg/kg											1.4 U	1.3 U	1.3 U	1.6 U	1.8 U	2 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.29 U	0.27 U	0.26 U	0.33 U	0.38 U	0.41 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.29 U	0.27 U	0.26 U	0.33 U	0.38 U	0.41 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.12 U	0.11 U	0.11 U	0.13 U	0.15 U	0.16 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
trans-1,3-Dichloropropene	mg/kg											0.058 U	0.055 U	0.053 U	0.066 U	0.076 U	0.082 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.058 U	0.02 J	0.053 U	0.19	0.076 U	0.082 U
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	140000000	140000000	1700000000	560	560	0.12 U	0.11 U	0.11 U	0.13 U	0.15 U	0.16 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.29 U	0.27 U	0.26 U	0.33 U	0.38 U	0.41 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.12 U	0.11 U	0.11 U	0.13 U	0.15 U	0.16 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.17 U	0.16 U	0.16 U	0.2 U	0.23 U	0.25 U

Notes:

⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.

U - Not present at or above the associated value.

J - Estimated concentration.

UJ - Estimated reporting limit.

Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)

ID - Insufficient data to develop criterion

NLL - Hazardous substance is not likely to leach under most soil conditions

NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾											SB4-04	SB4-04	SB4-04	SB4-04	SB4-04	SB4-04
Sample Identification	Industrial and Commercial	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact Industrial and Commercial II	Soil Saturation Concentration Screening	S-17360-071504-DCR-114	S-17360-071504-DCR-115	S-17360-071504-DCR-116	S-17360-071504-DCR-117	S-17360-071504-DCR-118	S-17360-071504-DCR-119	
Sample Date	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				7/15/2004	7/15/2004	7/15/2004	7/15/2004	7/15/2004	7/15/2004	
Sample Depth											6-8 ft BGS	8-10 ft BGS	10-12 ft BGS	12-14 ft BGS	14-16 ft BGS	16-18 ft BGS	
Sample Type	a	b	c	d	e	f	g	h	i	j							
Units																	
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.12 U	0.12 U	0.13 U	0.11 U	0.12 U	0.12 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.3 U	0.29 U	0.33 U	0.28 U	0.31 U	0.29 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.3 U	0.29 U	0.33 U	0.28 U	0.31 U	0.29 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.3 U	0.29 U	0.33 U	0.28 U	0.31 U	0.29 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.12 U	0.12 U	0.13 U	0.11 U	0.12 U	0.12 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.12 U	0.12 U	0.13 U	0.11 U	0.12 U	0.12 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.12 U	0.12 U	0.13 U	0.11 U	0.12 U	0.12 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.89 U	0.88 U	0.98 U	0.85 U	0.92 U	0.88 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	3 U	2.9 U	3.3 U	2.8 U	3.1 U	2.9 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	3 U	2.9 U	3.3 U	2.8 U	3.1 U	2.9 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.89 U	0.88 U	0.98 U	0.85 U	0.92 U	0.88 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.12 U	0.12 U	0.13 U	0.11 U	0.12 U	0.12 U
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.12 U	0.12 U	0.13 U	0.11 U	0.12 U	0.12 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.3 U	0.29 U	0.33 U	0.28 U	0.31 U	0.29 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.3 U	0.29 U	0.33 U	0.28 U	0.31 U	0.29 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.3 U	0.29 U	0.33 U	0.28 U	0.31 U	0.29 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.3 U	0.29 U	0.021 J	0.018 J	0.31 U	0.29 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
cis-1,3-Dichloropropene	mg/kg											0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
Cyclohexane	mg/kg											1.4 U	1.4 U	1.6 U	1.4 U	1.5 U	1.4 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.12 U	0.12 U	0.13 U	0.11 U	0.12 U	0.12 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.3 U	0.29 U	0.33 U	0.28 U	0.31 U	0.29 U
Methyl acetate	mg/kg											1.4 U	1.4 U	1.6 U	1.4 U	1.5 U	1.4 U
Methyl cyclohexane	mg/kg											1.4 U	1.4 U	1.6 U	1.4 U	1.5 U	1.4 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.3 U	0.29 U	0.33 U	0.28 U	0.31 U	0.29 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.3 U	0.29 U	0.33 U	0.28 U	0.31 U	0.29 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.12 U	0.12 U	0.13 U	0.11 U	0.12 U	0.12 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
trans-1,3-Dichloropropene	mg/kg											0.059 U	0.059 U	0.066 U	0.057 U	0.061 U	0.059 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.059 U	0.059 U	0.066 U	0.057 U	0.041 J	0.059 U
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	140000000	140000000	1700000000	560	560	0.12 U	0.12 U	0.13 U	0.11 U	0.12 U	0.12 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.3 U	0.29 U	0.33 U	0.28 U	0.31 U	0.29 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.12 U	0.12 U	0.13 U	0.11 U	0.12 U	0.12 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.18 U	0.18 U	0.2 U	0.17 U	0.18 U	0.18 U

Notes:

⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.

U - Not present at or above the associated value.

J - Estimated concentration.

UJ - Estimated reporting limit.

Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)

ID - Insufficient data to develop criterion

NLL - Hazardous substance is not likely to leach under most soil conditions

NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾											SB4-04	SB4-04	SB5-04	SB5-04	SB5-04	SB5-04	
Sample Identification	Industrial and Commercial	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact Industrial and Commercial II	Soil Saturation Concentration Screening	S-17360-071504-DCR-120	S-17360-071504-DCR-121	S-17360-071504-DCR-100	S-17360-071504-DCR-101	S-17360-071504-DCR-102	S-17360-071504-DCR-103		
Sample Date	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				7/15/2004	7/15/2004	7/15/2004	7/15/2004	7/15/2004	7/15/2004		
Sample Depth											18-20 ft BGS	20-22 ft BGS	0-2 ft BGS	2-4 ft BGS	4-6 ft BGS	6-8 ft BGS		
Sample Type	a	b	c	d	e	f	g	h	i	j								
Units																		
Volatile Organic Compounds																		
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U	
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.11 U	0.11 U	0.4 U	0.23 U	0.13 U	0.12 U	
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U	
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U	
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U	
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.27 U	0.27 U	1 U	0.57 U	0.33 U	0.3 U	
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.27 U	0.27 U	1 U	0.57 U	0.33 U	0.3 U	
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.27 U	0.27 U	1 U	0.57 U	0.33 U	0.3 U	
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.11 U	0.11 U	0.4 U	0.23 U	0.13 U	0.12 U	
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U	
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U	
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.11 U	0.11 U	0.4 U	0.23 U	0.13 U	0.12 U	
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.11 U	0.11 U	0.4 U	0.23 U	0.13 U	0.12 U	
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.8 U	0.8 U	3 U	1.7 U	0.99 U	0.059 J	
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2.7 U	2.7 U	10 U	5.7 U	3.3 U	3 U	
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2.7 U	2.7 U	10 U	5.7 U	3.3 U	3 U	
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.8 U	0.8 U	3 U	1.7 U	0.99 U	0.91 U	
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.053 U	0.053 U	0.033 J	0.11 U	0.066 U	0.061 U	
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.11 U	0.11 U	0.4 U	0.23 U	0.13 U	0.12 U	
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.11 U	0.11 U	0.4 U	0.23 U	0.13 U	0.12 U	
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.27 U	0.27 U	1 U	0.57 U	0.33 U	0.3 U	
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.27 U	0.27 U	1 U	0.57 U	0.33 U	0.3 U	
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U	
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U	
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.27 U	0.27 U	1 U	0.57 U	0.33 U	0.3 U	
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U	
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.27 U	0.023 J	1 U	0.57 U	0.33 U	0.3 U	
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U	
cis-1,3-Dichloropropene	mg/kg										0.053 U	0.053 U		0.2 U	0.11 U	0.066 U	0.061 U	
Cyclohexane	mg/kg										1.3 U	1.3 U		0.031 J	2.7 U	1.6 U	1.5 U	
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U	
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.11 U	0.11 U	0.4 U	0.23 U	0.13 U	0.12 U	
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U	
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.27 U	0.27 U	0.025 J	0.57 U	0.33 U	0.3 U	
Methyl acetate	mg/kg										1.3 U	1.3 U		4.8 U	2.7 U	1.6 U	1.5 U	
Methyl cyclohexane	mg/kg										1.3 U	1.3 U		0.2 J	2.7 U	1.6 U	1.5 U	
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.27 U	0.27 U	1 U	0.57 U	0.33 U	0.3 U	
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.27 U	0.27 U	1 U	0.57 U	0.33 U	0.3 U	
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U	
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U	
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.11 U	0.11 U	0.14 J	0.23 U	0.13 U	0.12 U	
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.053 U	0.053 U	0.2 U	0.11 U	0.066 U	0.061 U	
trans-1,3-Dichloropropene	mg/kg										0.053 U	0.053 U		0.2 U	0.11 U	0.066 U	0.061 U	
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.053 U	0.018 J	5.7"		0.11 U	0.066 U	0.061 U
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	140000000	140000000	1700000000	560	560	0.11 U	0.11 U	0.4 U	0.23 U	0.13 U	0.12 U	
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.27 U	0.27 U	1 U	0.57 U	0.33 U	0.3 U	
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.11 U	0.11 U	0.4 U	0.23 U	0.13 U	0.12 U	
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.16 U	0.16 U	0.2 J	0.34 U	0.2 U	0.18 U	

Notes:

⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.

U - Not present at or above the associated value.

J - Estimated concentration.

UJ - Estimated reporting limit.

Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)

ID - Insufficient data to develop criterion

NLL - Hazardous substance is not likely to leach under most soil conditions

NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾											SB5-04	SB5-04	SB5-04	SB5-04	SB5-04	SB5-04
Sample Identification	Industrial and Commercial	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact Industrial and Commercial II	Soil Saturation Concentration Screening	S-17360-071504-DCR-104	S-17360-071504-DCR-105	S-17360-071504-DCR-106	S-17360-071504-DCR-107	S-17360-071504-DCR-108	S-17360-071504-DCR-109	
Sample Date	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				7/15/2004	7/15/2004	7/15/2004	7/15/2004	7/15/2004	7/15/2004	
Sample Depth											8-10 ft BGS	10-12 ft BGS	12-14 ft BGS	14-16 ft BGS	16-18 ft BGS	18-20 ft BGS	
Sample Type	a	b	c	d	e	f	g	h	i	j							
	Units																
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.12 U	0.11 U	0.099 U	0.11 U	0.11 U	0.12 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.3 U	0.28 U	0.25 U	0.28 U	0.27 U	0.31 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.3 U	0.28 U	0.25 U	0.28 U	0.27 U	0.31 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.3 U	0.28 U	0.25 U	0.28 U	0.27 U	0.31 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.12 U	0.11 U	0.099 U	0.11 U	0.11 U	0.12 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.12 U	0.11 U	0.099 U	0.11 U	0.11 U	0.12 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.12 U	0.11 U	0.099 U	0.11 U	0.11 U	0.12 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.9 U	0.83 U	0.75 U	0.84 U	0.82 U	0.93 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	3 U	2.8 U	2.5 U	2.8 U	2.7 U	3.1 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	3 U	2.8 U	2.5 U	2.8 U	2.7 U	3.1 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.9 U	0.83 U	0.75 U	0.84 U	0.82 U	0.93 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.12 U	0.11 U	0.099 U	0.11 U	0.11 U	0.12 U
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.12 U	0.11 U	0.099 U	0.11 U	0.11 U	0.12 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.3 U	0.28 U	0.25 U	0.28 U	0.27 U	0.31 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.3 U	0.28 U	0.25 U	0.28 U	0.27 U	0.31 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.3 U	0.28 U	0.25 U	0.28 U	0.27 U	0.31 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.3 U	0.28 U	0.25 U	0.28 U	0.27 U	0.31 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
cis-1,3-Dichloropropene	mg/kg											0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
Cyclohexane	mg/kg											1.4 U	1.3 U	1.2 U	1.3 U	1.3 U	1.5 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.12 U	0.11 U	0.099 U	0.11 U	0.11 U	0.12 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.3 U	0.28 U	0.25 U	0.28 U	0.27 U	0.31 U
Methyl acetate	mg/kg											1.4 U	1.3 U	1.2 U	1.3 U	1.3 U	1.5 U
Methyl cyclohexane	mg/kg											1.4 U	1.3 U	1.2 U	1.3 U	1.3 U	1.5 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.3 U	0.28 U	0.25 U	0.28 U	0.27 U	0.31 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.3 U	0.28 U	0.25 U	0.28 U	0.27 U	0.31 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.12 U	0.11 U	0.099 U	0.11 U	0.11 U	0.12 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
trans-1,3-Dichloropropene	mg/kg											0.06 U	0.056 U	0.05 U	0.056 U	0.055 U	0.062 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.06 U	0.025 J	0.05 U	0.02 J	0.025 J	0.062 U
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	140000000	140000000	1700000000	560	560	0.12 U	0.11 U	0.099 U	0.11 U	0.11 U	0.12 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.3 U	0.28 U	0.25 U	0.28 U	0.27 U	0.31 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.12 U	0.11 U	0.099 U	0.11 U	0.11 U	0.12 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.18 U	0.17 U	0.15 U	0.17 U	0.16 U	0.19 U

Notes:

⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.

U - Not present at or above the associated value.

J - Estimated concentration.

UJ - Estimated reporting limit.

Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)

ID - Insufficient data to develop criterion

NLL - Hazardous substance is not likely to leach under most soil conditions

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TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾											SB5-04	SB6-05	SB6-05	SB6-05	SB6-05
Sample Identification	Industrial and Commercial	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air Inhalation	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact Industrial and Commercial II	Soil Saturation Concentration Screening	S-17360-071504-DCR-110	SO-17360-071105-DCR-419	SO-17360-071105-DCR-420	SO-17360-071105-DCR-421	SO-17360-071105-DCR-422	
Sample Date	Drinking Water	Interface Protection	Protection								7/15/2004	7/11/2005	7/11/2005	7/11/2005	7/11/2005	
Sample Depth											20-22 ft BGS	0-2 ft BGS	2-4 ft BGS	4-6 ft BGS	6-8 ft BGS	
Sample Type	a	b	c	d	e	f	g	h	i	j						
Units																
Volatile Organic Compounds																
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.14 U	0.08 U	0.081 U	0.076 U	0.076 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.35 U	0.2 U	0.2 U	0.19 U	0.19 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.35 U	0.2 U	0.2 U	0.19 U	0.19 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.35 U	0.2 U	0.2 U	0.19 U	0.19 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.14 U	0.08 U	0.081 U	0.076 U	0.076 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.14 U	0.08 U	0.081 U	0.076 U	0.076 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.14 U	0.08 U	0.081 U	0.076 U	0.076 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	1.1 U	0.6 U	0.61 U	0.57 U	0.57 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	3.5 U	2 U	2 U	1.9 U	1.9 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	3.5 U	2 U	2 U	1.9 U	1.9 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	1.1 U	0.6 U	0.61 U	0.57 U	0.57 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.14 U	0.08 UJ	0.081 UJ	0.076 UJ	0.076 UJ
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.14 U	0.08 U	0.081 U	0.076 U	0.076 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.35 U	0.2 U	0.2 U	0.19 U	0.19 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.35 U	0.2 U	0.2 U	0.19 U	0.19 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.35 U	0.2 U	0.2 U	0.19 U	0.19 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.35 U	0.2 U	0.2 U	0.19 U	0.19 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
cis-1,3-Dichloropropene	mg/kg										0.071 U	0.04 U	0.04 U	0.04 U	0.038 U	0.038 U
Cyclohexane	mg/kg										1.7 U	0.96 U	0.97 U	0.97 U	0.91 U	0.91 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.14 U	0.08 U	0.081 U	0.076 U	0.076 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.35 U	0.2 U	0.2 U	0.19 U	0.19 U
Methyl acetate	mg/kg										1.7 U	0.053 J	0.97 U	0.91 U	0.91 U	0.91 U
Methyl cyclohexane	mg/kg										1.7 U	0.96 U	0.97 U	0.97 U	0.91 U	0.91 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.35 U	0.2 U	0.2 U	0.19 U	0.19 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.35 U	0.2 U	0.2 U	0.19 U	0.19 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.14 U	0.08 U	0.081 U	0.076 U	0.076 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.071 U	0.04 U	0.04 U	0.038 U	0.038 U
trans-1,3-Dichloropropene	mg/kg										0.071 U	0.04 UJ	0.04 UJ	0.038 UJ	0.038 UJ	0.038 UJ
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.071 U	0.015 J	0.04 U	0.038 U	0.038 U
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	140000000	140000000	1700000000	560	560	0.14 U	0.08 U	0.081 U	0.076 U	0.076 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.35 U	0.2 U	0.2 U	0.19 U	0.19 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.14 U	0.08 U	0.081 U	0.076 U	0.076 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.21 U	0.12 U	0.12 U	0.11 U	0.11 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)
ID - Insufficient data to develop criterion
NLL - Hazardous substance is not likely to leach under most soil conditions
NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾</i>										<i>SB6-05</i>	<i>SB6-05</i>	<i>SB6-05</i>	<i>SB6-05</i>	<i>SB6-05</i>
Sample Identification	Industrial and	Groundwater	Groundwater	Soil Volatilization	Infinite Source	Finite VSIC for	Finite VSIC for	Particulate	Direct Contact	Soil Saturation	<i>SO-17360-071105-DCR-423</i>	<i>SO-17360-071105-DCR-424</i>	<i>SO-17360-071105-DCR-425</i>	<i>SO-17360-071105-DCR-426</i>	<i>SO-17360-071105-DCR-427</i>
Sample Date	Commercial	Surface Water	Contact	to Indoor Air	Volatile Soil	5 Meter Source	2 Meter Source	Soil Inhalation	Industrial and	Concentration	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>
Sample Depth	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness		Commercial II	Screening	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>16-18 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j					
<i>Units</i>															
<i>Volatile Organic Compounds</i>															
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.038 U	0.048 U	0.038 U	0.053 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.075 U	0.096 U	0.076 U	0.11 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.038 U	0.048 U	0.038 U	0.053 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.038 U	0.048 U	0.038 U	0.053 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.038 U	0.048 U	0.038 U	0.053 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.19 U	0.24 U	0.19 U	0.26 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.19 U	0.24 U	0.19 U	0.26 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.19 U	0.24 U	0.19 U	0.26 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.075 U	0.096 U	0.076 U	0.11 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.038 U	0.048 U	0.038 U	0.053 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.038 U	0.048 U	0.038 U	0.053 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.075 U	0.096 U	0.076 U	0.11 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.075 U	0.096 U	0.076 U	0.11 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.56 U	0.72 U	0.57 U	0.79 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	1.9 U	2.4 U	1.9 U	2.6 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	1.9 U	2.4 U	1.9 U	2.6 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.56 U	0.72 U	0.57 U	0.79 U
Benzene	mg/kg	0.1		220	8.4	45	99	230	470000	400	400	0.038 U	0.048 U	0.038 U	0.053 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.075 UJ	0.096 UJ	0.076 UJ	0.11 UJ
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.075 U	0.096 U	0.076 U	0.11 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.19 U	0.24 U	0.19 U	0.26 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.19 U	0.24 U	0.19 U	0.26 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.038 U	0.048 U	0.038 U	0.053 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.038 U	0.048 U	0.038 U	0.053 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.19 U	0.24 U	0.19 U	0.26 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.038 U	0.048 U	0.038 U	0.053 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.19 U	0.24 U	0.19 U	0.26 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000000	640	640		0.038 U	0.048 U	0.038 U	0.053 U
cis-1,3-Dichloropropene	mg/kg											0.038 U	0.048 U	0.038 U	0.053 U
Cyclohexane	mg/kg											0.9 U	1.2 U	0.91 U	1.3 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.038 U	0.048 U	0.038 U	0.053 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.075 U	0.096 U	0.076 U	0.11 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.038 U	0.048 U	0.038 U	0.053 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.19 U	0.24 U	0.19 U	0.26 U
Methyl acetate	mg/kg											0.9 U	1.2 U	0.91 U	1.3 U
Methyl cyclohexane	mg/kg											0.9 U	1.2 U	0.91 U	1.3 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.19 U	0.24 U	0.19 U	0.26 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.19 U	0.24 U	0.19 U	0.26 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.038 U	0.048 U	0.038 U	0.053 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.038 U	0.048 U	0.038 U	0.053 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.075 U	0.096 U	0.076 U	0.11 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.038 U	0.048 U	0.038 U	0.053 U
trans-1,3-Dichloropropene	mg/kg											0.038 UJ	0.048 UJ	0.038 UJ	0.053 UJ
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.038 U	0.048 U	0.038 U	0.053 U
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	14000000	140000000	1700000000	560	560	0.075 U	0.096 U	0.076 U	0.11 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.19 U	0.24 U	0.19 U	0.26 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.075 U	0.096 U	0.076 U	0.11 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.11 U	0.14 U	0.11 U	0.16 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.

Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)

ID - Insufficient data to develop criterion

NLL - Hazardous substance is not likely to leach under most soil conditions

NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾</i>										<i>SB6-05</i>	<i>SB6-05</i>	<i>SB7-05</i>	<i>SB7-05</i>	<i>SB7-05</i>
Sample Identification	Industrial and	Groundwater	Groundwater	Soil Volatilization	Infinite Source	Finite VSIC for	Finite VSIC for	Particulate	Direct Contact	Soil Saturation	<i>SO-17360-071105-DCR-428</i>	<i>SO-17360-071105-DCR-429</i>	<i>SO-17360-071105-DCR-450</i>	<i>SO-17360-071105-DCR-451</i>	<i>SO-17360-071105-DCR-452</i>
Sample Date	Commercial	Surface Water	Contact	to Indoor Air	Volatile Soil	5 Meter Source	2 Meter Source	Soil Inhalation	Industrial and	Concentration	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>
Sample Depth	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness		Commercial II	Screening	<i>18-20 ft BGS</i>	<i>8-10 ft BGS</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j			<i>Duplicate</i>		
<i>Units</i>															
<i>Volatile Organic Compounds</i>															
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.042 U	0.04 U	0.04 U	0.039 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.084 U	0.079 U	0.08 U	0.078 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.042 U	0.04 U	0.04 U	0.039 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.042 U	0.04 U	0.04 U	0.039 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.042 U	0.04 U	0.04 U	0.039 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.21 U	0.2 U	0.2 U	0.19 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.21 U	0.2 U	0.2 U	0.19 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.21 U	0.2 U	0.2 U	0.19 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.084 U	0.079 U	0.08 U	0.078 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.042 U	0.04 U	0.04 U	0.039 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.042 U	0.04 U	0.04 U	0.039 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.084 U	0.079 U	0.08 U	0.078 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.084 U	0.079 U	0.08 U	0.078 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.63 U	0.59 U	0.6 U	0.58 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2.1 U	2 U	3.7 U	1.9 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2.1 U	2 U	3.7 U	1.9 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.63 U	0.59 U	0.6 U	0.58 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.042 U	0.04 U	0.04 U	0.039 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.084 U	0.079 U	0.08 UJ	0.078 UJ
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.084 U	0.079 U	0.08 U	0.078 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.21 U	0.2 U	0.2 U	0.19 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.21 U	0.2 U	0.2 U	0.19 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.042 U	0.04 U	0.04 U	0.039 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.042 U	0.04 U	0.04 U	0.039 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.21 U	0.2 U	0.2 U	0.19 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.042 U	0.04 U	0.04 U	0.039 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.21 U	0.2 U	0.2 U	0.19 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.042 U	0.04 U	0.04 U	0.039 U
cis-1,3-Dichloropropene	mg/kg											0.042 U	0.04 U	0.04 U	0.039 U
Cyclohexane	mg/kg											1 U	0.95 U	0.008 J	0.93 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.042 U	0.04 U	0.04 U	0.039 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.084 U	0.079 U	0.08 U	0.078 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.042 U	0.04 U	0.04 U	0.039 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.21 U	0.2 U	0.2 U	0.19 U
Methyl acetate	mg/kg											1 U	0.95 U	0.96 U	0.93 U
Methyl cyclohexane	mg/kg											1 U	0.95 U	0.026 J	0.93 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.21 U	0.2 U	0.2 U	0.19 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.21 U	0.2 U	0.2 U	0.19 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.042 U	0.04 U	0.04 U	0.039 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.042 U	0.04 U	0.04 U	0.039 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.084 U	0.079 U	0.08 U	0.078 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.042 U	0.04 U	0.04 U	0.039 U
trans-1,3-Dichloropropene	mg/kg											0.042 U	0.04 U	0.04 U	0.039 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.042 U	0.04 U	0.04 U	0.016 J
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	14000000	14000000	1700000000	560	560	0.084 U	0.079 U	0.08 U	0.078 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.21 U	0.2 U	0.2 U	0.19 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.084 U	0.079 U	0.08 U	0.078 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.13 U	0.12 U	0.016 J	0.12 U

Notes:
(1) Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
☐ Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)
ID - Insufficient data to develop criterion
NLL - Hazardous substance is not likely to leach under most soil conditions
NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾											SB7-05	SB7-05	SB7-05	SB7-05	SB7-05
Sample Identification	Industrial and	Groundwater	Groundwater	Soil Volatilization	Infinite Source	Finite VSIC for	Finite VSIC for	Particulate	Direct Contact	Soil Saturation	SO-17360-071105-DCR-453	SO-17360-071105-DCR-454	SO-17360-071105-DCR-455	SO-17360-071105-DCR-456	SO-17360-071105-DCR-457	
Sample Date	Commercial	Surface Water	Contact	to Indoor Air	Volatile Soil	5 Meter Source	2 Meter Source	Soil Inhalation	Industrial and	Concentration	7/11/2005	7/11/2005	7/11/2005	7/11/2005	7/11/2005	
Sample Depth	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness		Commercial II	Screening	6-8 ft BGS	8-10 ft BGS	10-12 ft BGS	12-14 ft BGS	14-16 ft BGS	
Sample Type	a	b	c	d	e	f	g	h	i	j						
Units																
Volatile Organic Compounds																
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.037 U	0.039 U	0.041 U	0.038 U	0.044 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.074 U	0.078 U	0.082 U	0.077 U	0.089 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.037 U	0.039 U	0.041 U	0.038 U	0.044 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.037 U	0.039 U	0.041 U	0.038 U	0.044 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.037 U	0.039 U	0.041 U	0.038 U	0.044 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.18 U	0.19 U	0.2 U	0.19 U	0.22 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.18 U	0.19 U	0.2 U	0.19 U	0.22 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.18 U	0.19 U	0.2 U	0.19 U	0.22 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.074 U	0.078 U	0.082 U	0.077 U	0.089 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.037 U	0.039 U	0.041 U	0.038 U	0.044 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.037 U	0.039 U	0.041 U	0.038 U	0.044 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.074 U	0.078 U	0.082 U	0.077 U	0.089 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.074 U	0.078 U	0.082 U	0.077 U	0.089 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.55 U	0.58 U	0.61 U	0.58 U	0.67 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	1.8 U	1.9 U	2 U	1.9 U	2.2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	1.8 U	1.9 U	2 U	1.9 U	2.2 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.55 U	0.58 U	0.61 U	0.58 U	0.67 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.037 U	0.039 U	0.041 U	0.038 U	0.044 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.074 UJ	0.078 UJ	0.082 UJ	0.077 UJ	0.089 UJ
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.074 U	0.078 U	0.082 U	0.077 U	0.089 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.18 U	0.19 U	0.2 U	0.19 U	0.22 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.18 U	0.19 U	0.2 U	0.19 U	0.22 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.037 U	0.039 U	0.041 U	0.038 U	0.044 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.037 U	0.039 U	0.041 U	0.038 U	0.044 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.18 U	0.19 U	0.2 U	0.19 U	0.22 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.037 U	0.039 U	0.041 U	0.038 U	0.044 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.18 U	0.19 U	0.2 U	0.19 U	0.22 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.037 U	0.039 U	0.041 U	0.038 U	0.044 U
cis-1,3-Dichloropropene	mg/kg											0.037 U	0.039 U	0.041 U	0.038 U	0.044 U
Cyclohexane	mg/kg											0.88 U	0.93 U	0.98 U	0.92 U	1.1 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.037 U	0.039 U	0.041 U	0.038 U	0.044 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.074 U	0.078 U	0.082 U	0.077 U	0.089 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.037 U	0.039 U	0.041 U	0.038 U	0.044 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.18 U	0.19 U	0.2 U	0.19 U	0.22 U
Methyl acetate	mg/kg											0.88 U	0.93 U	0.98 U	0.92 U	0.19 J
Methyl cyclohexane	mg/kg											0.88 U	0.93 U	0.98 U	0.92 U	1.1 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.18 U	0.19 U	0.2 U	0.19 U	0.22 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.18 U	0.19 U	0.2 U	0.19 U	0.22 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.037 U	0.039 U	0.041 U	0.038 U	0.044 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.037 U	0.039 U	0.041 U	0.038 U	0.044 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.074 U	0.078 U	0.082 U	0.077 U	0.089 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.037 U	0.039 U	0.041 U	0.038 U	0.044 U
trans-1,3-Dichloropropene	mg/kg											0.037 U	0.039 U	0.041 U	0.038 U	0.044 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.037 U	0.039 U	0.041 U	0.038 U	0.29
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	14000000	14000000	1700000000	560	560	0.074 U	0.078 U	0.082 U	0.077 U	0.089 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.18 U	0.19 U	0.2 U	0.19 U	0.22 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.074 U	0.078 U	0.082 U	0.077 U	0.089 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.11 U	0.12 U	0.12 U	0.12 U	0.13 U

Notes:
(1) Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
☐ Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)
ID - Insufficient data to develop criterion
NLL - Hazardous substance is not likely to leach under most soil conditions
NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾</i>										<i>SB7-05</i>	<i>SB7-05</i>	<i>SB8-05</i>	<i>SB8-05</i>	<i>SB8-05</i>
Sample Identification	Industrial and	Groundwater	Groundwater	Soil Volatilization	Infinite Source	Finite VSIC for	Finite VSIC for	Particulate	Direct Contact	Soil Saturation	<i>SO-17360-071105-DCR-458</i>	<i>SO-17360-071105-DCR-459</i>	<i>SO-17360-071205-DCR-471</i>	<i>SO-17360-071205-DCR-472</i>	<i>SO-17360-071205-DCR-473</i>
Sample Date	Commercial	Surface Water	Contact	to Indoor Air	Volatile Soil	5 Meter Source	2 Meter Source	Soil Inhalation	Industrial and	Concentration	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>
Sample Depth	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness		Commercial II	Screening	<i>16-18 ft BGS</i>	<i>18-20 ft BGS</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j					
<i>Units</i>															
<i>Volatile Organic Compounds</i>															
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.052 U	0.04 U	1.3 U	0.04 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.1 U	0.081 U	2.7 U	0.08 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.052 U	0.04 U	1.3 U	0.04 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.052 U	0.04 U	1.3 U	0.04 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.052 U	0.04 U	1.3 U	0.04 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.26 U	0.2 U	6.7 U	0.2 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.26 U	0.2 U	6.7 U	0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.26 U	0.2 U	6.7 U	0.2 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.1 U	0.081 U	2.7 U	0.08 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.052 U	0.04 U	1.3 U	0.04 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.052 U	0.04 U	1.3 U	0.04 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.1 U	0.081 U	2.7 U	0.08 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.1 U	0.081 U	2.7 U	0.08 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.78 U	0.61 U	20 U	0.6 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2.6 U	2 U	67 U	2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2.6 U	2 U	67 U	2 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.78 U	0.61 U	20 U	0.6 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.052 U	0.04 U	1.3 U	0.04 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.1 UJ	0.081 UJ	2.7 UJ	0.08 UJ
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.1 U	0.081 U	2.7 U	0.08 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.26 U	0.2 U	6.7 U	0.2 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.26 U	0.2 U	6.7 U	0.2 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.052 U	0.04 U	1.3 U	0.04 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.052 U	0.04 U	1.3 U	0.04 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.26 U	0.2 U	6.7 U	0.2 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.052 U	0.04 U	1.3 U	0.04 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.26 U	0.2 U	6.7 U	0.2 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000000	640	640		0.052 U	0.04 U	1.3 U	0.04 U
cis-1,3-Dichloropropene	mg/kg										0.052 U	0.04 U	0.04 U	0.04 U	0.039 U
Cyclohexane	mg/kg										1.2 U	0.97 U	32 U	0.96 U	0.94 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.052 U	0.04 U	1.3 U	0.04 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.1 U	0.081 U	2.7 U	0.08 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.052 U	0.04 U	1.3 U	0.04 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.26 U	0.2 U	6.7 U	0.2 U
Methyl acetate	mg/kg										0.14 J	0.97 U	32 U	0.96 U	0.94 U
Methyl cyclohexane	mg/kg										1.2 U	0.97 U	0.57 J	0.96 U	0.94 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.26 U	0.2 U	6.7 U	0.2 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.26 U	0.2 U	6.7 U	0.2 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.052 U	0.04 U	1.3 U	0.04 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.052 U	0.04 U	1.3 U	0.04 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.1 U	0.081 U	2.7 U	0.08 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.052 U	0.04 U	1.3 U	0.04 U
trans-1,3-Dichloropropene	mg/kg										0.052 U	0.04 U	1.3 UJ	0.04 UJ	0.039 UJ
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.38	0.045	46	1.5
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	140000000	140000000	1700000000	560	560	0.1 U	0.081 U	2.7 U	0.08 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.26 U	0.2 U	6.7 U	0.2 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.1 U	0.081 U	2.7 U	0.08 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.16 U	0.12 U	4 U	0.12 U

Notes:
(1) Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
☐ Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)
ID - Insufficient data to develop criterion
NLL - Hazardous substance is not likely to leach under most soil conditions
NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾										SB8-05	SB8-05	SB8-05	SB8-05	SB8-05		
Sample Identification	Industrial and Commercial	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source	Finite VSIC for 5 Meter Source	Finite VSIC for 2 Meter Source	Particulate Soil Inhalation	Direct Contact Industrial and Commercial II	Soil Saturation Concentration	SO-17360-071205-DCR-474	SO-17360-071205-DCR-475	SO-17360-071205-DCR-476	SO-17360-071205-DCR-477	SO-17360-071205-DCR-478		
Sample Date	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				7/12/2005	7/12/2005	7/12/2005	7/12/2005	7/12/2005		
Sample Depth											6-8 ft BGS	8-10 ft BGS	10-12 ft BGS	12-14 ft BGS	14-16 ft BGS		
Sample Type	a	b	c	d	e	f	g	h	i	j							
	Units																
Volatile Organic Compounds																	
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U	
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.078 U	0.08 U	0.3 U	0.092 U	0.08 U	
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U	
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U	
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U	
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.19 U	0.2 U	0.75 U	0.23 U	0.2 U	
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.19 U	0.2 U	0.75 U	0.23 U	0.2 U	
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.19 U	0.2 U	0.75 U	0.23 U	0.2 U	
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.078 U	0.08 U	0.3 U	0.092 U	0.08 U	
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U	
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U	
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.078 U	0.08 U	0.3 U	0.092 U	0.08 U	
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.078 U	0.08 U	0.3 U	0.092 U	0.08 U	
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.58 U	0.6 U	2.2 U	0.69 U	0.6 U	
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	1.9 U	2 U	7.5 U	2.3 U	2 U	
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	1.9 U	2 U	7.5 U	2.3 U	2 U	
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.58 U	0.6 U	2.2 U	0.69 UJ	0.6 U	
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U	
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.078 UJ	0.08 UJ	0.3 UJ	0.092 UJ	0.08 UJ	
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.078 U	0.08 U	0.3 U	0.092 U	0.08 U	
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.19 U	0.2 U	0.75 U	0.23 U	0.2 U	
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.19 U	0.2 U	0.75 U	0.23 U	0.2 U	
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U	
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U	
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.19 U	0.2 U	0.75 U	0.23 U	0.2 U	
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U	
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.19 U	0.2 U	0.75 U	0.23 U	0.2 U	
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U	
cis-1,3-Dichloropropene	mg/kg											0.039 UJ	0.04 UJ	0.15 UJ	0.046 UJ	0.04 UJ	
Cyclohexane	mg/kg											0.93 U	0.96 U	3.6 U	1.1 U	0.96 U	
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U	
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.078 U	0.08 U	0.3 U	0.092 U	0.08 U	
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U	
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.19 U	0.2 U	0.75 U	0.23 U	0.2 U	
Methyl acetate	mg/kg											0.93 U	0.96 U	4 J	1.1 U	0.96 U	
Methyl cyclohexane	mg/kg											0.93 U	0.96 U	3.6 U	1.1 U	0.96 U	
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.19 U	0.2 U	0.75 U	0.23 U	0.2 U	
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.19 U	0.2 U	0.75 U	0.23 U	0.2 U	
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U	
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U	
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.078 U	0.08 U	0.3 U	0.092 U	0.08 U	
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.039 U	0.04 U	0.15 U	0.046 U	0.04 U	
trans-1,3-Dichloropropene	mg/kg											0.039 UJ	0.04 UJ	0.15 UJ	0.046 UJ	0.04 UJ	
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.016 J	0.012 J	5.9 nd		0.1 J	0.049
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	140000000	140000000	1700000000	560	560	0.078 U	0.08 U	0.3 U	0.092 U	0.08 U	
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.19 U	0.2 U	0.75 U	0.23 U	0.2 U	
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.078 U	0.08 U	0.3 U	0.092 U	0.08 U	
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.12 U	0.12 U	0.45 U	0.14 U	0.12 U	

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)
ID - Insufficient data to develop criterion
NLL - Hazardous substance is not likely to leach under most soil conditions
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TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾</i>										<i>SB8-05</i>	<i>SB8-05</i>	<i>SB9-05</i>	<i>SB9-05</i>	<i>SB9-05</i>
Sample Identification	Industrial and	Groundwater	Groundwater	Soil Volatilization	Infinite Source	Finite VSIC for	Finite VSIC for	Particulate	Direct Contact	Soil Saturation	<i>SO-17360-071205-DCR-479</i>	<i>SO-17360-071205-DCR-480</i>	<i>SO-17360-071105-DCR-430</i>	<i>SO-17360-071105-DCR-431</i>	<i>SO-17360-071105-DCR-432</i>
Sample Date	Commercial	Surface Water	Contact	to Indoor Air	Volatile Soil	5 Meter Source	2 Meter Source	Soil Inhalation	Industrial and	Concentration	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>
Sample Depth	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness		Commercial II	Screening	<i>16-18 ft BGS</i>	<i>18-20 ft BGS</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j					
<i>Units</i>															
<i>Volatile Organic Compounds</i>															
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.048 U	0.037 U	0.038 U	0.04 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.095 U	0.074 U	0.076 U	0.08 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.048 U	0.037 U	0.038 U	0.04 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.048 U	0.037 U	0.038 U	0.04 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.048 U	0.037 U	0.038 U	0.04 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.24 U	0.18 U	0.19 U	0.2 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.24 U	0.18 U	0.19 U	0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.24 U	0.18 U	0.19 U	0.2 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.095 U	0.074 U	0.076 U	0.08 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.048 U	0.037 U	0.038 U	0.04 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.048 U	0.037 U	0.038 U	0.04 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.095 U	0.074 U	0.076 U	0.08 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.095 U	0.074 U	0.076 U	0.08 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.71 U	0.55 U	0.57 U	0.6 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500		2.4 U	1.8 U	1.9 U	2.1 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2.4 U	1.8 U	1.9 U	2.1 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.71 U	0.55 U	0.57 U	0.6 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.048 U	0.037 U	0.038 U	0.04 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.095 UJ	0.074 UJ	0.076 U	0.08 U
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.095 U	0.074 U	0.076 U	0.08 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.24 U	0.18 U	0.19 U	0.2 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.24 U	0.18 U	0.19 U	0.2 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.048 U	0.037 U	0.038 U	0.04 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.048 U	0.037 U	0.038 U	0.04 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.24 U	0.18 U	0.19 U	0.2 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.048 U	0.037 U	0.038 U	0.04 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.24 U	0.18 U	0.19 U	0.2 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.048 U	0.037 U	0.038 U	0.04 U
cis-1,3-Dichloropropene	mg/kg											0.048 UJ	0.037 UJ	0.038 U	0.04 U
Cyclohexane	mg/kg											1.1 U	0.88 U	0.91 U	1 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.048 U	0.037 U	0.038 U	0.04 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.095 U	0.074 U	0.076 U	0.08 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.048 U	0.037 U	0.038 U	0.04 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.24 U	0.18 U	0.19 U	0.2 U
Methyl acetate	mg/kg											1.1 U	0.88 U	0.91 U	1 U
Methyl cyclohexane	mg/kg											1.1 U	0.88 U	0.91 U	1 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.24 U	0.18 U	0.19 U	0.2 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.24 U	0.18 U	0.19 U	0.2 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.048 U	0.037 U	0.038 U	0.04 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.048 U	0.037 U	0.038 U	0.04 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.095 U	0.074 U	0.076 U	0.08 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.048 U	0.037 U	0.038 U	0.04 U
trans-1,3-Dichloropropene	mg/kg											0.048 UJ	0.037 UJ	0.038 U	0.04 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.17	0.063	0.099	0.04 U
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	14000000	140000000	1700000000	560	560	0.095 U	0.074 U	0.076 U	0.08 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.24 U	0.18 U	0.19 U	0.2 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.095 U	0.074 U	0.076 U	0.08 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.14 U	0.11 U	0.11 U	0.12 U

Notes:
(1) Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
☐ Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)
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GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾										SB9-05	SB9-05	SB9-05	SB9-05	SB9-05	
Sample Identification	Industrial and Commercial	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact Industrial and Commercial II	Soil Saturation Concentration Screening	SO-17360-071105-DCR-433	SO-17360-071105-DCR-434	SO-17360-071105-DCR-435	SO-17360-071105-DCR-436	SO-17360-071105-DCR-437	
Sample Date	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				7/11/2005	7/11/2005	7/11/2005	7/11/2005	7/11/2005	
Sample Depth											6-8 ft BGS	8-10 ft BGS	10-12 ft BGS	12-14 ft BGS	14-16 ft BGS	
Sample Type	a	b	c	d	e	f	g	h	i	j						
Units																
Volatile Organic Compounds																
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.039 U	0.038 U	0.039 U	0.038 U	0.037 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.078 U	0.077 U	0.078 U	0.077 U	0.074 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.039 U	0.038 U	0.039 U	0.038 U	0.037 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.039 U	0.038 U	0.039 U	0.038 U	0.037 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.039 U	0.038 U	0.039 U	0.038 U	0.037 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.2 U	0.19 U	0.2 U	0.19 U	0.18 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.2 U	0.19 U	0.2 U	0.19 U	0.18 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.2 U	0.19 U	0.2 U	0.19 U	0.18 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.078 U	0.077 U	0.078 U	0.077 U	0.074 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.039 U	0.038 U	0.039 U	0.038 U	0.037 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.039 U	0.038 U	0.039 U	0.038 U	0.037 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.078 U	0.077 U	0.078 U	0.077 U	0.074 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.078 U	0.077 U	0.078 U	0.077 U	0.074 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.59 U	0.58 U	0.59 U	0.58 U	0.55 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2 U	1.9 U	2 U	1.9 U	1.8 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2 U	1.9 U	2 U	1.9 U	1.8 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.59 U	0.58 U	0.59 U	0.58 U	0.55 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.039 U	0.038 U	0.039 U	0.038 U	0.037 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.078 U	0.077 U	0.078 U	0.077 U	0.074 U
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.078 U	0.077 U	0.078 U	0.077 U	0.074 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.2 U	0.19 U	0.2 U	0.19 U	0.18 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.2 U	0.19 U	0.2 U	0.19 U	0.18 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.039 U	0.038 U	0.039 U	0.038 U	0.037 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.039 U	0.038 U	0.039 U	0.038 U	0.037 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.2 U	0.19 U	0.2 U	0.19 U	0.18 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.039 U	0.038 U	0.039 U	0.038 U	0.037 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.2 U	0.19 U	0.2 U	0.19 U	0.18 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.039 U	0.038 U	0.039 U	0.038 U	0.037 U
cis-1,3-Dichloropropene	mg/kg											0.039 U	0.038 U	0.039 U	0.038 U	0.037 U
Cyclohexane	mg/kg											0.94 U	0.92 U	0.94 U	0.92 U	0.88 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.039 U	0.038 U	0.039 U	0.038 U	0.037 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.078 U	0.077 U	0.078 U	0.077 U	0.074 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.039 U	0.038 U	0.039 U	0.038 U	0.037 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.2 U	0.19 U	0.2 U	0.19 U	0.18 U
Methyl acetate	mg/kg											0.94 U	0.92 U	0.94 U	0.92 U	0.88 U
Methyl cyclohexane	mg/kg											0.94 U	0.92 U	0.94 U	0.92 U	0.88 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.2 U	0.19 U	0.2 U	0.19 U	0.18 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.2 U	0.19 U	0.2 U	0.19 U	0.18 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.039 U	0.038 U	0.039 U	0.038 U	0.037 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.039 U	0.038 U	0.039 U	0.038 U	0.037 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.078 U	0.077 U	0.078 U	0.077 U	0.074 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.039 U	0.038 U	0.039 U	0.038 U	0.037 U
trans-1,3-Dichloropropene	mg/kg											0.039 U	0.038 U	0.039 U	0.038 U	0.037 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.039 U	0.038 U	0.039 U	0.038 U	0.037 U
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	140000000	140000000	1700000000	560	560	0.078 U	0.077 U	0.078 U	0.077 U	0.074 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.2 U	0.19 U	0.2 U	0.19 U	0.18 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.078 U	0.077 U	0.078 U	0.077 U	0.074 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)
ID - Insufficient data to develop criterion
NLL - Hazardous substance is not likely to leach under most soil conditions
NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾</i>										<i>SB9-05</i>	<i>SB9-05</i>	<i>SB10-05</i>	<i>SB10-05</i>	<i>SB10-05</i>
Sample Identification	Industrial and	Groundwater	Groundwater	Soil Volatilization	Infinite Source	Finite VSIC for	Finite VSIC for	Particulate	Direct Contact	Soil Saturation	<i>SO-17360-071105-DCR-438</i>	<i>SO-17360-071105-DCR-439</i>	<i>SO-17360-071205-DCR-481</i>	<i>SO-17360-071205-DCR-482</i>	<i>SO-17360-071205-DCR-483</i>
Sample Date	Commercial	Surface Water	Contact	to Indoor Air	Volatile Soil	5 Meter Source	2 Meter Source	Soil Inhalation	Industrial and	Concentration	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>
Sample Depth	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness		Commercial II	Screening	<i>16-18 ft BGS</i>	<i>18-20 ft BGS</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j					
<i>Units</i>															
<i>Volatile Organic Compounds</i>															
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.038 U	0.038 U	0.037 U	0.038 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.075 U	0.076 U	0.074 U	0.082 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.038 U	0.038 U	0.037 U	0.041 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.038 U	0.038 U	0.037 U	0.041 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.038 U	0.038 U	0.037 U	0.041 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.19 U	0.19 U	0.18 U	0.21 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.19 U	0.19 U	0.18 U	0.21 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.19 U	0.19 U	0.18 U	0.21 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.075 U	0.076 U	0.074 U	0.082 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.038 U	0.038 U	0.037 U	0.041 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.038 U	0.038 U	0.037 U	0.041 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.075 U	0.076 U	0.074 U	0.082 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.075 U	0.076 U	0.074 U	0.082 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.56 U	0.57 U	0.55 U	0.62 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	1.9 U	1.9 U	1.9 U	2.1 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	1.9 U	1.9 U	1.8 U	2.1 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.56 U	0.57 U	0.55 U	0.62 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.038 U	0.038 U	0.037 U	0.041 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.075 U	0.076 U	0.074 UJ	0.082 UJ
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.075 U	0.076 U	0.074 U	0.082 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.19 U	0.19 U	0.18 U	0.21 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.19 U	0.19 U	0.18 U	0.21 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.038 U	0.038 U	0.037 U	0.041 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.038 U	0.038 U	0.037 U	0.041 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.19 U	0.19 U	0.18 U	0.21 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.038 U	0.038 U	0.037 U	0.041 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.19 U	0.19 U	0.18 U	0.21 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.038 U	0.038 U	0.037 U	0.041 U
cis-1,3-Dichloropropene	mg/kg											0.038 U	0.038 U	0.037 UJ	0.041 UJ
Cyclohexane	mg/kg											0.9 U	0.9 U	0.9 U	0.99 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.038 U	0.038 U	0.037 U	0.041 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.075 U	0.076 U	0.074 U	0.082 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.038 U	0.038 U	0.037 U	0.041 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.19 U	0.19 U	0.18 U	0.21 U
Methyl acetate	mg/kg											0.1 J	0.91 U	0.076 J	0.99 U
Methyl cyclohexane	mg/kg											0.9 U	0.91 U	0.031 J	0.99 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.19 U	0.19 U	0.18 U	0.21 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.19 U	0.19 U	0.18 U	0.21 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.038 U	0.038 U	0.037 U	0.041 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.038 U	0.038 U	0.037 U	0.041 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.075 U	0.076 U	0.012 J	0.082 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.038 U	0.038 U	0.037 U	0.041 U
trans-1,3-Dichloropropene	mg/kg											0.038 U	0.038 U	0.037 UJ	0.041 UJ
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.038 U	0.038 U	0.54	0.041 U
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	14000000	140000000	1700000000	560	560	0.075 U	0.076 U	0.074 U	0.082 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.19 U	0.19 U	0.18 U	0.21 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.075 U	0.076 U	0.074 U	0.082 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.11 U	0.11 U	0.027 J	0.12 U

Notes:
(1) Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)
ID - Insufficient data to develop criterion
NLL - Hazardous substance is not likely to leach under most soil conditions
NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾</i>										<i>SB10-05</i>	<i>SB10-05</i>	<i>SB10-05</i>	<i>SB10-05</i>	<i>SB10-05</i>
Sample Identification	Industrial and	Groundwater	Groundwater	Soil Volatilization	Infinite Source	Finite VSIC for	Finite VSIC for	Particulate	Direct Contact	Soil Saturation	<i>SO-17360-071205-DCR-484</i>	<i>SO-17360-071205-DCR-485</i>	<i>SO-17360-071205-DCR-486</i>	<i>SO-17360-071205-DCR-487</i>	<i>SO-17360-071205-DCR-488</i>
Sample Date	Commercial	Surface Water	Contact	to Indoor Air	Volatile Soil	5 Meter Source	2 Meter Source	Soil Inhalation	Industrial and	Concentration	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>
Sample Depth	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness		Commercial II	Screening	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j					
<i>Units</i>															
<i>Volatile Organic Compounds</i>															
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.038 U	0.038 U	0.041 U	0.04 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.076 U	0.076 U	0.082 U	0.08 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.038 U	0.038 U	0.041 U	0.04 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.038 U	0.038 U	0.041 U	0.04 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.038 U	0.038 U	0.041 U	0.04 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.19 U	0.19 U	0.2 U	0.2 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.19 U	0.19 U	0.2 U	0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.19 U	0.19 U	0.2 U	0.2 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.076 U	0.076 U	0.082 U	0.08 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.038 U	0.038 U	0.041 U	0.04 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.038 U	0.038 U	0.041 U	0.04 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.076 U	0.076 U	0.082 U	0.08 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.076 U	0.076 U	0.082 U	0.08 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.57 U	0.57 U	0.61 U	0.6 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	1.9 U	1.9 U	2 U	2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	1.9 U	1.9 U	2 U	2 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.57 U	0.57 U	0.61 U	0.6 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.038 U	0.038 U	0.041 U	0.04 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.076 UJ	0.076 UJ	0.082 UJ	0.08 UJ
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.076 U	0.076 U	0.082 U	0.08 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.19 U	0.19 U	0.2 U	0.2 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.19 U	0.19 U	0.2 U	0.2 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.038 U	0.038 U	0.041 U	0.04 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.038 U	0.038 U	0.041 U	0.04 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.19 U	0.19 U	0.2 U	0.2 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.038 U	0.038 U	0.041 U	0.04 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.19 U	0.19 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.038 U	0.038 U	0.041 U	0.04 U
cis-1,3-Dichloropropene	mg/kg											0.038 UJ	0.038 UJ	0.041 UJ	0.04 UJ
Cyclohexane	mg/kg											0.91 U	0.91 U	0.98 U	0.96 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.038 U	0.038 U	0.041 U	0.04 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.076 U	0.076 U	0.082 U	0.08 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.038 U	0.038 U	0.041 U	0.04 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.19 U	0.19 U	0.2 U	0.2 U
Methyl acetate	mg/kg											0.91 U	0.91 U	0.98 U	0.96 U
Methyl cyclohexane	mg/kg											0.91 U	0.91 U	0.98 U	0.96 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.19 U	0.19 U	0.2 U	0.2 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.19 U	0.19 U	0.2 U	0.2 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.038 U	0.038 U	0.041 U	0.04 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.038 U	0.038 U	0.041 U	0.04 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.076 U	0.076 U	0.082 U	0.08 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.038 U	0.038 U	0.041 U	0.04 U
trans-1,3-Dichloropropene	mg/kg											0.038 UJ	0.038 UJ	0.041 UJ	0.04 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.038 U	0.038 U	0.029 J	0.03 J
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	14000000	140000000	1700000000	560	560	0.076 U	0.076 U	0.082 U	0.08 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.19 U	0.19 U	0.2 U	0.2 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.076 U	0.076 U	0.082 U	0.08 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.11 U	0.11 U	0.12 U	0.12 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)
ID - Insufficient data to develop criterion
NLL - Hazardous substance is not likely to leach under most soil conditions
NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾										SB10-05	SB10-05	SB11-05	SB11-05	SB11-05	
Sample Identification	Industrial and Commercial	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation	Direct Contact Industrial and Commercial II	Soil Saturation Concentration Screening	SO-17360-071205-DCR-489 7/12/2005 16-18 ft BGS	SO-17360-071205-DCR-490 7/12/2005 18-20 ft BGS	SO-17360-071205-DCR-491 7/12/2005 0-2 ft BGS	SO-17360-071205-DCR-492 7/12/2005 2-4 ft BGS	SO-17360-071205-DCR-493 7/12/2005 4-6 ft BGS	
Sample Date	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness	Soil Inhalation	Industrial and Commercial II	Concentration Screening						
Sample Depth	a	b	c	d	e	f	g	h	i	j						
Sample Type	Units															
Volatile Organic Compounds																
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.04 U	0.041 U	0.04 U	0.038 U	0.039 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.079 U	0.082 U	0.08 U	0.076 U	0.078 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.04 U	0.041 U	0.04 U	0.038 U	0.039 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.04 U	0.041 U	0.04 U	0.038 U	0.039 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.04 U	0.041 U	0.04 U	0.038 U	0.039 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.2 U	0.21 U	0.2 U	0.19 U	0.19 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.2 U	0.21 U	0.2 U	0.19 U	0.19 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.2 U	0.21 U	0.2 U	0.19 U	0.19 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.079 U	0.082 U	0.08 U	0.076 U	0.078 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.04 U	0.041 U	0.04 U	0.038 U	0.039 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.04 U	0.041 U	0.04 U	0.038 U	0.039 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.079 U	0.082 U	0.08 U	0.076 U	0.078 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.079 U	0.082 U	0.08 U	0.076 U	0.078 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.59 U	0.62 U	0.6 U	0.57 U	0.58 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2 U	2.1 U	2 U	1.9 U	1.9 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2 U	2.1 U	2 U	1.9 U	1.9 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.59 U	0.62 U	0.6 U	0.57 U	0.58 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.04 U	0.041 U	0.04 U	0.038 U	0.039 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.079 UJ	0.082 UJ	0.08 UJ	0.076 UJ	0.078 UJ
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.079 U	0.082 U	0.08 U	0.076 U	0.078 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.2 U	0.21 U	0.2 U	0.19 U	0.19 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.2 U	0.21 U	0.2 U	0.19 U	0.19 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.04 U	0.041 U	0.04 U	0.038 U	0.039 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.04 U	0.041 U	0.04 U	0.038 U	0.039 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.2 U	0.21 U	0.2 U	0.19 U	0.19 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.04 U	0.041 U	0.04 U	0.038 U	0.039 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.2 U	0.21 U	0.2 U	0.19 U	0.19 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.04 U	0.041 U	0.04 U	0.038 U	0.039 U
cis-1,3-Dichloropropene	mg/kg											0.04 UJ	0.041 UJ	0.04 UJ	0.038 UJ	0.039 UJ
Cyclohexane	mg/kg											0.95 U	0.99 U	0.96 U	0.91 U	0.93 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.04 U	0.041 U	0.04 U	0.038 U	0.039 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.079 U	0.082 U	0.08 U	0.076 U	0.078 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.04 U	0.041 U	0.04 U	0.038 U	0.039 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.2 U	0.21 U	0.2 U	0.19 U	0.19 U
Methyl acetate	mg/kg											0.95 U	0.99 U	0.96 U	0.91 U	0.93 U
Methyl cyclohexane	mg/kg											0.95 U	0.99 U	0.0063 J	0.91 U	0.93 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.2 U	0.21 U	0.2 U	0.19 U	0.19 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.2 U	0.21 U	0.2 U	0.19 U	0.19 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.04 U	0.041 U	0.04 U	0.038 U	0.039 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.04 U	0.041 U	0.04 U	0.038 U	0.039 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.079 U	0.082 U	0.08 U	0.076 U	0.078 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.04 U	0.041 U	0.04 U	0.038 U	0.039 U
trans-1,3-Dichloropropene	mg/kg											0.04 U	0.041 U	0.04 U	0.038 U	0.039 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.021 J	0.041 U	0.076	0.038 U	0.039 U
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	140000000	140000000	1700000000	560	560	0.079 U	0.082 U	0.08 U	0.076 U	0.078 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.2 U	0.21 U	0.2 U	0.19 U	0.19 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.079 U	0.082 U	0.08 U	0.076 U	0.078 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.12 U	0.12 U	0.12 U	0.11 U	0.12 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.

Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)

ID - Insufficient data to develop criterion

NLL - Hazardous substance is not likely to leach under most soil conditions

NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾</i>										<i>SB11-05</i> <i>SO-17360-071205-DCR-494</i> <i>7/12/2005</i> <i>6-8 ft BGS</i>	<i>SB11-05</i> <i>SO-17360-071205-DCR-495</i> <i>7/12/2005</i> <i>8-10 ft BGS</i>	<i>SB11-05</i> <i>SO-17360-071205-DCR-496</i> <i>7/12/2005</i> <i>10-12 ft BGS</i>	<i>SB11-05</i> <i>SO-17360-071205-DCR-497</i> <i>7/12/2005</i> <i>12-14 ft BGS</i>	<i>SB11-05</i> <i>SO-17360-071205-DCR-498</i> <i>7/12/2005</i> <i>14-16 ft BGS</i>
Sample Identification	Industrial and	Groundwater	Groundwater	Soil Volatilization	Infinite Source	Finite VSIC for	Finite VSIC for	Particulate	Direct Contact	Soil Saturation					
Sample Date	Commercial	Surface Water	Contact	to Indoor Air	Volatile Soil	5 Meter Source	2 Meter Source	Soil Inhalation	Industrial and	Concentration					
Sample Depth	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness		Commercial II	Screening					
Sample Type	a	b	c	d	e	f	g	h	i	j					
<i>Units</i>															
<i>Volatile Organic Compounds</i>															
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.04 U	0.04 U	1.9 U	0.039 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.079 U	0.08 U	3.7 U	0.078 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.04 U	0.04 U	1.9 U	0.039 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.04 U	0.04 U	1.9 U	0.039 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.04 U	0.04 U	1.9 U	0.039 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.2 U	0.2 U	9.3 U	0.2 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.2 U	0.2 U	9.3 U	0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.2 U	0.2 U	9.3 U	0.2 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.079 U	0.08 U	3.7 U	0.078 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.04 U	0.04 U	1.9 U	0.039 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.04 U	0.04 U	1.9 U	0.039 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.079 U	0.08 U	3.7 U	0.078 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.079 U	0.08 U	3.7 U	0.078 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.59 U	0.6 U	28 U	0.59 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2 U	2 U	93 U	2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2 U	2 U	93 U	2 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.59 U	0.6 U	28 U	0.59 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.04 U	0.04 U	1.9 U	0.039 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.079 UJ	0.08 UJ	3.7 UJ	0.078 UJ
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.079 U	0.08 U	3.7 U	0.078 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.2 U	0.2 U	9.3 U	0.2 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.2 U	0.2 U	9.3 U	0.2 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.04 U	0.04 U	1.9 U	0.039 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.04 U	0.04 U	1.9 U	0.039 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.2 U	0.2 U	9.3 U	0.2 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.04 U	0.04 U	1.9 U	0.039 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.2 U	0.2 U	9.3 U	0.2 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.04 U	0.04 U	1.9 U	0.039 U
cis-1,3-Dichloropropene	mg/kg											0.04 UJ	0.04 UJ	1.9 UJ	0.039 UJ
Cyclohexane	mg/kg											0.95 U	0.96 U	45 U	0.94 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.04 U	0.04 U	1.9 U	0.039 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.079 U	0.08 U	3.7 U	0.078 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.04 U	0.04 U	1.9 U	0.039 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.2 U	0.2 U	9.3 U	0.2 U
Methyl acetate	mg/kg											0.95 U	0.96 U	100	3.6
Methyl cyclohexane	mg/kg											0.95 U	0.96 U	45 U	0.94 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.2 U	0.2 U	9.3 U	0.2 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.2 U	0.2 U	9.3 U	0.2 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.04 U	0.04 U	1.9 U	0.039 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.04 U	0.04 U	1.9 U	0.039 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.079 U	0.08 U	3.7 U	0.078 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.04 U	0.04 U	1.9 U	0.039 U
trans-1,3-Dichloropropene	mg/kg											0.04 U	0.04 U	1.9 U	0.039 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.04 U	0.04 U	1.9 U	0.027 J
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	14000000	140000000	1700000000	560	560	0.079 U	0.08 U	3.7 U	0.078 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.2 U	0.2 U	9.3 U	0.2 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.079 U	0.08 U	3.7 U	0.078 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.12 U	0.12 U	5.6 U	0.12 U

Notes:

⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.

U - Not present at or above the associated value.

J - Estimated concentration.

UJ - Estimated reporting limit.

Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)

ID - Insufficient data to develop criterion

NLL - Hazardous substance is not likely to leach under most soil conditions

NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾</i>										<i>SB11-05</i> <i>SO-17360-071205-DCR-499</i> <i>7/12/2005</i> <i>16-18 ft BGS</i>	<i>SB11-05</i> <i>SO-17360-071205-DCR-500</i> <i>7/12/2005</i> <i>18-20 ft BGS</i>	<i>SB12-05</i> <i>SO-17360-071105-DCR-440</i> <i>7/11/2005</i> <i>0-2 ft BGS</i>	<i>SB12-05</i> <i>SO-17360-071105-DCR-441</i> <i>7/11/2005</i> <i>2-4 ft BGS</i>	<i>SB12-05</i> <i>SO-17360-071105-DCR-442</i> <i>7/11/2005</i> <i>4-6 ft BGS</i>
Sample Identification	Industrial and	Groundwater	Groundwater	Soil Volatilization	Infinite Source	Finite VSIC for	Finite VSIC for	Particulate	Direct Contact	Soil Saturation					
Sample Date	Commercial	Surface Water	Contact	to Indoor Air	Volatile Soil	5 Meter Source	2 Meter Source	Soil Inhalation	Industrial and	Concentration					
Sample Depth	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness		Commercial II	Screening					
Sample Type	a	b	c	d	e	f	g	h	i	j					
<i>Units</i>															
<i>Volatile Organic Compounds</i>															
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	1 U	0.24 U	0.041 U	0.16 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	2 U	0.48 U	0.082 U	0.32 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	1 U	0.24 U	0.041 U	0.16 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	1 U	0.24 U	0.041 U	0.16 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	1 U	0.24 U	0.041 U	0.16 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	5 U	1.2 U	0.21 U	0.8 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	5 U	1.2 U	0.21 U	0.8 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	5 U	1.2 U	0.21 U	0.8 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	2 U	0.48 U	0.082 U	0.32 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	1 U	0.24 U	0.041 U	0.16 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	1 U	0.24 U	0.041 U	0.16 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	2 U	0.48 U	0.082 U	0.32 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		2 U	0.48 U	0.082 U	0.32 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	15 U	3.6 U	0.62 U	2.4 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500		50 U	12 U	2.1 U	8 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	50 U	12 U	2.1 U	8 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	15 U	3.6 U	0.62 U	2.4 U
Benzene	mg/kg	0.1		220	8.4	45	99	230	470000	400	400	1 U	0.24 U	0.0087 J	0.073 J
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	2 UJ	0.48 UJ	0.082 U	0.32 UJ
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	2 U	0.48 U	0.082 U	0.32 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	5 U	1.2 U	0.21 U	0.8 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	5 U	1.2 U	0.21 U	0.8 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	1 U	0.24 U	0.041 U	0.16 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	1 U	0.24 U	0.041 U	0.16 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	5 U	1.2 U	0.21 U	0.8 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	1 U	0.24 U	0.041 U	0.16 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	5 U	1.2 U	0.21 U	0.8 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	1 U	0.24 U	0.041 U	0.16 U
cis-1,3-Dichloropropene	mg/kg											1 UJ	0.24 UJ	0.041 U	0.16 U
Cyclohexane	mg/kg											24 U	5.8 U	0.061 J	0.3 J
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	1 U	0.24 U	0.041 UJ	0.16 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	2 U	0.48 U	0.082 U	0.32 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	1 U	0.24 U	0.022 J	0.13 J
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	5 U	1.2 U	0.025 J	0.12 J
Methyl acetate	mg/kg											49	25	0.99 U	3.8 U
Methyl cyclohexane	mg/kg											24 U	5.8 U	0.22 J	0.88 J
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	5 U	1.2 U	0.21 U	0.8 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	5 U	1.2 U	0.21 U	0.8 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	1 U	0.24 U	0.041 U	0.16 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	1 U	0.24 U	0.041 U	0.16 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	2 U	0.48 U	0.076 J	0.49
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	1 U	0.24 U	0.041 U	0.16 U
trans-1,3-Dichloropropene	mg/kg											1 U	0.24 U	0.041 U	0.16 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	1 U	0.24 U		
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	140000000	140000000	1700000000	560	560	2 U	0.48 U		
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	5 U	1.2 U		
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	2 U	0.48 U		
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	3 U	0.73 U		

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)
ID - Insufficient data to develop criterion
NLL - Hazardous substance is not likely to leach under most soil conditions
NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾										SB12-05	SB12-05	SB12-05	SB12-05	SB12-05	
Sample Identification	Industrial and Commercial	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source	Finite VSIC for 5 Meter Source	Finite VSIC for 2 Meter Source	Particulate Soil Inhalation	Direct Contact Industrial and Commercial II	Soil Saturation Concentration Screening	SO-17360-071105-DCR-443	SO-17360-071105-DCR-444	SO-17360-071105-DCR-445	SO-17360-071105-DCR-446	SO-17360-071105-DCR-447	
Sample Date	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				7/11/2005	7/11/2005	7/11/2005	7/11/2005	7/11/2005	
Sample Depth											6-8 ft BGS	8-10 ft BGS	10-12 ft BGS	12-14 ft BGS	14-16 ft BGS	
Sample Type	a	b	c	d	e	f	g	h	i	j						
Units																
Volatile Organic Compounds																
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.039 U	0.04 U	0.039 U	0.038 U	0.04 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.078 U	0.08 U	0.078 U	0.076 U	0.079 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.039 U	0.04 U	0.039 U	0.038 U	0.04 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.039 U	0.04 U	0.039 U	0.038 U	0.04 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.039 U	0.04 U	0.039 U	0.038 U	0.04 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.078 U	0.08 U	0.078 U	0.076 U	0.079 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.039 U	0.04 U	0.039 U	0.038 U	0.04 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.039 U	0.04 U	0.039 U	0.038 U	0.04 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.078 U	0.08 U	0.078 U	0.076 U	0.079 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.078 U	0.08 U	0.078 U	0.076 U	0.079 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.59 U	0.6 U	0.59 U	0.57 U	0.59 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2 U	2 U	2 U	1.9 U	2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2 U	2 U	2 U	1.9 U	2 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.59 U	0.6 U	0.59 U	0.57 U	0.59 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.039 U	0.04 U	0.039 U	0.038 U	0.04 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.078 U	0.08 U	0.078 U	0.076 U	0.079 U
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.078 U	0.08 U	0.078 U	0.076 U	0.079 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.039 U	0.04 U	0.039 U	0.038 U	0.04 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.039 U	0.04 U	0.039 U	0.038 U	0.04 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.039 U	0.04 U	0.039 U	0.038 U	0.04 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.039 U	0.04 U	0.039 U	0.038 U	0.04 U
cis-1,3-Dichloropropene	mg/kg											0.039 U	0.04 U	0.039 U	0.038 U	0.04 U
Cyclohexane	mg/kg											0.94 U	0.96 U	0.94 U	0.91 U	0.95 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.039 U	0.04 U	0.039 U	0.038 U	0.04 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.078 U	0.08 U	0.078 U	0.076 U	0.079 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.039 U	0.04 U	0.039 U	0.038 U	0.04 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U
Methyl acetate	mg/kg											0.94 U	0.96 U	0.94 U	0.91 U	0.36 J
Methyl cyclohexane	mg/kg											0.94 U	0.96 U	0.94 U	0.91 U	0.015 J
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.039 U	0.04 U	0.039 U	0.038 U	0.04 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.039 U	0.04 U	0.039 U	0.038 U	0.04 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.078 U	0.08 U	0.078 U	0.076 U	0.0098 J
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.039 U	0.04 U	0.039 U	0.038 U	0.04 U
trans-1,3-Dichloropropene	mg/kg											0.039 U	0.04 U	0.039 U	0.038 U	0.04 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.039 U	0.04 U	0.039 U	0.013 J	0.14*
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	140000000	140000000	1700000000	560	560	0.078 U	0.08 U	0.078 U	0.076 U	0.079 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.078 U	0.08 U	0.078 U	0.076 U	0.079 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.12 U	0.12 U	0.12 U	0.11 U	0.016 J

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
☐ Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)
ID - Insufficient data to develop criterion
NLL - Hazardous substance is not likely to leach under most soil conditions
NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾</i>										<i>SB12-05</i>	<i>SB12-05</i>	<i>SB13-05</i>	<i>SB13-05</i>	<i>SB13-05</i>
Sample Identification	Industrial and	Groundwater	Groundwater	Soil Volatilization	Infinite Source	Finite VSIC for	Finite VSIC for	Particulate	Direct Contact	Soil Saturation	<i>SO-17360-071105-DCR-448</i>	<i>SO-17360-071105-DCR-449</i>	<i>SO-17360-071105-DCR-409</i>	<i>SO-17360-071105-DCR-410</i>	<i>SO-17360-071105-DCR-411</i>
Sample Date	Commercial	Surface Water	Contact	to Indoor Air	Volatile Soil	5 Meter Source	2 Meter Source	Soil Inhalation	Industrial and	Concentration	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>
Sample Depth	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness		Commercial II	Screening	<i>16-18 ft BGS</i>	<i>18-20 ft BGS</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j					
<i>Units</i>															
<i>Volatile Organic Compounds</i>															
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.037 U	0.038 U	0.037 U	0.039 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.074 U	0.076 U	0.074 U	0.074 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.037 U	0.038 U	0.037 U	0.039 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.037 U	0.038 U	0.037 U	0.039 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.037 U	0.038 U	0.037 U	0.039 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.18 U	0.19 U	0.18 U	0.19 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.18 U	0.19 U	0.18 U	0.19 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.18 U	0.19 U	0.18 U	0.19 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.074 U	0.076 U	0.074 U	0.078 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.037 U	0.038 U	0.037 U	0.039 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.037 U	0.038 U	0.037 U	0.039 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.074 U	0.076 U	0.074 U	0.078 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.074 U	0.076 U	0.074 U	0.078 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.55 U	0.57 U	0.55 U	0.59 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	1.8 U	1.9 U	1.8 U	1.9 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	1.8 U	1.9 U	1.8 U	1.9 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.55 U	0.57 U	0.55 U	0.59 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.037 U	0.038 U	0.037 U	0.039 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.074 UJ	0.076 UJ	0.074 UJ	0.078 UJ
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.074 U	0.076 U	0.074 U	0.078 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.18 U	0.19 U	0.18 U	0.19 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.18 U	0.19 U	0.18 U	0.19 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.037 U	0.038 U	0.037 U	0.039 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.037 U	0.038 U	0.037 U	0.039 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.18 U	0.19 U	0.18 U	0.19 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.037 U	0.038 U	0.037 U	0.039 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.18 U	0.19 U	0.18 U	0.19 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.037 U	0.038 U	0.037 U	0.039 U
cis-1,3-Dichloropropene	mg/kg											0.037 U	0.038 U	0.037 U	0.039 U
Cyclohexane	mg/kg											0.88 U	0.91 U	0.88 U	0.89 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.037 U	0.038 U	0.037 U	0.039 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.074 U	0.076 U	0.074 U	0.078 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.037 U	0.038 U	0.018 J	0.039 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.18 U	0.19 U	0.019 J	0.19 U
Methyl acetate	mg/kg											0.88 U	0.91 U	0.88 U	0.94 U
Methyl cyclohexane	mg/kg											0.88 U	0.91 U	0.16 J	0.94 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.18 U	0.19 U	0.18 U	0.19 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.18 U	0.19 U	0.18 U	0.19 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.037 U	0.038 U	0.037 U	0.039 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.037 U	0.038 U	0.037 U	0.039 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.074 U	0.076 U	0.04 J	0.078 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.037 U	0.038 U	0.037 U	0.039 U
trans-1,3-Dichloropropene	mg/kg											0.037 U	0.038 U	0.037 UJ	0.039 UJ
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.012 J	0.038 U	1.5	
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	140000000	140000000	1700000000	560	560	0.074 U	0.076 U	0.074 U	0.078 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.18 U	0.19 U	0.18 U	0.19 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.074 U	0.076 U	0.074 U	0.078 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.11 U	0.11 U	0.16	0.12 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
☐ - Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)
ID - Insufficient data to develop criterion
NLL - Hazardous substance is not likely to leach under most soil conditions
NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾</i>										<i>SB13-05</i>	<i>SB13-05</i>	<i>SB13-05</i>	<i>SB13-05</i>	<i>SB13-05</i>
Sample Identification	Industrial and	Groundwater	Groundwater	Soil Volatilization	Infinite Source	Finite VSIC for	Finite VSIC for	Particulate	Direct Contact	Soil Saturation	<i>SO-17360-071105-DCR-412</i>	<i>SO-17360-071105-DCR-413</i>	<i>SO-17360-071105-DCR-414</i>	<i>SO-17360-071105-DCR-415</i>	<i>SO-17360-071105-DCR-416</i>
Sample Date	Commercial	Surface Water	Contact	to Indoor Air	Volatile Soil	5 Meter Source	2 Meter Source	Soil Inhalation	Industrial and	Concentration	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>	<i>7/11/2005</i>
Sample Depth	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness		Commercial II	Screening	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j					
<i>Units</i>															
<i>Volatile Organic Compounds</i>															
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.04 U	0.04 U	0.039 U	0.04 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.08 U	0.08 U	0.078 U	0.079 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.04 U	0.04 U	0.039 U	0.04 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.04 U	0.04 U	0.039 U	0.04 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.04 U	0.04 U	0.039 U	0.04 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.2 U	0.2 U	0.19 U	0.2 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.2 U	0.2 U	0.19 U	0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.2 U	0.2 U	0.19 U	0.2 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.08 U	0.08 U	0.078 U	0.079 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.04 U	0.04 U	0.039 U	0.04 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.04 U	0.04 U	0.039 U	0.04 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.08 U	0.08 U	0.078 U	0.079 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.08 U	0.08 U	0.078 U	0.079 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.6 U	0.6 U	0.58 U	0.59 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500		2 U	2 U	1.9 U	2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2 U	2 U	1.9 U	2 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.6 U	0.6 U	0.58 U	0.59 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.04 U	0.04 U	0.039 U	0.04 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.08 UJ	0.08 UJ	0.078 UJ	0.079 UJ
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.08 U	0.08 U	0.078 U	0.079 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.2 U	0.2 U	0.19 U	0.2 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.2 U	0.2 U	0.19 U	0.2 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.04 U	0.04 U	0.039 U	0.04 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.04 U	0.04 U	0.039 U	0.04 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.2 U	0.2 U	0.19 U	0.2 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.04 U	0.04 U	0.039 U	0.04 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.2 U	0.2 U	0.19 U	0.2 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.04 U	0.04 U	0.039 U	0.04 U
cis-1,3-Dichloropropene	mg/kg											0.04 U	0.04 U	0.039 U	0.04 U
Cyclohexane	mg/kg											0.96 U	0.96 U	0.93 U	0.95 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.04 U	0.04 U	0.039 U	0.04 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.08 U	0.08 U	0.078 U	0.079 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.04 U	0.04 U	0.039 U	0.04 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.2 U	0.2 U	0.19 U	0.2 U
Methyl acetate	mg/kg											0.96 U	0.96 U	0.071 J	0.95 U
Methyl cyclohexane	mg/kg											0.96 U	0.96 U	0.93 U	0.95 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.2 U	0.2 U	0.19 U	0.2 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.2 U	0.2 U	0.19 U	0.2 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.04 U	0.04 U	0.039 U	0.04 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.04 U	0.04 U	0.039 U	0.04 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.08 U	0.08 U	0.078 U	0.079 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.04 U	0.04 U	0.039 U	0.04 U
trans-1,3-Dichloropropene	mg/kg											0.04 UJ	0.04 UJ	0.039 UJ	0.04 UJ
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.04 U	0.04 U	0.012 J	0.04 U
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	14000000	14000000	1700000000	560	560	0.08 U	0.08 U	0.078 U	0.079 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.2 U	0.2 U	0.19 U	0.2 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.08 U	0.08 U	0.078 U	0.079 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.12 U	0.12 U	0.12 U	0.12 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)
ID - Insufficient data to develop criterion
NLL - Hazardous substance is not likely to leach under most soil conditions
NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾										SB13-05	SB13-05	SB14-05	SB14-05	SB14-05	
Sample Identification	Industrial and Commercial	Groundwater Surface Water	Groundwater Contact	Soil Volatilization to Indoor Air	Infinite Source	Finite VSIC for 5 Meter Source	Finite VSIC for 2 Meter Source	Particulate Soil Inhalation	Direct Contact Industrial and Commercial II	Soil Saturation Concentration	SO-17360-071105-DCR-417	SO-17360-071105-DCR-418	SO-17360-071205-DCR-460	SO-17360-071205-DCR-461	SO-17360-071205-DCR-462	
Sample Date	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness				7/11/2005	7/11/2005	7/12/2005	7/12/2005	7/12/2005	
Sample Depth											16-18 ft BGS	18-20 ft BGS	0-2 ft BGS	2-4 ft BGS	4-6 ft BGS	
Sample Type	a	b	c	d	e	f	g	h	i	j						
Units																
Volatile Organic Compounds																
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.04 U	0.04 U	0.04 U	0.048 U	0.042 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.079 U	0.08 U	0.08 U	0.095 U	0.084 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.04 U	0.04 U	0.04 U	0.048 U	0.042 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.04 U	0.04 U	0.04 U	0.048 U	0.042 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.04 U	0.04 U	0.04 U	0.048 U	0.042 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.2 U	0.2 U	0.2 U	0.24 U	0.21 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.2 U	0.2 U	0.2 U	0.24 U	0.21 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.2 U	0.2 U	0.2 U	0.24 U	0.21 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.079 U	0.08 U	0.08 U	0.095 U	0.084 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.04 U	0.04 U	0.04 U	0.048 U	0.042 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.04 U	0.04 U	0.04 U	0.048 U	0.042 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.079 U	0.08 U	0.08 U	0.095 U	0.084 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.079 U	0.08 U	0.08 U	0.095 U	0.084 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.59 U	0.6 U	0.6 U	0.71 U	0.63 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2 U	2 U	2 U	2.4 U	2.1 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2 U	2 U	2 U	2.4 U	2.1 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.59 U	0.6 U	0.6 U	0.71 U	0.63 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.04 U	0.04 U	0.04 U	0.048 U	0.042 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.079 UJ	0.08 UJ	0.08 UJ	0.095 UJ	0.084 UJ
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.079 U	0.08 U	0.08 U	0.095 U	0.084 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.2 U	0.2 U	0.2 U	0.24 U	0.21 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.2 U	0.2 U	0.2 U	0.24 U	0.21 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.04 U	0.04 U	0.04 U	0.048 U	0.042 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.04 U	0.04 U	0.04 U	0.048 U	0.042 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.2 U	0.2 U	0.2 U	0.24 U	0.21 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.04 U	0.04 U	0.04 U	0.048 U	0.042 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.2 U	0.2 U	0.2 U	0.24 U	0.21 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.04 U	0.04 U	0.04 U	0.048 U	0.042 U
cis-1,3-Dichloropropene	mg/kg										0.04 U	0.04 U	0.04 U	0.048 U	0.042 U	
Cyclohexane	mg/kg										0.013 J	0.96 U	0.0079 J	1.1 U	1 U	
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.04 U	0.04 U	0.04 U	0.048 U	0.042 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.079 U	0.08 U	0.08 U	0.095 U	0.084 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.04 U	0.04 U	0.04 U	0.048 U	0.042 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.2 U	0.2 U	0.2 U	0.24 U	0.21 U
Methyl acetate	mg/kg										0.44 J	0.96 U	0.96 U	1.1 U	1 U	
Methyl cyclohexane	mg/kg										0.037 J	0.96 U	0.024 J	1.1 U	1 U	
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.2 U	0.2 U	0.2 U	0.24 U	0.21 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.2 U	0.2 U	0.2 U	0.24 U	0.21 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.04 U	0.04 U	0.04 U	0.048 U	0.042 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.04 U	0.04 U	0.04 U	0.048 U	0.042 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.019 J	0.08 U	0.08 U	0.095 U	0.084 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.04 U	0.04 U	0.04 U	0.048 U	0.042 U
trans-1,3-Dichloropropene	mg/kg										0.04 UJ	0.04 UJ	0.04 U	0.048 U	0.042 U	
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.44*	0.04 U	0.82*	0.048 U	0.042 U
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	140000000	140000000	1700000000	560	560	0.079 U	0.08 U	0.08 U	0.095 U	0.084 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.2 U	0.2 U	0.2 U	0.24 U	0.21 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.079 U	0.08 U	0.08 U	0.095 U	0.084 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.036 J	0.12 U	0.021 J	0.14 U	0.13 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
☐ Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)
ID - Insufficient data to develop criterion
NLL - Hazardous substance is not likely to leach under most soil conditions
NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾										SB14-05	SB14-05	SB14-05	SB14-05	SB14-05	
Sample Identification	Industrial and	Groundwater	Groundwater	Soil Volatilization	Infinite Source	Finite VSIC for	Finite VSIC for	Particulate	Direct Contact	Soil Saturation	SO-17360-071205-DCR-463	SO-17360-071205-DCR-464	SO-17360-071205-DCR-465	SO-17360-071205-DCR-466	SO-17360-071205-DCR-467	
Sample Date	Commercial	Surface Water	Contact	to Indoor Air	Volatile Soil	5 Meter Source	2 Meter Source	Soil Inhalation	Industrial and	Concentration	7/12/2005	7/12/2005	7/12/2005	7/12/2005	7/12/2005	
Sample Depth	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness		Commercial II	Screening	6-8 ft BGS	8-10 ft BGS	10-12 ft BGS	12-14 ft BGS	14-16 ft BGS	
Sample Type	a	b	c	d	e	f	g	h	i	j						
	Units															
Volatile Organic Compounds																
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.04 U	0.04 U	0.042 U	0.038 U	0.037 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.079 U	0.079 U	0.085 U	0.076 U	0.074 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.04 U	0.04 U	0.042 U	0.038 U	0.037 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.04 U	0.04 U	0.042 U	0.038 U	0.037 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.04 U	0.04 U	0.042 U	0.038 U	0.037 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.2 U	0.2 U	0.21 U	0.19 U	0.19 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.2 U	0.2 U	0.21 U	0.19 U	0.19 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.2 U	0.2 U	0.21 U	0.19 U	0.19 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.079 U	0.079 U	0.085 U	0.076 U	0.074 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.04 U	0.04 U	0.042 U	0.038 U	0.037 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.04 U	0.04 U	0.042 U	0.038 U	0.037 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.079 U	0.079 U	0.085 U	0.076 U	0.074 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.079 U	0.079 U	0.085 U	0.076 U	0.074 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.59 U	0.59 U	0.64 U	0.57 U	0.56 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2 U	2 U	2.1 U	1.9 U	1.9 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2 U	2 U	2.1 U	1.9 U	1.9 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.59 U	0.59 U	0.64 U	0.57 U	0.56 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.04 U	0.04 U	0.042 U	0.038 U	0.037 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.079 UJ	0.079 UJ	0.085 UJ	0.076 UJ	0.074 UJ
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.079 U	0.079 U	0.085 U	0.076 U	0.074 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.2 U	0.2 U	0.21 U	0.19 U	0.19 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.2 U	0.2 U	0.21 U	0.19 U	0.19 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.04 U	0.04 U	0.042 U	0.038 U	0.037 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.04 U	0.04 U	0.042 U	0.038 U	0.037 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.2 U	0.2 U	0.21 U	0.19 U	0.19 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.04 U	0.04 U	0.042 U	0.038 U	0.037 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.2 U	0.2 U	0.21 U	0.19 U	0.19 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.04 U	0.04 U	0.042 U	0.038 U	0.037 U
cis-1,3-Dichloropropene	mg/kg											0.04 U	0.04 U	0.042 U	0.038 U	0.037 UJ
Cyclohexane	mg/kg											0.95 U	0.95 U	1 U	0.91 U	0.89 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.04 U	0.04 U	0.042 U	0.038 U	0.037 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.079 U	0.079 U	0.085 U	0.076 U	0.074 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.04 U	0.04 U	0.042 U	0.038 U	0.037 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.2 U	0.2 U	0.21 U	0.19 U	0.19 U
Methyl acetate	mg/kg											0.95 U	0.95 U	1 U	0.91 U	0.89 U
Methyl cyclohexane	mg/kg											0.95 U	0.95 U	1 U	0.91 U	0.89 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.2 U	0.2 U	0.21 U	0.19 U	0.19 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.2 U	0.2 U	0.21 U	0.19 U	0.19 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.04 U	0.04 U	0.042 U	0.038 U	0.037 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.04 U	0.04 U	0.042 U	0.038 U	0.037 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.079 U	0.079 U	0.085 U	0.076 U	0.074 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.04 U	0.04 U	0.042 U	0.038 U	0.037 U
trans-1,3-Dichloropropene	mg/kg											0.04 U	0.04 U	0.042 U	0.038 U	0.037 UJ
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.04 U	0.04 U	0.029 J	0.016 J	0.019 J
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	140000000	140000000	1700000000	560	560	0.079 U	0.079 U	0.085 U	0.076 U	0.074 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.2 U	0.2 U	0.21 U	0.19 U	0.19 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.079 U	0.079 U	0.085 U	0.076 U	0.074 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.12 U	0.12 U	0.13 U	0.11 U	0.11 U

Notes:

⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.

U - Not present at or above the associated value.

J - Estimated concentration.

UJ - Estimated reporting limit.

Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)

ID - Insufficient data to develop criterion

NLL - Hazardous substance is not likely to leach under most soil conditions

NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾</i>										<i>SB14-05</i>	<i>SB14-05</i>	<i>SB14-05</i>	<i>SB15-05</i>	<i>SB15-05</i>
Sample Identification	Industrial and	Groundwater	Groundwater	Soil Volatilization	Infinite Source	Finite VSIC for	Finite VSIC for	Particulate	Direct Contact	Soil Saturation	<i>SO-17360-071205-DCR-468</i>	<i>SO-17360-071205-DCR-469</i>	<i>SO-17360-071205-DCR-470</i>	<i>SO-17360-120305-DCR-540</i>	<i>SO-17360-120305-DCR-541</i>
Sample Date	Commercial	Surface Water	Contact	to Indoor Air	Volatile Soil	5 Meter Source	2 Meter Source	Soil Inhalation	Industrial and	Concentration	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>7/12/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>
Sample Depth	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness		Commercial II	Screening	<i>14-16 ft BGS</i>	<i>16-18 ft BGS</i>	<i>18-20 ft BGS</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j	<i>Duplicate</i>				
<i>Units</i>															
<i>Volatile Organic Compounds</i>															
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.045 U	0.037 U	0.04 U	0.044 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.09 U	0.074 U	0.08 U	0.084 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.045 U	0.037 U	0.04 U	0.044 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.045 U	0.037 U	0.04 U	0.044 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.045 U	0.037 U	0.04 U	0.044 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.22 U	0.18 U	0.2 U	0.21 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.22 U	0.18 U	0.2 U	0.21 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.22 U	0.18 U	0.2 U	0.21 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.09 U	0.074 U	0.08 U	0.084 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.045 U	0.037 U	0.04 U	0.044 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.045 U	0.037 U	0.04 U	0.044 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.09 U	0.074 U	0.08 U	0.087 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.09 U	0.074 U	0.08 U	0.084 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.67 U	0.55 U	0.6 U	0.63 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2.2 U	1.8 U	2 U	2.1 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2.2 U	1.8 U	2 U	2.1 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.67 U	0.55 U	0.6 U	0.63 UJ
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.045 U	0.037 U	0.04 U	0.044 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.09 UJ	0.074 UJ	0.087 UJ	0.084 U
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.09 U	0.074 U	0.08 U	0.087 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.22 U	0.18 U	0.2 U	0.21 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.22 U	0.18 U	0.2 U	0.21 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.045 U	0.037 U	0.04 U	0.044 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.045 U	0.037 U	0.04 U	0.044 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.22 U	0.18 U	0.2 U	0.21 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.045 U	0.037 U	0.04 U	0.044 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.22 U	0.18 U	0.2 U	0.21 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.045 U	0.037 U	0.04 U	0.044 U
cis-1,3-Dichloropropene	mg/kg											0.045 UJ	0.037 UJ	0.04 UJ	0.044 U
Cyclohexane	mg/kg											1.1 U	0.88 U	0.96 U	1 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.045 U	0.037 U	0.04 U	0.044 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.09 U	0.074 U	0.08 U	0.084 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.045 U	0.037 U	0.04 U	0.044 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.22 U	0.18 U	0.2 U	0.21 U
Methyl acetate	mg/kg											1.1 U	0.88 U	0.96 U	1 U
Methyl cyclohexane	mg/kg											1.1 U	0.88 U	0.96 U	1 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.22 U	0.18 U	0.2 U	0.21 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.22 U	0.18 U	0.2 U	0.21 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.045 U	0.037 U	0.04 U	0.044 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.045 U	0.037 U	0.04 U	0.044 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.09 U	0.074 U	0.08 U	0.084 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.045 U	0.037 U	0.04 U	0.044 U
trans-1,3-Dichloropropene	mg/kg											0.045 UJ	0.037 UJ	0.04 UJ	0.044 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.018 J	0.12	0.031 J	21
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	140000000	140000000	1700000000	560	560	0.09 U	0.074 U	0.08 U	0.087 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.22 U	0.18 U	0.2 U	0.21 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.09 U	0.074 U	0.08 U	0.087 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.13 U	0.11 U	0.12 U	0.13 U

Notes:
(1) Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
☐ Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)
ID - Insufficient data to develop criterion
NLL - Hazardous substance is not likely to leach under most soil conditions
NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾</i>										<i>SB15-05</i>	<i>SB15-05</i>	<i>SB15-05</i>	<i>SB15-05</i>	<i>SB15-05</i>
Sample Identification	Industrial and	Groundwater	Groundwater	Soil Volatilization	Infinite Source	Finite VSIC for	Finite VSIC for	Particulate	Direct Contact	Soil Saturation	<i>SO-17360-120305-DCR-542</i>	<i>SO-17360-120305-DCR-543</i>	<i>SO-17360-120305-DCR-544</i>	<i>SO-17360-120305-DCR-545</i>	<i>SO-17360-120305-DCR-546</i>
Sample Date	Commercial	Surface Water	Contact	to Indoor Air	Volatile Soil	5 Meter Source	2 Meter Source	Soil Inhalation	Industrial and	Concentration	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>
Sample Depth	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness		Commercial II	Screening	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j					
<i>Units</i>															
<i>Volatile Organic Compounds</i>															
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.044 U	0.042 U	0.048 U	0.14 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.088 U	0.085 U	0.096 U	0.27 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.044 U	0.042 U	0.048 U	0.14 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.044 U	0.042 U	0.048 U	0.14 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.044 U	0.042 U	0.048 U	0.14 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.22 U	0.21 U	0.24 U	0.68 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.22 U	0.21 U	0.24 U	0.68 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.22 U	0.21 U	0.24 U	0.68 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.088 U	0.085 U	0.096 U	0.27 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.044 U	0.042 U	0.048 U	0.14 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.044 U	0.042 U	0.048 U	0.14 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.088 U	0.085 U	0.096 U	0.27 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.088 U	0.085 U	0.096 U	0.27 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.66 U	0.64 U	2 U	0.69 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2.2 U	2.1 U	6.8 U	2.3 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2.2 U	2.1 U	6.8 U	2.3 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.66 UJ	0.64 UJ	2 UJ	0.69 UJ
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.044 U	0.042 U	0.048 U	0.14 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.088 U	0.085 U	0.096 U	0.27 U
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.088 U	0.085 U	0.096 U	0.27 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.22 U	0.21 U	0.24 U	0.68 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.22 U	0.21 U	0.24 U	0.68 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.044 U	0.042 U	0.048 U	0.14 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.044 U	0.042 U	0.048 U	0.14 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.22 U	0.21 U	0.24 U	0.68 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.044 U	0.042 U	0.048 U	0.14 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.22 U	0.21 U	0.24 U	0.68 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.044 U	0.042 U	0.048 U	0.14 U
cis-1,3-Dichloropropene	mg/kg											0.044 U	0.042 U	0.048 U	0.14 U
Cyclohexane	mg/kg											1.1 U	1 U	3.3 U	1.1 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.044 U	0.042 U	0.048 U	0.14 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.088 U	0.085 U	0.096 U	0.27 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.044 U	0.042 U	0.048 U	0.14 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.22 U	0.21 U	0.24 U	0.68 U
Methyl acetate	mg/kg											1.1 U	1 U	1.1 U	0.8 J
Methyl cyclohexane	mg/kg											1.1 U	1 U	1.1 U	0.035 J
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.22 U	0.21 U	0.24 U	0.68 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.22 U	0.21 U	0.24 U	0.68 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.044 U	0.042 U	0.048 U	0.14 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.044 U	0.042 U	0.048 U	0.14 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.088 U	0.085 U	0.096 U	0.27 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.044 U	0.042 U	0.048 U	0.14 U
trans-1,3-Dichloropropene	mg/kg											0.044 U	0.042 U	0.048 U	0.14 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.014 J	0.026 J	0.048 U	
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	14000000	140000000	1700000000	560	560	0.088 U	0.085 U	0.096 U	0.27 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.22 U	0.21 U	0.24 U	0.68 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.088 U	0.085 U	0.096 U	0.27 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.13 U	0.13 U	0.14 U	0.41 U

Notes:
(1) Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)
ID - Insufficient data to develop criterion
NLL - Hazardous substance is not likely to leach under most soil conditions
NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾</i>										<i>SB15-05</i>	<i>SB15-05</i>	<i>SB15-05</i>	<i>SB16-05</i>	<i>SB16-05</i>
Sample Identification	Industrial and	Groundwater	Groundwater	Soil Volatilization	Infinite Source	Finite VSIC for	Finite VSIC for	Particulate	Direct Contact	Soil Saturation	<i>SO-17360-120305-DCR-547</i>	<i>SO-17360-120305-DCR-548</i>	<i>SO-17360-120305-DCR-549</i>	<i>SO-17360-120305-DCR-508</i>	<i>SO-17360-120305-DCR-509</i>
Sample Date	Commercial	Surface Water	Contact	to Indoor Air	Volatile Soil	5 Meter Source	2 Meter Source	Soil Inhalation	Industrial and	Concentration	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>
Sample Depth	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness		Commercial II	Screening	<i>14-16 ft BGS</i>	<i>16-18 ft BGS</i>	<i>18-20 ft BGS</i>	<i>0-2 ft BGS</i>	<i>0-2 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j					<i>Duplicate</i>
<i>Units</i>															
<i>Volatile Organic Compounds</i>															
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.042 U	0.044 U	0.044 U	0.055 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.084 U	0.088 U	0.088 U	0.11 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.042 U	0.044 U	0.044 U	0.055 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.042 U	0.044 U	0.044 U	0.055 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.042 U	0.044 U	0.044 U	0.055 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.21 U	0.22 U	0.22 U	0.28 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.21 U	0.22 U	0.22 U	0.28 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.21 U	0.22 U	0.22 U	0.28 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.084 U	0.088 U	0.088 U	0.11 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.042 U	0.044 U	0.044 U	0.055 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.042 U	0.044 U	0.044 U	0.055 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.084 U	0.088 U	0.088 U	0.11 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.084 U	0.088 U	0.088 U	0.11 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.63 U	0.66 U	0.66 U	0.83 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2.1 U	2.2 U	2.2 U	2.8 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2.1 U	2.2 U	2.2 U	2.8 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.63 UJ	0.66 U	0.66 U	0.83 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.042 U	0.044 U	0.044 U	0.055 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.084 U	0.088 U	0.088 U	0.11 U
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.084 U	0.088 U	0.088 U	0.11 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.21 U	0.22 U	0.22 U	0.28 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.21 U	0.22 U	0.22 U	0.28 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.042 U	0.044 U	0.044 U	0.055 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.042 U	0.044 U	0.044 U	0.055 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.21 U	0.22 U	0.22 U	0.28 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.042 U	0.044 U	0.044 U	0.055 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.21 U	0.22 U	0.22 U	0.28 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.042 U	0.044 U	0.044 U	0.055 U
cis-1,3-Dichloropropene	mg/kg											0.042 U	0.044 U	0.044 U	0.055 U
Cyclohexane	mg/kg											1 U	1.1 U	1.1 U	1.3 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.042 U	0.044 U	0.044 U	0.055 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.084 U	0.088 U	0.088 U	0.11 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.042 U	0.044 U	0.044 U	0.055 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.21 U	0.22 U	0.22 U	0.28 U
Methyl acetate	mg/kg											1 U	1.1 U	1.1 U	1.3 U
Methyl cyclohexane	mg/kg											1 U	1.1 U	1.1 U	1.3 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.21 U	0.22 U	0.22 U	0.28 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.21 U	0.22 U	0.22 U	0.28 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.042 U	0.044 U	0.044 U	0.055 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.042 U	0.044 U	0.044 U	0.055 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.084 U	0.088 U	0.088 U	0.11 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.042 U	0.044 U	0.044 U	0.055 U
trans-1,3-Dichloropropene	mg/kg											0.042 U	0.044 U	0.044 U	0.055 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.059	0.059	0.017 J	
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	14000000	140000000	1700000000	560	560	0.084 U	0.088 U	0.088 U	0.11 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.21 U	0.22 U	0.22 U	0.28 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.084 U	0.088 U	0.088 U	0.11 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.13 U	0.13 U	0.13 U	0.17 U

Notes:
(1) Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.

Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)

ID - Insufficient data to develop criterion
NLL - Hazardous substance is not likely to leach under most soil conditions
NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾</i>										<i>SB16-05</i>	<i>SB16-05</i>	<i>SB16-05</i>	<i>SB16-05</i>	<i>SB16-05</i>
Sample Identification	Industrial and	Groundwater	Groundwater	Soil Volatilization	Infinite Source	Finite VSIC for	Finite VSIC for	Particulate	Direct Contact	Soil Saturation	<i>SO-17360-120305-DCR-510</i>	<i>SO-17360-120305-DCR-511</i>	<i>SO-17360-120305-DCR-512</i>	<i>SO-17360-120305-DCR-513</i>	<i>SO-17360-120305-DCR-514</i>
Sample Date	Commercial	Surface Water	Contact	to Indoor Air	Volatile Soil	5 Meter Source	2 Meter Source	Soil Inhalation	Industrial and	Concentration	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>
Sample Depth	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness		Commercial II	Screening	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j					
<i>Units</i>															
<i>Volatile Organic Compounds</i>															
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.042 U	0.048 U	0.042 U	0.045 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.083 U	0.096 U	0.084 U	0.09 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.042 U	0.048 U	0.043 U	0.045 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.042 U	0.048 U	0.042 U	0.045 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.042 U	0.048 U	0.042 U	0.045 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.21 U	0.24 U	0.21 U	0.22 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.21 U	0.24 U	0.21 U	0.22 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.21 U	0.24 U	0.21 U	0.22 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.083 U	0.096 U	0.084 U	0.09 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.042 U	0.048 U	0.042 U	0.045 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.042 U	0.048 U	0.042 U	0.045 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.083 U	0.096 U	0.084 U	0.09 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.083 U	0.096 U	0.084 U	0.09 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.63 U	0.72 U	0.63 U	0.67 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2.1 U	2.4 U	2.2 U	2.2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2.1 U	2.4 U	2.1 U	2.2 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.63 U	0.72 U	0.63 U	0.67 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.042 U	0.048 U	0.042 U	0.045 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.083 U	0.096 U	0.084 U	0.09 U
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.083 U	0.096 U	0.084 U	0.09 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.21 U	0.24 U	0.21 U	0.22 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.21 U	0.24 U	0.21 U	0.22 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.042 U	0.048 U	0.042 U	0.045 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.042 U	0.048 U	0.042 U	0.045 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.21 U	0.24 U	0.21 U	0.22 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.042 U	0.048 U	0.042 U	0.045 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.21 U	0.24 U	0.21 U	0.22 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000000	640	640		0.042 U	0.048 U	0.042 U	0.045 U
cis-1,3-Dichloropropene	mg/kg										0.042 U	0.048 U	0.042 U	0.043 U	0.045 U
Cyclohexane	mg/kg										1 U	1.1 U	1 U	1 U	1.1 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.042 U	0.048 U	0.042 U	0.045 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.083 U	0.096 U	0.084 U	0.09 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.042 U	0.048 U	0.042 U	0.045 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.21 U	0.24 U	0.21 U	0.22 U
Methyl acetate	mg/kg										1 U	1.1 U	0.08 J	1 U	1.1 U
Methyl cyclohexane	mg/kg										1 U	1.1 U	1 U	1 U	1.1 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.21 U	0.24 U	0.21 U	0.22 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.21 U	0.24 U	0.21 U	0.22 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.042 U	0.048 U	0.042 U	0.045 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.042 U	0.048 U	0.042 U	0.045 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.083 U	0.096 U	0.084 U	0.09 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.042 U	0.048 U	0.042 U	0.045 U
trans-1,3-Dichloropropene	mg/kg										0.042 U	0.048 U	0.042 U	0.043 U	0.045 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.074	0.025 J	0.16	
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	140000000	140000000	1700000000	560	560	0.083 U	0.096 U	0.084 U	0.09 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.21 U	0.24 U	0.21 U	0.22 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.083 U	0.096 U	0.084 U	0.09 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.13 U	0.14 U	0.13 U	0.13 U

Notes:
(1) Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
☐ Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)
ID - Insufficient data to develop criterion
NLL - Hazardous substance is not likely to leach under most soil conditions
NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾</i>										<i>SB16-05</i>	<i>SB16-05</i>	<i>SB16-05</i>	<i>SB16-05</i>	<i>SB17-05</i>
Sample Identification	Industrial and	Groundwater	Groundwater	Soil Volatilization	Infinite Source	Finite VSIC for	Finite VSIC for	Particulate	Direct Contact	Soil Saturation	<i>SO-17360-120305-DCR-515</i>	<i>SO-17360-120305-DCR-516</i>	<i>SO-17360-120305-DCR-517</i>	<i>SO-17360-120305-DCR-518</i>	<i>SO-17360-120305-DCR-519</i>
Sample Date	Commercial	Surface Water	Contact	to Indoor Air	Volatile Soil	5 Meter Source	2 Meter Source	Soil Inhalation	Industrial and	Concentration	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>
Sample Depth	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness		Commercial II	Screening	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>16-18 ft BGS</i>	<i>18-20 ft BGS</i>	<i>0-2 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j					
<i>Units</i>															
<i>Volatile Organic Compounds</i>															
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.046 U	0.047 U	0.038 U	0.044 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.091 U	0.094 U	0.075 U	0.087 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.046 U	0.047 U	0.038 U	0.044 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.046 U	0.047 U	0.038 U	0.044 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.046 U	0.047 U	0.038 U	0.044 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.23 U	0.24 U	0.19 U	0.22 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.23 U	0.24 U	0.19 U	0.22 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.23 U	0.24 U	0.19 U	0.22 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.091 U	0.094 U	0.075 U	0.087 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.046 U	0.047 U	0.038 U	0.044 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.046 U	0.047 U	0.038 U	0.044 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.091 U	0.094 U	0.075 U	0.087 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.091 U	0.094 U	0.075 U	0.087 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.68 U	0.71 U	0.56 U	0.65 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2.3 U	2.4 U	1.9 U	2.2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2.3 U	2.4 U	1.9 U	2.2 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.68 U	0.71 U	0.56 U	0.65 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.046 U	0.047 U	0.038 U	0.044 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.091 U	0.094 U	0.075 U	0.087 U
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.091 U	0.094 U	0.075 U	0.087 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.23 U	0.24 U	0.19 U	0.22 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.23 U	0.24 U	0.19 U	0.22 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.046 U	0.047 U	0.038 U	0.044 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.046 U	0.047 U	0.038 U	0.044 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.23 U	0.24 U	0.19 U	0.22 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.046 U	0.047 U	0.038 U	0.044 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.23 U	0.24 U	0.19 U	0.22 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.046 U	0.047 U	0.038 U	0.044 U
cis-1,3-Dichloropropene	mg/kg											0.046 U	0.047 U	0.038 U	0.044 U
Cyclohexane	mg/kg											1.1 U	1.1 U	0.9 U	1 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.046 U	0.047 U	0.038 U	0.044 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.091 U	0.094 U	0.075 U	0.087 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.046 U	0.047 U	0.038 U	0.044 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.23 U	0.24 U	0.19 U	0.22 U
Methyl acetate	mg/kg											1.1 U	1.1 U	0.9 U	1 U
Methyl cyclohexane	mg/kg											1.1 U	1.1 U	0.9 U	1 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.23 U	0.24 U	0.19 U	0.22 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.23 U	0.24 U	0.19 U	0.22 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.046 U	0.047 U	0.038 U	0.044 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.046 U	0.047 U	0.038 U	0.044 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.091 U	0.094 U	0.075 U	0.087 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.046 U	0.047 U	0.038 U	0.044 U
trans-1,3-Dichloropropene	mg/kg											0.046 U	0.047 U	0.038 U	0.044 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.02 J	0.031 J	0.017 J	0.02 J
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	14000000	14000000	1700000000	560	560	0.091 U	0.094 U	0.075 U	0.087 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.23 U	0.24 U	0.19 U	0.22 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.091 U	0.094 U	0.075 U	0.087 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.14 U	0.14 U	0.11 U	0.13 U

Notes:
(1) Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
☐ Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)
ID - Insufficient data to develop criterion
NLL - Hazardous substance is not likely to leach under most soil conditions
NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾</i>										<i>SB17-05</i>	<i>SB17-05</i>	<i>SB17-05</i>	<i>SB17-05</i>	<i>SB17-05</i>
Sample Identification	Industrial and	Groundwater	Groundwater	Soil Volatilization	Infinite Source	Finite VSIC for	Finite VSIC for	Particulate	Direct Contact	Soil Saturation	<i>SO-17360-120305-DCR-520</i>	<i>SO-17360-120305-DCR-521</i>	<i>SO-17360-120305-DCR-522</i>	<i>SO-17360-120305-DCR-523</i>	<i>SO-17360-120305-DCR-524</i>
Sample Date	Commercial	Surface Water	Contact	to Indoor Air	Volatile Soil	5 Meter Source	2 Meter Source	Soil Inhalation	Industrial and	Concentration	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>
Sample Depth	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness		Commercial II	Screening	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j					
<i>Units</i>															
<i>Volatile Organic Compounds</i>															
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.042 U	0.042 U	0.044 U	0.04 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.085 U	0.085 U	0.088 U	0.08 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.042 U	0.042 U	0.044 U	0.04 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.042 U	0.042 U	0.044 U	0.04 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.042 U	0.042 U	0.044 U	0.04 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.21 U	0.21 U	0.22 U	0.2 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.21 U	0.21 U	0.22 U	0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.21 U	0.21 U	0.22 U	0.2 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.085 U	0.085 U	0.088 U	0.08 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.042 U	0.042 U	0.044 U	0.04 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.042 U	0.042 U	0.044 U	0.04 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.085 U	0.085 U	0.088 U	0.08 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.085 U	0.085 U	0.088 U	0.08 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.64 U	0.63 U	0.66 U	0.6 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2.1 U	2.1 U	2 U	2.3 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2.1 U	2.1 U	2.2 U	2 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.64 U	0.63 U	0.66 U	0.7 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.042 U	0.042 U	0.044 U	0.04 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.085 U	0.085 U	0.088 U	0.08 U
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.085 U	0.085 U	0.088 U	0.08 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.21 U	0.21 U	0.22 U	0.2 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.21 U	0.21 U	0.22 U	0.2 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.042 U	0.042 U	0.044 U	0.04 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.042 U	0.042 U	0.044 U	0.04 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.21 U	0.21 U	0.22 U	0.2 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.042 U	0.042 U	0.044 U	0.04 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.21 U	0.21 U	0.22 U	0.2 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.042 U	0.042 U	0.044 U	0.04 U
cis-1,3-Dichloropropene	mg/kg											0.042 U	0.042 U	0.044 U	0.04 U
Cyclohexane	mg/kg											1 U	1 U	1.1 U	1.1 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.042 U	0.042 U	0.044 U	0.04 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.085 U	0.085 U	0.088 U	0.08 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.042 U	0.042 U	0.044 U	0.04 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.21 U	0.21 U	0.22 U	0.2 U
Methyl acetate	mg/kg											1 U	1 U	1.1 U	0.96 U
Methyl cyclohexane	mg/kg											1 U	1 U	1.1 U	0.96 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.21 U	0.21 U	0.22 U	0.2 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.21 U	0.21 U	0.22 U	0.2 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.042 U	0.042 U	0.044 U	0.04 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.042 U	0.042 U	0.044 U	0.04 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.085 U	0.085 U	0.088 U	0.08 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.042 U	0.042 U	0.044 U	0.04 U
trans-1,3-Dichloropropene	mg/kg											0.042 U	0.042 U	0.044 U	0.04 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.039 J	0.042 U	0.044 U	0.04 U
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	14000000	14000000	1700000000	560	560	0.085 U	0.085 U	0.088 U	0.08 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.21 U	0.21 U	0.22 U	0.2 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.085 U	0.085 U	0.088 U	0.08 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.13 U	0.13 U	0.13 U	0.12 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)
ID - Insufficient data to develop criterion
NLL - Hazardous substance is not likely to leach under most soil conditions
NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾</i>											<i>SB17-05</i> <i>SO-17360-120305-DCR-525</i>	<i>SB17-05</i> <i>SO-17360-120305-DCR-526</i>	<i>SB17-05</i> <i>SO-17360-120305-DCR-527</i>	<i>SB17-05</i> <i>SO-17360-120305-DCR-528</i>	<i>SB18-05</i> <i>SO-17360-120305-DCR-529</i>
Sample Identification	Industrial and	Groundwater	Groundwater	Soil Volatilization	Infinite Source	Finite VSIC for	Finite VSIC for	Particulate	Direct Contact	Soil Saturation						
Sample Date	Commercial	Surface Water	Contact	to Indoor Air	Volatile Soil	5 Meter Source	2 Meter Source	Soil Inhalation	Industrial and	Concentration						
Sample Depth	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness		Commercial II	Screening						
Sample Type	a	b	c	d	e	f	g	h	i	j	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>16-18 ft BGS</i>	<i>18-20 ft BGS</i>	<i>0-2 ft BGS</i>	
<i>Units</i>																
<i>Volatile Organic Compounds</i>																
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.09 U	0.081 U	0.077 U	0.09 U	0.086 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.23 U	0.2 U	0.19 U	0.22 U	0.21 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.23 U	0.2 U	0.19 U	0.22 U	0.21 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.23 U	0.2 U	0.19 U	0.22 U	0.21 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.09 U	0.081 U	0.077 U	0.09 U	0.086 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.09 U	0.081 U	0.077 U	0.09 U	0.086 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.09 U	0.081 U	0.077 U	0.09 U	0.086 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.68 U	0.61 U	0.58 U	0.67 U	0.64 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2.3 U	2 U	1.9 U	2.2 U	2.1 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2.3 U	2 U	1.9 U	2.2 U	2.1 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.68 U	0.61 U	0.58 U	0.67 UJ	0.64 UJ
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.09 U	0.081 U	0.077 U	0.09 U	0.086 U
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.09 U	0.081 U	0.077 U	0.09 U	0.086 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.23 U	0.2 U	0.19 U	0.22 U	0.21 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.23 U	0.2 U	0.19 U	0.22 U	0.21 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.23 U	0.2 U	0.19 U	0.22 U	0.21 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.23 U	0.2 U	0.19 U	0.22 U	0.21 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
cis-1,3-Dichloropropene	mg/kg											0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
Cyclohexane	mg/kg											1.1 U	0.98 U	0.93 U	1.1 U	1 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.09 U	0.081 U	0.077 U	0.09 U	0.086 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.23 U	0.2 U	0.19 U	0.22 U	0.21 U
Methyl acetate	mg/kg											1.1 U	0.98 U	0.93 U	1.1 U	1 U
Methyl cyclohexane	mg/kg											1.1 U	0.98 U	0.93 U	1.1 U	1 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.23 U	0.2 U	0.19 U	0.22 U	0.21 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.23 U	0.2 U	0.19 U	0.22 U	0.21 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.09 U	0.081 U	0.077 U	0.09 U	0.086 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
trans-1,3-Dichloropropene	mg/kg											0.045 U	0.041 U	0.039 U	0.045 U	0.043 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.045 U	0.041 U	0.039 U	0.045 U	0.038 J
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	14000000	140000000	1700000000	560	560	0.09 U	0.081 U	0.077 U	0.09 U	0.086 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.23 U	0.2 U	0.19 U	0.22 U	0.21 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.09 U	0.081 U	0.077 U	0.09 U	0.086 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.14 U	0.12 U	0.12 U	0.13 U	0.13 U

Notes:
(1) Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.

Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)

ID - Insufficient data to develop criterion

NLL - Hazardous substance is not likely to leach under most soil conditions

NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾</i>										<i>SB18-05</i>	<i>SB18-05</i>	<i>SB18-05</i>	<i>SB18-05</i>	<i>SB18-05</i>
Sample Identification	Industrial and	Groundwater	Groundwater	Soil Volatilization	Infinite Source	Finite VSIC for	Finite VSIC for	Particulate	Direct Contact	Soil Saturation	<i>SO-17360-120305-DCR-530</i>	<i>SO-17360-120305-DCR-531</i>	<i>SO-17360-120305-DCR-532</i>	<i>SO-17360-120305-DCR-533</i>	<i>SO-17360-120305-DCR-534</i>
Sample Date	Commercial	Surface Water	Contact	to Indoor Air	Volatile Soil	5 Meter Source	2 Meter Source	Soil Inhalation	Industrial and	Concentration	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>
Sample Depth	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness		Commercial II	Screening	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j					
<i>Units</i>															
<i>Volatile Organic Compounds</i>															
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.041 U	0.043 U	0.042 U	0.046 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.083 U	0.086 U	0.085 U	0.081 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.041 U	0.043 U	0.042 U	0.041 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.041 U	0.043 U	0.042 U	0.041 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.041 U	0.043 U	0.042 U	0.041 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.21 U	0.21 U	0.21 U	0.2 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.21 U	0.21 U	0.21 U	0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.21 U	0.21 U	0.21 U	0.2 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.083 U	0.086 U	0.085 U	0.081 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.041 U	0.043 U	0.042 U	0.041 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.041 U	0.043 U	0.042 U	0.041 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.083 U	0.086 U	0.085 U	0.081 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.083 U	0.086 U	0.085 U	0.081 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.62 U	0.64 U	0.63 U	0.61 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2.1 U	2.1 U	2.1 U	2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2.1 U	2.1 U	2.1 U	2 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.62 UJ	0.64 UJ	0.63 UJ	0.61 UJ
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.041 U	0.043 U	0.042 U	0.041 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.083 U	0.086 U	0.085 U	0.081 U
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.083 U	0.086 U	0.085 U	0.081 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.21 U	0.21 U	0.21 U	0.2 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.21 U	0.21 U	0.21 U	0.2 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.041 U	0.043 U	0.042 U	0.041 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.041 U	0.043 U	0.042 U	0.041 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.21 U	0.21 U	0.21 U	0.2 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.041 U	0.043 U	0.042 U	0.041 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.21 U	0.21 U	0.21 U	0.2 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.041 U	0.043 U	0.042 U	0.041 U
cis-1,3-Dichloropropene	mg/kg											0.041 U	0.043 U	0.042 U	0.041 U
Cyclohexane	mg/kg											0.99 U	1 U	1 U	0.97 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.041 U	0.043 U	0.042 U	0.041 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.083 U	0.086 U	0.085 U	0.081 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.041 U	0.043 U	0.042 U	0.041 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.21 U	0.21 U	0.21 U	0.2 U
Methyl acetate	mg/kg											0.99 U	1 U	1 U	0.97 U
Methyl cyclohexane	mg/kg											0.99 U	1 U	1 U	0.97 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.21 U	0.21 U	0.21 U	0.2 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.21 U	0.21 U	0.21 U	0.2 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.041 U	0.043 U	0.042 U	0.041 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.041 U	0.043 U	0.042 U	0.041 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.083 U	0.086 U	0.085 U	0.081 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.041 U	0.043 U	0.042 U	0.041 U
trans-1,3-Dichloropropene	mg/kg											0.041 U	0.043 U	0.042 U	0.041 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.041 U	0.043 U	0.042 U	0.041 U
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	14000000	140000000	1700000000	560	560	0.083 U	0.086 U	0.085 U	0.081 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.21 U	0.21 U	0.21 U	0.2 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.083 U	0.086 U	0.085 U	0.081 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.12 U	0.13 U	0.13 U	0.12 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.

Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)

ID - Insufficient data to develop criterion
NLL - Hazardous substance is not likely to leach under most soil conditions
NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾</i>										<i>SB18-05</i>	<i>SB18-05</i>	<i>SB18-05</i>	<i>SB18-05</i>	<i>SB18-05</i>
Sample Identification	Industrial and	Groundwater	Groundwater	Soil Volatilization	Infinite Source	Finite VSIC for	Finite VSIC for	Particulate	Direct Contact	Soil Saturation	<i>SO-17360-120305-DCR-535</i>	<i>SO-17360-120305-DCR-536</i>	<i>SO-17360-120305-DCR-537</i>	<i>SO-17360-120305-DCR-538</i>	<i>SO-17360-120305-DCR-539</i>
Sample Date	Commercial	Surface Water	Contact	to Indoor Air	Volatile Soil	5 Meter Source	2 Meter Source	Soil Inhalation	Industrial and	Concentration	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>	<i>12/3/2005</i>
Sample Depth	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness		Commercial II	Screening	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>16-18 ft BGS</i>	<i>18-20 ft BGS</i>
Sample Type	a	b	c	d	e	f	g	h	i	j	<i>Duplicate</i>				
<i>Units</i>															
<i>Volatile Organic Compounds</i>															
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.046 U	0.042 U	0.043 U	0.045 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.091 U	0.084 U	0.086 U	0.09 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.046 U	0.042 U	0.043 U	0.045 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.046 U	0.042 U	0.043 U	0.045 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.046 U	0.042 U	0.043 U	0.045 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.23 U	0.21 U	0.21 U	0.22 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.23 U	0.21 U	0.21 U	0.22 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.23 U	0.21 U	0.21 U	0.22 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.091 U	0.084 U	0.086 U	0.09 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.046 U	0.042 U	0.043 U	0.045 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.046 U	0.042 U	0.043 U	0.045 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.091 U	0.084 U	0.086 U	0.09 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.091 U	0.084 U	0.086 U	0.09 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.69 U	0.63 U	0.64 U	0.67 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500		2.3 U	2.1 U	2.1 U	2.2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2.3 U	2.1 U	2.1 U	2.2 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.69 UJ	0.63 UJ	0.64 UJ	0.67 UJ
Benzene	mg/kg	0.1		220	8.4	45	99	230	470000	400	400	0.046 U	0.042 U	0.043 U	0.045 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.091 U	0.084 U	0.086 U	0.09 U
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.091 U	0.084 U	0.086 U	0.09 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.23 U	0.21 U	0.21 U	0.22 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.23 U	0.21 U	0.21 U	0.22 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.046 U	0.042 U	0.043 U	0.045 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.046 U	0.042 U	0.043 U	0.045 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.23 U	0.21 U	0.21 U	0.22 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.046 U	0.042 U	0.043 U	0.045 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.23 U	0.21 U	0.21 U	0.22 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.046 U	0.042 U	0.043 U	0.045 U
cis-1,3-Dichloropropene	mg/kg											0.046 U	0.042 U	0.043 U	0.045 U
Cyclohexane	mg/kg											1.1 U	1 U	1 U	1.1 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.046 U	0.042 U	0.043 U	0.045 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.091 U	0.084 U	0.086 U	0.09 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.046 U	0.042 U	0.043 U	0.045 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.23 U	0.21 U	0.21 U	0.22 U
Methyl acetate	mg/kg											1.1 U	1 U	0.074 J	1.1 U
Methyl cyclohexane	mg/kg											1.1 U	1 U	1 U	1.1 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.23 U	0.21 U	0.21 U	0.22 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.23 U	0.21 U	0.21 U	0.22 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.046 U	0.042 U	0.043 U	0.045 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.046 U	0.042 U	0.043 U	0.045 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.091 U	0.084 U	0.086 U	0.09 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.046 U	0.042 U	0.043 U	0.045 U
trans-1,3-Dichloropropene	mg/kg											0.046 U	0.042 U	0.043 U	0.045 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.046 U	0.042 U	0.043 U	0.045 U
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	14000000	140000000	1700000000	560	560	0.091 U	0.084 U	0.086 U	0.09 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.23 U	0.21 U	0.21 U	0.22 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.091 U	0.084 U	0.086 U	0.09 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.14 U	0.13 U	0.13 U	0.13 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)
ID - Insufficient data to develop criterion
NLL - Hazardous substance is not likely to leach under most soil conditions
NLV - Hazardous substance is not likely to volatilize under most conditions

TABLE 3

SUMMARY OF SOIL SAMPLE RESULTS COMPARED TO MICHIGAN ACT 451, PART 201 INDUSTRIAL CRITERIA
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Michigan Act 451, Part 201 Industrial and Commercial II, III, IV ⁽¹⁾										Trip Blank	Trip Blank	
Sample Identification	Industrial and	Groundwater	Groundwater	Soil Volatilization	Infinite Source	Finite VSIC for	Finite VSIC for	Particulate	Direct Contact	Soil Saturation	TB-17360-071205-DCR-501	SO-17360-120305-DCR-550	
Sample Date	Commercial	Surface Water	Contact	to Indoor Air	Volatile Soil	5 Meter Source	2 Meter Source	Soil Inhalation	Industrial and	Concentration	7/12/2005	12/3/2005	
Sample Depth	Drinking Water	Interface Protection	Protection	Inhalation	Inhalation	Thickness	Thickness		Commercial II	Screening			
Sample Type	a	b	c	d	e	f	g	h	i	j			
Units													
Volatile Organic Compounds													
1,1,1-Trichloroethane	mg/kg	4	4	460	460	4500	15000	31000	29000000	460	460	0.04 U	0.04 U
1,1,2,2-Tetrachloroethane	mg/kg	0.7	1.6	94	23	34	34	34	68000	240	870	0.08 U	0.08 U
1,1,2-Trichloroethane	mg/kg	0.1	6.6	420	24	57	57	120	250000	840	920	0.04 U	0.04 U
1,1-Dichloroethane	mg/kg	50	15	890	430	2500	6000	14000	15000000	890	890	0.04 U	0.04 U
1,1-Dichloroethene	mg/kg	0.14	1.3	220	0.33	3.7	15	37	78000	570	570	0.04 U	0.04 U
1,2,4-Trichlorobenzene	mg/kg	4.2	1.8	1100	1100	34000	34000	34000	11000000	1100	1100	0.2 U	0.2 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.01		1.2	1.2	15	15	15	5900	1.2	1.2	0.2 U	0.2 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.02	0.02	0.5	3.6	5.8	5.8	9.8	18000	0.43	890	0.2 U	0.2 U
1,2-Dichlorobenzene	mg/kg	14	0.36	210	210	46000	46000	55000	44000000	210	210	0.08 U	0.08 U
1,2-Dichloroethane	mg/kg	0.1	7.2	380	11	21	33	74	150000	420	1200	0.04 U	0.04 U
1,2-Dichloropropane	mg/kg	0.1	5.8	320	7.4	30	51	120	120000	550	550	0.04 U	0.04 U
1,3-Dichlorobenzene	mg/kg	0.48	1.1	51	ID	ID	ID	ID	ID	170	170	0.08 U	0.08 U
1,4-Dichlorobenzene	mg/kg	1.7	0.29	140	100	260	260	340	570000	1900		0.08 U	0.08 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	760	44	27000	27000	35000	35000	36000	29000000	27000	27000	0.6 U	0.6 U
2-Hexanone	mg/kg	58		2500	1800	1300	1300	1500	1200000	2500	2500	2 U	2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	100	ID	2700	2700	53000	53000	70000	60000000	2700	2700	2 U	2 U
Acetone	mg/kg	42	34	110000	110000	160000	160000	200000	170000000	73000	110000	0.6 U	0.6 U
Benzene	mg/kg	0.1	4	220	8.4	45	99	230	470000	400	400	0.04 U	0.04 U
Bromodichloromethane	mg/kg	1.6	ID	280	6.4	31	31	57	110000	490	1500	0.08 UJ	0.08 U
Bromoform	mg/kg	1.6	ID	870	770	3100	3100	3100	3600000	870	870	0.08 U	0.08 U
Bromomethane (Methyl Bromide)	mg/kg	0.58	0.7	1400	1.6	13	57	140	150000	1000	2200	0.2 U	0.2 U
Carbon disulfide	mg/kg	46	ID	280	140	1600	8000	19000	21000000	280	280	0.2 U	0.2 U
Carbon tetrachloride	mg/kg	0.1	0.9	92	0.99	12	34	79	170000	390	390	0.04 U	0.04 U
Chlorobenzene	mg/kg	2	0.94	260	220	920	1100	2100	2100000	260	260	0.04 U	0.04 U
Chloroethane	mg/kg	34	ID	950	950	36000	120000	280000	290000000	950	950	0.2 U	0.2 U
Chloroform (Trichloromethane)	mg/kg	1.6	3.4	1500	38	150	340	790	1600000	1500	1500	0.04 U	0.04 U
Chloromethane (Methyl Chloride)	mg/kg	22	ID	1100	10	120	1000	2500	2600000	1100	1100	0.2 U	0.2 U
cis-1,2-Dichloroethene	mg/kg	1.4	12	640	41	210	430	1000	1000000	640	640	0.04 U	0.04 U
cis-1,3-Dichloropropene	mg/kg											0.04 UJ	0.04 U
Cyclohexane	mg/kg											0.96 U	0.96 U
Dibromochloromethane	mg/kg	1.6	ID	360	21	80	80	98	160000	500	610	0.04 U	0.04 U
Dichlorodifluoromethane (CFC-12)	mg/kg	270	ID	1000	1700	63000	550000	1400000	1500000000	1000	1000	0.08 U	0.08 U
Ethylbenzene	mg/kg	1.5	0.36	140	140	2400	3100	6500	13000000	140	140	0.04 U	0.04 U
Isopropylbenzene	mg/kg	260	ID	390	390	2000	2000	3000	2600000	390	390	0.2 U	0.2 U
Methyl acetate	mg/kg											0.077 J	0.96 U
Methyl cyclohexane	mg/kg											0.96 U	0.96 U
Methyl Tert Butyl Ether	mg/kg	0.8	15	5900	5900	30000	41000	89000	88000000	5900	5900	0.2 U	0.2 U
Methylene chloride	mg/kg	0.1	19	2300	240	700	1700	4000	8300000	2300	2300	0.2 U	0.2 U
Styrene	mg/kg	2.7	2.2	270	520	3300	3300	4200	6900000	520	520	0.04 U	0.04 U
Tetrachloroethene	mg/kg	0.1	0.9	88	60	600	1400	3300	6800000	88	88	0.04 U	0.04 U
Toluene	mg/kg	16	2.8	250	250	3300	36000	36000	12000000	250	250	0.08 U	0.08 U
trans-1,2-Dichloroethene	mg/kg	2	30	1400	43	330	840	2000	2100000	1400	1400	0.04 U	0.04 U
trans-1,3-Dichloropropene	mg/kg											0.04 U	0.04 U
Trichloroethene	mg/kg	0.1	4	440	37	260	440	1100	2300000	500	500	0.04 U	0.04 U
Trichlorofluoromethane (CFC-11)	mg/kg	150		560	560	110000	14000000	140000000	1700000000	560	560	0.08 U	0.08 U
Trifluorotrichloroethane (Freon 113)	mg/kg	550	1.7	550	550	210000	890000	2100000	2300000000	550	550	0.2 U	0.2 U
Vinyl chloride	mg/kg	0.04	0.3	20	2.8	29	170	420	890000	34	490	0.08 U	0.08 U
Xylene (total)	mg/kg	5.6	0.7	150	150	54000	65000	130000	130000000	150	150	0.12 U	0.12 U

Notes:
⁽¹⁾ Cleanup criteria identified by MDEQ RRD Op Memo No. 1, updated 1/23/2006, pursuant to 1994 PA 451 as amended.
U - Not present at or above the associated value.
J - Estimated concentration.
UJ - Estimated reporting limit.
 Value exceeds referenced Part 201 Criteria (i.e. a, b, etc.)
ID - Insufficient data to develop criterion
NLL - Hazardous substance is not likely to leach under most soil conditions
NLV - Hazardous substance is not likely to volatilize under most conditions

ATTACHMENT A
STRATIGRAPHIC SOIL BORING LOGS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM GRAND RAPIDS

HOLE DESIGNATION: SB1-04

PROJECT NUMBER: 17360-09

DATE COMPLETED: July 15, 2004

CLIENT: GENERAL MOTORS

DRILLING METHOD: HSA/SPLIT SPOON

LOCATION: WYOMING, MI

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	N' VALUE	PID (ppm)
	wood block floor	0.20						
	CONCRETE-with fine gravels, white	1.00	CONCRETE	1HA				402
2	SM-SILTY SAND, trace fine gravels, compact, fine grained, poorly graded, dark brown, moist			2SS			14	397
4	- orange brown-oxidation at 2.5ft BGS			3SS			15	12.8
6	- fine grained at 5.3ft BGS			4SS			21	10.1
8	- light brown at 6.5ft BGS			5SS			21	7
10	- orange-brown at 9.5ft BGS		8" BOREHOLE	6SS			15	3.1
12	- brown at 11.5ft BGS			7SS			21	3.0
14	- fine to medium grained, tan/beige at 13.3ft BGS			8SS			12	2.8
16			BENTONITE CHIPS	9SS			29	1.8
18	- fine to coarse grained, light gray to white, trace fine to medium gravels at 17.5ft BGS			10SS			46	2.1
20	- fine grained, tan/beige, no gravels at 21.0ft BGS			11SS			12	1.4
22	END OF BOREHOLE @ 22.0ft BGS	22.00						
24								
26								
28								
30								
32								
34								
36								
38								
40								
42								
44								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17360-09B.GPJ CRA CORP.GDT 9/30/04



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM GRAND RAPIDS

HOLE DESIGNATION: SB2-04

PROJECT NUMBER: 17360-09

DATE COMPLETED: July 14, 2004

CLIENT: GENERAL MOTORS

DRILLING METHOD: HSA/SPLIT SPOON

LOCATION: WYOMING, MI

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE INSTALLATION	SAMPLE			
				NUMBER	INTERVAL	REC (%)	N' VALUE
	wood block floor	0.20					
	CONCRETE-with fine gravels, white	1.00	CONCRETE	1HA			
2	SM-SILTY SAND, trace fine gravels, compact, fine grained, poorly graded, red brown, moist			2SS			17
4	- orange brown-oxidation at 3.0ft BGS			3SS			16
	- fine to medium grained at 3.5ft BGS			4SS			17
6	- no gravels, fine grained, tan/beige at 6.5ft BGS			5SS			16
8	- orange-brown at 8.5ft BGS			6SS			10
10	- fine to medium grained, light gray to white at 9.5ft BGS		8" BOREHOLE	7SS			28
12	- fine to coarse grained, tan/beige at 12.5ft BGS			8SS			23
14				9SS			30
16	- dense, fine to medium grained at 17.0ft BGS		BENTONITE CHIPS	10SS			21
18	- fine to coarse grained, tan/beige at 18.0ft BGS			11SS			21
20	- fine grained at 20.5ft BGS						
22	- very moist at 21.3ft BGS	22.00					
	END OF BOREHOLE @ 22.0ft BGS						
24							
26							
28							
30							
32							
34							
36							
38							
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42							
44							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17360-09B.GPJ CRA CORP.GDT 9/30/04



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM GRAND RAPIDS

PROJECT NUMBER: 17360-09

CLIENT: GENERAL MOTORS

LOCATION: WYOMING, MI

HOLE DESIGNATION: SB3-04

DATE COMPLETED: July 14, 2004

DRILLING METHOD: HSA/SPLIT SPOON

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	N' VALUE	PID (ppm)
	wood block floor	0.20						
	CONCRETE-with fine gravels, white	1.00	CONCRETE	1HA				3.6
2	SM-SILTY SAND, trace fine gravels, compact, fine grained, poorly graded, red brown, moist			2SS			24	3.1
4	- light brown at 2.5ft BGS			3SS			18	4.1
6	- fine to medium grained, orange brown, oxidation at 5.0ft BGS			4SS			18	3.7
8	- fine grained, tan/beige, no gravels at 6.5ft BGS			5SS			23	2.9
10	- fine to coarse grained, light gray to white, trace fine gravels at 8.3ft BGS		8" BOREHOLE	6SS			20	3.1
12				7SS			24	3.7
14				8SS			21	2.4
16			BENTONITE CHIPS	9SS			45	3.4
18	- dense, fine grained, no gravels, tan/beige at 17.5ft BGS			10SS			26	3.9
20	- compact, fine to medium grained at 18.8ft BGS			11SS			20	3.1
22	- fine grained at 20.5ft BGS							
22	- very moist at 21.8ft BGS	22.00						
22	END OF BOREHOLE @ 22.0ft BGS							
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26								
28								
30								
32								
34								
36								
38								
40								
42								
44								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17360-09B.GPJ CRA CORP.GDT 9/30/04



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM GRAND RAPIDS

HOLE DESIGNATION: SB4-04

PROJECT NUMBER: 17360-09

DATE COMPLETED: July 15, 2004

CLIENT: GENERAL MOTORS

DRILLING METHOD: HSA/SPLIT SPOON

LOCATION: WYOMING, MI

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	N' VALUE	PID (ppm)
	wood block floor	0.20						
	CONCRETE-with fine gravels, white	1.00	CONCRETE	1HA				430
2	SM-SILTY SAND, trace fine gravels, compact, fine grained, poorly graded, red brown, moist			2SS			14	442
4	- orange-brown oxidation at 2.8ft BGS			3SS			14	412
6	- fine grained, brown, no gravels at 5.0ft BGS			4SS			7	87.1
8				5SS			8	402
10			8" BOREHOLE	6SS			10	431
12	- fine to medium grained, medium brown at 11.0ft BGS			7SS			4	317
14	- fine to coarse grained, light gray to white, trace fine gravels at 12.5ft BGS			8SS			42	306
16			BENTONITE CHIPS	9SS			18	265
18	- fine grained, tan/beige, no gravels at 17.5ft BGS			10SS			28	178
20	- fine to coarse grained, trace fine gravels at 18.8ft BGS			11SS			13	219
22	END OF BOREHOLE @ 22.0ft BGS	22.00						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 17360-098.GPJ CRA CORP.GDT 9/30/04



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM GRAND RAPIDS

HOLE DESIGNATION: SB5-04

PROJECT NUMBER: 17360-09

DATE COMPLETED: July 15, 2004

CLIENT: GENERAL MOTORS

DRILLING METHOD: HSA/SPLIT SPOON

LOCATION: WYOMING, MI

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	wood block floor	0.20						
	CONCRETE	1.00	CONCRETE SEAL	1HA				786
2	SM-SILTY SAND, trace fine gravels, compact, fine grained, poorly graded, red brown, moist			2SS			26	+2000
4	- dark brown at 2.5ft BGS			3SS			14	957
6	- orange brown, oxidation, fine to medium grained, at 3.0ft BGS			4SS			22	794
8	- light brown at 5.0ft BGS			5SS			13	586
10	- fine grained, tan/beige at 6.5ft BGS		8" BOREHOLE	6SS			14	639
12	- fine to coarse grained, light gray to white, trace fine gravels at 11.5ft BGS			7SS			10	473
14				8SS			5	498
16			BENTONITE CHIPS	9SS			12	+2000
18	- well graded at 17.3ft BGS			10SS			16	1151
20	- fine grained, tan/beige, no gravels at 19.5ft BGS			11SS			6	1221
22	END OF BOREHOLE @ 22.0ft BGS	22.00						
24								
26								
28								
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32								
34								
36								
38								
40								
42								
44								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17360-09B.GPJ CRA CORP.GDT 9/30/04



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM GRAND RAPIDS

HOLE DESIGNATION: SB15-05

PROJECT NUMBER: 17360-10

DATE COMPLETED: December 3, 2005

CLIENT: GENERAL MOTORS

DRILLING METHOD: GEOPROBE

LOCATION: GRAND RAPIDS, MI

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE INSTALLATION	SAMPLE			
				NUMBER	INTERVAL	REC (%)	'N' VALUE
	WOODBLOCK/CONCRETE	0.66	CONCRETE	1GP 0-2' -540		66	
2	SM-SANDS, with silts, compact, fine grained, trace medium to coarse grained, poorly graded, dark brown, moist			2GP 2-4' -541		66	
4	- brown at 3.5ft BGS			3GP 4-6' -542		66	
6	- tan/beige at 6.0ft BGS			4GP 6-8' -543		75	
8				5GP 8-10' -544		75	
10	- brown at 11.0ft BGS		2-1/4" BOREHOLE	6GP 10-12' -545		75	
12				7GP 12-14' -546		75	
14	SP-SANDS, with fine to medium gravels, compact, fine to coarse grained, poorly graded, orange brown, moist	13.00		8GP 14-16' -547		75	
16	- tan/beige at 14.5ft BGS		BENTONITE CHIPS	9GP 16-18' -548		75	
18				10GP 18-20' -549		75	
20	END OF BOREHOLE @ 20.0ft BGS	20.00					
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 17360-10.GPJ CRA CORP.GDT 8/30/06



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM GRAND RAPIDS

HOLE DESIGNATION: SB16-05

PROJECT NUMBER: 17360-10

DATE COMPLETED: December 3, 2005

CLIENT: GENERAL MOTORS

DRILLING METHOD: GEOPROBE

LOCATION: GRAND RAPIDS, MI

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE INSTALLATION	SAMPLE			
				NUMBER	INTERVAL	REC (%)	'N' VALUE
	CONCRETE	0.50	CONCRETE	1GP 0-2' -508 -509		66	
2	SM-SANDS, with silts, compact, fine to medium grained, poorly graded, dark brown, moist			2GP 2-4' -510		66	
4	- light brown, trace coarse grained at 0.75ft BGS			3GP 4-6' -511		66	
6				4GP 6-8' -512		66	
8				5GP 8-10' -513		66	
10			2-1/4" BOREHOLE	6GP 10-12' -514		66	
12				7GP 12-14' -515		66	
14	SP-SANDS, trace silts and fine gravels, compact, fine to coarse grained, poorly graded, brown, moist	13.00		8GP 14-16' -516		66	
16	- light brown, with fine gravels at 16.0ft BGS		BENTONITE CHIPS	9GP 16-18' -517		75	
18				10GP 18-20' -518		75	
20	END OF BOREHOLE @ 20.0ft BGS	20.00					
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17360-10.GPJ CRA CORP.GDT 8/30/06



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM GRAND RAPIDS

HOLE DESIGNATION: SB17-05

PROJECT NUMBER: 17360-10

DATE COMPLETED: December 3, 2005

CLIENT: GENERAL MOTORS

DRILLING METHOD: GEOPROBE

LOCATION: GRAND RAPIDS, MI

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE INSTALLATION	SAMPLE			
				NUMBER	INTERVAL	REC (%)	'N' VALUE
0	CONCRETE	0.50	CONCRETE	1GP 0-2' -519		66	
2	SM-SANDS, with silts, compact, fine grained, trace medium to coarse grained, poorly graded, brown, moist - dark brown at 2.5ft BGS - rust brown at 3.5ft BGS			2GP 2-4' -520		66	
4				3GP 4-6' -521		66	
6	- light brown at 6.0ft BGS			4GP 6-8' -522		66	
8				5GP 8-10' -523		66	
10	SP-SANDS, with fine to medium gravels, trace silts, compact, fine to coarse grained, poorly graded, orange-brown, moist	9.50	2-1/4" BOREHOLE	6GP 10-12' -524		66	
12	- light brown at 12.0ft BGS			7GP 12-14' -525		66	
14				8GP 14-16' -526		66	
16			BENTONITE CHIPS	9GP 16-18' -527		66	
18				10GP 18-20' -528		66	
20	END OF BOREHOLE @ 20.0ft BGS	20.00					
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 17360-10.GPJ CRA CORP.GDT 8/30/06



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM GRAND RAPIDS

HOLE DESIGNATION: SB18-05

PROJECT NUMBER: 17360-10

DATE COMPLETED: December 3, 2005

CLIENT: GENERAL MOTORS

DRILLING METHOD: GEOPROBE

LOCATION: GRAND RAPIDS, MI

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE INSTALLATION	SAMPLE			
				NUMBER	INTERVAL	REC (%)	'N' VALUE
	WOODBLOCK/CONCRETE	0.66	CONCRETE	1GP 0-2' -529		66	
2	SM-SANDS, with silts, trace fine gravels, compact, fine grained, trace medium to coarse grained, poorly graded, brown, moist			2GP 2-4' -530		66	
4				3GP 4-6' -531		66	
6				4GP 6-8' -532		66	
8	- fine to coarse grained, orange brown at 8.8ft BGS			5GP 8-10' -533		66	
10	- fine grained, trace medium to coarse grained at 9.8ft BGS		2-1/4" BOREHOLE	6GP 10-12' -534 -535		66	
12	SP-SANDS, compact, fine to coarse grained, poorly graded, orange brown, moist	12.00		7GP 12-14' -536		66	
14	- light brown at 13.5ft BGS			8GP 14-16' -537		66	
16			BENTONITE CHIPS	9GP 16-18' -538		75	
18				10GP 18-20' -539		75	
20	SM-SANDS, with silts, compact, fine grained, poorly graded, light brown, moist	19.00					
20	END OF BOREHOLE @ 20.0ft BGS	20.00					
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17360-10.GPJ CRA CORP.GDT 8/30/06



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM GRAND RAPIDS

HOLE DESIGNATION: SB10-05

PROJECT NUMBER: 17360-10

DATE COMPLETED: July 11, 2005

CLIENT: GENERAL MOTORS

DRILLING METHOD: DIRECT PUSH

LOCATION: GRAND RAPIDS, MI

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	wood block & concrete flooring	0.75	CONCRETE	1DP				13.0
2	SP-SANDS, trace silts & fine gravels, compact, fine grained, poorly graded, brown, moist			2DP				11.5
4	- orange-brown at 2.0ft BGS - brown at 4.0ft BGS			3DP				12.2
6				4DP				12.7
8	- some orange streaking at 8.8ft BGS			5DP				10.4
10	- light brown at 9.5ft BGS		2-1/4" BOREHOLE	6DP				9.8
12				7DP				13.0
14		14.25		8DP				9.3
16	SW-SANDS, trace silts & fine gravels, compact, fine to coarse grained, well graded, light brown, moist		BENTONITE CHIPS	9DP				9.9
18		18.00		10DP				11.7
20	SP-SANDS, compact, fine grained, poorly graded, tan/beige, moist	20.00						
22	END OF BOREHOLE @ 20.0ft BGS							
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42								
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17360-10.GPJ CRA CORP.GDT 8/30/06



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM GRAND RAPIDS

HOLE DESIGNATION: SB11-05

PROJECT NUMBER: 17360-10

DATE COMPLETED: July 11, 2005

CLIENT: GENERAL MOTORS

DRILLING METHOD: DIRECT PUSH

LOCATION: GRAND RAPIDS, MI

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	wood block & concrete flooring	0.75	CONCRETE	1DP				11.5
2	SP-SANDS, trace silts & fine gravels, compact, fine grained, trace medium to coarse grained, poorly graded, medium brown, moist			2DP				16.0
4	- brown at 1.5ft BGS			3DP				13.3
6				4DP				18.3
8				5DP				18.8
10	- light-brown at 9.5ft BGS		2-1/4" BOREHOLE	6DP				14.2
12				7DP				21.0
14		14.50		8DP				21.0
16	SW-SANDS, trace silts & fine gravels, compact, fine to coarse grained, well graded, light brown, moist		BENTONITE CHIPS	9DP				15.9
18	SP-SANDS, trace silts, compact, fine grained, trace medium to coarse grained, poorly graded, tan/beige, moist	17.50		10DP				12.9
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17360-10.GPJ CRA CORP.GDT 8/30/06



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM GRAND RAPIDS

HOLE DESIGNATION: SB12-05

PROJECT NUMBER: 17360-10

DATE COMPLETED: July 11, 2005

CLIENT: GENERAL MOTORS

DRILLING METHOD: DIRECT PUSH

LOCATION: GRAND RAPIDS, MI

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	wood block & concrete flooring	0.75	CONCRETE	1DP				13.1
2	SP-SANDS, trace silts & fine gravels, compact, fine grained, trace medium to coarse grained, poorly graded, medium brown, moist			2DP				27.5
4	- brown, fine to medium grained at 3.5ft BGS			3DP				22.0
6				4DP				29.8
8	- fine grained, trace medium grained, light brown at 7.5ft BGS			5DP				21.5
10			2-1/4" BOREHOLE	6DP				20.0
12				7DP				18.5
14	SW-SANDS, trace silts & fine gravels, compact, fine to coarse grained, well graded, light brown, moist	14.00		8DP				18.6
16			BENTONITE CHIPS	9DP				17.3
18				10DP				16.2
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
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44								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 17360-10.GPJ CRA CORP.GDT 8/30/06



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM GRAND RAPIDS
PROJECT NUMBER: 17360-10
CLIENT: GENERAL MOTORS
LOCATION: GRAND RAPIDS, MI

HOLE DESIGNATION: SB13-05
DATE COMPLETED: July 11, 2005
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	N' VALUE	PID (ppm)
2	concrete - brown at 1.0ft BGS	0.66	CONCRETE	1DP				11.8
4	SP-SANDS, compact, fine grained, poorly graded, dark brown, moist			2DP				12.4
6				3DP				12.2
8				4DP				13.6
10				5DP				14.7
12			2-1/4" BOREHOLE	6DP				12.8
14	SW-SANDS, trace fine gravels, compact, fine to coarse grained, well graded, light brown, moist	13.00		7DP				14.7
16	- fine grained, trace medium to coarse grained, moderately graded at 16.0ft BGS			8DP				17.0
18	- fine to coarse grained, well graded at 16.5ft BGS		BENTONITE CHIPS	9DP				14.7
20	END OF BOREHOLE @ 20.0ft BGS	20.00		10DP				16.8
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42								
44								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17360-10.GPJ CRA CORP.GDT 8/30/06



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM GRAND RAPIDS

HOLE DESIGNATION: SB14-05

PROJECT NUMBER: 17360-10

DATE COMPLETED: July 12, 2005

CLIENT: GENERAL MOTORS

DRILLING METHOD: DIRECT PUSH

LOCATION: GRAND RAPIDS, MI

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	wood block & concrete flooring	0.75	CONCRETE	1DP				15.8
2	SP-SANDS, trace silts & fine gravels, compact, fine grained, trace medium grained, dark brown, moist - brown at 2.0ft BGS			2DP				13.5
4				3DP				13.5
6				4DP				13.6
8				5DP				13.3
10	SW-SANDS, trace silts & fine gravels, compact, fine to coarse grained, well graded, light brown, moist		2-1/4" BOREHOLE	6DP				18.7
12				7DP				19.7
14		13.75		8DP				21.0
16			BENTONITE CHIPS	9DP				22.6
18				10DP				21.1
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
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38								
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42								
44								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17360-10.GPJ CRA CORP.GDT 8/30/06



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM GRAND RAPIDS

HOLE DESIGNATION: SB6-05

PROJECT NUMBER: 17360-10

DATE COMPLETED: July 11, 2005

CLIENT: GENERAL MOTORS

DRILLING METHOD: DIRECT PUSH

LOCATION: GRAND RAPIDS, MI

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	wood block & concrete flooring	0.75	CONCRETE	1DP				10.1
2	SP-SANDS, trace silts & fine gravels, compact, fine grained, trace medium to coarse grained, poorly graded, medium brown, moist - brown at 3.5ft BGS - orange-brown at 13.5ft BGS			2DP				11.5
4				3DP				13.2
6				4DP				12.8
8				5DP				15.6
10			2-1/4" BOREHOLE	6DP				14.1
12				7DP				16.5
14				8DP				15.3
16			BENTONITE CHIPS	9DP				10.5
18		17.00		10DP				13.2
20	SW-SANDS, trace silts & fine gravels, compact, fine to coarse grained, well graded, light brown, moist							
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
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42								
44								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17360-10.GPJ CRA CORP.GDT 8/30/06



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM GRAND RAPIDS

HOLE DESIGNATION: SB7-05

PROJECT NUMBER: 17360-10

DATE COMPLETED: July 11, 2005

CLIENT: GENERAL MOTORS

DRILLING METHOD: DIRECT PUSH

LOCATION: GRAND RAPIDS, MI

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	"N" VALUE	PID (ppm)
	wood block & concrete flooring	0.75	CONCRETE	1DP				13.2
2	SP-SANDS, trace silts & fine gravels, compact, fine to coarse grained, poorly graded, brown, moist			2DP				28.8
4				3DP				16.8
6	- fine grained, light brown at 6.0ft BGS			4DP				18.4
8				5DP				21.7
10			2-1/4" BOREHOLE	6DP				21.5
12				7DP				23.8
14		14.25		8DP				15.6
16	SW-SANDS, trace silts & fine gravels, compact, fine to coarse grained, well graded, light brown, moist		BENTONITE CHIPS	9DP				14.7
18				10DP				9.8
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								
36								
38								
40								
42								
44								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 17360-10.GPJ CRA CORP.GDT 8/30/06



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM GRAND RAPIDS

HOLE DESIGNATION: SB8-05

PROJECT NUMBER: 17360-10

DATE COMPLETED: July 12, 2005

CLIENT: GENERAL MOTORS

DRILLING METHOD: DIRECT PUSH

LOCATION: GRAND RAPIDS, MI

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	wood block & concrete flooring	0.75	CONCRETE	1DP				26.3
2	SP-SANDS, trace silts & fine gravels, compact, fine to coarse grained, poorly graded, brown, moist - brown at 2.5ft BGS			2DP				23.7
4				3DP				18.2
6				4DP				21.0
8				5DP				18.9
10	- light brown at 9.5ft BGS		2-1/4" BOREHOLE	6DP				29.9
12				7DP				18.9
14	SW-SANDS, trace silts & fine gravels, compact, fine to coarse grained, well graded, light brown, moist	14.00		8DP				16.2
16			BENTONITE CHIPS	9DP				14.8
18				10DP				15.0
20								
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								
36								
38								
40								
42								
44								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 17360-10.GPJ CRA CORP.GDT 8/30/06



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM GRAND RAPIDS
PROJECT NUMBER: 17360-10
CLIENT: GENERAL MOTORS
LOCATION: GRAND RAPIDS, MI

HOLE DESIGNATION: SB9-05
DATE COMPLETED: July 11, 2005
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	wood block & concrete flooring	0.75	CONCRETE	1DP				9.5
2	SP-SANDS, trace silts & fine gravels, compact, fine to coarse grained, poorly graded, brown, moist		2-1/4" BOREHOLE	2DP				14.6
4				3DP				17.7
6				4DP				17.6
8				5DP				17.7
10				6DP				13.9
12	SW-SANDS, trace silts & fine gravels, compact, fine to coarse grained, well graded, light brown, moist	14.25	BENTONITE CHIPS	7DP				14.0
14				8DP				11.5
16				9DP				8.7
18				10DP				7.9
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								
36								
38								
40								
42								
44								

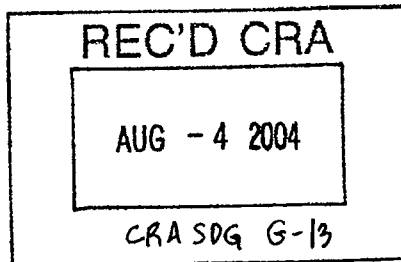
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ☐

OVERBURDEN LOG 17360-10.GPJ CRA CORP.GDT 8/30/06

ATTACHMENT B

LABORATORY ANALYTICAL DATA



STL

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720

Tel: 330 497 9396 Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 17360-09

GM-GRAND RAPIDS

Lot #: A4G150200

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT

Project#: 17360-09 Lab#: A4G150200

Name: GM GRAND RAPIDS.

Description

SEVERN TRENT LABORATORIES, INC. Event: VAS Sampling
Samples: 22 solids DCR 078-099.
Analysis: TCL VOCs.

TAT: STANDARD TAT

Lab: STL-NC


Amy L. McCormick
Project Manager

Checked Against Preliminary Data:

Date: N/A Init.: N/A

Date of Validation Memo: 10/20/04

Invoice Approval Date: _____

Comments: _____

July 30, 2004

107C

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.

14496 Sheldon Road, Suite 200

Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name):

STL - North Canton

REFERENCE NUMBER:

17360-09

PROJECT NAME: GM-Grand Rapids

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: <i>[Signature]</i>		PRINTED NAME: David Clowers		PARAMETERS	REMARKS
SEQ. No.	DATE	TIME	SAMPLE TYPE		
	7/14/05	10:50	S-17360-071404-DEP-078	2	STD TAT
		10:55	-079	2	
		11:00	-080	2	
		11:05	-081	2	
		11:10	-082	2	
		11:15	-083	2	
		11:25	-084	2	
		11:30	-085	2	
		11:40	-086	2	
		11:50	-087	2	
		12:00	-088	2	
		13:55	-089	2	
		14:00	-090	2	
		14:05	-091	2	
TOTAL NUMBER OF CONTAINERS				28	

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
1. <i>[Signature]</i>	7-14-05	1915	1. _____	_____	_____
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
2. _____	_____	_____	2. _____	_____	_____
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
3. _____	_____	_____	3. _____	_____	_____

AIR BILL No. 831896653065

METHOD OF SHIPMENT: FED EX

SAMPLE TEAM:		RECEIVED FOR LABORATORY BY:	
White	-Fully Executed Copy	<i>[Signature]</i>	DATE: 7-15-04 TIME: 10:00
Yellow	-Receiving Laboratory Copy	David Clowers	

27170

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.

14496 Sheldon Road, Suite 200

Plymouth, MI 48170 • (734) 453-5123

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: [Signature] PRINTED NAME: David C Rovers

SEQ: No. DATE TIME

7/14/04 1410

1415

1420

1430

1440

1445

1455

1505

S-17360-071904-D02-092

-093

-094

-095

-096

-097

-098

-099

SAMPLE TYPE

Sol

CONTAINERS

2

2

2

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PARAMETERS

TCL 100%

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Y

Y

Y

Y

Y

Y

Y

Y

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Y

Y

Y

REMARKS

STD TRAF

TOTAL NUMBER OF CONTAINERS

16

RELINQUISHED BY:

1. [Signature]

RELINQUISHED BY:

2. [Signature]

RELINQUISHED BY:

3. [Signature]

DATE: 7-14-04 RECEIVED BY:

TIME: 1915

DATE: 7-15-04 RECEIVED BY:

TIME: 1915

DATE: 7-15-04 RECEIVED BY:

TIME: 1915

DATE:

TIME:

DATE:

TIME:

DATE:

TIME:

METHOD OF SHIPMENT: FED EX

AIR BILL No. 8318 9665 3065

White - Fully Executed Copy
Yellow - Receiving Laboratory Copy

SAMPLE TEAM:

David C Rovers

RECEIVED FOR LABORATORY BY:

Angela M. Mattina

DATE: 7-15-04 TIME: 10:00

27171

CASE NARRATIVE

CASE NARRATIVE

A4G150200

The following report contains the analytical results for twenty-two solid samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Grand Rapids Site, project number 17360-09. The samples were received July 15, 2004, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to the Chemistry Department on July 29, 2004. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

If you have any questions, please call the Project Manager, Amy L. McCormick, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 5.8°C.

CASE NARRATIVE (continued)

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

- *for analyses run on TJA Trace ICP, ICPMS or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide, PCB, and PAH methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria.



STL North Canton Certifications and Approvals:

Alabama (#41170), California (#01144CA), Connecticut (#PH-0590), Florida (#E87225), Illinois (#100439), Kansas (#E10336), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Ohio (#6090), OhioVAP (#CL0024), Rhode Island (#237), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), Utah (#QUAN9), Virginia (#00011), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence - Participating Lab Status Award (#82)

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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

AAG150200

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-17360-071404-DCR-078 07/14/04 10:50 001				
Chloromethane	25 J,B	540	ug/kg	SW846 8260B
Cyclohexane	18 J	2600	ug/kg	SW846 8260B
Methylcyclohexane	100 J	2600	ug/kg	SW846 8260B
Toluene	42 J	220	ug/kg	SW846 8260B
Trichloroethene	2800	110	ug/kg	SW846 8260B
Xylenes (total)	84 J	330	ug/kg	SW846 8260B
Percent Solids	95.8	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-079 07/14/04 10:55 002				
Chloromethane	33 J,B	320	ug/kg	SW846 8260B
Percent Solids	98.2	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-080 07/14/04 11:00 003				
Trichloroethene	20 J	59	ug/kg	SW846 8260B
Percent Solids	98.2	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-081 07/14/04 11:05 004				
Chloromethane	46 J,B	400	ug/kg	SW846 8260B
Percent Solids	95.9	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-082 07/14/04 11:10 005				
Chloromethane	26 J,B	270	ug/kg	SW846 8260B
Trichloroethene	78	53	ug/kg	SW846 8260B
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-083 07/14/04 11:15 006				
Chloromethane	24 J,B	260	ug/kg	SW846 8260B
Trichloroethene	24 J	51	ug/kg	SW846 8260B
Percent Solids	97.7	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-084 07/14/04 11:25 007				
Chloromethane	23 J,B	250	ug/kg	SW846 8260B
Trichloroethene	40 J	50	ug/kg	SW846 8260B
Percent Solids	97.9	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4GL50200

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
S-17360-071404-DCR-085 07/14/04 11:30 008				
Chloromethane	24 J,B	260	ug/kg	SW846 8260B
Trichloroethene	31 J	53	ug/kg	SW846 8260B
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-086 07/14/04 11:40 009				
Chloromethane	24 J,B	290	ug/kg	SW846 8260B
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-087 07/14/04 11:50 010				
Chloromethane	22 J,B	270	ug/kg	SW846 8260B
Trichloroethene	20 J	55	ug/kg	SW846 8260B
Percent Solids	96.3	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-088 07/14/04 12:00 011				
Chloromethane	20 J,B	260	ug/kg	SW846 8260B
Percent Solids	96.7	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-089 07/14/04 13:55 012				
Methylcyclohexane	200 J	10000	ug/kg	SW846 8260B
Toluene	160 J	860	ug/kg	SW846 8260B
Trichloroethene	12000	430	ug/kg	SW846 8260B
Xylenes (total)	280 J	1300	ug/kg	SW846 8260B
Percent Solids	95.0	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-090 07/14/04 14:00 013				
Chloromethane	22 J,B	290	ug/kg	SW846 8260B
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-091 07/14/04 14:05 014				
Percent Solids	97.6	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-092 07/14/04 14:10 015				
Percent Solids	97.0	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4G150200

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
S-17360-071404-DCR-093 07/14/04 14:15 016				
Trichloroethene	40 J	58	ug/kg	SW846 8260B
Percent Solids	95.0	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-094 07/14/04 14:20 017				
Trichloroethene	22 J	61	ug/kg	SW846 8260B
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-095 07/14/04 14:30 018				
Chloromethane	19 J,B	270	ug/kg	SW846 8260B
Trichloroethene	22 J	55	ug/kg	SW846 8260B
Percent Solids	96.3	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-096 07/14/04 14:40 019				
Chloromethane	18 J,B	290	ug/kg	SW846 8260B
Trichloroethene	87	57	ug/kg	SW846 8260B
Percent Solids	96.8	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-097 07/14/04 14:45 020				
Trichloroethene	63	55	ug/kg	SW846 8260B
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-098 07/14/04 14:55 021				
Trichloroethene	27 J	59	ug/kg	SW846 8260B
Percent Solids	97.0	10.0	%	MCAWW 160.3 MOD
S-17360-071404-DCR-099 07/14/04 15:05 022				
Trichloroethene	46 J	55	ug/kg	SW846 8260B
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A4G150200

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Total Residue as Percent Solids	MCAWW 160.3 MOD
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A4G150200

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GK5LT	001	S-17360-071404-DCR-078	07/14/04	10:50
GK5L7	002	S-17360-071404-DCR-079	07/14/04	10:55
GK5L9	003	S-17360-071404-DCR-080	07/14/04	11:00
GK5MC	004	S-17360-071404-DCR-081	07/14/04	11:05
GK566	005	S-17360-071404-DCR-082	07/14/04	11:10
GK568	006	S-17360-071404-DCR-083	07/14/04	11:15
GK57C	007	S-17360-071404-DCR-084	07/14/04	11:25
GK57D	008	S-17360-071404-DCR-085	07/14/04	11:30
GK57E	009	S-17360-071404-DCR-086	07/14/04	11:40
GK57F	010	S-17360-071404-DCR-087	07/14/04	11:50
GK57H	011	S-17360-071404-DCR-088	07/14/04	12:00
GK57J	012	S-17360-071404-DCR-089	07/14/04	13:55
GK57K	013	S-17360-071404-DCR-090	07/14/04	14:00
GK57M	014	S-17360-071404-DCR-091	07/14/04	14:05
GK57N	015	S-17360-071404-DCR-092	07/14/04	14:10
GK57P	016	S-17360-071404-DCR-093	07/14/04	14:15
GK57Q	017	S-17360-071404-DCR-094	07/14/04	14:20
GK57R	018	S-17360-071404-DCR-095	07/14/04	14:25
GK57T	019	S-17360-071404-DCR-096	07/14/04	14:30
GK57V	020	S-17360-071404-DCR-097	07/14/04	14:35
GK57W	021	S-17360-071404-DCR-098	07/14/04	14:55
GK57X	022	S-17360-071404-DCR-099	07/14/04	15:05

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

***SHIPPING
AND
RECEIVING DOCUMENTS***

1012

CRA
CONESTOGA-ROVERS & ASSOCIATES, INC.
14496 Sheldon Road, Suite 200
Plymouth, MI 48170 • (734) 453-5123

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: [Signature] PRINTED NAME: Daniel C. Rovers

SHIPPED TO (Laboratory Name): STL - North Canton

REFERENCE NUMBER: 17360-09

PROJECT NAME: GM-Grand Rapids

SEQ. No.	DATE	TIME	SAMPLE TYPE	CONTAINERS	PARAMETERS		REMARKS
					PARAMETERS	REMARKS	
	7/14/84	10:50	S-17360-071404-DNR-078	2			STD TAT
		10:53	-079	2			
		11:00	-080	2			
		11:05	-081	2			
		11:10	-082	2			
		11:15	-083	2			
		11:25	-084	2			
		11:30	-085	2			
		11:40	-086	2			
		11:50	-087	2			
		12:00	-088	2			
		13:55	-089	2			
		14:00	-090	2			
		14:05	-091	2			
				TOTAL NUMBER OF CONTAINERS		28	

RELINQUISHED BY: 1. [Signature] DATE: 7-14-84 TIME: 1915

RELINQUISHED BY: 2. _____ DATE: _____ TIME: _____

RELINQUISHED BY: 3. _____ DATE: _____ TIME: _____

RECEIVED BY: 1. _____ DATE: _____ TIME: _____

RECEIVED BY: 2. _____ DATE: _____ TIME: _____

RECEIVED BY: 3. _____ DATE: _____ TIME: _____

METHOD OF SHIPMENT: FED EX AIR BILL No. 831896653065

White - Fully Executed Copy Pink - Shipper Copy Yellow - Receiving Laboratory Copy Goldstod - Sampler Copy

SAMPLE TEAM: Daniel C. Rovers

RECEIVED FOR LABORATORY BY: [Signature]

DATE: 7-15-84 TIME: 10:00

27170

RSR280
 Client: 57787
 Lot #: A4G150200
 Case Number/SDG: 17360-09
 Storage Location: C116 MS

Severn Trent Laboratories, Inc.
 Sample Control Record

Laboratory Sample I.D.	Transferred By	Date	Entered	Removed	Reason	Date Returned
GK5LT	STILLERJ	7/15/04	Yes		Storage	
GK5L7	STILLERJ	7/15/04	Yes		Storage	
GK5L9	STILLERJ	7/15/04	Yes		Storage	
GK5MC	STILLERJ	7/15/04	Yes		Storage	
GK566	STILLERJ	7/15/04	Yes		Storage	
GK568	STILLERJ	7/15/04	Yes		Storage	
GK57C	STILLERJ	7/15/04	Yes		Storage	
GK57D	STILLERJ	7/15/04	Yes		Storage	
GK57E	STILLERJ	7/15/04	Yes		Storage	
GK57F	STILLERJ	7/15/04	Yes		Storage	
GK57H	STILLERJ	7/15/04	Yes		Storage	
GK57J	STILLERJ	7/15/04	Yes		Storage	
GK57K	STILLERJ	7/15/04	Yes		Storage	
GK57M	STILLERJ	7/15/04	Yes		Storage	
GK57N	STILLERJ	7/15/04	Yes		Storage	
GK57P	STILLERJ	7/15/04	Yes		Storage	
GK57Q	STILLERJ	7/15/04	Yes		Storage	
GK57R	STILLERJ	7/15/04	Yes		Storage	
GK57T	STILLERJ	7/15/04	Yes		Storage	
GK57V	STILLERJ	7/15/04	Yes		Storage	
GK57W	STILLERJ	7/15/04	Yes		Storage	
GK57X	STILLERJ	7/15/04	Yes		Storage	

STL Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: 44615000

Client: CRA

Cooler Received on: 7-15-04

Project: GM - Grand Rapids

Opened on: 7-15-04

Quote#:

by: Angela Matthews
 (Signature)

Fedx ☒ Client Drop Off ☐ UPS ☐ DHL ☐ FAS ☐ Other: _____

STL Cooler No# _____ Foam Box ☐ Client Cooler ☒ Other _____

1. Were custody seals on the outside of the cooler? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
 If YES, Quantity _____

Were the custody seals signed and dated?

Yes ☐ No ☒ NA ☐

2. Shipper's packing slip attached to this form?

Yes ☒ No ☐ NA ☐

3. Did custody papers accompany the samples? Yes ☒ No ☐

Relinquished by client? Yes ☒ No ☐

4. Did you sign the custody papers in the appropriate place?

Yes ☒ No ☐

5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐

Other: _____

6. Cooler temperature upon receipt 5.8 °C (see back of form for multiple coolers/temp)

METHOD: Temp Vial ☐ Coolant & Sample ☒ Against Bottles ☐ IR ☐ ICE/H₂O Slurry ☐

COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐

7. Did all bottles arrive in good condition (Unbroken)?

Yes ☒ No ☐

8. Could all bottle labels and/or tags be reconciled with the COC?

Yes ☒ No ☐

9. Were samples at the correct pH? (record below/on back)

Yes ☐ No ☐ NA ☒

10. Were correct bottles used for the tests indicated?

Yes ☒ No ☐

11. Were air bubbles > 6 mm in any VOA vials?

Yes ☐ No ☐ NA ☒

12. Sufficient quantity received to perform indicated analyses?

Yes ☒ No ☐

Contacted PM _____ Date: _____ by: _____ via Voice Mail ☐ Verbal ☐ Other ☐

Concerning: _____

1. CHAIN OF CUSTODY

The following discrepancies occurred:

2. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). Nitric Acid Lot #122603-HNO₃; Sulfuric Acid Lot # 011-304-H₂SO₄; Sodium Hydroxide Lot # 111401-NaOH; Hydrochloric Acid Lot # 100902-HCl; Sodium Hydroxide and Zinc Acetate Lot # 112801-CH₃COOZZN/NaOH

Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

Client ID	pH	Date	Initials

[illegible]

GCMS VOLATILE DATA

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-078

GC/MS Volatiles

Lot-Sample #....: A4G150200-001 **Work Order #....:** GK5LT1AA **Matrix.....:** SO
Date Sampled....: 07/14/04 10:50 **Date Received...:** 07/15/04
Prep Date.....: 07/16/04 **Analysis Date...:** 07/20/04
Prep Batch #....: 4202313
Dilution Factor: 2.08 **Initial Wgt/Vol:** 24 g **Final Wgt/Vol...:** 25 mL
% Moisture.....: 4.2 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	1600	ug/kg	220
Benzene	ND	110	ug/kg	14
Bromodichloromethane	ND	220	ug/kg	26
Bromoform	ND	220	ug/kg	28
Bromomethane	ND	540	ug/kg	54
2-Butanone	ND	1600	ug/kg	110
Carbon disulfide	ND	540	ug/kg	43
Carbon tetrachloride	ND	110	ug/kg	26
Chlorobenzene	ND	110	ug/kg	14
Chloroethane	ND	540	ug/kg	140
Chloroform	ND	110	ug/kg	26
Chloromethane	25 J,B	540	ug/kg	11
Cyclohexane	18 J	2600	ug/kg	17
Dibromochloromethane	ND	110	ug/kg	15
1,2-Dibromo-3-chloro-propane	ND	540	ug/kg	130
1,2-Dibromoethane	ND	540	ug/kg	22
1,2-Dichlorobenzene	ND	220	ug/kg	37
1,3-Dichlorobenzene	ND	220	ug/kg	16
1,4-Dichlorobenzene	ND	220	ug/kg	17
Dichlorodifluoromethane	ND	220	ug/kg	12
1,1-Dichloroethane	ND	110	ug/kg	16
1,2-Dichloroethane	ND	110	ug/kg	20
1,1-Dichloroethene	ND	110	ug/kg	18
cis-1,2-Dichloroethene	ND	110	ug/kg	30
trans-1,2-Dichloroethene	ND	110	ug/kg	24
1,2-Dichloropropane	ND	110	ug/kg	16
cis-1,3-Dichloropropene	ND	110	ug/kg	12
trans-1,3-Dichloropropene	ND	110	ug/kg	12
Ethylbenzene	ND	110	ug/kg	15
2-Hexanone	ND	5400	ug/kg	52
Isopropylbenzene	ND	540	ug/kg	11
Methyl acetate	ND	2600	ug/kg	110
Methylene chloride	ND	540	ug/kg	220
Methylcyclohexane	100 J	2600	ug/kg	12
4-Methyl-2-pentanone	ND	5400	ug/kg	24
Methyl tert-butyl ether	ND	540	ug/kg	22
Styrene	ND	110	ug/kg	61

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-078

GC/MS Volatiles

Lot-Sample #...: A4G150200-001 Work Order #...: GK5LT1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	220	ug/kg	18
Tetrachloroethene	ND	110	ug/kg	20
Toluene	42 J	220	ug/kg	20
1,2,4-Trichloro- benzene	ND	540	ug/kg	26
1,1,1-Trichloroethane	ND	110	ug/kg	21
1,1,2-Trichloroethane	ND	110	ug/kg	22
Trichloroethene	2800	110	ug/kg	26
Trichlorofluoromethane	ND	220	ug/kg	18
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	540	ug/kg	22
Vinyl chloride	ND	220	ug/kg	35
Xylenes (total)	84 J	330	ug/kg	33

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	71 DIL	(59 - 138)
1,2-Dichloroethane-d4	78 DIL	(61 - 130)
oluene-d8	91 DIL	(60 - 143)
4-Bromofluorobenzene	82 DIL	(47 - 158)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-079

GC/MS Volatiles

Lot-Sample #....: A4G150200-002 Work Order #....: GK5L71AA Matrix.....: SO
 Date Sampled....: 07/14/04 10:55 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #....: 4202313
 Dilution Factor: 1.24 Initial Wgt/Vol: 20.2 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 1.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	950	ug/kg	130
Benzene	ND	63	ug/kg	8.1
Bromodichloromethane	ND	130	ug/kg	15
Bromoform	ND	130	ug/kg	16
Bromomethane	ND	320	ug/kg	32
2-Butanone	ND	950	ug/kg	62
Carbon disulfide	ND	320	ug/kg	25
Carbon tetrachloride	ND	63	ug/kg	15
Chlorobenzene	ND	63	ug/kg	8.0
Chloroethane	ND	320	ug/kg	82
Chloroform	ND	63	ug/kg	15
Chloromethane	33 J,B	320	ug/kg	6.6
Cyclohexane	ND	1500	ug/kg	9.7
Dibromochloromethane	ND	63	ug/kg	8.7
1,2-Dibromo-3-chloro- propane	ND	320	ug/kg	76
1,2-Dibromoethane	ND	320	ug/kg	13
1,2-Dichlorobenzene	ND	130	ug/kg	21
1,3-Dichlorobenzene	ND	130	ug/kg	9.1
1,4-Dichlorobenzene	ND	130	ug/kg	10
Dichlorodifluoromethane	ND	130	ug/kg	6.8
1,1-Dichloroethane	ND	63	ug/kg	9.2
1,2-Dichloroethane	ND	63	ug/kg	12
1,1-Dichloroethene	ND	63	ug/kg	10
cis-1,2-Dichloroethene	ND	63	ug/kg	18
trans-1,2-Dichloroethene	ND	63	ug/kg	14
1,2-Dichloropropane	ND	63	ug/kg	9.3
cis-1,3-Dichloropropene	ND	63	ug/kg	6.9
trans-1,3-Dichloropropene	ND	63	ug/kg	6.8
Ethylbenzene	ND	63	ug/kg	8.6
2-Hexanone	ND	3200	ug/kg	30
Isopropylbenzene	ND	320	ug/kg	6.4
Methyl acetate	ND	1500	ug/kg	66
Methylene chloride	ND	320	ug/kg	130
Methylcyclohexane	ND	1500	ug/kg	7.2
4-Methyl-2-pentanone	ND	3200	ug/kg	14
Methyl tert-butyl ether	ND	320	ug/kg	13
Styrene	ND	63	ug/kg	35

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-079

GC/MS Volatiles

Lot-Sample #....: A4G150200-002 Work Order #....: GK5L71AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	130	ug/kg	10
Tetrachloroethene	ND	63	ug/kg	11
Toluene	ND	130	ug/kg	11
1,2,4-Trichloro- benzene	ND	320	ug/kg	15
1,1,1-Trichloroethane	ND	63	ug/kg	12
1,1,2-Trichloroethane	ND	63	ug/kg	13
Trichloroethene	ND	63	ug/kg	15
Trichlorofluoromethane	ND	130	ug/kg	10
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	320	ug/kg	13
Vinyl chloride	ND	130	ug/kg	20
Xylenes (total)	ND	190	ug/kg	19

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	76	(59 - 138)
1,2-Dichloroethane-d4	80	(61 - 130)
Toluene-d8	93	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-080

GC/MS Volatiles

Lot-Sample #....: A4G150200-003 Work Order #....: GK5L91AA Matrix.....: SO
 Date Sampled....: 07/14/04 11:00 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4202313
 Dilution Factor: 1.16 Initial Wgt/Vol: 21.6 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 1.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	890	ug/kg	120
Benzene	ND	59	ug/kg	7.6
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	300	ug/kg	30
2-Butanone	ND	890	ug/kg	58
Carbon disulfide	ND	300	ug/kg	24
Carbon tetrachloride	ND	59	ug/kg	14
Chlorobenzene	ND	59	ug/kg	7.4
Chloroethane	ND	300	ug/kg	77
Chloroform	ND	59	ug/kg	14
Chloromethane	ND	300	ug/kg	6.1
Cyclohexane	ND	1400	ug/kg	9.1
Dibromochloromethane	ND	59	ug/kg	8.1
1,2-Dibromo-3-chloro- propane	ND	300	ug/kg	71
1,2-Dibromoethane	ND	300	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.5
1,4-Dichlorobenzene	ND	120	ug/kg	9.3
Dichlorodifluoromethane	ND	120	ug/kg	6.4
1,1-Dichloroethane	ND	59	ug/kg	8.6
1,2-Dichloroethane	ND	59	ug/kg	11
1,1-Dichloroethene	ND	59	ug/kg	9.8
cis-1,2-Dichloroethene	ND	59	ug/kg	17
trans-1,2-Dichloroethene	ND	59	ug/kg	13
1,2-Dichloropropane	ND	59	ug/kg	8.7
cis-1,3-Dichloropropene	ND	59	ug/kg	6.5
trans-1,3-Dichloropropene	ND	59	ug/kg	6.4
Ethylbenzene	ND	59	ug/kg	8.0
2-Hexanone	ND	3000	ug/kg	28
Isopropylbenzene	ND	300	ug/kg	6.0
Methyl acetate	ND	1400	ug/kg	61
Methylene chloride	ND	300	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.7
4-Methyl-2-pentanone	ND	3000	ug/kg	13
Methyl tert-butyl ether	ND	300	ug/kg	12
Styrene	ND	59	ug/kg	33

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-080

GC/MS Volatiles

Lot-Sample #...: A4G150200-003 Work Order #...: GK5L91AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.7
Tetrachloroethene	ND	59	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	300	ug/kg	14
1,1,1-Trichloroethane	ND	59	ug/kg	11
1,1,2-Trichloroethane	ND	59	ug/kg	12
Trichloroethene	20 J	59	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	300	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	71	(59 - 138)
1,2-Dichloroethane-d4	81	(61 - 130)
Toluene-d8	95	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-081

GC/MS Volatiles

Lot-Sample #....: A4G150200-004 Work Order #....: GK5MC1AA Matrix.....: SO
 Date Sampled....: 07/14/04 11:05 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #....: 4202313
 Dilution Factor: 1.52 Initial Wgt/Vol: 16.4 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 4.1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	1200	ug/kg	160
Benzene	ND	79	ug/kg	10
Bromodichloromethane	ND	160	ug/kg	19
Bromoform	ND	160	ug/kg	21
Bromomethane	ND	400	ug/kg	40
2-Butanone	ND	1200	ug/kg	78
Carbon disulfide	ND	400	ug/kg	32
Carbon tetrachloride	ND	79	ug/kg	19
Chlorobenzene	ND	79	ug/kg	10
Chloroethane	ND	400	ug/kg	100
Chloroform	ND	79	ug/kg	19
Chloromethane	46 J,B	400	ug/kg	8.2
Cyclohexane	ND	1900	ug/kg	12
Dibromochloromethane	ND	79	ug/kg	11
1,2-Dibromo-3-chloro- propane	ND	400	ug/kg	95
1,2-Dibromoethane	ND	400	ug/kg	16
1,2-Dichlorobenzene	ND	160	ug/kg	27
1,3-Dichlorobenzene	ND	160	ug/kg	11
1,4-Dichlorobenzene	ND	160	ug/kg	13
Dichlorodifluoromethane	ND	160	ug/kg	8.6
1,1-Dichloroethane	ND	79	ug/kg	12
1,2-Dichloroethane	ND	79	ug/kg	15
1,1-Dichloroethene	ND	79	ug/kg	13
cis-1,2-Dichloroethene	ND	79	ug/kg	22
trans-1,2-Dichloroethene	ND	79	ug/kg	17
1,2-Dichloropropane	ND	79	ug/kg	12
cis-1,3-Dichloropropene	ND	79	ug/kg	8.7
trans-1,3-Dichloropropene	ND	79	ug/kg	8.6
Ethylbenzene	ND	79	ug/kg	11
2-Hexanone	ND	4000	ug/kg	38
Isopropylbenzene	ND	400	ug/kg	8.1
Methyl acetate	ND	1900	ug/kg	82
Methylene chloride	ND	400	ug/kg	160
Methylcyclohexane	ND	1900	ug/kg	9.0
4-Methyl-2-pentanone	ND	4000	ug/kg	17
Methyl tert-butyl ether	ND	400	ug/kg	16
Styrene	ND	79	ug/kg	44

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-081

GC/MS Volatiles

Lot-Sample #....: A4G150200-004 Work Order #....: GK5MC1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	160	ug/kg	13
Tetrachloroethene	ND	79	ug/kg	14
Toluene	ND	160	ug/kg	14
1,2,4-Trichloro- benzene	ND	400	ug/kg	19
1,1,1-Trichloroethane	ND	79	ug/kg	15
1,1,2-Trichloroethane	ND	79	ug/kg	16
Trichloroethene	ND	79	ug/kg	19
Trichlorofluoromethane	ND	160	ug/kg	13
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	400	ug/kg	16
Vinyl chloride	ND	160	ug/kg	25
Xylenes (total)	ND	240	ug/kg	24

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	76	(59 - 138)
,2-Dichloroethane-d4	80	(61 - 130)
Toluene-d8	97	(60 - 143)
4-Bromofluorobenzene	90	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-082

GC/MS Volatiles

Lot-Sample #....: A4G150200-005 **Work Order #....:** GK5661AA **Matrix.....:** SO
Date Sampled....: 07/14/04 11:10 **Date Received...:** 07/15/04
Prep Date.....: 07/16/04 **Analysis Date...:** 07/19/04
Prep Batch #....: 4202313
Dilution Factor: 1.05 **Initial Wgt/Vol:** 23.7 g **Final Wgt/Vol...:** 25 mL
% Moisture.....: 1.9 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	800	ug/kg	110
Benzene	ND	53	ug/kg	6.8
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	14
Bromomethane	ND	270	ug/kg	27
2-Butanone	ND	800	ug/kg	52
Carbon disulfide	ND	270	ug/kg	21
Carbon tetrachloride	ND	53	ug/kg	13
Chlorobenzene	ND	53	ug/kg	6.7
Chloroethane	ND	270	ug/kg	70
Chloroform	ND	53	ug/kg	13
Chloromethane	26 J,B	270	ug/kg	5.6
Cyclohexane	ND	1300	ug/kg	8.2
Dibromochloromethane	ND	53	ug/kg	7.4
1,2-Dibromo-3-chloro-propane	ND	270	ug/kg	64
1,2-Dibromoethane	ND	270	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	18
1,3-Dichlorobenzene	ND	110	ug/kg	7.7
1,4-Dichlorobenzene	ND	110	ug/kg	8.5
Dichlorodifluoromethane	ND	110	ug/kg	5.8
1,1-Dichloroethane	ND	53	ug/kg	7.8
1,2-Dichloroethane	ND	53	ug/kg	10
1,1-Dichloroethene	ND	53	ug/kg	8.9
cis-1,2-Dichloroethene	ND	53	ug/kg	15
trans-1,2-Dichloroethene	ND	53	ug/kg	12
1,2-Dichloropropane	ND	53	ug/kg	7.9
cis-1,3-Dichloropropene	ND	53	ug/kg	5.9
trans-1,3-Dichloropropene	ND	53	ug/kg	5.8
Ethylbenzene	ND	53	ug/kg	7.3
2-Hexanone	ND	2700	ug/kg	26
Isopropylbenzene	ND	270	ug/kg	5.5
Methyl acetate	ND	1300	ug/kg	56
Methylene chloride	ND	270	ug/kg	110
Methylcyclohexane	ND	1300	ug/kg	6.1
4-Methyl-2-pentanone	ND	2700	ug/kg	12
Methyl tert-butyl ether	ND	270	ug/kg	11
Styrene	ND	53	ug/kg	30

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-082

GC/MS Volatiles

Lot-Sample #...: A4G150200-005 Work Order #...: GK5661AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	8.8
Tetrachloroethene	ND	53	ug/kg	9.6
Toluene	ND	110	ug/kg	9.7
1,2,4-Trichloro- benzene	ND	270	ug/kg	13
1,1,1-Trichloroethane	ND	53	ug/kg	10
1,1,2-Trichloroethane	ND	53	ug/kg	11
Trichloroethene	78	53	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	8.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	270	ug/kg	11
Vinyl chloride	ND	110	ug/kg	17
Xylenes (total)	ND	160	ug/kg	16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	73	(59 - 138)
1,2-Dichloroethane-d4	78	(61 - 130)
Toluene-d8	94	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-083

GC/MS Volatiles

Lot-Sample #....: A4G150200-006 **Work Order #....:** GK5681AA **Matrix.....:** SO
Date Sampled....: 07/14/04 11:15 **Date Received...:** 07/15/04
Prep Date.....: 07/16/04 **Analysis Date...:** 07/19/04
Prep Batch #....: 4202313
Dilution Factor: 1 **Initial Wgt/Vol:** 24.9 g **Final Wgt/Vol...:** 25 mL
% Moisture.....: 2.3 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	770	ug/kg	100
Benzene	ND	51	ug/kg	6.5
Bromodichloromethane	ND	100	ug/kg	12
Bromoform	ND	100	ug/kg	13
Bromomethane	ND	260	ug/kg	26
2-Butanone	ND	770	ug/kg	50
Carbon disulfide	ND	260	ug/kg	20
Carbon tetrachloride	ND	51	ug/kg	12
Chlorobenzene	ND	51	ug/kg	6.4
Chloroethane	ND	260	ug/kg	67
Chloroform	ND	51	ug/kg	12
Chloromethane	24 J,B	260	ug/kg	5.3
Cyclohexane	ND	1200	ug/kg	7.9
Dibromochloromethane	ND	51	ug/kg	7.1
1,2-Dibromo-3-chloro- propane	ND	260	ug/kg	61
1,2-Dibromoethane	ND	260	ug/kg	10
1,2-Dichlorobenzene	ND	100	ug/kg	17
1,3-Dichlorobenzene	ND	100	ug/kg	7.4
1,4-Dichlorobenzene	ND	100	ug/kg	8.1
Dichlorodifluoromethane	ND	100	ug/kg	5.5
1,1-Dichloroethane	ND	51	ug/kg	7.5
1,2-Dichloroethane	ND	51	ug/kg	9.5
1,1-Dichloroethene	ND	51	ug/kg	8.5
cis-1,2-Dichloroethene	ND	51	ug/kg	14
trans-1,2-Dichloroethene	ND	51	ug/kg	11
1,2-Dichloropropane	ND	51	ug/kg	7.6
cis-1,3-Dichloropropene	ND	51	ug/kg	5.6
trans-1,3-Dichloropropene	ND	51	ug/kg	5.5
Ethylbenzene	ND	51	ug/kg	7.0
2-Hexanone	ND	2600	ug/kg	25
Isopropylbenzene	ND	260	ug/kg	5.2
Methyl acetate	ND	1200	ug/kg	53
Methylene chloride	ND	260	ug/kg	100
Methylcyclohexane	ND	1200	ug/kg	5.8
4-Methyl-2-pentanone	ND	2600	ug/kg	11
Methyl tert-butyl ether	ND	260	ug/kg	10
Styrene	ND	51	ug/kg	29

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-083

GC/MS Volatiles

Lot-Sample #....: A4G150200-006 Work Order #....: GK5681AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	100	ug/kg	8.4
Tetrachloroethene	ND	51	ug/kg	9.2
Toluene	ND	100	ug/kg	9.3
1,2,4-Trichloro- benzene	ND	260	ug/kg	12
1,1,1-Trichloroethane	ND	51	ug/kg	9.7
1,1,2-Trichloroethane	ND	51	ug/kg	10
Trichloroethene	24 J	51	ug/kg	12
Trichlorofluoromethane	ND	100	ug/kg	8.5
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	260	ug/kg	10
Vinyl chloride	ND	100	ug/kg	16
Xylenes (total)	ND	150	ug/kg	15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	72	(59 - 138)
1,2-Dichloroethane-d4	78	(61 - 130)
toluene-d8	94	(60 - 143)
4-Bromofluorobenzene	83	(47 - 158)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-084

GC/MS Volatiles

Lot-Sample #....: A4G150200-007 Work Order #....: GK57C1AA Matrix.....: SO
 Date Sampled....: 07/14/04 11:25 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #....: 4202313
 Dilution Factor: 0.98 Initial Wgt/Vol: 25.6 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	750	ug/kg	99
Benzene	ND	50	ug/kg	6.4
Bromodichloromethane	ND	100	ug/kg	12
Bromoform	ND	100	ug/kg	13
Bromomethane	ND	250	ug/kg	25
2-Butanone	ND	750	ug/kg	49
Carbon disulfide	ND	250	ug/kg	20
Carbon tetrachloride	ND	50	ug/kg	12
Chlorobenzene	ND	50	ug/kg	6.3
Chloroethane	ND	250	ug/kg	65
Chloroform	ND	50	ug/kg	12
Chloromethane	23 J,B	250	ug/kg	5.2
Cyclohexane	ND	1200	ug/kg	7.7
Dibromochloromethane	ND	50	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	250	ug/kg	60
1,2-Dibromoethane	ND	250	ug/kg	9.9
1,2-Dichlorobenzene	ND	100	ug/kg	17
1,3-Dichlorobenzene	ND	100	ug/kg	7.2
1,4-Dichlorobenzene	ND	100	ug/kg	7.9
Dichlorodifluoromethane	ND	100	ug/kg	5.4
1,1-Dichloroethane	ND	50	ug/kg	7.3
1,2-Dichloroethane	ND	50	ug/kg	9.3
1,1-Dichloroethene	ND	50	ug/kg	8.3
cis-1,2-Dichloroethene	ND	50	ug/kg	14
trans-1,2-Dichloroethene	ND	50	ug/kg	11
1,2-Dichloropropane	ND	50	ug/kg	7.4
cis-1,3-Dichloropropene	ND	50	ug/kg	5.5
trans-1,3-Dichloropropene	ND	50	ug/kg	5.4
Ethylbenzene	ND	50	ug/kg	6.8
2-Hexanone	ND	2500	ug/kg	24
Isopropylbenzene	ND	250	ug/kg	5.1
Methyl acetate	ND	1200	ug/kg	52
Methylene chloride	ND	250	ug/kg	99
Methylcyclohexane	ND	1200	ug/kg	5.7
4-Methyl-2-pentanone	ND	2500	ug/kg	11
Methyl tert-butyl ether	ND	250	ug/kg	10
Styrene	ND	50	ug/kg	28

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-084

GC/MS Volatiles

Lot-Sample #....: A4G150200-007 Work Order #....: GK57C1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	100	ug/kg	8.2
Tetrachloroethene	ND	50	ug/kg	9.0
Toluene	ND	100	ug/kg	9.1
1,2,4-Trichloro- benzene	ND	250	ug/kg	12
1,1,1-Trichloroethane	ND	50	ug/kg	9.5
1,1,2-Trichloroethane	ND	50	ug/kg	9.9
Trichloroethene	40 J	50	ug/kg	12
Trichlorofluoromethane	ND	100	ug/kg	8.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	250	ug/kg	10
Vinyl chloride	ND	100	ug/kg	16
Xylenes (total)	ND	150	ug/kg	15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	74	(59 - 138)
1,2-Dichloroethane-d4	83	(61 - 130)
Toluene-d8	96	(60 - 143)
4-Bromofluorobenzene	87	(47 - 158)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-085

GC/MS Volatiles

Lot-Sample #....: A4G150200-008 Work Order #....: GK57D1AA Matrix.....: SO
 Date Sampled....: 07/14/04 11:30 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #....: 4202313
 Dilution Factor: 1.03 Initial Wgt/Vol: 24.3 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	790	ug/kg	100
Benzene	ND	53	ug/kg	6.7
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	14
Bromomethane	ND	260	ug/kg	26
2-Butanone	ND	790	ug/kg	52
Carbon disulfide	ND	260	ug/kg	21
Carbon tetrachloride	ND	53	ug/kg	13
Chlorobenzene	ND	53	ug/kg	6.6
Chloroethane	ND	260	ug/kg	68
Chloroform	ND	53	ug/kg	13
Chloromethane	24 J,B	260	ug/kg	5.5
Cyclohexane	ND	1300	ug/kg	8.1
Dibromochloromethane	ND	53	ug/kg	7.3
1,2-Dibromo-3-chloro- propane	ND	260	ug/kg	63
1,2-Dibromoethane	ND	260	ug/kg	10
1,2-Dichlorobenzene	ND	110	ug/kg	18
1,3-Dichlorobenzene	ND	110	ug/kg	7.6
1,4-Dichlorobenzene	ND	110	ug/kg	8.3
Dichlorodifluoromethane	ND	110	ug/kg	5.7
1,1-Dichloroethane	ND	53	ug/kg	7.7
1,2-Dichloroethane	ND	53	ug/kg	9.8
1,1-Dichloroethene	ND	53	ug/kg	8.7
cis-1,2-Dichloroethene	ND	53	ug/kg	15
trans-1,2-Dichloroethene	ND	53	ug/kg	12
1,2-Dichloropropane	ND	53	ug/kg	7.8
cis-1,3-Dichloropropene	ND	53	ug/kg	5.8
trans-1,3-Dichloropropene	ND	53	ug/kg	5.7
Ethylbenzene	ND	53	ug/kg	7.2
2-Hexanone	ND	2600	ug/kg	25
Isopropylbenzene	ND	260	ug/kg	5.4
Methyl acetate	ND	1300	ug/kg	55
Methylene chloride	ND	260	ug/kg	100
Methylcyclohexane	ND	1300	ug/kg	6.0
4-Methyl-2-pentanone	ND	2600	ug/kg	12
Methyl tert-butyl ether	ND	260	ug/kg	11
Styrene	ND	53	ug/kg	29

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-085

GC/MS Volatiles

Lot-Sample #....: A4G150200-008 Work Order #....: GK57D1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	8.6
Tetrachloroethene	ND	53	ug/kg	9.5
Toluene	ND	110	ug/kg	9.6
1,2,4-Trichloro- benzene	ND	260	ug/kg	13
1,1,1-Trichloroethane	ND	53	ug/kg	10
1,1,2-Trichloroethane	ND	53	ug/kg	10
Trichloroethene	31 J	53	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	8.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	260	ug/kg	11
Vinyl chloride	ND	110	ug/kg	17
Xylenes (total)	ND	160	ug/kg	16

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	73	(59 - 138)
1,2-Dichloroethane-d4	83	(61 - 130)
Toluene-d8	96	(60 - 143)
4-Bromofluorobenzene	87	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-086

GC/MS Volatiles

Lot-Sample #....: A4G150200-009 Work Order #....: GK57E1AA Matrix.....: SO
 Date Sampled....: 07/14/04 11:40 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #....: 4202313
 Dilution Factor: 1.13 Initial Wgt/Vol: 22.2 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	860	ug/kg	110
Benzene	ND	58	ug/kg	7.4
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	860	ug/kg	56
Carbon disulfide	ND	290	ug/kg	23
Carbon tetrachloride	ND	58	ug/kg	14
Chlorobenzene	ND	58	ug/kg	7.3
Chloroethane	ND	290	ug/kg	75
Chloroform	ND	58	ug/kg	14
Chloromethane	24 J,B	290	ug/kg	6.0
Cyclohexane	ND	1400	ug/kg	8.9
Dibromochloromethane	ND	58	ug/kg	8.0
1,2-Dibromo-3-chloro-propane	ND	290	ug/kg	69
1,2-Dibromoethane	ND	290	ug/kg	11
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.3
1,4-Dichlorobenzene	ND	120	ug/kg	9.1
Dichlorodifluoromethane	ND	120	ug/kg	6.2
1,1-Dichloroethane	ND	58	ug/kg	8.4
1,2-Dichloroethane	ND	58	ug/kg	11
1,1-Dichloroethene	ND	58	ug/kg	9.6
cis-1,2-Dichloroethene	ND	58	ug/kg	16
trans-1,2-Dichloroethene	ND	58	ug/kg	13
1,2-Dichloropropane	ND	58	ug/kg	8.5
cis-1,3-Dichloropropene	ND	58	ug/kg	6.3
trans-1,3-Dichloropropene	ND	58	ug/kg	6.2
Ethylbenzene	ND	58	ug/kg	7.8
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	5.9
Methyl acetate	ND	1400	ug/kg	60
Methylene chloride	ND	290	ug/kg	110
Methylcyclohexane	ND	1400	ug/kg	6.6
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	12
Styrene	ND	58	ug/kg	32

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-086

GC/MS Volatiles

Lot-Sample #...: A4G150200-009 Work Order #...: GK57E1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.5
Tetrachloroethene	ND	58	ug/kg	10
Toluene	ND	120	ug/kg	10
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	58	ug/kg	11
1,1,2-Trichloroethane	ND	58	ug/kg	11
Trichloroethene	ND	58	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	12
Vinyl chloride	ND	120	ug/kg	18
Xylenes (total)	ND	170	ug/kg	17

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	72	(59 - 138)
1,2-Dichloroethane-d4	78	(61 - 130)
Toluene-d8	94	(60 - 143)
4-Bromofluorobenzene	83	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: 8-17360-071404-DCR-087

GC/MS Volatiles

Lot-Sample #....: A4G150200-010 Work Order #....: GK57F1AA Matrix.....: SO
 Date Sampled....: 07/14/04 11:50 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #....: 4202313
 Dilution Factor: 1.05 Initial Wgt/Vol: 23.8 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 3.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	820	ug/kg	110
Benzene	ND	55	ug/kg	7.0
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	14
Bromomethane	ND	270	ug/kg	27
2-Butanone	ND	820	ug/kg	53
Carbon disulfide	ND	270	ug/kg	22
Carbon tetrachloride	ND	55	ug/kg	13
Chlorobenzene	ND	55	ug/kg	6.9
Chloroethane	ND	270	ug/kg	71
Chloroform	ND	55	ug/kg	13
Chloromethane	22 J,B	270	ug/kg	5.7
Cyclohexane	ND	1300	ug/kg	8.4
Dibromochloromethane	ND	55	ug/kg	7.5
1,2-Dibromo-3-chloro- propane	ND	270	ug/kg	65
1,2-Dibromoethane	ND	270	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	19
1,3-Dichlorobenzene	ND	110	ug/kg	7.9
1,4-Dichlorobenzene	ND	110	ug/kg	8.6
Dichlorodifluoromethane	ND	110	ug/kg	5.9
1,1-Dichloroethane	ND	55	ug/kg	8.0
1,2-Dichloroethane	ND	55	ug/kg	10
1,1-Dichloroethene	ND	55	ug/kg	9.1
cis-1,2-Dichloroethene	ND	55	ug/kg	15
trans-1,2-Dichloroethene	ND	55	ug/kg	12
1,2-Dichloropropane	ND	55	ug/kg	8.1
cis-1,3-Dichloropropene	ND	55	ug/kg	6.0
trans-1,3-Dichloropropene	ND	55	ug/kg	5.9
Ethylbenzene	ND	55	ug/kg	7.4
2-Hexanone	ND	2700	ug/kg	26
Isopropylbenzene	ND	270	ug/kg	5.6
Methyl acetate	ND	1300	ug/kg	57
Methylene chloride	ND	270	ug/kg	110
Methylcyclohexane	ND	1300	ug/kg	6.2
4-Methyl-2-pentanone	ND	2700	ug/kg	12
Methyl tert-butyl ether	ND	270	ug/kg	11
Styrene	ND	55	ug/kg	31

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-087

GC/MS Volatiles

Lot-Sample #....: A4G150200-010 Work Order #....: GK57F1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	8.9
Tetrachloroethene	ND	55	ug/kg	9.8
Toluene	ND	110	ug/kg	9.9
1,2,4-Trichloro- benzene	ND	270	ug/kg	13
1,1,1-Trichloroethane	ND	55	ug/kg	10
1,1,2-Trichloroethane	ND	55	ug/kg	11
Trichloroethene	20 J	55	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	9.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	270	ug/kg	11
Vinyl chloride	ND	110	ug/kg	17
Xylenes (total)	ND	160	ug/kg	16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	69	(59 - 138)
1,2-Dichloroethane-d4	79	(61 - 130)
Toluene-d8	94	(60 - 143)
4-Bromofluorobenzene	87	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-088

GC/MS Volatiles

Lot-Sample #....: A4G150200-011 Work Order #....: GK57H1AA Matrix.....: SO
 Date Sampled....: 07/14/04 12:00 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #....: 4202313
 Dilution Factor: 1.02 Initial Wgt/Vol: 24.6 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 3.3 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	790	ug/kg	100
Benzene	ND	53	ug/kg	6.8
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	14
Bromomethane	ND	260	ug/kg	26
2-Butanone	ND	790	ug/kg	52
Carbon disulfide	ND	260	ug/kg	21
Carbon tetrachloride	ND	53	ug/kg	13
Chlorobenzene	ND	53	ug/kg	6.6
Chloroethane	ND	260	ug/kg	69
Chloroform	ND	53	ug/kg	13
Chloromethane	20 J,B	260	ug/kg	5.5
Cyclohexane	ND	1300	ug/kg	8.1
Dibromochloromethane	ND	53	ug/kg	7.3
1,2-Dibromo-3-chloro- propane	ND	260	ug/kg	63
1,2-Dibromoethane	ND	260	ug/kg	10
1,2-Dichlorobenzene	ND	110	ug/kg	18
1,3-Dichlorobenzene	ND	110	ug/kg	7.6
1,4-Dichlorobenzene	ND	110	ug/kg	8.3
Dichlorodifluoromethane	ND	110	ug/kg	5.7
1,1-Dichloroethane	ND	53	ug/kg	7.7
1,2-Dichloroethane	ND	53	ug/kg	9.8
1,1-Dichloroethene	ND	53	ug/kg	8.8
cis-1,2-Dichloroethene	ND	53	ug/kg	15
trans-1,2-Dichloroethene	ND	53	ug/kg	12
1,2-Dichloropropane	ND	53	ug/kg	7.8
cis-1,3-Dichloropropene	ND	53	ug/kg	5.8
trans-1,3-Dichloropropene	ND	53	ug/kg	5.7
Ethylbenzene	ND	53	ug/kg	7.2
2-Hexanone	ND	2600	ug/kg	25
Isopropylbenzene	ND	260	ug/kg	5.4
Methyl acetate	ND	1300	ug/kg	55
Methylene chloride	ND	260	ug/kg	100
Methylcyclohexane	ND	1300	ug/kg	6.0
4-Methyl-2-pentanone	ND	2600	ug/kg	12
Methyl tert-butyl ether	ND	260	ug/kg	11
Styrene	ND	53	ug/kg	30

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-088

GC/MS Volatiles

Lot-Sample #....: A4G150200-011 Work Order #....: GK57H1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	8.7
Tetrachloroethene	ND	53	ug/kg	9.5
Toluene	ND	110	ug/kg	9.6
1,2,4-Trichloro- benzene	ND	260	ug/kg	13
1,1,1-Trichloroethane	ND	53	ug/kg	10
1,1,2-Trichloroethane	ND	53	ug/kg	10
Trichloroethene	ND	53	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	8.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	260	ug/kg	11
Vinyl chloride	ND	110	ug/kg	17
Xylenes (total)	ND	160	ug/kg	16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	66	(59 - 138)
1,2-Dichloroethane-d4	73	(61 - 130)
Toluene-d8	85	(60 - 143)
4-Bromofluorobenzene	81	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-089

GC/MS Volatiles

Lot-Sample #....: A4G150200-012 Work Order #....: GK57J1AA Matrix.....: SO
 Date Sampled....: 07/14/04 13:55 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4202313
 Dilution Factor: 8.17 Initial Wgt/Vol: 20.4 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 5.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	6500	ug/kg	850
Benzene	ND	430	ug/kg	55
Bromodichloromethane	ND	860	ug/kg	100
Bromoform	ND	860	ug/kg	110
Bromomethane	ND	2200	ug/kg	220
2-Butanone	ND	6500	ug/kg	420
Carbon disulfide	ND	2200	ug/kg	170
Carbon tetrachloride	ND	430	ug/kg	100
Chlorobenzene	ND	430	ug/kg	54
Chloroethane	ND	2200	ug/kg	560
Chloroform	ND	430	ug/kg	100
Chloromethane	ND	2200	ug/kg	45
Cyclohexane	ND	10000	ug/kg	66
Dibromochloromethane	ND	430	ug/kg	59
1,2-Dibromo-3-chloro- propane	ND	2200	ug/kg	520
1,2-Dibromoethane	ND	2200	ug/kg	85
1,2-Dichlorobenzene	ND	860	ug/kg	150
1,3-Dichlorobenzene	ND	860	ug/kg	62
1,4-Dichlorobenzene	ND	860	ug/kg	68
Dichlorodifluoromethane	ND	860	ug/kg	46
1,1-Dichloroethane	ND	430	ug/kg	63
1,2-Dichloroethane	ND	430	ug/kg	80
1,1-Dichloroethene	ND	430	ug/kg	71
cis-1,2-Dichloroethene	ND	430	ug/kg	120
trans-1,2-Dichloroethene	ND	430	ug/kg	95
1,2-Dichloropropane	ND	430	ug/kg	64
cis-1,3-Dichloropropene	ND	430	ug/kg	47
trans-1,3-Dichloropropene	ND	430	ug/kg	46
Ethylbenzene	ND	430	ug/kg	59
2-Hexanone	ND	22000	ug/kg	210
Isopropylbenzene	ND	2200	ug/kg	44
Methyl acetate	ND	10000	ug/kg	450
Methylene chloride	ND	2200	ug/kg	850
Methylcyclohexane	200 J	10000	ug/kg	49
4-Methyl-2-pentanone	ND	22000	ug/kg	95
Methyl tert-butyl ether	ND	2200	ug/kg	86
Styrene	ND	430	ug/kg	240

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-089

GC/MS Volatiles

Lot-Sample #....: A4G150200-012 Work Order #....: GK57J1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	860	ug/kg	71
Tetrachloroethene	ND	430	ug/kg	77
Toluene	160 J	860	ug/kg	78
1,2,4-Trichloro- benzene	ND	2200	ug/kg	100
1,1,1-Trichloroethane	ND	430	ug/kg	82
1,1,2-Trichloroethane	ND	430	ug/kg	85
Trichloroethene	12000	430	ug/kg	100
Trichlorofluoromethane	ND	860	ug/kg	71
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	2200	ug/kg	86
Vinyl chloride	ND	860	ug/kg	140
Xylenes (total)	280 J	1300	ug/kg	130

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	72 DIL	(59 - 138)
1,2-Dichloroethane-d4	74 DIL	(61 - 130)
Toluene-d8	87 DIL	(60 - 143)
4-Bromofluorobenzene	79 DIL	(47 - 158)

NOTE(S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-090

GC/MS Volatiles

Lot-Sample #....: A4G150200-013 Work Order #....: GK57K1AA Matrix.....: SO
 Date Sampled....: 07/14/04 14:00 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #....: 4202313
 Dilution Factor: 1.13 Initial Wgt/Vol: 22.2 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	870	ug/kg	110
Benzene	ND	58	ug/kg	7.4
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	870	ug/kg	57
Carbon disulfide	ND	290	ug/kg	23
Carbon tetrachloride	ND	58	ug/kg	14
Chlorobenzene	ND	58	ug/kg	7.3
Chloroethane	ND	290	ug/kg	75
Chloroform	ND	58	ug/kg	14
Chloromethane	22 J,B	290	ug/kg	6.0
Cyclohexane	ND	1400	ug/kg	8.9
Dibromochloromethane	ND	58	ug/kg	8.0
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	70
1,2-Dibromoethane	ND	290	ug/kg	11
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.3
1,4-Dichlorobenzene	ND	120	ug/kg	9.2
Dichlorodifluoromethane	ND	120	ug/kg	6.3
1,1-Dichloroethane	ND	58	ug/kg	8.5
1,2-Dichloroethane	ND	58	ug/kg	11
1,1-Dichloroethene	ND	58	ug/kg	9.6
cis-1,2-Dichloroethene	ND	58	ug/kg	16
trans-1,2-Dichloroethene	ND	58	ug/kg	13
1,2-Dichloropropane	ND	58	ug/kg	8.6
cis-1,3-Dichloropropene	ND	58	ug/kg	6.4
trans-1,3-Dichloropropene	ND	58	ug/kg	6.3
Ethylbenzene	ND	58	ug/kg	7.9
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	5.9
Methyl acetate	ND	1400	ug/kg	60
Methylene chloride	ND	290	ug/kg	110
Methylcyclohexane	ND	1400	ug/kg	6.6
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	12
Styrene	ND	58	ug/kg	32

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-090

GC/MS Volatiles

Lot-Sample #....: A4G150200-013 Work Order #....: GK57K1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.5
Tetrachloroethene	ND	58	ug/kg	10
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	58	ug/kg	11
1,1,2-Trichloroethane	ND	58	ug/kg	11
Trichloroethene	ND	58	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	170	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	72	(59 - 138)
1,2-Dichloroethane-d4	81	(61 - 130)
Toluene-d8	94	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-091

GC/MS Volatiles

Lot-Sample #....: A4G150200-014 Work Order #....: GK57M1AA Matrix.....: SO
 Date Sampled....: 07/14/04 14:05 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #....: 4202313
 Dilution Factor: 1.2 Initial Wgt/Vol: 20.9 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	920	ug/kg	120
Benzene	ND	61	ug/kg	7.9
Bromodichloromethane	ND	120	ug/kg	15
Bromoform	ND	120	ug/kg	16
Bromomethane	ND	310	ug/kg	31
2-Butanone	ND	920	ug/kg	60
Carbon disulfide	ND	310	ug/kg	25
Carbon tetrachloride	ND	61	ug/kg	15
Chlorobenzene	ND	61	ug/kg	7.7
Chloroethane	ND	310	ug/kg	80
Chloroform	ND	61	ug/kg	15
Chloromethane	ND	310	ug/kg	6.4
Cyclohexane	ND	1500	ug/kg	9.5
Dibromochloromethane	ND	61	ug/kg	8.5
1,2-Dibromo-3-chloro- propane	ND	310	ug/kg	74
1,2-Dibromoethane	ND	310	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	21
1,3-Dichlorobenzene	ND	120	ug/kg	8.8
1,4-Dichlorobenzene	ND	120	ug/kg	9.7
Dichlorodifluoromethane	ND	120	ug/kg	6.6
1,1-Dichloroethane	ND	61	ug/kg	9.0
1,2-Dichloroethane	ND	61	ug/kg	11
1,1-Dichloroethene	ND	61	ug/kg	10
cis-1,2-Dichloroethene	ND	61	ug/kg	17
trans-1,2-Dichloroethene	ND	61	ug/kg	14
1,2-Dichloropropane	ND	61	ug/kg	9.1
cis-1,3-Dichloropropene	ND	61	ug/kg	6.8
trans-1,3-Dichloropropene	ND	61	ug/kg	6.6
Ethylbenzene	ND	61	ug/kg	8.4
2-Hexanone	ND	3100	ug/kg	29
Isopropylbenzene	ND	310	ug/kg	6.3
Methyl acetate	ND	1500	ug/kg	64
Methylene chloride	ND	310	ug/kg	120
Methylcyclohexane	ND	1500	ug/kg	7.0
4-Methyl-2-pentanone	ND	3100	ug/kg	14
Methyl tert-butyl ether	ND	310	ug/kg	12
Styrene	ND	61	ug/kg	34

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-091

GC/MS Volatiles

Lot-Sample #...: A4G150200-014 Work Order #...: GK57M1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	10
Tetrachloroethene	ND	61	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	310	ug/kg	15
1,1,1-Trichloroethane	ND	61	ug/kg	12
1,1,2-Trichloroethane	ND	61	ug/kg	12
Trichloroethene	ND	61	ug/kg	15
Trichlorofluoromethane	ND	120	ug/kg	10
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	310	ug/kg	12
Vinyl chloride	ND	120	ug/kg	20
Xylenes (total)	ND	180	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	75	(59 - 138)
1,2-Dichloroethane-d4	81	(61 - 130)
Toluene-d8	93	(60 - 143)
4-Bromofluorobenzene	85	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-092

GC/MS Volatiles

Lot-Sample #....: A4G150200-015 Work Order #....: GK57N1AA Matrix.....: SO
 Date Sampled....: 07/14/04 14:10 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #....: 4202313
 Dilution Factor: 1.14 Initial Wgt/Vol: 21.9 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 3.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	880	ug/kg	120
Benzene	ND	59	ug/kg	7.5
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	880	ug/kg	58
Carbon disulfide	ND	290	ug/kg	24
Carbon tetrachloride	ND	59	ug/kg	14
Chlorobenzene	ND	59	ug/kg	7.4
Chloroethane	ND	290	ug/kg	76
Chloroform	ND	59	ug/kg	14
Chloromethane	ND	290	ug/kg	6.1
Cyclohexane	ND	1400	ug/kg	9.0
Dibromochloromethane	ND	59	ug/kg	8.1
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	71
1,2-Dibromoethane	ND	290	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.5
1,4-Dichlorobenzene	ND	120	ug/kg	9.3
Dichlorodifluoromethane	ND	120	ug/kg	6.3
1,1-Dichloroethane	ND	59	ug/kg	8.6
1,2-Dichloroethane	ND	59	ug/kg	11
1,1-Dichloroethene	ND	59	ug/kg	9.8
cis-1,2-Dichloroethene	ND	59	ug/kg	16
trans-1,2-Dichloroethene	ND	59	ug/kg	13
1,2-Dichloropropane	ND	59	ug/kg	8.7
cis-1,3-Dichloropropene	ND	59	ug/kg	6.5
trans-1,3-Dichloropropene	ND	59	ug/kg	6.3
Ethylbenzene	ND	59	ug/kg	8.0
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	6.0
Methyl acetate	ND	1400	ug/kg	61
Methylene chloride	ND	290	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.7
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	12
Styrene	ND	59	ug/kg	33

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COMESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-092

GC/MS Volatiles

Lot-Sample #....: A4G150200-015 Work Order #....: GK57N1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.6
Tetrachloroethene	ND	59	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	59	ug/kg	11
1,1,2-Trichloroethane	ND	59	ug/kg	12
Trichloroethene	ND	59	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	82	(59 - 138)
1,2-Dichloroethane-d4	89	(61 - 130)
Toluene-d8	104	(60 - 143)
4-Bromofluorobenzene	93	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-093

GC/MS Volatiles

Lot-Sample #....: A4G150200-016	Work Order #....: GK57P1AA	Matrix.....: SO
Date Sampled....: 07/14/04 14:15	Date Received...: 07/15/04	
Prep Date.....: 07/16/04	Analysis Date...: 07/19/04	
Prep Batch #....: 4202313		
Dilution Factor: 1.11	Initial Wgt/Vol: 22.6 g	Final Wgt/Vol...: 25 mL
% Moisture.....: 5.0	Method.....: SW846 8260B	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	880	ug/kg	120
Benzene	ND	58	ug/kg	7.5
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	880	ug/kg	57
Carbon disulfide	ND	290	ug/kg	23
Carbon tetrachloride	ND	58	ug/kg	14
Chlorobenzene	ND	58	ug/kg	7.4
Chloroethane	ND	290	ug/kg	76
Chloroform	ND	58	ug/kg	14
Chloromethane	ND	290	ug/kg	6.1
Cyclohexane	ND	1400	ug/kg	9.0
Dibromochloromethane	ND	58	ug/kg	8.1
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	70
1,2-Dibromoethane	ND	290	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.4
1,4-Dichlorobenzene	ND	120	ug/kg	9.2
Dichlorodifluoromethane	ND	120	ug/kg	6.3
1,1-Dichloroethane	ND	58	ug/kg	8.5
1,2-Dichloroethane	ND	58	ug/kg	11
1,1-Dichloroethene	ND	58	ug/kg	9.7
cis-1,2-Dichloroethene	ND	58	ug/kg	16
trans-1,2-Dichloroethene	ND	58	ug/kg	13
1,2-Dichloropropane	ND	58	ug/kg	8.6
cis-1,3-Dichloropropene	ND	58	ug/kg	6.4
trans-1,3-Dichloropropene	ND	58	ug/kg	6.3
Ethylbenzene	ND	58	ug/kg	7.9
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	6.0
Methyl acetate	ND	1400	ug/kg	61
Methylene chloride	ND	290	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.7
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	12
Styrene	ND	58	ug/kg	33

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-093

GC/MS Volatiles

Lot-Sample #....: A4G150200-016 Work Order #....: GK57P1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.6
Tetrachloroethene	ND	58	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	58	ug/kg	11
1,1,2-Trichloroethane	ND	58	ug/kg	12
Trichloroethene	40 J	58	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	74	(59 - 138)
1,2-Dichloroethane-d4	80	(61 - 130)
Toluene-d8	93	(60 - 143)
4-Bromofluorobenzene	85	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: 8-17360-071404-DCR-094

GC/MS Volatiles

Lot-Sample #....: A4G150200-017 Work Order #....: GK57Q1AA Matrix.....: SO
 Date Sampled....: 07/14/04 14:20 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4202313
 Dilution Factor: 1.2 Initial Wgt/Vol: 20.9 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 1.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	920	ug/kg	120
Benzene	ND	61	ug/kg	7.8
Bromodichloromethane	ND	120	ug/kg	15
Bromoform	ND	120	ug/kg	16
Bromomethane	ND	310	ug/kg	31
2-Butanone	ND	920	ug/kg	60
Carbon disulfide	ND	310	ug/kg	24
Carbon tetrachloride	ND	61	ug/kg	15
Chlorobenzene	ND	61	ug/kg	7.7
Chloroethane	ND	310	ug/kg	80
Chloroform	ND	61	ug/kg	15
Chloromethane	ND	310	ug/kg	6.4
Cyclohexane	ND	1500	ug/kg	9.4
Dibromochloromethane	ND	61	ug/kg	8.4
1,2-Dibromo-3-chloro- propane	ND	310	ug/kg	73
1,2-Dibromoethane	ND	310	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	21
1,3-Dichlorobenzene	ND	120	ug/kg	8.8
1,4-Dichlorobenzene	ND	120	ug/kg	9.7
Dichlorodifluoromethane	ND	120	ug/kg	6.6
1,1-Dichloroethane	ND	61	ug/kg	8.9
1,2-Dichloroethane	ND	61	ug/kg	11
1,1-Dichloroethene	ND	61	ug/kg	10
cis-1,2-Dichloroethene	ND	61	ug/kg	17
trans-1,2-Dichloroethene	ND	61	ug/kg	13
1,2-Dichloropropane	ND	61	ug/kg	9.1
cis-1,3-Dichloropropene	ND	61	ug/kg	6.7
trans-1,3-Dichloropropene	ND	61	ug/kg	6.6
Ethylbenzene	ND	61	ug/kg	8.3
2-Hexanone	ND	3100	ug/kg	29
Isopropylbenzene	ND	310	ug/kg	6.2
Methyl acetate	ND	1500	ug/kg	64
Methylene chloride	ND	310	ug/kg	120
Methylcyclohexane	ND	1500	ug/kg	7.0
4-Methyl-2-pentanone	ND	3100	ug/kg	13
Methyl tert-butyl ether	ND	310	ug/kg	12
Styrene	ND	61	ug/kg	34

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-094

GC/MS Volatiles

Lot-Sample #....: A4G150200-017 Work Order #....: GK57Q1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	10
Tetrachloroethene	ND	61	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	310	ug/kg	15
1,1,1-Trichloroethane	ND	61	ug/kg	12
1,1,2-Trichloroethane	ND	61	ug/kg	12
Trichloroethene	22 J	61	ug/kg	15
Trichlorofluoromethane	ND	120	ug/kg	10
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	310	ug/kg	12
Vinyl chloride	ND	120	ug/kg	20
Xylenes (total)	ND	180	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	68	(59 - 138)
1,2-Dichloroethane-d4	81	(61 - 130)
Toluene-d8	94	(60 - 143)
4-Bromofluorobenzene	85	(47 - 158)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: 8-17360-071404-DCR-095

GC/MS Volatiles

Lot-Sample #....: A4G150200-018 Work Order #....: GK57R1AA Matrix.....: 80
Date Sampled....: 07/14/04 14:30 Date Received...: 07/15/04
Prep Date.....: 07/16/04 Analysis Date...: 07/20/04
Prep Batch #....: 4202313
Dilution Factor: 1.05 Initial Wgt/Vol: 23.7 g Final Wgt/Vol...: 25 mL
% Moisture.....: 3.8 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Acetone	ND	820	ug/kg	110
Benzene	ND	55	ug/kg	7.0
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	14
Bromomethane	ND	270	ug/kg	27
2-Butanone	ND	820	ug/kg	53
Carbon disulfide	ND	270	ug/kg	22
Carbon tetrachloride	ND	55	ug/kg	13
Chlorobenzene	ND	55	ug/kg	6.9
Chloroethane	ND	270	ug/kg	71
Chloroform	ND	55	ug/kg	13
Chloromethane	19 J,B	270	ug/kg	5.7
Cyclohexane	ND	1300	ug/kg	8.4
Dibromochloromethane	ND	55	ug/kg	7.5
1,2-Dibromo-3-chloro- propane	ND	270	ug/kg	65
1,2-Dibromoethane	ND	270	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	19
1,3-Dichlorobenzene	ND	110	ug/kg	7.9
1,4-Dichlorobenzene	ND	110	ug/kg	8.6
Dichlorodifluoromethane	ND	110	ug/kg	5.9
1,1-Dichloroethane	ND	55	ug/kg	8.0
1,2-Dichloroethane	ND	55	ug/kg	10
1,1-Dichloroethene	ND	55	ug/kg	9.1
cis-1,2-Dichloroethene	ND	55	ug/kg	15
trans-1,2-Dichloroethene	ND	55	ug/kg	12
1,2-Dichloropropane	ND	55	ug/kg	8.1
cis-1,3-Dichloropropene	ND	55	ug/kg	6.0
trans-1,3-Dichloropropene	ND	55	ug/kg	5.9
Ethylbenzene	ND	55	ug/kg	7.4
2-Hexanone	ND	2700	ug/kg	26
Isopropylbenzene	ND	270	ug/kg	5.6
Methyl acetate	ND	1300	ug/kg	57
Methylene chloride	ND	270	ug/kg	110
Methylcyclohexane	ND	1300	ug/kg	6.2
4-Methyl-2-pentanone	ND	2700	ug/kg	12
Methyl tert-butyl ether	ND	270	ug/kg	11
Styrene	ND	55	ug/kg	31

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-095

GC/MS Volatiles

Lot-Sample #....: A4G150200-018 Work Order #....: GK57R1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	8.9
Tetrachloroethene	ND	55	ug/kg	9.8
Toluene	ND	110	ug/kg	9.9
1,2,4-Trichloro- benzene	ND	270	ug/kg	13
1,1,1-Trichloroethane	ND	55	ug/kg	10
1,1,2-Trichloroethane	ND	55	ug/kg	11
Trichloroethene	22 J	55	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	9.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	270	ug/kg	11
Vinyl chloride	ND	110	ug/kg	17
Xylenes (total)	ND	160	ug/kg	16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	64	(59 - 138)
1,2-Dichloroethane-d4	79	(61 - 130)
Toluene-d8	95	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-096

GC/MS Volatiles

Lot-Sample #....: A4G150200-019 Work Order #....: GK57T1AA Matrix.....: SO
 Date Sampled....: 07/14/04 14:40 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4202313
 Dilution Factor: 1.11 Initial Wgt/Vol: 22.6 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 3.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	860	ug/kg	110
Benzene	ND	57	ug/kg	7.3
Bromodichloromethane	ND	110	ug/kg	14
Bromoform	ND	110	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	860	ug/kg	56
Carbon disulfide	ND	290	ug/kg	23
Carbon tetrachloride	ND	57	ug/kg	14
Chlorobenzene	ND	57	ug/kg	7.2
Chloroethane	ND	290	ug/kg	75
Chloroform	ND	57	ug/kg	14
Chloromethane	18 J,B	290	ug/kg	6.0
Cyclohexane	ND	1400	ug/kg	8.8
Dibromochloromethane	ND	57	ug/kg	7.9
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	69
1,2-Dibromoethane	ND	290	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	19
1,3-Dichlorobenzene	ND	110	ug/kg	8.3
1,4-Dichlorobenzene	ND	110	ug/kg	9.1
Dichlorodifluoromethane	ND	110	ug/kg	6.2
1,1-Dichloroethane	ND	57	ug/kg	8.4
1,2-Dichloroethane	ND	57	ug/kg	11
1,1-Dichloroethene	ND	57	ug/kg	9.5
cis-1,2-Dichloroethane	ND	57	ug/kg	16
trans-1,2-Dichloroethene	ND	57	ug/kg	13
1,2-Dichloropropane	ND	57	ug/kg	8.5
cis-1,3-Dichloropropene	ND	57	ug/kg	6.3
trans-1,3-Dichloropropene	ND	57	ug/kg	6.2
Ethylbenzene	ND	57	ug/kg	7.8
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	5.8
Methyl acetate	ND	1400	ug/kg	60
Methylene chloride	ND	290	ug/kg	110
Methylcyclohexane	ND	1400	ug/kg	6.5
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	11
Styrene	ND	57	ug/kg	32

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-096

GC/MS Volatiles

Lot-Sample #....: A4G150200-019 Work Order #....: GK57T1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	9.4
Tetrachloroethene	ND	57	ug/kg	10
Toluene	ND	110	ug/kg	10
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	57	ug/kg	11
1,1,2-Trichloroethane	ND	57	ug/kg	11
Trichloroethene	87	57	ug/kg	14
Trichlorofluoromethane	ND	110	ug/kg	9.5
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	11
Vinyl chloride	ND	110	ug/kg	18
Xylenes (total)	ND	170	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	64	(59 - 138)
1,2-Dichloroethane-d4	79	(61 - 130)
Toluene-d8	92	(60 - 143)
4-Bromofluorobenzene	84	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: 8-17360-071404-DCR-097

GC/MS Volatiles

Lot-Sample #....: A4G150200-020 **Work Order #....:** GK57V1AA **Matrix.....:** SO
Date Sampled....: 07/14/04 14:45 **Date Received...:** 07/15/04
Prep Date.....: 07/16/04 **Analysis Date...:** 07/20/04
Prep Batch #....: 4202313
Dilution Factor: 1.08 **Initial Wgt/Vol:** 23.2 g **Final Wgt/Vol...:** 25 mL
% Moisture.....: 1.9 **Method.....:** SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Acetone	ND	830	ug/kg	110
Benzene	ND	55	ug/kg	7.0
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	14
Bromomethane	ND	280	ug/kg	28
2-Butanone	ND	830	ug/kg	54
Carbon disulfide	ND	280	ug/kg	22
Carbon tetrachloride	ND	55	ug/kg	13
Chlorobenzene	ND	55	ug/kg	6.9
Chloroethane	ND	280	ug/kg	72
Chloroform	ND	55	ug/kg	13
Chloromethane	ND	280	ug/kg	5.7
Cyclohexane	ND	1300	ug/kg	8.5
Dibromochloromethane	ND	55	ug/kg	7.6
1,2-Dibromo-3-chloro- propane	ND	280	ug/kg	66
1,2-Dibromoethane	ND	280	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	19
1,3-Dichlorobenzene	ND	110	ug/kg	7.9
1,4-Dichlorobenzene	ND	110	ug/kg	8.7
Dichlorodifluoromethane	ND	110	ug/kg	5.9
1,1-Dichloroethane	ND	55	ug/kg	8.0
1,2-Dichloroethane	ND	55	ug/kg	10
1,1-Dichloroethene	ND	55	ug/kg	9.1
cis-1,2-Dichloroethene	ND	55	ug/kg	15
trans-1,2-Dichloroethene	ND	55	ug/kg	12
1,2-Dichloropropane	ND	55	ug/kg	8.1
cis-1,3-Dichloropropene	ND	55	ug/kg	6.1
trans-1,3-Dichloropropene	ND	55	ug/kg	5.9
Ethylbenzene	ND	55	ug/kg	7.5
2-Hexanone	ND	2800	ug/kg	26
Isopropylbenzene	ND	280	ug/kg	5.6
Methyl acetate	ND	1300	ug/kg	57
Methylene chloride	ND	280	ug/kg	110
Methylcyclohexane	ND	1300	ug/kg	6.3
4-Methyl-2-pentanone	ND	2800	ug/kg	12
Methyl tert-butyl ether	ND	280	ug/kg	11
Styrene	ND	55	ug/kg	31

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-097

GC/MS Volatiles

Lot-Sample #....: A4G150200-020 Work Order #....: GK57V1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	9.0
Tetrachloroethene	ND	55	ug/kg	9.9
Toluene	ND	110	ug/kg	10
1,2,4-Trichloro- benzene	ND	280	ug/kg	13
1,1,1-Trichloroethane	ND	55	ug/kg	10
1,1,2-Trichloroethane	ND	55	ug/kg	11
Trichloroethene	63	55	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	9.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	280	ug/kg	11
Vinyl chloride	ND	110	ug/kg	18
Xylenes (total)	ND	170	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	66	(59 - 138)
1,2-Dichloroethane-d4	82	(61 - 130)
Toluene-d8	93	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-098

GC/MS Volatiles

Lot-Sample #....: A4G150200-021 Work Order #....: GK57W1AA Matrix.....: 80
 Date Sampled....: 07/14/04 14:55 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 1.15 Initial Wgt/Vol: 21.7 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 3.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	890	ug/kg	120
Benzene	ND	59	ug/kg	7.6
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	300	ug/kg	30
2-Butanone	ND	890	ug/kg	58
Carbon disulfide	ND	300	ug/kg	24
Carbon tetrachloride	ND	59	ug/kg	14
Chlorobenzene	ND	59	ug/kg	7.5
Chloroethane	ND	300	ug/kg	77
Chloroform	ND	59	ug/kg	14
Chloromethane	ND	300	ug/kg	6.2
Cyclohexane	ND	1400	ug/kg	9.1
Dibromochloromethane	ND	59	ug/kg	8.2
1,2-Dibromo-3-chloro- propane	ND	300	ug/kg	71
1,2-Dibromoethane	ND	300	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.5
1,4-Dichlorobenzene	ND	120	ug/kg	9.4
Dichlorodifluoromethane	ND	120	ug/kg	6.4
1,1-Dichloroethane	ND	59	ug/kg	8.7
1,2-Dichloroethane	ND	59	ug/kg	11
1,1-Dichloroethene	ND	59	ug/kg	9.8
cis-1,2-Dichloroethene	ND	59	ug/kg	17
trans-1,2-Dichloroethene	ND	59	ug/kg	13
1,2-Dichloropropane	ND	59	ug/kg	8.8
cis-1,3-Dichloropropene	ND	59	ug/kg	6.5
trans-1,3-Dichloropropene	ND	59	ug/kg	6.4
Ethylbenzene	ND	59	ug/kg	8.1
2-Hexanone	ND	3000	ug/kg	28
Isopropylbenzene	ND	300	ug/kg	6.0
Methyl acetate	ND	1400	ug/kg	62
Methylene chloride	ND	300	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.8
4-Methyl-2-pentanone	ND	3000	ug/kg	13
Methyl tert-butyl ether	ND	300	ug/kg	12
Styrene	ND	59	ug/kg	33

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-098

GC/MS Volatiles

Lot-Sample #....: A4G150200-021 Work Order #....: GK57W1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.7
Tetrachloroethene	ND	59	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro-benzene	ND	300	ug/kg	14
1,1,1-Trichloroethane	ND	59	ug/kg	11
1,1,2-Trichloroethane	ND	59	ug/kg	12
Trichloroethene	27 J	59	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.8
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	300	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
Dibromofluoromethane	74		(59 - 138)	
1,2-Dichloroethane-d4	84		(61 - 130)	
Toluene-d8	96		(60 - 143)	
4-Bromofluorobenzene	86		(47 - 158)	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-099

GC/MS Volatiles

Lot-Sample #....: A4G150200-022 Work Order #....: GK57X1AA Matrix.....: 80
 Date Sampled....: 07/14/04 15:05 Date Received...: 07/15/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 1.08 Initial Wgt/Vol: 23.1 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	830	ug/kg	110
Benzene	ND	55	ug/kg	7.1
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	14
Bromomethane	ND	280	ug/kg	28
2-Butanone	ND	830	ug/kg	54
Carbon disulfide	ND	280	ug/kg	22
Carbon tetrachloride	ND	55	ug/kg	13
Chlorobenzene	ND	55	ug/kg	7.0
Chloroethane	ND	280	ug/kg	72
Chloroform	ND	55	ug/kg	13
Chloromethane	ND	280	ug/kg	5.8
Cyclohexane	ND	1300	ug/kg	8.5
Dibromochloromethane	ND	55	ug/kg	7.6
1,2-Dibromo-3-chloro- propane	ND	280	ug/kg	66
1,2-Dibromoethane	ND	280	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	19
1,3-Dichlorobenzene	ND	110	ug/kg	8.0
1,4-Dichlorobenzene	ND	110	ug/kg	8.7
Dichlorodifluoromethane	ND	110	ug/kg	6.0
1,1-Dichloroethane	ND	55	ug/kg	8.1
1,2-Dichloroethane	ND	55	ug/kg	10
1,1-Dichloroethene	ND	55	ug/kg	9.2
cis-1,2-Dichloroethene	ND	55	ug/kg	16
trans-1,2-Dichloroethene	ND	55	ug/kg	12
1,2-Dichloropropane	ND	55	ug/kg	8.2
cis-1,3-Dichloropropene	ND	55	ug/kg	6.1
trans-1,3-Dichloropropene	ND	55	ug/kg	6.0
Ethylbenzene	ND	55	ug/kg	7.5
2-Hexanone	ND	2800	ug/kg	27
Isopropylbenzene	ND	280	ug/kg	5.6
Methyl acetate	ND	1300	ug/kg	58
Methylene chloride	ND	280	ug/kg	110
Methylcyclohexane	ND	1300	ug/kg	6.3
4-Methyl-2-pentanone	ND	2800	ug/kg	12
Methyl tert-butyl ether	ND	280	ug/kg	11
Styrene	ND	55	ug/kg	31

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-099

GC/MS Volatiles

Lot-Sample #....: A4G150200-022 Work Order #....: GK57X1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	9.1
Tetrachloroethene	ND	55	ug/kg	10
Toluene	ND	110	ug/kg	10
1,2,4-Trichloro- benzene	ND	280	ug/kg	13
1,1,1-Trichloroethane	ND	55	ug/kg	11
1,1,2-Trichloroethane	ND	55	ug/kg	11
Trichloroethene	46 J	55	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	9.2
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	280	ug/kg	11
Vinyl chloride	ND	110	ug/kg	18
Xylenes (total)	ND	170	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	68	(59 - 138)
1,2-Dichloroethane-d4	81	(61 - 130)
Toluene-d8	93	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A4G150200
 MB Lot-Sample #: A4G200000-313

Work Order #....: GLE581AA

Matrix.....: SOLID

Analysis Date...: 07/19/04
 Dilution Factor: 1

Prep Date.....: 07/16/04

Final Wgt/Vol...: 25 mL

Prep Batch #....: 4202313

Initial Wgt/Vol: 25 g

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Acetone	ND	750	ug/kg		SW846 8260B
Benzene	ND	50	ug/kg		SW846 8260B
Bromodichloromethane	ND	100	ug/kg		SW846 8260B
Bromoform	ND	100	ug/kg		SW846 8260B
Bromomethane	ND	250	ug/kg		SW846 8260B
2-Butanone	ND	750	ug/kg		SW846 8260B
Carbon disulfide	ND	250	ug/kg		SW846 8260B
Carbon tetrachloride	ND	50	ug/kg		SW846 8260B
Chlorobenzene	ND	50	ug/kg		SW846 8260B
Chloroethane	ND	250	ug/kg		SW846 8260B
Chloroform	ND	50	ug/kg		SW846 8260B
Chloromethane	24 J	250	ug/kg		SW846 8260B
Cyclohexane	ND	1200	ug/kg		SW846 8260B
Dibromochloromethane	ND	50	ug/kg		SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	250	ug/kg		SW846 8260B
1,2-Dibromoethane	ND	250	ug/kg		SW846 8260B
1,2-Dichlorobenzene	ND	100	ug/kg		SW846 8260B
1,3-Dichlorobenzene	ND	100	ug/kg		SW846 8260B
1,4-Dichlorobenzene	ND	100	ug/kg		SW846 8260B
Dichlorodifluoromethane	ND	100	ug/kg		SW846 8260B
1,1-Dichloroethane	ND	50	ug/kg		SW846 8260B
1,2-Dichloroethane	ND	50	ug/kg		SW846 8260B
1,1-Dichloroethene	ND	50	ug/kg		SW846 8260B
cis-1,2-Dichloroethene	ND	50	ug/kg		SW846 8260B
trans-1,2-Dichloroethene	ND	50	ug/kg		SW846 8260B
1,2-Dichloropropane	ND	50	ug/kg		SW846 8260B
cis-1,3-Dichloropropene	ND	50	ug/kg		SW846 8260B
trans-1,3-Dichloropropene	ND	50	ug/kg		SW846 8260B
Ethylbenzene	ND	50	ug/kg		SW846 8260B
2-Hexanone	ND	2500	ug/kg		SW846 8260B
Isopropylbenzene	ND	250	ug/kg		SW846 8260B
Methyl acetate	ND	1200	ug/kg		SW846 8260B
Methylene chloride	ND	250	ug/kg		SW846 8260B
Methylcyclohexane	ND	1200	ug/kg		SW846 8260B
4-Methyl-2-pentanone	ND	2500	ug/kg		SW846 8260B
Methyl tert-butyl ether	ND	250	ug/kg		SW846 8260B
Styrene	ND	50	ug/kg		SW846 8260B
1,1,2,2-Tetrachloroethane	ND	100	ug/kg		SW846 8260B
Tetrachloroethene	ND	50	ug/kg		SW846 8260B
Toluene	ND	100	ug/kg		SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4G150200

Work Order #...: GLE581AA

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
1,2,4-Trichloro- benzene	ND	250	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	50	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	50	ug/kg	SW846 8260B
Trichloroethene	ND	50	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	100	ug/kg	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	250	ug/kg	SW846 8260B
Vinyl chloride	ND	100	ug/kg	SW846 8260B
Xylenes (total)	ND	150	ug/kg	SW846 8260B
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
Dibromofluoromethane	82	(59 - 138)		
1,2-Dichloroethane-d4	84	(61 - 130)		
Toluene-d8	96	(60 - 143)		
4-Bromofluorobenzene	89	(47 - 158)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A4G150200
MB Lot-Sample #: A4G210000-414

Work Order #....: GLJF51AA

Matrix.....: SOLID

Analysis Date...: 07/21/04

Prep Date.....: 07/16/04

Final Wgt/Vol...: 25 mL

Dilution Factor: 1

Prep Batch #....: 4203414

Initial Wgt/Vol: 25 g

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Acetone	ND	750	ug/kg	SW846	8260B
Benzene	ND	50	ug/kg	SW846	8260B
Bromodichloromethane	ND	100	ug/kg	SW846	8260B
Bromoform	ND	100	ug/kg	SW846	8260B
Bromomethane	ND	250	ug/kg	SW846	8260B
2-Butanone	ND	750	ug/kg	SW846	8260B
Carbon disulfide	ND	250	ug/kg	SW846	8260B
Carbon tetrachloride	ND	50	ug/kg	SW846	8260B
Chlorobenzene	ND	50	ug/kg	SW846	8260B
Chloroethane	ND	250	ug/kg	SW846	8260B
Chloroform	ND	50	ug/kg	SW846	8260B
Chloromethane	15 J	250	ug/kg	SW846	8260B
Cyclohexane	ND	1200	ug/kg	SW846	8260B
Dibromochloromethane	ND	50	ug/kg	SW846	8260B
1,2-Dibromo-3-chloro-propane	ND	250	ug/kg	SW846	8260B
1,2-Dibromoethane	ND	250	ug/kg	SW846	8260B
1,2-Dichlorobenzene	ND	100	ug/kg	SW846	8260B
1,3-Dichlorobenzene	ND	100	ug/kg	SW846	8260B
1,4-Dichlorobenzene	ND	100	ug/kg	SW846	8260B
Dichlorodifluoromethane	ND	100	ug/kg	SW846	8260B
1,1-Dichloroethane	ND	50	ug/kg	SW846	8260B
1,2-Dichloroethane	ND	50	ug/kg	SW846	8260B
1,1-Dichloroethene	ND	50	ug/kg	SW846	8260B
cis-1,2-Dichloroethene	ND	50	ug/kg	SW846	8260B
trans-1,2-Dichloroethene	ND	50	ug/kg	SW846	8260B
1,2-Dichloropropane	ND	50	ug/kg	SW846	8260B
cis-1,3-Dichloropropene	ND	50	ug/kg	SW846	8260B
trans-1,3-Dichloropropene	ND	50	ug/kg	SW846	8260B
Ethylbenzene	ND	50	ug/kg	SW846	8260B
2-Hexanone	ND	2500	ug/kg	SW846	8260B
Isopropylbenzene	ND	250	ug/kg	SW846	8260B
Methyl acetate	ND	1200	ug/kg	SW846	8260B
Methylene chloride	ND	250	ug/kg	SW846	8260B
Methylcyclohexane	ND	1200	ug/kg	SW846	8260B
4-Methyl-2-pentanone	ND	2500	ug/kg	SW846	8260B
Methyl tert-butyl ether	ND	250	ug/kg	SW846	8260B
Styrene	ND	50	ug/kg	SW846	8260B
1,1,2,2-Tetrachloroethane	ND	100	ug/kg	SW846	8260B
Tetrachloroethene	ND	50	ug/kg	SW846	8260B
Toluene	ND	100	ug/kg	SW846	8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A4G150200

Work Order #....: GLJF51AA

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2,4-Trichloro- benzene	13 J	250	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	50	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	50	ug/kg	SW846 8260B
Trichloroethene	ND	50	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	100	ug/kg	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	250	ug/kg	SW846 8260B
Vinyl chloride	ND	100	ug/kg	SW846 8260B
Xylenes (total)	ND	150	ug/kg	SW846 8260B
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	82	(59 - 138)		
1,2-Dichloroethane-d4	87	(61 - 130)		
Toluene-d8	99	(60 - 143)		
4-Bromofluorobenzene	91	(47 - 158)		

JTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A4G150200 Work Order #....: GLE581AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A4G200000-313 GLE581AD-LCSD
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #....: 4202313
 Dilution Factor: 1 Final Wgt/Vol...: 25 mL
 Initial Wgt/Vol: 25 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	200	190	ug/kg	95		SW846 8260B
	200	190	ug/kg	95	0.010	SW846 8260B
Chlorobenzene	200	200	ug/kg	99		SW846 8260B
	200	200	ug/kg	98	1.0	SW846 8260B
1,1-Dichloroethene	200	200	ug/kg	100		SW846 8260B
	200	200	ug/kg	100	0.080	SW846 8260B
Toluene	200	200	ug/kg	100		SW846 8260B
	200	200	ug/kg	101	0.96	SW846 8260B
Trichloroethene	200	190	ug/kg	93		SW846 8260B
	200	190	ug/kg	97	3.6	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(59 - 138)
	85	(59 - 138)
1,2-Dichloroethane-d4	89	(61 - 130)
	85	(61 - 130)
Toluene-d8	99	(60 - 143)
	94	(60 - 143)
4-Bromofluorobenzene	95	(47 - 158)
	87	(47 - 158)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A4G150200 Work Order #....: GLE581AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A4G200000-313 GLE581AD-LCSD
 Prep Date.....: 07/16/04 Analysis Date...: 07/19/04
 Prep Batch #....: 4202313
 Dilution Factor: 1 Final Wgt/Vol...: 25 mL
 Initial Wgt/Vol: 25 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	95	(75 - 129)			SW846 8260B
Chlorobenzene	95	(75 - 129)	0.010	(0-20)	SW846 8260B
	99	(75 - 127)			SW846 8260B
1,1-Dichloroethene	98	(75 - 127)	1.0	(0-22)	SW846 8260B
	100	(55 - 142)			SW846 8260B
Toluene	100	(55 - 142)	0.080	(0-27)	SW846 8260B
	100	(71 - 130)			SW846 8260B
Trichloroethene	101	(71 - 130)	0.96	(0-24)	SW846 8260B
	93	(70 - 131)			SW846 8260B
	97	(70 - 131)	3.6	(0-23)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(59 - 138)
	85	(59 - 138)
1,2-Dichloroethane-d4	89	(61 - 130)
	85	(61 - 130)
Toluene-d8	99	(60 - 143)
	94	(60 - 143)
4-Bromofluorobenzene	95	(47 - 158)
	87	(47 - 158)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A4G150200 Work Order #...: GLJF51AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A4G210000-414 GLJF51AD-LCSD
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #...: 4203414
 Dilution Factor: 1 Final Wgt/Vol...: 25 mL
 Initial Wgt/Vol: 25 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	200	180	ug/kg	92		SW846 8260B
	200	200	ug/kg	99	7.2	SW846 8260B
Chlorobenzene	200	190	ug/kg	97		SW846 8260B
	200	200	ug/kg	101	4.6	SW846 8260B
1,1-Dichloroethene	200	180	ug/kg	91		SW846 8260B
	200	190	ug/kg	96	5.8	SW846 8260B
Toluene	200	200	ug/kg	99		SW846 8260B
	200	210	ug/kg	103	3.7	SW846 8260B
Trichloroethene	200	180	ug/kg	92		SW846 8260B
	200	200	ug/kg	99	7.2	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	84	(59 - 138)
	86	(59 - 138)
1,2-Dichloroethane-d4	84	(61 - 130)
	89	(61 - 130)
Toluene-d8	95	(60 - 143)
	100	(60 - 143)
4-Bromofluorobenzene	90	(47 - 158)
	92	(47 - 158)

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A4G150200 Work Order #....: GLJF51AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A4G210000-414 GLJF51AD-LCSD
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 1 Final Wgt/Vol...: 25 mL
 Initial Wgt/Vol: 25 g

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	92	(75 - 129)			SW846 8260B
	99	(75 - 129)	7.2	(0-20)	SW846 8260B
Chlorobenzene	97	(75 - 127)			SW846 8260B
	101	(75 - 127)	4.6	(0-22)	SW846 8260B
1,1-Dichloroethene	91	(55 - 142)			SW846 8260B
	96	(55 - 142)	5.8	(0-27)	SW846 8260B
Toluene	99	(71 - 130)			SW846 8260B
	103	(71 - 130)	3.7	(0-24)	SW846 8260B
Trichloroethene	92	(70 - 131)			SW846 8260B
	99	(70 - 131)	7.2	(0-23)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	84	(59 - 138)
	86	(59 - 138)
1,2-Dichloroethane-d4	84	(61 - 130)
	89	(61 - 130)
Toluene-d8	95	(60 - 143)
	100	(60 - 143)
4-Bromofluorobenzene	90	(47 - 158)
	92	(47 - 158)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

GENERAL CHEMISTRY DATA

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-078

General Chemistry

Lot-Sample #....: A4G150200-001 Work Order #....: GK5LT Matrix.....: SO
Date Sampled...: 07/14/04 10:50 Date Received...: 07/15/04
% Moisture.....: 4.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	95.8	10.0	%	MCAWN 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-079

General Chemistry

Lot-Sample #....: A4G150200-002 Work Order #....: GK5L7 Matrix.....: SO
Date Sampled....: 07/14/04 10:55 Date Received...: 07/15/04
‡ Moisture.....: 1.8

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.2	10.0	‡	MCANW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-080

General Chemistry

Lot-Sample #....: A4G150200-003 Work Order #....: GK5L9 Matrix.....: SO
Date Sampled....: 07/14/04 11:00 Date Received...: 07/15/04
% Moisture.....: 1.8

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.2	10.0	%	MCAWW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

COMESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-081

General Chemistry

Lot-Sample #....: A4G150200-004 Work Order #....: GK5MC Matrix.....: SO
Date Sampled....: 07/14/04 11:05 Date Received...: 07/15/04
% Moisture.....: 4.1

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	95.9	10.0	%	MCANW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-082

General Chemistry

Lot-Sample #....: A4G150200-005 Work Order #....: GK566 Matrix.....: SO
Date Sampled...: 07/14/04 11:10 Date Received...: 07/15/04
% Moisture.....: 1.9

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.1	10.0	%	MCANW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-083

General Chemistry

Lot-Sample #....: A4G150200-006 Work Order #....: GK568 Matrix.....: SO
Date Sampled....: 07/14/04 11:15 Date Received...: 07/15/04
% Moisture.....: 2.3

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.7	10.0	%	MCANW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-084

General Chemistry

Lot-Sample #....: A4G150200-007 Work Order #....: GK57C Matrix.....: SO
Date Sampled....: 07/14/04 11:25 Date Received...: 07/15/04
% Moisture.....: 2.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.9	10.0	%	MCANW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-085

General Chemistry

Lot-Sample #....: A4G150200-008 Work Order #....: GK57D Matrix.....: SO
Date Sampled....: 07/14/04 11:30 Date Received...: 07/15/04
% Moisture.....: 2.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.0	10.0	%	MCANW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

COMESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-086

General Chemistry

Lot-Sample #...: A4G150200-009 Work Order #...: GK57E Matrix.....: SO
Date Sampled...: 07/14/04 11:40 Date Received...: 07/15/04
% Moisture.....: 2.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.0	10.0	%	MCANW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-087

General Chemistry

Lot-Sample #....: A4G150200-010 Work Order #....: GK57F Matrix.....: SO
Date Sampled....: 07/14/04 11:50 Date Received...: 07/15/04
% Moisture.....: 3.8

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.3	10.0	%	MCANW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-088

General Chemistry

Lot-Sample #...: A4G150200-011 Work Order #...: GK57H Matrix.....: SO
Date Sampled...: 07/14/04 12:00 Date Received...: 07/15/04
% Moisture.....: 3.3

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.7	10.0	%	MCANW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-089

General Chemistry

Lot-Sample #....: A4G150200-012 Work Order #....: GK57J Matrix.....: SO
Date Sampled....: 07/14/04 13:55 Date Received...: 07/15/04
% Moisture.....: 5.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	95.0	10.0	%	MCAWW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-090

General Chemistry

Lot-Sample #....: A4G150200-013 Work Order #....: GK57K Matrix.....: SO
Date Sampled....: 07/14/04 14:00 Date Received...: 07/15/04
% Moisture.....: 2.5

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-091

General Chemistry

Lot-Sample #....: A4G150200-014 Work Order #....: GK57M Matrix.....: SO
Date Sampled....: 07/14/04 14:05 Date Received...: 07/15/04
% Moisture.....: 2.4

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.6	10.0	%	MCAMW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-092

General Chemistry

Lot-Sample #....: A4G150200-015 Work Order #....: GK57N Matrix.....: SO
Date Sampled....: 07/14/04 14:10 Date Received...: 07/15/04
% Moisture.....: 3.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.0	10.0	%	MCANW 160.3 MOD	07/16-07/19/04	4198073
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-093

General Chemistry

Lot-Sample #....: A4G150200-016 Work Order #....: GK57P Matrix.....: SO
Date Sampled....: 07/14/04 14:15 Date Received...: 07/15/04
% Moisture.....: 5.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	95.0	10.0	%	MCANW 160.3 MOD	07/16-07/19/04	4198073
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-094

General Chemistry

Lot-Sample #....: A4G150200-017 Work Order #....: GK57Q Matrix.....: SO
Date Sampled....: 07/14/04 14:20 Date Received...: 07/15/04
% Moisture.....: 1.9

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD	07/16-07/19/04	4198073
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-095

General Chemistry

Lot-Sample #....: A4G150200-018 Work Order #....: GK57R Matrix.....: SO
Date Sampled....: 07/14/04 14:30 Date Received...: 07/15/04
% Moisture.....: 3.8

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.3	10.0	%	MCANW 160.3 MOD	07/16-07/19/04	4198073
		Dilution Factor: 1		MDL.....: 10.0		

CORRESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-096

General Chemistry

Lot-Sample #....: A4G150200-019 Work Order #....: GK57T Matrix.....: SO
Date Sampled....: 07/14/04 14:40 Date Received...: 07/15/04
% Moisture.....: 3.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
					<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Solids	96.8	10.0	%	MCANW 160.3 MOD	07/16-07/19/04	4198073
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-097

General Chemistry

Lot-Sample #...: A4G150200-020 Work Order #...: GK57V Matrix.....: SO
Date Sampled...: 07/14/04 14:45 Date Received...: 07/15/04
% Moisture.....: 1.9

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.1	10.0	%	MCANW 160.3 MOD	07/16-07/19/04	4198073
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-098

General Chemistry

Lot-Sample #....: A4G150200-021 Work Order #....: GK57W Matrix.....: SO
Date Sampled....: 07/14/04 14:55 Date Received...: 07/15/04
% Moisture.....: 3.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.0	10.0	%	MCANW 160.3 MOD	07/16-07/19/04	4198073
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071404-DCR-099

General Chemistry

Lot-Sample #...: A4G150200-022 Work Order #...: GK57X Matrix.....: SO
Date Sampled...: 07/14/04 15:05 Date Received...: 07/15/04
% Moisture.....: 2.5

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.5	10.0	%	MCANW 160.3 MOD	07/16-07/19/04	4198073
		Dilution Factor: 1		MDL.....: 10.0		

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A4G150200

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	ND	10.0	%	Work Order #: GK7K51AA MB Lot-Sample #: A4G160000-072 MCAWW 160.3 MOD	07/16-07/19/04	4198072
		Dilution Factor: 1				
Percent Solids	ND	10.0	%	Work Order #: GK7K41AA MB Lot-Sample #: A4G160000-073 MCAWW 160.3 MOD	07/16-07/19/04	4198073
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A4G150200

Work Order #....: GK5LT-SMP
GK5LT-DUP

Matrix.....: SO

Date Sampled....: 07/14/04 10:50 Date Received...: 07/15/04

* Moisture.....: 4.2

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	95.8	96.0	%	0.28	(0-20)	SD Lot-Sample #: A4G150200-001 MCANW 160.3 MOD	07/16-07/19/04	4198072

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A4G150200

Work Order #....: GK57M-SMP
GK57M-DUP

Matrix.....: SO

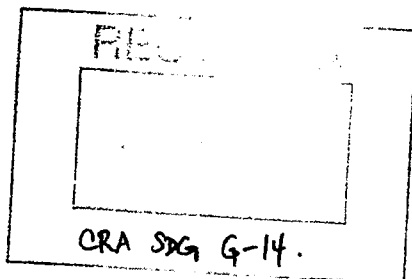
Date Sampled....: 07/14/04 14:05 Date Received...: 07/15/04

% Moisture.....: 2.4

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH
Percent Solids	97.6	97.4	%	0.25	(0-20)	SD Lot-Sample #: A4G150200-014 MCAWW 160.3 MOD	07/16-07/19/04	419807

Dilution Factor: 1

END OF REPORT



STL

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720

Tel: 330 497 9396 Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 17360-09

GM-GRAND RAPIDS

Lot #: A4G160169

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT

Project#: 17360-09 Lab#: A4G160169

Name: GM GRAND RAPIDS.

SEVERN TRENT LABORATORIES, INC. Description
Event: VAS Sampling
Samples: 33 soils per 100-132.
Analysis: TCL VOCs.

TAT: STANDARD TAT

Lab: STL-NC

Amy L. McCormick
Amy L. McCormick
Project Manager

Checked Against Preliminary Data:

Date: N/A Init.: N/A

Date of Validation Memo: 10/20/04

Invoice Approval Date: _____

July 30, 2004

Comments: _____

Coscor-mt 287 1st 5

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.
1496 Sheldon Road, Suite 200
Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name): **STC-North Carter**

REFERENCE NUMBER:
17360-09

PROJECT NAME: **Gm-Grand Rapids**

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: *David C Rovers* PRINTED NAME: **David C Rovers**

SEQ. No.	DATE	TIME	SAMPLE TYPE	CONTAINERS	PARAMETERS	REMARKS
	7/15/04	800	S-17360-071504-DCR-100	2	✓	STD T4T
		805	-101	2	✓	
		810	-102	2	✓	
		820	-103	2	✓	
		825	-104	2	✓	
		830	-105	2	✓	
		835	-106	2	✓	
		840	-107	2	✓	
		845	-108	2	✓	
		855	-109	2	✓	
		900	-110	2	✓	
		1050	-111	2	✓	
		1055	-112	2	✓	
		1100	-113	2	✓	
TOTAL NUMBER OF CONTAINERS					28	

CLD Contact
Paul Wiseman

RELINQUISHED BY: *David C Rovers*

RECEIVED BY: 1. _____

DATE: 7-15-04
TIME: 1905

DATE: _____

TIME: _____

RELINQUISHED BY: 2. _____

RECEIVED BY: 2. _____

DATE: _____
TIME: _____

DATE: _____

TIME: _____

RELINQUISHED BY: 3. _____

RECEIVED BY: 3. _____

DATE: _____
TIME: _____

DATE: _____

TIME: _____

METHOD OF SHIPMENT: **FED EX**

AIR BILL No. **845068047997**

White - Fully Executed Copy
Yellow - Receiving Laboratory Copy

SAMPLE TEAM:
David C Rovers

RECEIVED FOR LABORATORY BY: *Angela Matthews*

27172

DATE: 7-16-04 TIME: 0925

2 of 3

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.

14496 Sheldon Road, Suite 200
Plymouth, MI 48170 • (734) 453-5123

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: [Signature] PRINTED NAME: David C. Rivers

PRINTED
NAME: David C. Rivers

SEQ: No.	DATE	TIME

TIME

SAMPLE

7/15/09 1105 S-17360-071504-DCX-114

0117

125	120

1130	

1140	

150	150

120	1735

240	

245

252

330	100

525

油

2

BY:

BY:

.....

METHOD OF SHIPMENT:

-Shipper Copy	SAN

Receiving Laboratory Copy	Goldenrod	-Sampler Copy

27173

SAMPLE TEAM:

David C. Kuwens

DATE: 7-16-84 TIME: 0925

Cooler - VML-507 3 of 3

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.

14496 Sheldon Road, Suite 200

Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name):

STL North Canton

REFERENCE NUMBER:

17360-07

PROJECT NAME: GM - Grand Rapids

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: [Signature]

PRINTED NAME: David C. Rivers

SEQ: No.

DATE

TIME

SAMPLE TYPE

PARAMETERS

NO. OF CONTAINERS

REMARKS

7/15/04 1340 S-17360-071504-DEK-128
1345 1350 1400 1410
↓ ↓ ↓ ↓ ↓
-129 -130 -131 -132

STD TAT

OK contact
Paul Wiseman

TOTAL NUMBER OF CONTAINERS

10

RELINQUISHED BY: [Signature]

DATE: 7-15-04
TIME: 1900

RECEIVED BY: 1.

DATE: TIME:

RELINQUISHED BY: 2.

DATE: TIME:

RECEIVED BY: 2.

DATE: TIME:

RELINQUISHED BY: 3.

DATE: TIME:

RECEIVED BY: 1.

DATE: TIME:

METHOD OF SHIPMENT: FED EX

AIR BILL No. 84536064 7947

White - Fully Executed Copy
Yellow - Receiving Laboratory Copy

SAMPLE TEAM: David C. Rivers

RECEIVED FOR LABORATORY BY:

[Signature]

DATE: 7-6-04 TIME: 0925

27174



CASE NARRATIVE

CASE NARRATIVE

A4G160169

The following report contains the analytical results for thirty-three solid samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Grand Rapids Site, project number 17360-09. The samples were received July 16, 2004, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to the Chemistry Department on July 30, 2004. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

If you have any questions, please call the Project Manager, Amy L. McCormick, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 4.6°C.

CASE NARRATIVE (continued)

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

- for analyses run on TJA Trace ICP, ICPMS or GFAA only

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprep and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprep and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide, PCB, and PAH methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria.

STL North Canton Certifications and Approvals:

Alabama (#41170), California (#01144CA), Connecticut (#PH-0590), Florida (#E87225), Illinois (#100439), Kansas (#E10336), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Ohio (#6090), OhioVAP (#CLO024), Rhode Island (#237), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), Utah (#QUAN9), Virginia (#00011), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)



EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

MAG160169

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-17360-071504-DCR-100 07/15/04 08:00 001				
Benzene	33 J	200	ug/kg	SW846 8260B
Cyclohexane	31 J	4800	ug/kg	SW846 8260B
Isopropylbenzene	25 J	1000	ug/kg	SW846 8260B
Methylcyclohexane	200 J	4800	ug/kg	SW846 8260B
Toluene	140 J	400	ug/kg	SW846 8260B
Trichloroethene	5700	200	ug/kg	SW846 8260B
Xylenes (total)	200 J	600	ug/kg	SW846 8260B
Percent Solids	95.1	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-101 07/15/04 08:05 002				
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-102 07/15/04 08:10 003				
Chloromethane	18 J,B	330	ug/kg	SW846 8260B
Percent Solids	97.9	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-103 07/15/04 08:20 004				
2-Butanone	59 J	910	ug/kg	SW846 8260B
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-104 07/15/04 08:25 005				
Percent Solids	97.2	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-105 07/15/04 08:30 006				
Trichloroethene	25 J	56	ug/kg	SW846 8260B
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-106 07/15/04 08:35 007				
Percent Solids	96.6	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-107 07/15/04 08:40 008				
Chloromethane	21 J,B	280	ug/kg	SW846 8260B
Trichloroethene	20 J	56	ug/kg	SW846 8260B
Percent Solids	97.7	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4G160169

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
S-17360-071504-DCR-108 07/15/04 08:45 009				
Trichloroethene	25 J	55	ug/kg	SW846 8260B
Percent Solids	97.4	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-109 07/15/04 08:55 010				
Percent Solids	97.0	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-110 07/15/04 09:00 011				
Percent Solids	93.0	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-111 07/15/04 10:50 012				
Trichloroethene	190	66	ug/kg	SW846 8260B
Percent Solids	94.3	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-112 07/15/04 10:55 013				
Chloromethane	27 J	380	ug/kg	SW846 8260B
Percent Solids	96.8	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-113 07/15/04 11:00 014				
Percent Solids	98.3	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-114 07/15/04 11:05 015				
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-115 07/15/04 11:10 016				
Percent Solids	97.1	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-116 07/15/04 11:20 017				
Chloromethane	21 J	330	ug/kg	SW846 8260B
Percent Solids	95.2	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-117 07/15/04 11:25 018				
Chloromethane	18 J	280	ug/kg	SW846 8260B
Percent Solids	96.2	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4G160169

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-17360-071504-DCR-118 07/15/04 11:30 019				
Trichloroethene	41 J	61	ug/kg	SW846 8260B
Percent Solids	97.2	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-119 07/15/04 11:40 020				
Percent Solids	98.5	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-120 07/15/04 11:50 021				
Percent Solids	97.4	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-121 07/15/04 12:00 022				
Chloromethane	23 J	270	ug/kg	SW846 8260B
Trichloroethene	18 J	53	ug/kg	SW846 8260B
Percent Solids	95.5	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-122 07/15/04 12:35 023				
Methylcyclohexane	39 J	1400	ug/kg	SW846 8260B
Toluene	21 J	120	ug/kg	SW846 8260B
Trichloroethene	2000	59	ug/kg	SW846 8260B
Xylenes (total)	38 J	180	ug/kg	SW846 8260B
Percent Solids	94.7	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-123 07/15/04 12:40 024				
Percent Solids	96.9	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-124 07/15/04 12:45 025				
Chloromethane	24 J,B	280	ug/kg	SW846 8260B
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-125 07/15/04 12:50 026				
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-126 07/15/04 13:30 027				
1,2,4-Trichloro- benzene	30 J	300	ug/kg	SW846 8260B
Percent Solids	97.7	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

AAG160169

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
S-17360-071504-DCR-127 07/15/04 13:35 028				
Percent Solids	95.8	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-128 07/15/04 13:40 029				
Chloromethane	19 J,B	290	ug/kg	SW846 8260B
Trichloroethene	16 J	58	ug/kg	SW846 8260B
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-129 07/15/04 13:45 030				
Trichloroethene	14 J	57	ug/kg	SW846 8260B
Percent Solids	96.7	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-130 07/15/04 13:50 031				
Percent Solids	97.6	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-131 07/15/04 14:00 032				
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD
S-17360-071504-DCR-132 07/15/04 14:10 033				
Percent Solids	87.1	10.0	%	MCAWW 160.3 MOD



METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A4G160169

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Total Residue as Percent Solids	MCAWW 160.3 MOD
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.



SAMPLE SUMMARY

SAMPLE SUMMARY

A4G160169

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GK78C	001	S-17360-071504-DCR-100	07/15/04	08:00
GK78G	002	S-17360-071504-DCR-101	07/15/04	08:05
GK78L	003	S-17360-071504-DCR-102	07/15/04	08:10
GK78N	004	S-17360-071504-DCR-103	07/15/04	08:20
GK78R	005	S-17360-071504-DCR-104	07/15/04	08:25
GK78W	006	S-17360-071504-DCR-105	07/15/04	08:30
GK78X	007	S-17360-071504-DCR-106	07/15/04	08:35
GK781	008	S-17360-071504-DCR-107	07/15/04	08:40
GK783	009	S-17360-071504-DCR-108	07/15/04	08:45
GK784	010	S-17360-071504-DCR-109	07/15/04	08:55
GK786	011	S-17360-071504-DCR-110	07/15/04	09:00
GK788	012	S-17360-071504-DCR-111	07/15/04	10:50
GK789	013	S-17360-071504-DCR-112	07/15/04	10:55
GK79C	014	S-17360-071504-DCR-113	07/15/04	11:00
GK79D	015	S-17360-071504-DCR-114	07/15/04	11:05
GK79H	016	S-17360-071504-DCR-115	07/15/04	11:10
GK79J	017	S-17360-071504-DCR-116	07/15/04	11:20
GK79K	018	S-17360-071504-DCR-117	07/15/04	11:
GK79M	019	S-17360-071504-DCR-118	07/15/04	11:
GK79P	020	S-17360-071504-DCR-119	07/15/04	11:
GK79T	021	S-17360-071504-DCR-120	07/15/04	11:50
GK79W	022	S-17360-071504-DCR-121	07/15/04	12:00
GK791	023	S-17360-071504-DCR-122	07/15/04	12:35
GK793	024	S-17360-071504-DCR-123	07/15/04	12:40
GK795	025	S-17360-071504-DCR-124	07/15/04	12:45
GK798	026	S-17360-071504-DCR-125	07/15/04	12:50
GK8AD	027	S-17360-071504-DCR-126	07/15/04	13:30
GK8AE	028	S-17360-071504-DCR-127	07/15/04	13:35
GK8AF	029	S-17360-071504-DCR-128	07/15/04	13:40
GK8AG	030	S-17360-071504-DCR-129	07/15/04	13:45
GK8AH	031	S-17360-071504-DCR-130	07/15/04	13:50
GK8AJ	032	S-17360-071504-DCR-131	07/15/04	14:00
GK8AK	033	S-17360-071504-DCR-132	07/15/04	14:10

(Continued on next page)

SAMPLE SUMMARY

M4G160169

WO #	SAMPLE#	CLIENT	SAMPLE ID	SAMPLED DATE	SAMP TIME

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

***SHIPPING
AND
RECEIVING DOCUMENTS***

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.
14496 Sheldon Road, Suite 200
Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name): STL North Canton

Cosco - mt 584 1 of 3

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:
17360-09

PROJECT NAME: Gm - Grand Rapids

SAMPLER'S
SIGNATURE: *[Signature]*

PRINTED
NAME: David C Rivers

DATE: 7/15/94

PARAMETERS

SEC: DATE TIME

SAMPLE
TYPE

NO. OF
CONTAINERS

REMARKS

7/15/94	8:00	S-17360-0715-04-D-CR-100	Soil	2	X	STD T44T
	8:05			2	X	
	8:10			2	X	
	8:20			2	X	
	8:25			2	X	
	8:30			2	X	
	8:35			2	X	
	8:40			2	X	
	8:45			2	X	
	8:55			2	X	
	9:00			2	X	
	10:50			2	X	
	10:55			2	X	
	11:00			2	X	

CONESTOGA-HOVERS & ASSOCIATES, INC.
14486 Sheldon Road, Suite 200
Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name):

STL - North Canton

Cables - MT 584 2 of 3

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:
17365-09

PROJECT NAME: GM - Grand Rapids

SAMPLER'S
SIGNATURE: *[Signature]*

PRINTED
NAME:

David C. Rivers

PARAMETERS

SEQ. No.	DATE	TIME	SAMPLE TYPE	NO. OF CONTAINERS	REMARKS

7/17/04	11:05	5-17365-071564-DCR-114	Seal	2	TEL VOT
	11:10			2	
	11:20			2	
	11:25			2	
	11:30			2	
	11:40			2	
	11:50			2	
	12:00			2	
	12:35			2	
	12:40			2	
	12:45			2	
	12:50			2	
	13:00			2	
	13:30			2	
	13:35			2	
				28	

TOTAL NUMBER OF CONTAINERS

SEA Contact
Paul Wiseman

1. RELINQUISHED BY: *[Signature]* DATE: 7-15-04 RECEIVED BY: 1. DATE: TIME: 1908

2. RELINQUISHED BY: DATE: TIME: RECEIVED BY: 2. DATE: TIME:

3. RELINQUISHED BY: DATE: TIME: RECEIVED BY: 1. DATE: TIME:

METHOD OF SHIPMENT:

FED EX

AIR BILL NO. 845068647447

White - Fully Executed Copy
Yellow - Processing Laboratory Copy
Pink - Shipper Copy
Goldend - Sampler Copy

SAMPLE TEAM:

David C. Rivers

RECEIVED FOR LABORATORY BY:

27173

DATE: 7-16-04 TIME: 0925

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.
14496 Sheldon Road, Suite 200
Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name):

STL North Canton

Color - Mt 584 3 of 3

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:
17360-09

PROJECT NAME: GM - Grand Rapids

SAMPLER'S SIGNATURE: *[Signature]* PRINTED NAME: David C Rivers

SEQ. No.	DATE	TIME	SAMPLE TYPE	NO. OF CONTAINERS

7/15/04 1346 S-17360-071504-DCR-128 Soil 2

1345 1 2

1355 1 2

1400 1 2

1410 1 2

1410 1 2

1410 1 2

1410 1 2

1410 1 2

1410 1 2

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1410 1 2

REMARKS
STD TAT

Not contact Paul Wilkerson

TOTAL NUMBER OF CONTAINERS

10

RELINQUISHED BY: 1. DATE: 7-15-04 TIME: 1400 RECEIVED BY: 1. DATE: TIME: RECEIVED BY: 1. DATE: TIME:

RELINQUISHED BY: 2. DATE: TIME: RECEIVED BY: 2. DATE: TIME: RECEIVED BY: 2. DATE: TIME:

RELINQUISHED BY: 3. DATE: TIME: RECEIVED BY: 3. DATE: TIME: RECEIVED BY: 3. DATE: TIME:

METHOD OF SHIPMENT:

Fed Ex

AIR BILL NO. 84526064 7947

White - Fully Executed Copy
Yellow - Receiving Laboratory Copy
Pink - Shipper Copy
Goldendrod - Sampler Copy

SAMPLE TEAM: David C. Rivers

RECEIVED FOR LABORATORY BY: *[Signature]*

1001 (F) 7-APRIL 28, 83-REV.0-(C)(F-01)

DATE: 7-16-04 TIME: 0925

RSR280
 Client: 57787
 Lot #: A4G160169
 Case Number/SDG: 17360-09
 Storage Location: C119 MS

Severn Trent Laboratories, Inc.
 Sample Control Record

Laboratory Sample I.D.	Transferred By	Date	Entered	Removed	Reason	Date Returned
GK78C	STILLERJ	7/16/04	Yes		Storage	
GK78G	STILLERJ	7/16/04	Yes		Storage	
GK78L	STILLERJ	7/16/04	Yes		Storage	
GK78N	STILLERJ	7/16/04	Yes		Storage	
GK78R	STILLERJ	7/16/04	Yes		Storage	
GK78W	STILLERJ	7/16/04	Yes		Storage	
GK78X	STILLERJ	7/16/04	Yes		Storage	
GK781	STILLERJ	7/16/04	Yes		Storage	
GK783	STILLERJ	7/16/04	Yes		Storage	
GK784	STILLERJ	7/16/04	Yes		Storage	
GK786	STILLERJ	7/16/04	Yes		Storage	
GK788	STILLERJ	7/16/04	Yes		Storage	
GK789	STILLERJ	7/16/04	Yes		Storage	
GK79C	STILLERJ	7/16/04	Yes		Storage	
GK79D	STILLERJ	7/16/04	Yes		Storage	
GK79H	STILLERJ	7/16/04	Yes		Storage	
GK79J	STILLERJ	7/16/04	Yes		Storage	
GK79K	STILLERJ	7/16/04	Yes		Storage	
GK79M	STILLERJ	7/16/04	Yes		Storage	
GK79P	STILLERJ	7/16/04	Yes		Storage	
GK79T	STILLERJ	7/16/04	Yes		Storage	
GK79W	STILLERJ	7/16/04	Yes		Storage	
GK791	STILLERJ	7/16/04	Yes		Storage	

RBR280
 Client: 57787
 Lot #: A40160169
 Case Number/SDG: 17360-09
 Storage Location: C119 MS

Severn Trent Laboratories, Inc.
 Sample Control Record

Laboratory Sample I.D.	Transferred By	Date	Entered	Removed	Reason	Date Returned
GK793	STILLERJ	7/16/04	Yes		Storage	
GK795	STILLERJ	7/16/04	Yes		Storage	
GK798	STILLERJ	7/16/04	Yes		Storage	
GK8AD	STILLERJ	7/16/04	Yes		Storage	
GK8AE	STILLERJ	7/16/04	Yes		Storage	
GK8AF	STILLERJ	7/16/04	Yes		Storage	
GK8AG	STILLERJ	7/16/04	Yes		Storage	
GK8AH	STILLERJ	7/16/04	Yes		Storage	
GK8AJ	STILLERJ	7/16/04	Yes		Storage	
GK8AK	STILLERJ	7/16/04	Yes		Storage	

STL Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: A4G160169

Client: CRA

Project: GM-Grand Rapids

Quote#: 50154

Cooler Received on: 7-16-04

Opened on: 7-16-04

by: Angela Mathews
 (Signature)

Fedx ☒ Client Drop Off ☐ UPS ☐ DHL ☐ FAS ☐ Other: _____

STL Cooler No# M1584 Foam Box ☐ Client Cooler ☒ Other _____

1. Were custody seals on the outside of the cooler? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐

If YES, Quantity _____

Were the custody seals signed and dated?

Yes ☐ No ☒ NA ☐

2. Shipper's packing slip attached to this form?

Yes ☒ No ☐ NA ☐

3. Did custody papers accompany the samples? Yes ☒ No ☐

Relinquished by client? Yes ☒ No ☐

4. Did you sign the custody papers in the appropriate place?

Yes ☒ No ☐

5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other: _____

6. Cooler temperature upon receipt 4.6 °C (see back of form for multiple coolers/temp)

METHOD: Temp Vial ☐ Coolant & Sample ☐ Against Bottles ☐ IR ☒ ICE/H₂O Slurry ☐

COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐

7. Did all bottles arrive in good condition (Unbroken)?

Yes ☒ No ☐

8. Could all bottle labels and/or tags be reconciled with the COC?

Yes ☒ No ☐

9. Were samples at the correct pH? (record below/on back)

Yes ☒ No ☐ NA ☒

10. Were correct bottles used for the tests indicated?

Yes ☒ No ☐

11. Were air bubbles >6 mm in any VOA vials?

Yes ☐ No ☐ NA ☒

12. Sufficient quantity received to perform indicated analyses?

Yes ☒ No ☐

Contacted PM _____ Date: _____ by: _____ via Voice Mail ☐ Verbal ☐ Other ☐

Concerning: _____

1. CHAIN OF CUSTODY

The following discrepancies occurred:

2. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). Nitric Acid Lot #122603-HNO₃; Sulfuric Acid Lot #011-504-H₂SO₄; Sodium Hydroxide Lot #111401-NaOH; Hydrochloric Acid Lot #100902-HCl; Sodium Hydroxide and Zinc Acetate Lot #112801-CH₃COO₂ZN/NaOH

Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

Client ID	pH	Date	Initials

**STL Cooler Receipt Form/Narrative
North Canton Facility**

[illegible]

Discrepancies Cont.

GCMS VOLATILE DATA

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-100

GC/MS Volatiles

Lot-Sample #....: A4G160169-001 Work Order #....: GK78C1AA Matrix.....: 80
 Date Sampled....: 07/15/04 08:00 Date Received...: 07/16/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/22/04
 Prep Batch #....: 4203414
 Dilution Factor: 3.82 Initial Wgt/Vol: 21.8 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 4.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	3000	ug/kg	400
Benzene	33 J	200	ug/kg	26
Bromodichloromethane	ND	400	ug/kg	48
Bromoform	ND	400	ug/kg	52
Bromomethane	ND	1000	ug/kg	100
2-Butanone	ND	3000	ug/kg	200
Carbon disulfide	ND	1000	ug/kg	80
Carbon tetrachloride	ND	200	ug/kg	48
Chlorobenzene	ND	200	ug/kg	25
Chloroethane	ND	1000	ug/kg	260
Chloroform	ND	200	ug/kg	48
Chloromethane	ND	1000	ug/kg	21
Cyclohexane	31 J	4800	ug/kg	31
Dibromochloromethane	ND	200	ug/kg	28
1,2-Dibromo-3-chloro- propane	ND	1000	ug/kg	240
1,2-Dibromoethane	ND	1000	ug/kg	40
1,2-Dichlorobenzene	ND	400	ug/kg	68
1,3-Dichlorobenzene	ND	400	ug/kg	29
1,4-Dichlorobenzene	ND	400	ug/kg	32
Dichlorodifluoromethane	ND	400	ug/kg	22
1,1-Dichloroethane	ND	200	ug/kg	29
1,2-Dichloroethane	ND	200	ug/kg	37
1,1-Dichloroethene	ND	200	ug/kg	33
cis-1,2-Dichloroethene	ND	200	ug/kg	56
trans-1,2-Dichloroethene	ND	200	ug/kg	44
1,2-Dichloropropane	ND	200	ug/kg	30
cis-1,3-Dichloropropene	ND	200	ug/kg	22
trans-1,3-Dichloropropene	ND	200	ug/kg	22
Ethylbenzene	ND	200	ug/kg	27
2-Hexanone	ND	10000	ug/kg	96
Isopropylbenzene	25 J	1000	ug/kg	20
Methyl acetate	ND	4800	ug/kg	210
Methylene chloride	ND	1000	ug/kg	400
Methylcyclohexane	200 J	4800	ug/kg	23
4-Methyl-2-pentanone	ND	10000	ug/kg	44
Methyl tert-butyl ether	ND	1000	ug/kg	40
Styrene	ND	200	ug/kg	110

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-100

GC/MS Volatiles

Lot-Sample #....: A4G160169-001 Work Order #....: GK78C1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	400	ug/kg	33
Tetrachloroethene	ND	200	ug/kg	36
Toluene	140 J	400	ug/kg	37
1,2,4-Trichloro- benzene	ND	1000	ug/kg	48
1,1,1-Trichloroethane	ND	200	ug/kg	38
1,1,2-Trichloroethane	ND	200	ug/kg	40
Trichloroethene	5700	200	ug/kg	48
Trichlorofluoromethane	ND	400	ug/kg	33
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1000	ug/kg	40
Vinyl chloride	ND	400	ug/kg	64
Xylenes (total)	200 J	600	ug/kg	60

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	75 DIL	(59 - 138)
1,2-Dichloroethane-d4	81 DIL	(61 - 130)
Toluene-d8	91 DIL	(60 - 143)
4-Bromofluorobenzene	83 DIL	(47 - 158)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-101

GC/MS Volatiles

Lot-Sample #....: A4G160169-002 Work Order #....: GK78G1AA Matrix.....: SO
 Date Sampled....: 07/15/04 08:05 Date Received...: 07/16/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 2.21 Initial Wgt/Vol: 11.3 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.5 Method.....: SWB46 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	1700	ug/kg	220
Benzene	ND	110	ug/kg	15
Bromodichloromethane	ND	230	ug/kg	27
Bromoform	ND	230	ug/kg	29
Bromomethane	ND	570	ug/kg	57
2-Butanone	ND	1700	ug/kg	110
Carbon disulfide	ND	570	ug/kg	45
Carbon tetrachloride	ND	110	ug/kg	27
Chlorobenzene	ND	110	ug/kg	14
Chloroethane	ND	570	ug/kg	150
Chloroform	ND	110	ug/kg	27
Chloromethane	ND	570	ug/kg	12
Cyclohexane	ND	2700	ug/kg	17
Dibromochloromethane	ND	110	ug/kg	16
1,2-Dibromo-3-chloro- propane	ND	570	ug/kg	140
1,2-Dibromoethane	ND	570	ug/kg	22
1,2-Dichlorobenzene	ND	230	ug/kg	39
1,3-Dichlorobenzene	ND	230	ug/kg	16
1,4-Dichlorobenzene	ND	230	ug/kg	18
Dichlorodifluoromethane	ND	230	ug/kg	12
1,1-Dichloroethane	ND	110	ug/kg	17
1,2-Dichloroethane	ND	110	ug/kg	21
1,1-Dichloroethene	ND	110	ug/kg	19
cis-1,2-Dichloroethene	ND	110	ug/kg	32
trans-1,2-Dichloroethene	ND	110	ug/kg	25
1,2-Dichloropropane	ND	110	ug/kg	17
cis-1,3-Dichloropropene	ND	110	ug/kg	12
trans-1,3-Dichloropropene	ND	110	ug/kg	12
Ethylbenzene	ND	110	ug/kg	15
2-Hexanone	ND	5700	ug/kg	54
Isopropylbenzene	ND	570	ug/kg	12
Methyl acetate	ND	2700	ug/kg	120
Methylene chloride	ND	570	ug/kg	220
Methylcyclohexane	ND	2700	ug/kg	13
4-Methyl-2-pentanone	ND	5700	ug/kg	25
Methyl tert-butyl ether	ND	570	ug/kg	23
Styrene	ND	110	ug/kg	63

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: 8-17360-071504-DCR-101

GC/MS Volatiles

Lot-Sample #....: A4G160169-002 Work Order #....: GK78G1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	230	ug/kg	19
Tetrachloroethene	ND	110	ug/kg	20
Toluene	ND	230	ug/kg	21
1,2,4-Trichloro- benzene	ND	570	ug/kg	27
1,1,1-Trichloroethane	ND	110	ug/kg	22
1,1,2-Trichloroethane	ND	110	ug/kg	22
Trichloroethene	ND	110	ug/kg	27
Trichlorofluoromethane	ND	230	ug/kg	19
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	570	ug/kg	23
Vinyl chloride	ND	230	ug/kg	36
Xylenes (total)	ND	340	ug/kg	34

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	75	(59 - 138)
1,2-Dichloroethane-d4	84	(61 - 130)
Toluene-d8	96	(60 - 143)
4-Bromofluorobenzene	88	(47 - 158)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-102

GC/MS Volatiles

Lot-Sample #....: A4G160169-003 Work Order #....: GK78L1AA Matrix.....: SO
 Date Sampled....: 07/15/04 08:10 Date Received...: 07/16/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 1.29 Initial Wgt/Vol: 19.4 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	990	ug/kg	130
Benzene	ND	66	ug/kg	8.4
Bromodichloromethane	ND	130	ug/kg	16
Bromoform	ND	130	ug/kg	17
Bromomethane	ND	330	ug/kg	33
2-Butanone	ND	990	ug/kg	65
Carbon disulfide	ND	330	ug/kg	26
Carbon tetrachloride	ND	66	ug/kg	16
Chlorobenzene	ND	66	ug/kg	8.3
Chloroethane	ND	330	ug/kg	86
Chloroform	ND	66	ug/kg	16
Chloromethane	18 J,B	330	ug/kg	6.9
Cyclohexane	ND	1600	ug/kg	10
Dibromochloromethane	ND	66	ug/kg	9.1
1,2-Dibromo-3-chloro- propane	ND	330	ug/kg	79
1,2-Dibromoethane	ND	330	ug/kg	13
1,2-Dichlorobenzene	ND	130	ug/kg	22
1,3-Dichlorobenzene	ND	130	ug/kg	9.5
1,4-Dichlorobenzene	ND	130	ug/kg	10
Dichlorodifluoromethane	ND	130	ug/kg	7.1
1,1-Dichloroethane	ND	66	ug/kg	9.6
1,2-Dichloroethane	ND	66	ug/kg	12
1,1-Dichloroethene	ND	66	ug/kg	11
cis-1,2-Dichloroethene	ND	66	ug/kg	18
trans-1,2-Dichloroethene	ND	66	ug/kg	14
1,2-Dichloropropane	ND	66	ug/kg	9.7
cis-1,3-Dichloropropene	ND	66	ug/kg	7.2
trans-1,3-Dichloropropene	ND	66	ug/kg	7.1
Ethylbenzene	ND	66	ug/kg	9.0
2-Hexanone	ND	3300	ug/kg	32
Isopropylbenzene	ND	330	ug/kg	6.7
Methyl acetate	ND	1600	ug/kg	69
Methylene chloride	ND	330	ug/kg	130
Methylcyclohexane	ND	1600	ug/kg	7.5
4-Methyl-2-pentanone	ND	3300	ug/kg	14
Methyl tert-butyl ether	ND	330	ug/kg	13
Styrene	ND	66	ug/kg	37

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-102

GC/MS Volatiles

Lot-Sample #....: A4G160169-003 Work Order #....: GK78L1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	130	ug/kg	11
Tetrachloroethene	ND	66	ug/kg	12
Toluene	ND	130	ug/kg	12
1,2,4-Trichloro- benzene	ND	330	ug/kg	16
1,1,1-Trichloroethane	ND	66	ug/kg	13
1,1,2-Trichloroethane	ND	66	ug/kg	13
Trichloroethene	ND	66	ug/kg	16
Trichlorofluoromethane	ND	130	ug/kg	11
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	330	ug/kg	13
Vinyl chloride	ND	130	ug/kg	21
Xylenes (total)	ND	200	ug/kg	20

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	76	(59 - 138)
1,2-Dichloroethane-d4	83	(61 - 130)
Toluene-d8	94	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-103

GC/MS Volatiles

Lot-Sample #....: A4G160169-004 Work Order #....: GK78N1AA Matrix.....: SO
 Date Sampled....: 07/15/04 08:20 Date Received...: 07/16/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 1.18 Initial Wgt/Vol: 21.1 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	910	ug/kg	120
Benzene	ND	61	ug/kg	7.7
Bromodichloromethane	ND	120	ug/kg	15
Bromoform	ND	120	ug/kg	16
Bromomethane	ND	300	ug/kg	30
2-Butanone	59 J	910	ug/kg	59
Carbon disulfide	ND	300	ug/kg	24
Carbon tetrachloride	ND	61	ug/kg	15
Chlorobenzene	ND	61	ug/kg	7.6
Chloroethane	ND	300	ug/kg	79
Chloroform	ND	61	ug/kg	15
Chloromethane	ND	300	ug/kg	6.3
Cyclohexane	ND	1500	ug/kg	9.3
Dibromochloromethane	ND	61	ug/kg	8.3
1,2-Dibromo-3-chloro- propane	ND	300	ug/kg	73
1,2-Dibromoethane	ND	300	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	21
1,3-Dichlorobenzene	ND	120	ug/kg	8.7
1,4-Dichlorobenzene	ND	120	ug/kg	9.6
Dichlorodifluoromethane	ND	120	ug/kg	6.5
1,1-Dichloroethane	ND	61	ug/kg	8.8
1,2-Dichloroethane	ND	61	ug/kg	11
1,1-Dichloroethene	ND	61	ug/kg	10
cis-1,2-Dichloroethene	ND	61	ug/kg	17
trans-1,2-Dichloroethene	ND	61	ug/kg	13
1,2-Dichloropropane	ND	61	ug/kg	9.0
cis-1,3-Dichloropropene	ND	61	ug/kg	6.7
trans-1,3-Dichloropropene	ND	61	ug/kg	6.5
Ethylbenzene	ND	61	ug/kg	8.2
2-Hexanone	ND	3000	ug/kg	29
Isopropylbenzene	ND	300	ug/kg	6.2
Methyl acetate	ND	1500	ug/kg	63
Methylene chloride	ND	300	ug/kg	120
Methylcyclohexane	ND	1500	ug/kg	6.9
4-Methyl-2-pentanone	ND	3000	ug/kg	13
Methyl tert-butyl ether	ND	300	ug/kg	12
Styrene	ND	61	ug/kg	34

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-103

GC/MS Volatiles

Lot-Sample #....: A4G160169-004 Work Order #....: GK78N1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.9
Tetrachloroethene	ND	61	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	300	ug/kg	15
1,1,1-Trichloroethane	ND	61	ug/kg	11
1,1,2-Trichloroethane	ND	61	ug/kg	12
Trichloroethene	ND	61	ug/kg	15
Trichlorofluoromethane	ND	120	ug/kg	10
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	300	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	78	(59 - 138)
1,2-Dichloroethane-d4	83	(61 - 130)
Toluene-d8	97	(60 - 143)
4-Bromofluorobenzene	88	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: 8-17360-071504-DCR-104

GC/MS Volatiles

Lot-Sample #....: A4G160169-005 Work Order #....: GK78R1AA Matrix.....: SO
 Date Sampled....: 07/15/04 08:25 Date Received...: 07/16/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 1.17 Initial Wgt/Vol: 21.4 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	900	ug/kg	120
Benzene	ND	60	ug/kg	7.7
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	16
Bromomethane	ND	300	ug/kg	30
2-Butanone	ND	900	ug/kg	59
Carbon disulfide	ND	300	ug/kg	24
Carbon tetrachloride	ND	60	ug/kg	14
Chlorobenzene	ND	60	ug/kg	7.6
Chloroethane	ND	300	ug/kg	78
Chloroform	ND	60	ug/kg	14
Chloromethane	ND	300	ug/kg	6.3
Cyclohexane	ND	1400	ug/kg	9.3
Dibromochloromethane	ND	60	ug/kg	8.3
1,2-Dibromo-3-chloro- propane	ND	300	ug/kg	72
1,2-Dibromoethane	ND	300	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.7
1,4-Dichlorobenzene	ND	120	ug/kg	9.5
Dichlorodifluoromethane	ND	120	ug/kg	6.5
1,1-Dichloroethane	ND	60	ug/kg	8.8
1,2-Dichloroethane	ND	60	ug/kg	11
1,1-Dichloroethene	ND	60	ug/kg	10
cis-1,2-Dichloroethene	ND	60	ug/kg	17
trans-1,2-Dichloroethene	ND	60	ug/kg	13
1,2-Dichloropropane	ND	60	ug/kg	8.9
cis-1,3-Dichloropropene	ND	60	ug/kg	6.6
trans-1,3-Dichloropropene	ND	60	ug/kg	6.5
Ethylbenzene	ND	60	ug/kg	8.2
2-Hexanone	ND	3000	ug/kg	29
Isopropylbenzene	ND	300	ug/kg	6.1
Methyl acetate	ND	1400	ug/kg	63
Methylene chloride	ND	300	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.9
4-Methyl-2-pentanone	ND	3000	ug/kg	13
Methyl tert-butyl ether	ND	300	ug/kg	12
Styrene	ND	60	ug/kg	34

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: 8-17360-071504-DCR-104

GC/MS Volatiles

Lot-Sample #....: A4G160169-005 Work Order #....: GK78R1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.9
Tetrachloroethene	ND	60	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	300	ug/kg	14
1,1,1-Trichloroethane	ND	60	ug/kg	11
1,1,2-Trichloroethane	ND	60	ug/kg	12
Trichloroethene	ND	60	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	10
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	300	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	75	(59 - 138)
1,2-Dichloroethane-d4	83	(61 - 130)
Toluene-d8	95	(60 - 143)
4-Bromofluorobenzene	87	(47 - 158)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: 8-17360-071504-DCR-105

GC/MS Volatiles

Lot-Sample #....: A4G160169-006 Work Order #....: GK78W1AA Matrix.....: SO
 Date Sampled...: 07/15/04 08:30 Date Received...: 07/16/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 1.09 Initial Wgt/Vol: 23 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	830	ug/kg	110
Benzene	ND	56	ug/kg	7.1
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	14
Bromomethane	ND	280	ug/kg	28
2-Butanone	ND	830	ug/kg	54
Carbon disulfide	ND	280	ug/kg	22
Carbon tetrachloride	ND	56	ug/kg	13
Chlorobenzene	ND	56	ug/kg	7.0
Chloroethane	ND	280	ug/kg	72
Chloroform	ND	56	ug/kg	13
Chloromethane	ND	280	ug/kg	5.8
Cyclohexane	ND	1300	ug/kg	8.6
Dibromochloromethane	ND	56	ug/kg	7.7
1,2-Dibromo-3-chloro- propane	ND	280	ug/kg	67
1,2-Dibromoethane	ND	280	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	19
1,3-Dichlorobenzene	ND	110	ug/kg	8.0
1,4-Dichlorobenzene	ND	110	ug/kg	8.8
Dichlorodifluoromethane	ND	110	ug/kg	6.0
1,1-Dichloroethane	ND	56	ug/kg	8.1
1,2-Dichloroethane	ND	56	ug/kg	10
1,1-Dichloroethene	ND	56	ug/kg	9.2
cis-1,2-Dichloroethene	ND	56	ug/kg	16
trans-1,2-Dichloroethene	ND	56	ug/kg	12
1,2-Dichloropropane	ND	56	ug/kg	8.2
cis-1,3-Dichloropropene	ND	56	ug/kg	6.1
trans-1,3-Dichloropropene	ND	56	ug/kg	6.0
Ethylbenzene	ND	56	ug/kg	7.6
2-Hexanone	ND	2800	ug/kg	27
Isopropylbenzene	ND	280	ug/kg	5.7
Methyl acetate	ND	1300	ug/kg	58
Methylene chloride	ND	280	ug/kg	110
Methylcyclohexane	ND	1300	ug/kg	6.3
4-Methyl-2-pentanone	ND	2800	ug/kg	12
Methyl tert-butyl ether	ND	280	ug/kg	11
Styrene	ND	56	ug/kg	31

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: 8-17360-071504-DCR-105

GC/MS Volatiles

Lot-Sample #....: A4G160169-006 Work Order #....: GK78W1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	9.1
Tetrachloroethene	ND	56	ug/kg	10
Toluene	ND	110	ug/kg	10
1,2,4-Trichloro- benzene	ND	280	ug/kg	13
1,1,1-Trichloroethane	ND	56	ug/kg	11
1,1,2-Trichloroethane	ND	56	ug/kg	11
Trichloroethene	25 J	56	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	9.2
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	280	ug/kg	11
Vinyl chloride	ND	110	ug/kg	18
Xylenes (total)	ND	170	ug/kg	17
SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
Dibromofluoromethane	74		(59 - 138)	
1,2-Dichloroethane-d4	81		(61 - 130)	
Toluene-d8	94		(60 - 143)	
4-Bromofluorobenzene	86		(47 - 158)	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-106

GC/MS Volatiles

Lot-Sample #....: A4G160169-007 Work Order #....: GK78X1AA Matrix.....: SO
 Date Sampled....: 07/15/04 08:35 Date Received...: 07/16/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 0.96 Initial Wgt/Vol: 26.1 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 3.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	750	ug/kg	98
Benzene	ND	50	ug/kg	6.4
Bromodichloromethane	ND	99	ug/kg	12
Bromoform	ND	99	ug/kg	13
Bromomethane	ND	250	ug/kg	25
2-Butanone	ND	750	ug/kg	49
Carbon disulfide	ND	250	ug/kg	20
Carbon tetrachloride	ND	50	ug/kg	12
Chlorobenzene	ND	50	ug/kg	6.3
Chloroethane	ND	250	ug/kg	65
Chloroform	ND	50	ug/kg	12
Chloromethane	ND	250	ug/kg	5.2
Cyclohexane	ND	1200	ug/kg	7.6
Dibromochloromethane	ND	50	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	250	ug/kg	60
1,2-Dibromoethane	ND	250	ug/kg	9.8
1,2-Dichlorobenzene	ND	99	ug/kg	17
1,3-Dichlorobenzene	ND	99	ug/kg	7.2
1,4-Dichlorobenzene	ND	99	ug/kg	7.8
Dichlorodifluoromethane	ND	99	ug/kg	5.4
1,1-Dichloroethane	ND	50	ug/kg	7.3
1,2-Dichloroethane	ND	50	ug/kg	9.2
1,1-Dichloroethene	ND	50	ug/kg	8.2
cis-1,2-Dichloroethene	ND	50	ug/kg	14
trans-1,2-Dichloroethene	ND	50	ug/kg	11
1,2-Dichloropropane	ND	50	ug/kg	7.4
cis-1,3-Dichloropropene	ND	50	ug/kg	5.5
trans-1,3-Dichloropropene	ND	50	ug/kg	5.4
Ethylbenzene	ND	50	ug/kg	6.8
2-Hexanone	ND	2500	ug/kg	24
Isopropylbenzene	ND	250	ug/kg	5.1
Methyl acetate	ND	1200	ug/kg	52
Methylene chloride	ND	250	ug/kg	98
Methylcyclohexane	ND	1200	ug/kg	5.7
4-Methyl-2-pentanone	ND	2500	ug/kg	11
Methyl tert-butyl ether	ND	250	ug/kg	9.9
Styrene	ND	50	ug/kg	28

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-106

GC/MS Volatiles

Lot-Sample #....: A4G160169-007 Work Order #....: GK78X1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	99	ug/kg	8.1
Tetrachloroethene	ND	50	ug/kg	8.9
Toluene	ND	99	ug/kg	9.0
1,2,4-Trichloro- benzene	ND	250	ug/kg	12
1,1,1-Trichloroethane	ND	50	ug/kg	9.4
1,1,2-Trichloroethane	ND	50	ug/kg	9.8
Trichloroethene	ND	50	ug/kg	12
Trichlorofluoromethane	ND	99	ug/kg	8.2
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	250	ug/kg	9.9
Vinyl chloride	ND	99	ug/kg	16
Xylenes (total)	ND	150	ug/kg	15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	71	(59 - 138)
1,2-Dichloroethane-d4	82	(61 - 130)
Toluene-d8	93	(60 - 143)
4-Bromofluorobenzene	85	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

COMESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-107

GC/MS Volatiles

Lot-Sample #....: A4G160169-008 Work Order #....: GK7811AA Matrix.....: SO
 Date Sampled....: 07/15/04 08:40 Date Received...: 07/16/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 1.09 Initial Wgt/Vol: 23 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.3 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	840	ug/kg	110
Benzene	ND	56	ug/kg	7.1
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	15
Bromomethane	ND	280	ug/kg	28
2-Butanone	ND	840	ug/kg	55
Carbon disulfide	ND	280	ug/kg	22
Carbon tetrachloride	ND	56	ug/kg	13
Chlorobenzene	ND	56	ug/kg	7.0
Chloroethane	ND	280	ug/kg	73
Chloroform	ND	56	ug/kg	13
Chloromethane	21 J,B	280	ug/kg	5.8
Cyclohexane	ND	1300	ug/kg	8.6
Dibromochloromethane	ND	56	ug/kg	7.7
1,2-Dibromo-3-chloro- propane	ND	280	ug/kg	67
1,2-Dibromoethane	ND	280	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	19
1,3-Dichlorobenzene	ND	110	ug/kg	8.0
1,4-Dichlorobenzene	ND	110	ug/kg	8.8
Dichlorodifluoromethane	ND	110	ug/kg	6.0
1,1-Dichloroethane	ND	56	ug/kg	8.1
1,2-Dichloroethane	ND	56	ug/kg	10
1,1-Dichloroethene	ND	56	ug/kg	9.3
cis-1,2-Dichloroethene	ND	56	ug/kg	16
trans-1,2-Dichloroethene	ND	56	ug/kg	12
1,2-Dichloropropane	ND	56	ug/kg	8.3
cis-1,3-Dichloropropene	ND	56	ug/kg	6.1
trans-1,3-Dichloropropene	ND	56	ug/kg	6.0
Ethylbenzene	ND	56	ug/kg	7.6
2-Hexanone	ND	2800	ug/kg	27
Isopropylbenzene	ND	280	ug/kg	5.7
Methyl acetate	ND	1300	ug/kg	58
Methylene chloride	ND	280	ug/kg	110
Methylcyclohexane	ND	1300	ug/kg	6.4
4-Methyl-2-pentanone	ND	2800	ug/kg	12
Methyl tert-butyl ether	ND	280	ug/kg	11
Styrene	ND	56	ug/kg	31

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-107

GC/MS Volatiles

Lot-Sample #....: A4G160169-008 Work Order #....: GK7811AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	9.1
Tetrachloroethene	ND	56	ug/kg	10
Toluene	ND	110	ug/kg	10
1,2,4-Trichloro- benzene	ND	280	ug/kg	13
1,1,1-Trichloroethane	ND	56	ug/kg	11
1,1,2-Trichloroethane	ND	56	ug/kg	11
Trichloroethene	20 J	56	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	9.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	280	ug/kg	11
Vinyl chloride	ND	110	ug/kg	18
Xylenes (total)	ND	170	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	68	(59 - 138)
1,2-Dichloroethane-d4	80	(61 - 130)
Toluene-d8	93	(60 - 143)
4-Bromofluorobenzene	84	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-108

GC/MS Volatiles

Lot-Sample #....: A4G160169-009 Work Order #....: GK7831AA Matrix.....: SO
 Date Sampled....: 07/15/04 08:45 Date Received...: 07/16/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 1.07 Initial Wgt/Vol: 23.4 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 2.6 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	820	ug/kg	11.0
Benzene	ND	55	ug/kg	7.0
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	14
Bromomethane	ND	270	ug/kg	27
2-Butanone	ND	820	ug/kg	54
Carbon disulfide	ND	270	ug/kg	22
Carbon tetrachloride	ND	55	ug/kg	13
Chlorobenzene	ND	55	ug/kg	6.9
Chloroethane	ND	270	ug/kg	71
Chloroform	ND	55	ug/kg	13
Chloromethane	ND	270	ug/kg	5.7
Cyclohexane	ND	1300	ug/kg	8.5
Dibromochloromethane	ND	55	ug/kg	7.6
1,2-Dibromo-3-chloro- propane	ND	270	ug/kg	66
1,2-Dibromoethane	ND	270	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	19
1,3-Dichlorobenzene	ND	110	ug/kg	7.9
1,4-Dichlorobenzene	ND	110	ug/kg	8.7
Dichlorodifluoromethane	ND	110	ug/kg	5.9
1,1-Dichloroethane	ND	55	ug/kg	8.0
1,2-Dichloroethane	ND	55	ug/kg	10
1,1-Dichloroethene	ND	55	ug/kg	9.1
cis-1,2-Dichloroethene	ND	55	ug/kg	15
trans-1,2-Dichloroethene	ND	55	ug/kg	12
1,2-Dichloropropane	ND	55	ug/kg	8.1
cis-1,3-Dichloropropene	ND	55	ug/kg	6.0
trans-1,3-Dichloropropene	ND	55	ug/kg	5.9
Ethylbenzene	ND	55	ug/kg	7.5
2-Hexanone	ND	2700	ug/kg	26
Isopropylbenzene	ND	270	ug/kg	5.6
Methyl acetate	ND	1300	ug/kg	57
Methylene chloride	ND	270	ug/kg	110
Methylcyclohexane	ND	1300	ug/kg	6.3
4-Methyl-2-pentanone	ND	2700	ug/kg	12
Methyl tert-butyl ether	ND	270	ug/kg	11
Styrene	ND	55	ug/kg	31

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-108

GC/MS Volatiles

Lot-Sample #....: A4G160169-009 Work Order #....: GK7831AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	9.0
Tetrachloroethene	ND	55	ug/kg	9.9
Toluene	ND	110	ug/kg	10
1,2,4-Trichloro- benzene	ND	270	ug/kg	13
1,1,1-Trichloroethane	ND	55	ug/kg	10
1,1,2-Trichloroethane	ND	55	ug/kg	11
Trichloroethene	25 J	55	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	9.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	270	ug/kg	11
Vinyl chloride	ND	110	ug/kg	18
Xylenes (total)	ND	160	ug/kg	16

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	71	(59 - 138)
1,2-Dichloroethane-d4	83	(61 - 130)
Toluene-d8	97	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-109

GC/MS Volatiles

Lot-Sample #....: A4G160169-010 Work Order #....: GK7841AA Matrix.....: SO
 Date Sampled....: 07/15/04 08:55 Date Received...: 07/16/04
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 1.2 Initial Wgt/Vol: 20.9 g Final Wgt/Vol...: 25 mL
 % Moisture.....: 3.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	930	ug/kg	120
Benzene	ND	62	ug/kg	7.9
Bromodichloromethane	ND	120	ug/kg	15
Bromoform	ND	120	ug/kg	16
Bromomethane	ND	310	ug/kg	31
2-Butanone	ND	930	ug/kg	61
Carbon disulfide	ND	310	ug/kg	25
Carbon tetrachloride	ND	62	ug/kg	15
Chlorobenzene	ND	62	ug/kg	7.8
Chloroethane	ND	310	ug/kg	80
Chloroform	ND	62	ug/kg	15
Chloromethane	ND	310	ug/kg	6.4
Cyclohexane	ND	1500	ug/kg	9.5
Dibromochloromethane	ND	62	ug/kg	8.5
1,2-Dibromo-3-chloro- propane	ND	310	ug/kg	74
1,2-Dibromoethane	ND	310	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	21
1,3-Dichlorobenzene	ND	120	ug/kg	8.9
1,4-Dichlorobenzene	ND	120	ug/kg	9.8
Dichlorodifluoromethane	ND	120	ug/kg	6.7
1,1-Dichloroethane	ND	62	ug/kg	9.0
1,2-Dichloroethane	ND	62	ug/kg	12
1,1-Dichloroethene	ND	62	ug/kg	10
cis-1,2-Dichloroethene	ND	62	ug/kg	17
trans-1,2-Dichloroethene	ND	62	ug/kg	14
1,2-Dichloropropane	ND	62	ug/kg	9.2
cis-1,3-Dichloropropene	ND	62	ug/kg	6.8
trans-1,3-Dichloropropene	ND	62	ug/kg	6.7
Ethylbenzene	ND	62	ug/kg	8.4
2-Hexanone	ND	3100	ug/kg	30
Isopropylbenzene	ND	310	ug/kg	6.3
Methyl acetate	ND	1500	ug/kg	64
Methylene chloride	ND	310	ug/kg	120
Methylcyclohexane	ND	1500	ug/kg	7.1
4-Methyl-2-pentanone	ND	3100	ug/kg	14
Methyl tert-butyl ether	ND	310	ug/kg	12
Styrene	ND	62	ug/kg	35

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-109

GC/MS Volatiles

Lot-Sample #....: A4G160169-010 Work Order #....: GK7841AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	10
Tetrachloroethene	ND	62	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	310	ug/kg	15
1,1,1-Trichloroethane	ND	62	ug/kg	12
1,1,2-Trichloroethane	ND	62	ug/kg	12
Trichloroethene	ND	62	ug/kg	15
Trichlorofluoromethane	ND	120	ug/kg	10
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	310	ug/kg	12
Vinyl chloride	ND	120	ug/kg	20
Xylenes (total)	ND	190	ug/kg	19
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	67	(59 - 138)		
1,2-Dichloroethane-d4	81	(61 - 130)		
Toluene-d8	94	(60 - 143)		
4-Bromofluorobenzene	86	(47 - 158)		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: 8-17360-071504-DCR-110

GC/MS Volatiles

Lot-Sample #....: A4G160169-011 Work Order #....: GK7861AA Matrix.....: 80
 Date Sampled....: 07/15/04 09:00 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4203401
 Dilution Factor: 1.32 Initial Wgt/Vol: 3.8 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 7.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1100	ug/kg	140
Benzene	ND	71	ug/kg	9.1
Bromodichloromethane	ND	140	ug/kg	17
Bromoform	ND	140	ug/kg	18
Bromomethane	ND	350	ug/kg	35
2-Butanone	ND	1100	ug/kg	70
Carbon disulfide	ND	350	ug/kg	28
Carbon tetrachloride	ND	71	ug/kg	17
Chlorobenzene	ND	71	ug/kg	8.9
Chloroethane	ND	350	ug/kg	92
Chloroform	ND	71	ug/kg	17
Chloromethane	ND	350	ug/kg	7.4
Cyclohexane	ND	1700	ug/kg	11
Dibromochloromethane	ND	71	ug/kg	9.8
1,2-Dibromo-3-chloro- propane	ND	350	ug/kg	85
1,2-Dibromoethane	ND	350	ug/kg	14
1,2-Dichlorobenzene	ND	140	ug/kg	24
1,3-Dichlorobenzene	ND	140	ug/kg	10
1,4-Dichlorobenzene	ND	140	ug/kg	11
Dichlorodifluoromethane	ND	140	ug/kg	7.7
1,1-Dichloroethane	ND	71	ug/kg	10
1,2-Dichloroethane	ND	71	ug/kg	13
1,1-Dichloroethene	ND	71	ug/kg	12
cis-1,2-Dichloroethene	ND	71	ug/kg	20
trans-1,2-Dichloroethene	ND	71	ug/kg	16
1,2-Dichloropropane	ND	71	ug/kg	11
cis-1,3-Dichloropropene	ND	71	ug/kg	7.8
trans-1,3-Dichloropropene	ND	71	ug/kg	7.7
Ethylbenzene	ND	71	ug/kg	9.7
2-Hexanone	ND	3500	ug/kg	34
Isopropylbenzene	ND	350	ug/kg	7.2
Methyl acetate	ND	1700	ug/kg	74
Methylene chloride	ND	350	ug/kg	140
Methylcyclohexane	ND	1700	ug/kg	8.1
4-Methyl-2-pentanone	ND	3500	ug/kg	16
Methyl tert-butyl ether	ND	350	ug/kg	14
Styrene	ND	71	ug/kg	40

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-110

GC/MS Volatiles

Lot-Sample #....: A4G160169-011 Work Order #....: GK7861AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	140	ug/kg	12
Tetrachloroethene	ND	71	ug/kg	13
Toluene	ND	140	ug/kg	13
1,2,4-Trichloro- benzene	ND	350	ug/kg	17
1,1,1-Trichloroethane	ND	71	ug/kg	13
1,1,2-Trichloroethane	ND	71	ug/kg	14
Trichloroethene	ND	71	ug/kg	17
Trichlorofluoromethane	ND	140	ug/kg	12
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	350	ug/kg	14
Vinyl chloride	ND	140	ug/kg	23
Xylenes (total)	ND	210	ug/kg	21

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	81	(59 - 138)
1,2-Dichloroethane-d4	82	(61 - 130)
Toluene-d8	98	(60 - 143)
4-Bromofluorobenzene	89	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: 8-17360-071504-DCR-111

GC/MS Volatiles

Lot-Sample #....: A4G160169-012 Work Order #....: GK7881AA Matrix.....: SO
 Date Sampled....: 07/15/04 10:50 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4203401
 Dilution Factor: 1.25 Initial Wgt/Vol: 4 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 5.7 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	990	ug/kg	130
Benzene	ND	66	ug/kg	8.5
Bromodichloromethane	ND	130	ug/kg	16
Bromoform	ND	130	ug/kg	17
Bromomethane	ND	330	ug/kg	33
2-Butanone	ND	990	ug/kg	65
Carbon disulfide	ND	330	ug/kg	27
Carbon tetrachloride	ND	66	ug/kg	16
Chlorobenzene	ND	66	ug/kg	8.3
Chloroethane	ND	330	ug/kg	86
Chloroform	ND	66	ug/kg	16
Chloromethane	ND	330	ug/kg	6.9
Cyclohexane	ND	1600	ug/kg	10
Dibromochloromethane	ND	66	ug/kg	9.1
1,2-Dibromo-3-chloro- propane	ND	330	ug/kg	80
1,2-Dibromoethane	ND	330	ug/kg	13
1,2-Dichlorobenzene	ND	130	ug/kg	23
1,3-Dichlorobenzene	ND	130	ug/kg	9.5
1,4-Dichlorobenzene	ND	130	ug/kg	10
Dichlorodifluoromethane	ND	130	ug/kg	7.2
1,1-Dichloroethane	ND	66	ug/kg	9.7
1,2-Dichloroethane	ND	66	ug/kg	12
1,1-Dichloroethene	ND	66	ug/kg	11
cis-1,2-Dichloroethene	ND	66	ug/kg	19
trans-1,2-Dichloroethene	ND	66	ug/kg	15
1,2-Dichloropropane	ND	66	ug/kg	9.8
cis-1,3-Dichloropropene	ND	66	ug/kg	7.3
trans-1,3-Dichloropropene	ND	66	ug/kg	7.2
Ethylbenzene	ND	66	ug/kg	9.0
2-Hexanone	ND	3300	ug/kg	32
Isopropylbenzene	ND	330	ug/kg	6.8
Methyl acetate	ND	1600	ug/kg	69
Methylene chloride	ND	330	ug/kg	130
Methylcyclohexane	ND	1600	ug/kg	7.6
4-Methyl-2-pentanone	ND	3300	ug/kg	15
Methyl tert-butyl ether	ND	330	ug/kg	13
Styrene	ND	66	ug/kg	37

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-111

GC/MS Volatiles

Lot-Sample #....: A4G160169-012 Work Order #....: GK7881AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	130	ug/kg	11
Tetrachloroethene	ND	66	ug/kg	12
Toluene	ND	130	ug/kg	12
1,2,4-Trichloro- benzene	ND	330	ug/kg	16
1,1,1-Trichloroethane	ND	66	ug/kg	13
1,1,2-Trichloroethane	ND	66	ug/kg	13
Trichloroethene	190	66	ug/kg	16
Trichlorofluoromethane	ND	130	ug/kg	11
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	330	ug/kg	13
Vinyl chloride	ND	130	ug/kg	21
Xylenes (total)	ND	200	ug/kg	20
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	79	(59 - 138)		
1,2-Dichloroethane-d4	86	(61 - 130)		
Toluene-d8	100	(60 - 143)		
4-Bromofluorobenzene	93	(47 - 158)		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-112

GC/MS Volatiles

Lot-Sample #....: A4G160169-013 Work Order #....: GK7891AA Matrix.....: SO
 Date Sampled....: 07/15/04 10:55 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4203401
 Dilution Factor: 1.47 Initial Wgt/Vol: 3.4 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 3.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1100	ug/kg	150
Benzene	ND	76	ug/kg	9.7
Bromodichloromethane	ND	150	ug/kg	18
Bromoform	ND	150	ug/kg	20
Bromomethane	ND	380	ug/kg	38
2-Butanone	ND	1100	ug/kg	74
Carbon disulfide	ND	380	ug/kg	30
Carbon tetrachloride	ND	76	ug/kg	18
Chlorobenzene	ND	76	ug/kg	9.6
Chloroethane	ND	380	ug/kg	99
Chloroform	ND	76	ug/kg	18
Chloromethane	27 J	380	ug/kg	7.9
Cyclohexane	ND	1800	ug/kg	12
Dibromochloromethane	ND	76	ug/kg	10
1,2-Dibromo-3-chloro- propane	ND	380	ug/kg	91
1,2-Dibromoethane	ND	380	ug/kg	15
1,2-Dichlorobenzene	ND	150	ug/kg	26
1,3-Dichlorobenzene	ND	150	ug/kg	11
1,4-Dichlorobenzene	ND	150	ug/kg	12
Dichlorodifluoromethane	ND	150	ug/kg	8.2
1,1-Dichloroethane	ND	76	ug/kg	11
1,2-Dichloroethane	ND	76	ug/kg	14
1,1-Dichloroethene	ND	76	ug/kg	13
cis-1,2-Dichloroethene	ND	76	ug/kg	21
trans-1,2-Dichloroethene	ND	76	ug/kg	17
1,2-Dichloropropane	ND	76	ug/kg	11
cis-1,3-Dichloropropene	ND	76	ug/kg	8.3
trans-1,3-Dichloropropene	ND	76	ug/kg	8.2
Ethylbenzene	ND	76	ug/kg	10
2-Hexanone	ND	3800	ug/kg	36
Isopropylbenzene	ND	380	ug/kg	7.7
Methyl acetate	ND	1800	ug/kg	79
Methylene chloride	ND	380	ug/kg	150
Methylcyclohexane	ND	1800	ug/kg	8.7
4-Methyl-2-pentanone	ND	3800	ug/kg	17
Methyl tert-butyl ether	ND	380	ug/kg	15
Styrene	ND	76	ug/kg	43

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-112

GC/MS Volatiles

Lot-Sample #....: A4G160169-013 Work Order #....: GK7891AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	150	ug/kg	12
Tetrachloroethene	ND	76	ug/kg	14
Toluene	ND	150	ug/kg	14
1,2,4-Trichloro- benzene	ND	380	ug/kg	18
1,1,1-Trichloroethane	ND	76	ug/kg	14
1,1,2-Trichloroethane	ND	76	ug/kg	15
Trichloroethene	ND	76	ug/kg	18
Trichlorofluoromethane	ND	150	ug/kg	13
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	380	ug/kg	15
Vinyl chloride	ND	150	ug/kg	24
Xylenes (total)	ND	230	ug/kg	23

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	82	(59 - 138)
1,2-Dichloroethane-d4	88	(61 - 130)
Toluene-d8	104	(60 - 143)
4-Bromofluorobenzene	93	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: 8-17360-071504-DCR-113

GC/MS Volatiles

Lot-Sample #....: A4G160169-014 Work Order #....: GK79C1AA Matrix.....: SO
 Date Sampled....: 07/15/04 11:00 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4203401
 Dilution Factor: 1.61 Initial Wgt/Vol: 3.1 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 1.7 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1200	ug/kg	160
Benzene	ND	82	ug/kg	10
Bromodichloromethane	ND	160	ug/kg	20
Bromoform	ND	160	ug/kg	21
Bromomethane	ND	410	ug/kg	41
2-Butanone	ND	1200	ug/kg	80
Carbon disulfide	ND	410	ug/kg	33
Carbon tetrachloride	ND	82	ug/kg	20
Chlorobenzene	ND	82	ug/kg	10
Chloroethane	ND	410	ug/kg	110
Chloroform	ND	82	ug/kg	20
Chloromethane	ND	410	ug/kg	8.5
Cyclohexane	ND	2000	ug/kg	13
Dibromochloromethane	ND	82	ug/kg	11
1,2-Dibromo-3-chloro- propane	ND	410	ug/kg	98
1,2-Dibromoethane	ND	410	ug/kg	16
1,2-Dichlorobenzene	ND	160	ug/kg	28
1,3-Dichlorobenzene	ND	160	ug/kg	12
1,4-Dichlorobenzene	ND	160	ug/kg	13
Dichlorodifluoromethane	ND	160	ug/kg	8.8
1,1-Dichloroethane	ND	82	ug/kg	12
1,2-Dichloroethane	ND	82	ug/kg	15
1,1-Dichloroethene	ND	82	ug/kg	14
cis-1,2-Dichloroethene	ND	82	ug/kg	23
trans-1,2-Dichloroethene	ND	82	ug/kg	18
1,2-Dichloropropane	ND	82	ug/kg	12
cis-1,3-Dichloropropene	ND	82	ug/kg	9.0
trans-1,3-Dichloropropene	ND	82	ug/kg	8.8
Ethylbenzene	ND	82	ug/kg	11
2-Hexanone	ND	4100	ug/kg	39
Isopropylbenzene	ND	410	ug/kg	8.4
Methyl acetate	ND	2000	ug/kg	85
Methylene chloride	ND	410	ug/kg	160
Methylcyclohexane	ND	2000	ug/kg	9.3
4-Methyl-2-pentanone	ND	4100	ug/kg	18
Methyl tert-butyl ether	ND	410	ug/kg	16
Styrene	ND	82	ug/kg	46

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: 8-17360-071504-DCR-113

GC/MS Volatiles

Lot-Sample #....: A4G160169-014 Work Order #....: GK79C1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	160	ug/kg	13
Tetrachloroethene	ND	82	ug/kg	15
Toluene	ND	160	ug/kg	15
1,2,4-Trichloro- benzene	ND	410	ug/kg	20
1,1,1-Trichloroethane	ND	82	ug/kg	16
1,1,2-Trichloroethane	ND	82	ug/kg	16
Trichloroethene	ND	82	ug/kg	20
Trichlorofluoromethane	ND	160	ug/kg	14
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	410	ug/kg	16
Vinyl chloride	ND	160	ug/kg	26
Xylenes (total)	ND	250	ug/kg	25

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(59 - 138)
1,2-Dichloroethane-d4	89	(61 - 130)
Toluene-d8	107	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-114

GC/MS Volatiles

Lot-Sample #....: A4G160169-015 Work Order #....: GK79D1AA Matrix.....: SO
 Date Sampled....: 07/15/04 11:05 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4203401
 Dilution Factor: 1.16 Initial Wgt/Vol: 4.3 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 1.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	890	ug/kg	120
Benzene	ND	59	ug/kg	7.6
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	300	ug/kg	30
2-Butanone	ND	890	ug/kg	58
Carbon disulfide	ND	300	ug/kg	24
Carbon tetrachloride	ND	59	ug/kg	14
Chlorobenzene	ND	59	ug/kg	7.4
Chloroethane	ND	300	ug/kg	77
Chloroform	ND	59	ug/kg	14
Chloromethane	ND	300	ug/kg	6.1
Cyclohexane	ND	1400	ug/kg	9.1
Dibromochloromethane	ND	59	ug/kg	8.2
1,2-Dibromo-3-chloro- propane	ND	300	ug/kg	71
1,2-Dibromoethane	ND	300	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.5
1,4-Dichlorobenzene	ND	120	ug/kg	9.3
Dichlorodifluoromethane	ND	120	ug/kg	6.4
1,1-Dichloroethane	ND	59	ug/kg	8.6
1,2-Dichloroethane	ND	59	ug/kg	11
1,1-Dichloroethene	ND	59	ug/kg	9.8
cis-1,2-Dichloroethene	ND	59	ug/kg	17
trans-1,2-Dichloroethene	ND	59	ug/kg	13
1,2-Dichloropropane	ND	59	ug/kg	8.7
cis-1,3-Dichloropropene	ND	59	ug/kg	6.5
trans-1,3-Dichloropropene	ND	59	ug/kg	6.4
Ethylbenzene	ND	59	ug/kg	8.0
2-Hexanone	ND	3000	ug/kg	28
Isopropylbenzene	ND	300	ug/kg	6.0
Methyl acetate	ND	1400	ug/kg	61
Methylene chloride	ND	300	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.7
4-Methyl-2-pentanone	ND	3000	ug/kg	13
Methyl tert-butyl ether	ND	300	ug/kg	12
Styrene	ND	59	ug/kg	33

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-114

GC/MS Volatiles

Lot-Sample #....: A4G160169-015 Work Order #....: GK79D1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.7
Tetrachloroethene	ND	59	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	300	ug/kg	14
1,1,1-Trichloroethane	ND	59	ug/kg	11
1,1,2-Trichloroethane	ND	59	ug/kg	12
Trichloroethene	ND	59	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	300	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	82	(59 - 138)		
1,2-Dichloroethane-d4	92	(61 - 130)		
Toluene-d8	106	(60 - 143)		
4-Bromofluorobenzene	97	(47 - 158)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: 8-17360-071504-DCR-115

GC/MS Volatiles

Lot-Sample #....: A4G160169-016 Work Order #....: GK79H1AA Matrix.....: 80
 Date Sampled....: 07/15/04 11:10 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4203401
 Dilution Factor: 1.14 Initial Wgt/Vol: 4.4 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 2.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	880	ug/kg	120
Benzene	ND	59	ug/kg	7.5
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	880	ug/kg	58
Carbon disulfide	ND	290	ug/kg	23
Carbon tetrachloride	ND	59	ug/kg	14
Chlorobenzene	ND	59	ug/kg	7.4
Chloroethane	ND	290	ug/kg	76
Chloroform	ND	59	ug/kg	14
Chloromethane	ND	290	ug/kg	6.1
Cyclohexane	ND	1400	ug/kg	9.0
Dibromochloromethane	ND	59	ug/kg	8.1
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	70
1,2-Dibromoethane	ND	290	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.4
1,4-Dichlorobenzene	ND	120	ug/kg	9.3
Dichlorodifluoromethane	ND	120	ug/kg	6.3
1,1-Dichloroethane	ND	59	ug/kg	8.6
1,2-Dichloroethane	ND	59	ug/kg	11
1,1-Dichloroethene	ND	59	ug/kg	9.7
cis-1,2-Dichloroethene	ND	59	ug/kg	16
trans-1,2-Dichloroethene	ND	59	ug/kg	13
1,2-Dichloropropane	ND	59	ug/kg	8.7
cis-1,3-Dichloropropene	ND	59	ug/kg	6.5
trans-1,3-Dichloropropene	ND	59	ug/kg	6.3
Ethylbenzene	ND	59	ug/kg	8.0
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	6.0
Methyl acetate	ND	1400	ug/kg	61
Methylene chloride	ND	290	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.7
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	12
Styrene	ND	59	ug/kg	33

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: 8-17360-071504-DCR-115

GC/MS Volatiles

Lot-Sample #....: A4G160169-016 Work Order #....: GK79H1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.6
Tetrachloroethene	ND	59	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	59	ug/kg	11
1,1,2-Trichloroethane	ND	59	ug/kg	12
Trichloroethene	ND	59	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(59 - 138)
1,2-Dichloroethane-d4	94	(61 - 130)
Toluene-d8	107	(60 - 143)
4-Bromofluorobenzene	95	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: 8-17360-071504-DCR-116

GC/MS Volatiles

Lot-Sample #....: A4G160169-017 Work Order #....: GK79J1AA Matrix.....: SO
 Date Sampled....: 07/15/04 11:20 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4203401
 Dilution Factor: 1.25 Initial Wgt/Vol: 4 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 4.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	980	ug/kg	130
Benzene	ND	66	ug/kg	8.4
Bromodichloromethane	ND	130	ug/kg	16
Bromoform	ND	130	ug/kg	17
Bromomethane	ND	330	ug/kg	33
2-Butanone	ND	980	ug/kg	64
Carbon disulfide	ND	330	ug/kg	26
Carbon tetrachloride	ND	66	ug/kg	16
Chlorobenzene	ND	66	ug/kg	8.3
Chloroethane	ND	330	ug/kg	85
Chloroform	ND	66	ug/kg	16
Chloromethane	21 J	330	ug/kg	6.8
Cyclohexane	ND	1600	ug/kg	10
Dibromochloromethane	ND	66	ug/kg	9.1
1,2-Dibromo-3-chloro- propane	ND	330	ug/kg	79
1,2-Dibromoethane	ND	330	ug/kg	13
1,2-Dichlorobenzene	ND	130	ug/kg	22
1,3-Dichlorobenzene	ND	130	ug/kg	9.5
1,4-Dichlorobenzene	ND	130	ug/kg	10
Dichlorodifluoromethane	ND	130	ug/kg	7.1
1,1-Dichloroethane	ND	66	ug/kg	9.6
1,2-Dichloroethane	ND	66	ug/kg	12
1,1-Dichloroethene	ND	66	ug/kg	11
cis-1,2-Dichloroethane	ND	66	ug/kg	18
trans-1,2-Dichloroethene	ND	66	ug/kg	14
1,2-Dichloropropane	ND	66	ug/kg	9.7
cis-1,3-Dichloropropene	ND	66	ug/kg	7.2
trans-1,3-Dichloropropene	ND	66	ug/kg	7.1
Ethylbenzene	ND	66	ug/kg	8.9
2-Hexanone	ND	3300	ug/kg	32
Isopropylbenzene	ND	330	ug/kg	6.7
Methyl acetate	ND	1600	ug/kg	68
Methylene chloride	ND	330	ug/kg	130
Methylcyclohexane	ND	1600	ug/kg	7.5
4-Methyl-2-pentanone	ND	3300	ug/kg	14
Methyl tert-butyl ether	ND	330	ug/kg	13
Styrene	ND	66	ug/kg	37

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-116

GC/MS Volatiles

Lot-Sample #....: A4G160169-017 Work Order #....: GK79J1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	130	ug/kg	11
Tetrachloroethene	ND	66	ug/kg	12
Toluene	ND	130	ug/kg	12
1,2,4-Trichloro- benzene	ND	330	ug/kg	16
1,1,1-Trichloroethane	ND	66	ug/kg	12
1,1,2-Trichloroethane	ND	66	ug/kg	13
Trichloroethene	ND	66	ug/kg	16
Trichlorofluoromethane	ND	130	ug/kg	11
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	330	ug/kg	13
Vinyl chloride	ND	130	ug/kg	21
Xylenes (total)	ND	200	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	81	(59 - 138)
1,2-Dichloroethane-d4	88	(61 - 130)
Toluene-d8	103	(60 - 143)
4-Bromofluorobenzene	93	(47 - 158)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-117

GC/MS Volatiles

Lot-Sample #....: A4G160169-018 Work Order #....: GK79K1AA Matrix.....: 80
 Date Sampled....: 07/15/04 11:25 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4203401
 Dilution Factor: 1.09 Initial Wgt/Vol: 4.6 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 3.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	850	ug/kg	110
Benzene	ND	57	ug/kg	7.3
Bromodichloromethane	ND	110	ug/kg	14
Bromoform	ND	110	ug/kg	15
Bromomethane	ND	280	ug/kg	28
2-Butanone	ND	850	ug/kg	56
Carbon disulfide	ND	280	ug/kg	23
Carbon tetrachloride	ND	57	ug/kg	14
Chlorobenzene	ND	57	ug/kg	7.1
Chloroethane	ND	280	ug/kg	74
Chloroform	ND	57	ug/kg	14
Chloromethane	18 J	280	ug/kg	5.9
Cyclohexane	ND	1400	ug/kg	8.7
Dibromochloromethane	ND	57	ug/kg	7.8
1,2-Dibromo-3-chloro- propane	ND	280	ug/kg	68
1,2-Dibromoethane	ND	280	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	19
1,3-Dichlorobenzene	ND	110	ug/kg	8.2
1,4-Dichlorobenzene	ND	110	ug/kg	9.0
Dichlorodifluoromethane	ND	110	ug/kg	6.1
1,1-Dichloroethane	ND	57	ug/kg	8.3
1,2-Dichloroethane	ND	57	ug/kg	11
1,1-Dichloroethene	ND	57	ug/kg	9.4
cis-1,2-Dichloroethene	ND	57	ug/kg	16
trans-1,2-Dichloroethene	ND	57	ug/kg	12
1,2-Dichloropropane	ND	57	ug/kg	8.4
cis-1,3-Dichloropropene	ND	57	ug/kg	6.2
trans-1,3-Dichloropropene	ND	57	ug/kg	6.1
Ethylbenzene	ND	57	ug/kg	7.7
2-Hexanone	ND	2800	ug/kg	27
Isopropylbenzene	ND	280	ug/kg	5.8
Methyl acetate	ND	1400	ug/kg	59
Methylene chloride	ND	280	ug/kg	110
Methylcyclohexane	ND	1400	ug/kg	6.5
4-Methyl-2-pentanone	ND	2800	ug/kg	12
Methyl tert-butyl ether	ND	280	ug/kg	11
Styrene	ND	57	ug/kg	32

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: 8-17360-071504-DCR-117

GC/MS Volatiles

Lot-Sample #....: A4G160169-018 Work Order #....: GK79K1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	9.3
Tetrachloroethene	ND	57	ug/kg	10
Toluene	ND	110	ug/kg	10
1,2,4-Trichloro- benzene	ND	280	ug/kg	14
1,1,1-Trichloroethane	ND	57	ug/kg	11
1,1,2-Trichloroethane	ND	57	ug/kg	11
Trichloroethene	ND	57	ug/kg	14
Trichlorofluoromethane	ND	110	ug/kg	9.4
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	280	ug/kg	11
Vinyl chloride	ND	110	ug/kg	18
Xylenes (total)	ND	170	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	77	(59 - 138)
1,2-Dichloroethane-d4	86	(61 - 130)
Toluene-d8	100	(60 - 143)
4-Bromofluorobenzene	92	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-118

GC/MS Volatiles

Lot-Sample #....: A4G160169-019 Work Order #....: GK79M1AA
 Date Sampled....: 07/15/04 11:30 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4203401
 Dilution Factor: 1.19
 % Moisture.....: 2.8

Matrix.....: SO

Initial Wgt/Vol: 4.2 g
 Method.....: SW846 8260B

Final Wgt/Vol...: 5 mL

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	920	ug/kg	120
Benzene	ND	61	ug/kg	7.8
Bromodichloromethane	ND	120	ug/kg	15
Bromoform	ND	120	ug/kg	16
Bromomethane	ND	310	ug/kg	31
2-Butanone	ND	920	ug/kg	60
Carbon disulfide	ND	310	ug/kg	24
Carbon tetrachloride	ND	61	ug/kg	15
Chlorobenzene	ND	61	ug/kg	7.7
Chloroethane	ND	310	ug/kg	80
Chloroform	ND	61	ug/kg	15
Chloromethane	ND	310	ug/kg	6.4
Cyclohexane	ND	1500	ug/kg	9.4
Dibromochloromethane	ND	61	ug/kg	8.4
1,2-Dibromo-3-chloro- propane	ND	310	ug/kg	73
1,2-Dibromoethane	ND	310	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	21
1,3-Dichlorobenzene	ND	120	ug/kg	8.8
1,4-Dichlorobenzene	ND	120	ug/kg	9.7
Dichlorodifluoromethane	ND	120	ug/kg	6.6
1,1-Dichloroethane	ND	61	ug/kg	8.9
1,2-Dichloroethane	ND	61	ug/kg	11
1,1-Dichloroethene	ND	61	ug/kg	10
cis-1,2-Dichloroethene	ND	61	ug/kg	17
trans-1,2-Dichloroethene	ND	61	ug/kg	13
1,2-Dichloropropane	ND	61	ug/kg	9.1
cis-1,3-Dichloropropene	ND	61	ug/kg	6.7
trans-1,3-Dichloropropene	ND	61	ug/kg	6.6
Ethylbenzene	ND	61	ug/kg	8.3
2-Hexanone	ND	3100	ug/kg	29
Isopropylbenzene	ND	310	ug/kg	6.2
Methyl acetate	ND	1500	ug/kg	64
Methylene chloride	ND	310	ug/kg	120
Methylcyclohexane	ND	1500	ug/kg	7.0
4-Methyl-2-pentanone	ND	3100	ug/kg	13
Methyl tert-butyl ether	ND	310	ug/kg	12
Styrene	ND	61	ug/kg	34

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-118

GC/MS Volatiles

Lot-Sample #....: A4G160169-019 Work Order #....: GK79M1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	10
Tetrachloroethene	ND	61	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	310	ug/kg	15
1,1,1-Trichloroethane	ND	61	ug/kg	12
1,1,2-Trichloroethane	ND	61	ug/kg	12
Trichloroethene	41 J	61	ug/kg	15
Trichlorofluoromethane	ND	120	ug/kg	10
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	310	ug/kg	12
Vinyl chloride	ND	120	ug/kg	20
Xylenes (total)	ND	180	ug/kg	18

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	79	(59 - 138)
1,2-Dichloroethane-d4	87	(61 - 130)
Toluene-d8	102	(60 - 143)
4-Bromofluorobenzene	93	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-119

GC/MS Volatiles

Lot-Sample #....: A4G160169-020 Work Order #....: GK79P1AA Matrix.....: SO
 Date Sampled....: 07/15/04 11:40 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4203401
 Dilution Factor: 1.16 Initial Wgt/Vol: 4.3 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 1.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	880	ug/kg	120
Benzene	ND	59	ug/kg	7.5
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	880	ug/kg	58
Carbon disulfide	ND	290	ug/kg	24
Carbon tetrachloride	ND	59	ug/kg	14
Chlorobenzene	ND	59	ug/kg	7.4
Chloroethane	ND	290	ug/kg	77
Chloroform	ND	59	ug/kg	14
Chloromethane	ND	290	ug/kg	6.1
Cyclohexane	ND	1400	ug/kg	9.1
Dibromochloromethane	ND	59	ug/kg	8.1
1,2-Dibromo-3-chloro-propane	ND	290	ug/kg	71
1,2-Dibromoethane	ND	290	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.5
1,4-Dichlorobenzene	ND	120	ug/kg	9.3
Dichlorodifluoromethane	ND	120	ug/kg	6.4
1,1-Dichloroethane	ND	59	ug/kg	8.6
1,2-Dichloroethane	ND	59	ug/kg	11
1,1-Dichloroethene	ND	59	ug/kg	9.8
cis-1,2-Dichloroethene	ND	59	ug/kg	16
trans-1,2-Dichloroethene	ND	59	ug/kg	13
1,2-Dichloropropane	ND	59	ug/kg	8.7
cis-1,3-Dichloropropene	ND	59	ug/kg	6.5
trans-1,3-Dichloropropene	ND	59	ug/kg	6.4
Ethylbenzene	ND	59	ug/kg	8.0
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	6.0
Methyl acetate	ND	1400	ug/kg	61
Methylene chloride	ND	290	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.7
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	12
Styrene	ND	59	ug/kg	33

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-119

GC/MS Volatiles

Lot-Sample #...: A4G160169-020 Work Order #...: GK79P1AA Matrix.....: 80

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.7
Tetrachloroethene	ND	59	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	59	ug/kg	11
1,1,2-Trichloroethane	ND	59	ug/kg	12
Trichloroethene	ND	59	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	77	(59 - 138)
1,2-Dichloroethane-d4	89	(61 - 130)
Toluene-d8	102	(60 - 143)
4-Bromofluorobenzene	94	(47 - 158)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: 8-17360-071504-DCR-120

GC/MS Volatiles

Lot-Sample #....: A4G160169-021 Work Order #....: GK79T1AA Matrix.....: SO
 Date Sampled....: 07/15/04 11:50 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4203401
 Dilution Factor: 1.04 Initial Wgt/Vol: 4.8 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 2.6 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	800	ug/kg	110
Benzene	ND	53	ug/kg	6.8
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	14
Bromomethane	ND	270	ug/kg	27
2-Butanone	ND	800	ug/kg	52
Carbon disulfide	ND	270	ug/kg	21
Carbon tetrachloride	ND	53	ug/kg	13
Chlorobenzene	ND	53	ug/kg	6.7
Chloroethane	ND	270	ug/kg	69
Chloroform	ND	53	ug/kg	13
Chloromethane	ND	270	ug/kg	5.6
Cyclohexane	ND	1300	ug/kg	8.2
Dibromochloromethane	ND	53	ug/kg	7.4
1,2-Dibromo-3-chloro- propane	ND	270	ug/kg	64
1,2-Dibromoethane	ND	270	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	18
1,3-Dichlorobenzene	ND	110	ug/kg	7.7
1,4-Dichlorobenzene	ND	110	ug/kg	8.4
Dichlorodifluoromethane	ND	110	ug/kg	5.8
1,1-Dichloroethane	ND	53	ug/kg	7.8
1,2-Dichloroethane	ND	53	ug/kg	9.9
1,1-Dichloroethene	ND	53	ug/kg	8.9
cis-1,2-Dichloroethene	ND	53	ug/kg	15
trans-1,2-Dichloroethene	ND	53	ug/kg	12
1,2-Dichloropropane	ND	53	ug/kg	7.9
cis-1,3-Dichloropropene	ND	53	ug/kg	5.9
trans-1,3-Dichloropropene	ND	53	ug/kg	5.8
Ethylbenzene	ND	53	ug/kg	7.3
2-Hexanone	ND	2700	ug/kg	26
Isopropylbenzene	ND	270	ug/kg	5.4
Methyl acetate	ND	1300	ug/kg	56
Methylene chloride	ND	270	ug/kg	110
Methylcyclohexane	ND	1300	ug/kg	6.1
4-Methyl-2-pentanone	ND	2700	ug/kg	12
Methyl tert-butyl ether	ND	270	ug/kg	11
Styrene	ND	53	ug/kg	30

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-120

GC/MS Volatiles

Lot-Sample #....: A4G160169-021 Work Order #....: GK79T1AA Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	8.8
Tetrachloroethene	ND	53	ug/kg	9.6
Toluene	ND	110	ug/kg	9.7
1,2,4-Trichloro- benzene	ND	270	ug/kg	13
1,1,1-Trichloroethane	ND	53	ug/kg	10
1,1,2-Trichloroethane	ND	53	ug/kg	11
Trichloroethene	ND	53	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	8.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	270	ug/kg	11
Vinyl chloride	ND	110	ug/kg	17
Xylenes (total)	ND	160	ug/kg	16

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	74	(59 - 138)
1,2-Dichloroethane-d4	84	(61 - 130)
Toluene-d8	96	(60 - 143)
4-Bromofluorobenzene	87	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-121

GC/MS Volatiles

Lot-Sample #....: A4G160169-022 Work Order #....: GK79W1AA Matrix.....: SO
 Date Sampled....: 07/15/04 12:00 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4203401
 Dilution Factor: 1.02 Initial Wgt/Vol: 4.9 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 4.6 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	800	ug/kg	110
Benzene	ND	53	ug/kg	6.8
Bromodichloromethane	ND	110	ug/kg	13
Bromoform	ND	110	ug/kg	14
Bromomethane	ND	270	ug/kg	27
2-Butanone	ND	800	ug/kg	52
Carbon disulfide	ND	270	ug/kg	21
Carbon tetrachloride	ND	53	ug/kg	13
Chlorobenzene	ND	53	ug/kg	6.7
Chloroethane	ND	270	ug/kg	69
Chloroform	ND	53	ug/kg	13
Chloromethane	23 J	270	ug/kg	5.6
Cyclohexane	ND	1300	ug/kg	8.2
Dibromochloromethane	ND	53	ug/kg	7.4
1,2-Dibromo-3-chloro- propane	ND	270	ug/kg	64
1,2-Dibromoethane	ND	270	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	18
1,3-Dichlorobenzene	ND	110	ug/kg	7.7
1,4-Dichlorobenzene	ND	110	ug/kg	8.4
Dichlorodifluoromethane	ND	110	ug/kg	5.8
1,1-Dichloroethane	ND	53	ug/kg	7.8
1,2-Dichloroethane	ND	53	ug/kg	9.9
1,1-Dichloroethene	ND	53	ug/kg	8.9
cis-1,2-Dichloroethene	ND	53	ug/kg	15
trans-1,2-Dichloroethene	ND	53	ug/kg	12
1,2-Dichloropropane	ND	53	ug/kg	7.9
cis-1,3-Dichloropropene	ND	53	ug/kg	5.9
trans-1,3-Dichloropropene	ND	53	ug/kg	5.8
Ethylbenzene	ND	53	ug/kg	7.3
2-Hexanone	ND	2700	ug/kg	26
Isopropylbenzene	ND	270	ug/kg	5.4
Methyl acetate	ND	1300	ug/kg	56
Methylene chloride	ND	270	ug/kg	110
Methylcyclohexane	ND	1300	ug/kg	6.1
4-Methyl-2-pentanone	ND	2700	ug/kg	12
Methyl tert-butyl ether	ND	270	ug/kg	11
Styrene	ND	53	ug/kg	30

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-121

GC/MS Volatiles

Lot-Sample #....: A4G160169-022 Work Order #....: GK79W1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	8.8
Tetrachloroethene	ND	53	ug/kg	9.6
Toluene	ND	110	ug/kg	9.7
1,2,4-Trichloro- benzene	ND	270	ug/kg	13
1,1,1-Trichloroethane	ND	53	ug/kg	10
1,1,2-Trichloroethane	ND	53	ug/kg	11
Trichloroethene	18 J	53	ug/kg	13
Trichlorofluoromethane	ND	110	ug/kg	8.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	270	ug/kg	11
Vinyl chloride	ND	110	ug/kg	17
Xylenes (total)	ND	160	ug/kg	16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	78	(59 - 138)
1,2-Dichloroethane-d4	85	(61 - 130)
Toluene-d8	97	(60 - 143)
4-Bromofluorobenzene	90	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-122

GC/MS Volatiles

Lot-Sample #....: A4G160169-023 Work Order #....: GK7911AA Matrix.....: SO
 Date Sampled....: 07/15/04 12:35 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4203401
 Dilution Factor: 1.11 Initial Wgt/Vol: 4.5 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 5.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	880	ug/kg	120
Benzene	ND	59	ug/kg	7.5
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	880	ug/kg	57
Carbon disulfide	ND	290	ug/kg	23
Carbon tetrachloride	ND	59	ug/kg	14
Chlorobenzene	ND	59	ug/kg	7.4
Chloroethane	ND	290	ug/kg	76
Chloroform	ND	59	ug/kg	14
Chloromethane	ND	290	ug/kg	6.1
Cyclohexane	ND	1400	ug/kg	9.0
Dibromochloromethane	ND	59	ug/kg	8.1
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	70
1,2-Dibromoethane	ND	290	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.4
1,4-Dichlorobenzene	ND	120	ug/kg	9.3
Dichlorodifluoromethane	ND	120	ug/kg	6.3
1,1-Dichloroethane	ND	59	ug/kg	8.6
1,2-Dichloroethane	ND	59	ug/kg	11
1,1-Dichloroethene	ND	59	ug/kg	9.7
cis-1,2-Dichloroethene	ND	59	ug/kg	16
trans-1,2-Dichloroethene	ND	59	ug/kg	13
1,2-Dichloropropane	ND	59	ug/kg	8.7
cis-1,3-Dichloropropene	ND	59	ug/kg	6.5
trans-1,3-Dichloropropene	ND	59	ug/kg	6.3
Ethylbenzene	ND	59	ug/kg	8.0
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	6.0
Methyl acetate	ND	1400	ug/kg	61
Methylene chloride	ND	290	ug/kg	120
Methylcyclohexane	39 J	1400	ug/kg	6.7
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	12
Styrene	ND	59	ug/kg	33

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-122

GC/MS Volatiles

Lot-Sample #....: A4G160169-023 Work Order #....: GK7911AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.6
Tetrachloroethene	ND	59	ug/kg	11
Toluene	21 J	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	59	ug/kg	11
1,1,2-Trichloroethane	ND	59	ug/kg	12
Trichloroethene	2000	59	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	38 J	180	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	78	(59 - 138)
1,2-Dichloroethane-d4	87	(61 - 130)
Toluene-d8	100	(60 - 143)
4-Bromofluorobenzene	91	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-123

GC/MS Volatiles

Lot-Sample #....: A4G160169-024 Work Order #....: GK7931AA Matrix.....: SO
 Date Sampled....: 07/15/04 12:40 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203412
 Dilution Factor: 1.09 Initial Wgt/Vol: 4.6 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 3.1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	840	ug/kg	110
Benzene	ND	56	ug/kg	7.2
Bromodichloromethane	ND	110	ug/kg	14
Bromoform	ND	110	ug/kg	15
Bromomethane	ND	280	ug/kg	28
2-Butanone	ND	840	ug/kg	55
Carbon disulfide	ND	280	ug/kg	23
Carbon tetrachloride	ND	56	ug/kg	14
Chlorobenzene	ND	56	ug/kg	7.1
Chloroethane	ND	280	ug/kg	73
Chloroform	ND	56	ug/kg	14
Chloromethane	ND	280	ug/kg	5.9
Cyclohexane	ND	1400	ug/kg	8.7
Dibromochloromethane	ND	56	ug/kg	7.8
1,2-Dibromo-3-chloro- propane	ND	280	ug/kg	68
1,2-Dibromoethane	ND	280	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	19
1,3-Dichlorobenzene	ND	110	ug/kg	8.1
1,4-Dichlorobenzene	ND	110	ug/kg	8.9
Dichlorodifluoromethane	ND	110	ug/kg	6.1
1,1-Dichloroethane	ND	56	ug/kg	8.2
1,2-Dichloroethane	ND	56	ug/kg	10
1,1-Dichloroethene	ND	56	ug/kg	9.3
cis-1,2-Dichloroethene	ND	56	ug/kg	16
trans-1,2-Dichloroethene	ND	56	ug/kg	12
1,2-Dichloropropane	ND	56	ug/kg	8.3
cis-1,3-Dichloropropene	ND	56	ug/kg	6.2
trans-1,3-Dichloropropene	ND	56	ug/kg	6.1
Ethylbenzene	ND	56	ug/kg	7.7
2-Hexanone	ND	2800	ug/kg	27
Isopropylbenzene	ND	280	ug/kg	5.7
Methyl acetate	ND	1400	ug/kg	59
Methylene chloride	ND	280	ug/kg	110
Methylcyclohexane	ND	1400	ug/kg	6.4
4-Methyl-2-pentanone	ND	2800	ug/kg	12
Methyl tert-butyl ether	ND	280	ug/kg	11
Styrene	ND	56	ug/kg	32

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-123

GC/MS Volatiles

Lot-Sample #....: A4G160169-024 Work Order #....: GK7931AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	9.2
Tetrachloroethene	ND	56	ug/kg	10
Toluene	ND	110	ug/kg	10
1,2,4-Trichloro- benzene	ND	280	ug/kg	14
1,1,1-Trichloroethane	ND	56	ug/kg	11
1,1,2-Trichloroethane	ND	56	ug/kg	11
Trichloroethene	ND	56	ug/kg	14
Trichlorofluoromethane	ND	110	ug/kg	9.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	280	ug/kg	11
Vinyl chloride	ND	110	ug/kg	18
Xylenes (total)	ND	170	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	84	(59 - 138)
1,2-Dichloroethane-d4	89	(61 - 130)
Toluene-d8	102	(60 - 143)
4-Bromofluorobenzene	94	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-124

GC/MS Volatiles

Lot-Sample #....: A4G160169-025 Work Order #....: GK7951AA Matrix.....: 80
 Date Sampled....: 07/15/04 12:45 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203412
 Dilution Factor: 1.11 Initial Wgt/Vol: 4.5 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 1.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	850	ug/kg	110
Benzene	ND	57	ug/kg	7.2
Bromodichloromethane	ND	110	ug/kg	14
Bromoform	ND	110	ug/kg	15
Bromomethane	ND	280	ug/kg	28
2-Butanone	ND	850	ug/kg	55
Carbon disulfide	ND	280	ug/kg	23
Carbon tetrachloride	ND	57	ug/kg	14
Chlorobenzene	ND	57	ug/kg	7.1
Chloroethane	ND	280	ug/kg	74
Chloroform	ND	57	ug/kg	14
Chloromethane	24 J,B	280	ug/kg	5.9
Cyclohexane	ND	1400	ug/kg	8.7
Dibromochloromethane	ND	57	ug/kg	7.8
1,2-Dibromo-3-chloro- propane	ND	280	ug/kg	68
1,2-Dibromoethane	ND	280	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	19
1,3-Dichlorobenzene	ND	110	ug/kg	8.1
1,4-Dichlorobenzene	ND	110	ug/kg	8.9
Dichlorodifluoromethane	ND	110	ug/kg	6.1
1,1-Dichloroethane	ND	57	ug/kg	8.3
1,2-Dichloroethane	ND	57	ug/kg	11
1,1-Dichloroethene	ND	57	ug/kg	9.4
cis-1,2-Dichloroethene	ND	57	ug/kg	16
trans-1,2-Dichloroethene	ND	57	ug/kg	12
1,2-Dichloropropane	ND	57	ug/kg	8.4
cis-1,3-Dichloropropene	ND	57	ug/kg	6.2
trans-1,3-Dichloropropene	ND	57	ug/kg	6.1
Ethylbenzene	ND	57	ug/kg	7.7
2-Hexanone	ND	2800	ug/kg	27
Isopropylbenzene	ND	280	ug/kg	5.8
Methyl acetate	ND	1400	ug/kg	59
Methylene chloride	ND	280	ug/kg	110
Methylcyclohexane	ND	1400	ug/kg	6.5
4-Methyl-2-pentanone	ND	2800	ug/kg	12
Methyl tert-butyl ether	ND	280	ug/kg	11
Styrene	ND	57	ug/kg	32

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-124

GC/MS Volatiles

Lot-Sample #....: A4G160169-025 Work Order #....: GK7951AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	9.3
Tetrachloroethene	ND	57	ug/kg	10
Toluene	ND	110	ug/kg	10
1,2,4-Trichloro- benzene	ND	280	ug/kg	14
1,1,1-Trichloroethane	ND	57	ug/kg	11
1,1,2-Trichloroethane	ND	57	ug/kg	11
Trichloroethene	ND	57	ug/kg	14
Trichlorofluoromethane	ND	110	ug/kg	9.4
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	280	ug/kg	11
Vinyl chloride	ND	110	ug/kg	18
Xylenes (total)	ND	170	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(59 - 138)
1,2-Dichloroethane-d4	91	(61 - 130)
Toluene-d8	103	(60 - 143)
4-Bromofluorobenzene	94	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-125

GC/MS Volatiles

Lot-Sample #....: A4G160169-026 Work Order #....: GK7981AA Matrix.....: SO
 Date Sampled....: 07/15/04 12:50 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203412
 Dilution Factor: 1.14 Initial Wgt/Vol: 4.4 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 1.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	870	ug/kg	120
Benzene	ND	58	ug/kg	7.4
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	870	ug/kg	57
Carbon disulfide	ND	290	ug/kg	23
Carbon tetrachloride	ND	58	ug/kg	14
Chlorobenzene	ND	58	ug/kg	7.3
Chloroethane	ND	290	ug/kg	76
Chloroform	ND	58	ug/kg	14
Chloromethane	ND	290	ug/kg	6.0
Cyclohexane	ND	1400	ug/kg	8.9
Dibromochloromethane	ND	58	ug/kg	8.0
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	70
1,2-Dibromoethane	ND	290	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.4
1,4-Dichlorobenzene	ND	120	ug/kg	9.2
Dichlorodifluoromethane	ND	120	ug/kg	6.3
1,1-Dichloroethane	ND	58	ug/kg	8.5
1,2-Dichloroethane	ND	58	ug/kg	11
1,1-Dichloroethene	ND	58	ug/kg	9.6
cis-1,2-Dichloroethene	ND	58	ug/kg	16
trans-1,2-Dichloroethene	ND	58	ug/kg	13
1,2-Dichloropropane	ND	58	ug/kg	8.6
cis-1,3-Dichloropropene	ND	58	ug/kg	6.4
trans-1,3-Dichloropropene	ND	58	ug/kg	6.3
Ethylbenzene	ND	58	ug/kg	7.9
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	5.9
Methyl acetate	ND	1400	ug/kg	60
Methylene chloride	ND	290	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.6
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	12
Styrene	ND	58	ug/kg	33

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-125

GC/MS Volatiles

Lot-Sample #....: A4G160169-026 Work Order #....: GK7981AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.5
Tetrachloroethene	ND	58	ug/kg	10
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	58	ug/kg	11
1,1,2-Trichloroethane	ND	58	ug/kg	12
Trichloroethene	ND	58	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	170	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	84	(59 - 138)
1,2-Dichloroethane-d4	90	(61 - 130)
Toluene-d8	105	(60 - 143)
4-Bromofluorobenzene	99	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-126

GC/MS Volatiles

Lot-Sample #....: A4G160169-027 Work Order #....: GK8AD1AA Matrix.....: SO
 Date Sampled....: 07/15/04 13:30 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/22/04
 Prep Batch #....: 4203412
 Dilution Factor: 1.16 Initial Wgt/Vol: 4.3 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 2.3 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	890	ug/kg	120
Benzene	ND	59	ug/kg	7.6
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	300	ug/kg	30
2-Butanone	ND	890	ug/kg	58
Carbon disulfide	ND	300	ug/kg	24
Carbon tetrachloride	ND	59	ug/kg	14
Chlorobenzene	ND	59	ug/kg	7.5
Chloroethane	ND	300	ug/kg	77
Chloroform	ND	59	ug/kg	14
Chloromethane	ND	300	ug/kg	6.2
Cyclohexane	ND	1400	ug/kg	9.1
Dibromochloromethane	ND	59	ug/kg	8.2
1,2-Dibromo-3-chloro- propane	ND	300	ug/kg	71
1,2-Dibromoethane	ND	300	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.5
1,4-Dichlorobenzene	ND	120	ug/kg	9.4
Dichlorodifluoromethane	ND	120	ug/kg	6.4
1,1-Dichloroethane	ND	59	ug/kg	8.7
1,2-Dichloroethane	ND	59	ug/kg	11
1,1-Dichloroethene	ND	59	ug/kg	9.9
cis-1,2-Dichloroethene	ND	59	ug/kg	17
trans-1,2-Dichloroethene	ND	59	ug/kg	13
1,2-Dichloropropane	ND	59	ug/kg	8.8
cis-1,3-Dichloropropene	ND	59	ug/kg	6.5
trans-1,3-Dichloropropene	ND	59	ug/kg	6.4
Ethylbenzene	ND	59	ug/kg	8.1
2-Hexanone	ND	3000	ug/kg	28
Isopropylbenzene	ND	300	ug/kg	6.1
Methyl acetate	ND	1400	ug/kg	62
Methylene chloride	ND	300	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.8
4-Methyl-2-pentanone	ND	3000	ug/kg	13
Methyl tert-butyl ether	ND	300	ug/kg	12
Styrene	ND	59	ug/kg	33

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-126

GC/MS Volatiles

Lot-Sample #....: A4G160169-027 Work Order #....: GK8AD1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.7
Tetrachloroethene	ND	59	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	30 J	300	ug/kg	14
1,1,1-Trichloroethane	ND	59	ug/kg	11
1,1,2-Trichloroethane	ND	59	ug/kg	12
Trichloroethene	ND	59	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	300	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(59 - 138)
1,2-Dichloroethane-d4	91	(61 - 130)
Toluene-d8	108	(60 - 143)
4-Bromofluorobenzene	96	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-127

GC/MS Volatiles

Lot-Sample #....: A4G160169-028 Work Order #....: GK8AE1AA Matrix.....: SO
 Date Sampled....: 07/15/04 13:35 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203412
 Dilution Factor: 1.11 Initial Wgt/Vol: 4.5 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 4.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	870	ug/kg	110
Benzene	ND	58	ug/kg	7.4
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	870	ug/kg	57
Carbon disulfide	ND	290	ug/kg	23
Carbon tetrachloride	ND	58	ug/kg	14
Chlorobenzene	ND	58	ug/kg	7.3
Chloroethane	ND	290	ug/kg	75
Chloroform	ND	58	ug/kg	14
Chloromethane	ND	290	ug/kg	6.0
Cyclohexane	ND	1400	ug/kg	8.9
Dibromochloromethane	ND	58	ug/kg	8.0
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	69
1,2-Dibromoethane	ND	290	ug/kg	11
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.3
1,4-Dichlorobenzene	ND	120	ug/kg	9.2
Dichlorodifluoromethane	ND	120	ug/kg	6.3
1,1-Dichloroethane	ND	58	ug/kg	8.5
1,2-Dichloroethane	ND	58	ug/kg	11
1,1-Dichloroethene	ND	58	ug/kg	9.6
cis-1,2-Dichloroethene	ND	58	ug/kg	16
trans-1,2-Dichloroethene	ND	58	ug/kg	13
1,2-Dichloropropane	ND	58	ug/kg	8.6
cis-1,3-Dichloropropene	ND	58	ug/kg	6.4
trans-1,3-Dichloropropene	ND	58	ug/kg	6.3
Ethylbenzene	ND	58	ug/kg	7.9
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	5.9
Methyl acetate	ND	1400	ug/kg	60
Methylene chloride	ND	290	ug/kg	110
Methylcyclohexane	ND	1400	ug/kg	6.6
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	12
Styrene	ND	58	ug/kg	32

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-127

GC/MS Volatiles

Lot-Sample #....: A4G160169-028 Work Order #....: GK8AE1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.5
Tetrachloroethene	ND	58	ug/kg	10
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	58	ug/kg	11
1,1,2-Trichloroethane	ND	58	ug/kg	11
Trichloroethene	ND	58	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	170	ug/kg	17
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	76	(59 - 138)		
1,2-Dichloroethane-d4	83	(61 - 130)		
Toluene-d8	99	(60 - 143)		
4-Bromofluorobenzene	88	(47 - 158)		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: 8-17360-071504-DCR-128

GC/MS Volatiles

Lot-Sample #....: A4G160169-029 Work Order #....: GK8AF1AA Matrix.....: SO
 Date Sampled....: 07/15/04 13:40 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203412
 Dilution Factor: 1.14 Initial Wgt/Vol: 4.4 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 2.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	880	ug/kg	120
Benzene	ND	58	ug/kg	7.5
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	880	ug/kg	57
Carbon disulfide	ND	290	ug/kg	23
Carbon tetrachloride	ND	58	ug/kg	14
Chlorobenzene	ND	58	ug/kg	7.4
Chloroethane	ND	290	ug/kg	76
Chloroform	ND	58	ug/kg	14
Chloromethane	19 J,B	290	ug/kg	6.1
Cyclohexane	ND	1400	ug/kg	9.0
Dibromochloromethane	ND	58	ug/kg	8.1
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	70
1,2-Dibromoethane	ND	290	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.4
1,4-Dichlorobenzene	ND	120	ug/kg	9.2
Dichlorodifluoromethane	ND	120	ug/kg	6.3
1,1-Dichloroethane	ND	58	ug/kg	8.5
1,2-Dichloroethane	ND	58	ug/kg	11
1,1-Dichloroethene	ND	58	ug/kg	9.7
cis-1,2-Dichloroethene	ND	58	ug/kg	16
trans-1,2-Dichloroethene	ND	58	ug/kg	13
1,2-Dichloropropane	ND	58	ug/kg	8.7
cis-1,3-Dichloropropene	ND	58	ug/kg	6.4
trans-1,3-Dichloropropene	ND	58	ug/kg	6.3
Ethylbenzene	ND	58	ug/kg	7.9
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	6.0
Methyl acetate	ND	1400	ug/kg	61
Methylene chloride	ND	290	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.7
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	12
Styrene	ND	58	ug/kg	33

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-128

GC/MS Volatiles

Lot-Sample #....: A4G160169-029 Work Order #....: GK8AF1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.6
Tetrachloroethene	ND	58	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	58	ug/kg	11
1,1,2-Trichloroethane	ND	58	ug/kg	12
Trichloroethene	16 J	58	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	78	(59 - 138)
1,2-Dichloroethane-d4	86	(61 - 130)
Toluene-d8	100	(60 - 143)
4-Bromofluorobenzene	93	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-129

GC/MS Volatiles

Lot-Sample #....: A4G160169-030 Work Order #....: GK8AG1AA Matrix.....: 80
 Date Sampled....: 07/15/04 13:45 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203412
 Dilution Factor: 1.11 Initial Wgt/Vol: 4.5 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 3.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	860	ug/kg	110
Benzene	ND	57	ug/kg	7.4
Bromodichloromethane	ND	110	ug/kg	14
Bromoform	ND	110	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	860	ug/kg	56
Carbon disulfide	ND	290	ug/kg	23
Carbon tetrachloride	ND	57	ug/kg	14
Chlorobenzene	ND	57	ug/kg	7.2
Chloroethane	ND	290	ug/kg	75
Chloroform	ND	57	ug/kg	14
Chloromethane	ND	290	ug/kg	6.0
Cyclohexane	ND	1400	ug/kg	8.8
Dibromochloromethane	ND	57	ug/kg	7.9
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	69
1,2-Dibromoethane	ND	290	ug/kg	11
1,2-Dichlorobenzene	ND	110	ug/kg	20
1,3-Dichlorobenzene	ND	110	ug/kg	8.3
1,4-Dichlorobenzene	ND	110	ug/kg	9.1
Dichlorodifluoromethane	ND	110	ug/kg	6.2
1,1-Dichloroethane	ND	57	ug/kg	8.4
1,2-Dichloroethane	ND	57	ug/kg	11
1,1-Dichloroethene	ND	57	ug/kg	9.5
cis-1,2-Dichloroethene	ND	57	ug/kg	16
trans-1,2-Dichloroethene	ND	57	ug/kg	13
1,2-Dichloropropane	ND	57	ug/kg	8.5
cis-1,3-Dichloropropene	ND	57	ug/kg	6.3
trans-1,3-Dichloropropene	ND	57	ug/kg	6.2
Ethylbenzene	ND	57	ug/kg	7.8
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	5.9
Methyl acetate	ND	1400	ug/kg	60
Methylene chloride	ND	290	ug/kg	110
Methylcyclohexane	ND	1400	ug/kg	6.5
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	11
Styrene	ND	57	ug/kg	32

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-129

GC/MS Volatiles

Lot-Sample #...: A4G160169-030 Work Order #...: GK8AG1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	9.4
Tetrachloroethene	ND	57	ug/kg	10
Toluene	ND	110	ug/kg	10
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	57	ug/kg	11
1,1,2-Trichloroethane	ND	57	ug/kg	11
Trichloroethene	14 J	57	ug/kg	14
Trichlorofluoromethane	ND	110	ug/kg	9.5
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	11
Vinyl chloride	ND	110	ug/kg	18
Xylenes (total)	ND	170	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	72	(59 - 138)
1,2-Dichloroethane-d4	81	(61 - 130)
Toluene-d8	98	(60 - 143)
4-Bromofluorobenzene	88	(47 - 158)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-130

GC/MS Volatiles

Lot-Sample #....: A4G160169-031 Work Order #....: GK8AH1AA Matrix.....: SO
 Date Sampled....: 07/15/04 13:50 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203412
 Dilution Factor: 1.47 Initial Wgt/Vol: 3.4 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 2.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1100	ug/kg	150
Benzene	ND	75	ug/kg	9.6
Bromodichloromethane	ND	150	ug/kg	18
Bromoform	ND	150	ug/kg	20
Bromomethane	ND	380	ug/kg	38
2-Butanone	ND	1100	ug/kg	74
Carbon disulfide	ND	380	ug/kg	30
Carbon tetrachloride	ND	75	ug/kg	18
Chlorobenzene	ND	75	ug/kg	9.5
Chloroethane	ND	380	ug/kg	98
Chloroform	ND	75	ug/kg	18
Chloromethane	ND	380	ug/kg	7.8
Cyclohexane	ND	1800	ug/kg	12
Dibromochloromethane	ND	75	ug/kg	10
1,2-Dibromo-3-chloro- propane	ND	380	ug/kg	90
1,2-Dibromoethane	ND	380	ug/kg	15
1,2-Dichlorobenzene	ND	150	ug/kg	26
1,3-Dichlorobenzene	ND	150	ug/kg	11
1,4-Dichlorobenzene	ND	150	ug/kg	12
Dichlorodifluoromethane	ND	150	ug/kg	8.1
1,1-Dichloroethane	ND	75	ug/kg	11
1,2-Dichloroethane	ND	75	ug/kg	14
1,1-Dichloroethene	ND	75	ug/kg	12
cis-1,2-Dichloroethene	ND	75	ug/kg	21
trans-1,2-Dichloroethene	ND	75	ug/kg	17
1,2-Dichloropropane	ND	75	ug/kg	11
cis-1,3-Dichloropropene	ND	75	ug/kg	8.3
trans-1,3-Dichloropropene	ND	75	ug/kg	8.1
Ethylbenzene	ND	75	ug/kg	10
2-Hexanone	ND	3800	ug/kg	36
Isopropylbenzene	ND	380	ug/kg	7.7
Methyl acetate	ND	1800	ug/kg	78
Methylene chloride	ND	380	ug/kg	150
Methylcyclohexane	ND	1800	ug/kg	8.6
4-Methyl-2-pentanone	ND	3800	ug/kg	17
Methyl tert-butyl ether	ND	380	ug/kg	15
Styrene	ND	75	ug/kg	42

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-130

GC/MS Volatiles

Lot-Sample #....: A4G160169-031 Work Order #....: GK8AH1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	150	ug/kg	12
Tetrachloroethene	ND	75	ug/kg	14
Toluene	ND	150	ug/kg	14
1,2,4-Trichloro- benzene	ND	380	ug/kg	18
1,1,1-Trichloroethane	ND	75	ug/kg	14
1,1,2-Trichloroethane	ND	75	ug/kg	15
Trichloroethene	ND	75	ug/kg	18
Trichlorofluoromethane	ND	150	ug/kg	12
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	380	ug/kg	15
Vinyl chloride	ND	150	ug/kg	24
Xylenes (total)	ND	230	ug/kg	23

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	79	(59 - 138)
1,2-Dichloroethane-d4	89	(61 - 130)
Toluene-d8	107	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-131

GC/MS Volatiles

Lot-Sample #....: A4G160169-032 Work Order #....: GK8AJ1AA Matrix.....: 80
 Date Sampled....: 07/15/04 14:00 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203412
 Dilution Factor: 1.02 Initial Wgt/Vol: 4.9 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 2.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	780	ug/kg	100
Benzene	ND	52	ug/kg	6.7
Bromodichloromethane	ND	100	ug/kg	12
Bromoform	ND	100	ug/kg	14
Bromomethane	ND	260	ug/kg	26
2-Butanone	ND	780	ug/kg	51
Carbon disulfide	ND	260	ug/kg	21
Carbon tetrachloride	ND	52	ug/kg	12
Chlorobenzene	ND	52	ug/kg	6.6
Chloroethane	ND	260	ug/kg	68
Chloroform	ND	52	ug/kg	12
Chloromethane	ND	260	ug/kg	5.4
Cyclohexane	ND	1200	ug/kg	8.0
Dibromochloromethane	ND	52	ug/kg	7.2
1,2-Dibromo-3-chloro- propane	ND	260	ug/kg	62
1,2-Dibromoethane	ND	260	ug/kg	10
1,2-Dichlorobenzene	ND	100	ug/kg	18
1,3-Dichlorobenzene	ND	100	ug/kg	7.5
1,4-Dichlorobenzene	ND	100	ug/kg	8.2
Dichlorodifluoromethane	ND	100	ug/kg	5.6
1,1-Dichloroethane	ND	52	ug/kg	7.6
1,2-Dichloroethane	ND	52	ug/kg	9.7
1,1-Dichloroethene	ND	52	ug/kg	8.6
cis-1,2-Dichloroethene	ND	52	ug/kg	15
trans-1,2-Dichloroethene	ND	52	ug/kg	11
1,2-Dichloropropane	ND	52	ug/kg	7.7
cis-1,3-Dichloropropene	ND	52	ug/kg	5.7
trans-1,3-Dichloropropene	ND	52	ug/kg	5.6
Ethylbenzene	ND	52	ug/kg	7.1
2-Hexanone	ND	2600	ug/kg	25
Isopropylbenzene	ND	260	ug/kg	5.3
Methyl acetate	ND	1200	ug/kg	54
Methylene chloride	ND	260	ug/kg	100
Methylcyclohexane	ND	1200	ug/kg	5.9
4-Methyl-2-pentanone	ND	2600	ug/kg	11
Methyl tert-butyl ether	ND	260	ug/kg	10
Styrene	ND	52	ug/kg	29

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-131

GC/MS Volatiles

Lot-Sample #....: A4G160169-032 Work Order #....: GK8AJ1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	100	ug/kg	8.5
Tetrachloroethene	ND	52	ug/kg	9.4
Toluene	ND	100	ug/kg	9.5
1,2,4-Trichloro- benzene	ND	260	ug/kg	12
1,1,1-Trichloroethane	ND	52	ug/kg	9.9
1,1,2-Trichloroethane	ND	52	ug/kg	10
Trichloroethene	ND	52	ug/kg	12
Trichlorofluoromethane	ND	100	ug/kg	8.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	260	ug/kg	10
Vinyl chloride	ND	100	ug/kg	17
Xylenes (total)	ND	160	ug/kg	16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	71	(59 - 138)
1,2-Dichloroethane-d4	81	(61 - 130)
Toluene-d8	96	(60 - 143)
4-Bromofluorobenzene	87	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-132

GC/MS Volatiles

Lot-Sample #....: A4G160169-033 Work Order #....: GK8AK1AA Matrix.....: SO
 Date Sampled....: 07/15/04 14:10 Date Received...: 07/16/04
 Prep Date.....: 07/17/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203412
 Dilution Factor: 1.02 Initial Wgt/Vol: 4.9 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 13 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	880	ug/kg	120
Benzene	ND	59	ug/kg	7.5
Bromodichloromethane	ND	120	ug/kg	14
Bromoform	ND	120	ug/kg	15
Bromomethane	ND	290	ug/kg	29
2-Butanone	ND	880	ug/kg	57
Carbon disulfide	ND	290	ug/kg	23
Carbon tetrachloride	ND	59	ug/kg	14
Chlorobenzene	ND	59	ug/kg	7.4
Chloroethane	ND	290	ug/kg	76
Chloroform	ND	59	ug/kg	14
Chloromethane	ND	290	ug/kg	6.1
Cyclohexane	ND	1400	ug/kg	9.0
Dibromochloromethane	ND	59	ug/kg	8.1
1,2-Dibromo-3-chloro- propane	ND	290	ug/kg	70
1,2-Dibromoethane	ND	290	ug/kg	12
1,2-Dichlorobenzene	ND	120	ug/kg	20
1,3-Dichlorobenzene	ND	120	ug/kg	8.4
1,4-Dichlorobenzene	ND	120	ug/kg	9.2
Dichlorodifluoromethane	ND	120	ug/kg	6.3
1,1-Dichloroethane	ND	59	ug/kg	8.5
1,2-Dichloroethane	ND	59	ug/kg	11
1,1-Dichloroethene	ND	59	ug/kg	9.7
cis-1,2-Dichloroethene	ND	59	ug/kg	16
trans-1,2-Dichloroethene	ND	59	ug/kg	13
1,2-Dichloropropane	ND	59	ug/kg	8.7
cis-1,3-Dichloropropene	ND	59	ug/kg	6.4
trans-1,3-Dichloropropene	ND	59	ug/kg	6.3
Ethylbenzene	ND	59	ug/kg	8.0
2-Hexanone	ND	2900	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	6.0
Methyl acetate	ND	1400	ug/kg	61
Methylene chloride	ND	290	ug/kg	120
Methylcyclohexane	ND	1400	ug/kg	6.7
4-Methyl-2-pentanone	ND	2900	ug/kg	13
Methyl tert-butyl ether	ND	290	ug/kg	12
Styrene	ND	59	ug/kg	33

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-132

GC/MS Volatiles

Lot-Sample #....: A4G160169-033 Work Order #....: GK8AK1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	120	ug/kg	9.6
Tetrachloroethene	ND	59	ug/kg	11
Toluene	ND	120	ug/kg	11
1,2,4-Trichloro- benzene	ND	290	ug/kg	14
1,1,1-Trichloroethane	ND	59	ug/kg	11
1,1,2-Trichloroethane	ND	59	ug/kg	12
Trichloroethene	ND	59	ug/kg	14
Trichlorofluoromethane	ND	120	ug/kg	9.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	290	ug/kg	12
Vinyl chloride	ND	120	ug/kg	19
Xylenes (total)	ND	180	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	74	(59 - 138)
1,2-Dichloroethane-d4	83	(61 - 130)
Toluene-d8	95	(60 - 143)
4-Bromofluorobenzene	89	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A4G160169
MB Lot-Sample #: A4G210000-401

Work Order #....: GLJEG1AA

Matrix.....: SOLID

Analysis Date...: 07/20/04
Dilution Factor: 1

Prep Date.....: 07/17/04

Final Wgt/Vol...: 5 mL

Prep Batch #....: 4203401

Initial Wgt/Vol: 5 g

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	750	ug/kg	SW846 8260B
Benzene	ND	50	ug/kg	SW846 8260B
Bromodichloromethane	ND	100	ug/kg	SW846 8260B
Bromoform	ND	100	ug/kg	SW846 8260B
Bromomethane	ND	250	ug/kg	SW846 8260B
2-Butanone	ND	750	ug/kg	SW846 8260B
Carbon disulfide	ND	250	ug/kg	SW846 8260B
Carbon tetrachloride	ND	50	ug/kg	SW846 8260B
Chlorobenzene	ND	50	ug/kg	SW846 8260B
Chloroethane	ND	250	ug/kg	SW846 8260B
Chloroform	ND	50	ug/kg	SW846 8260B
Chloromethane	ND	250	ug/kg	SW846 8260B
Cyclohexane	ND	1200	ug/kg	SW846 8260B
Dibromochloromethane	ND	50	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	250	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	250	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	100	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	100	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	100	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	50	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	50	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	50	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	50	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	50	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	50	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	50	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	50	ug/kg	SW846 8260B
Ethylbenzene	ND	50	ug/kg	SW846 8260B
2-Hexanone	ND	2500	ug/kg	SW846 8260B
Isopropylbenzene	ND	250	ug/kg	SW846 8260B
Methyl acetate	ND	1200	ug/kg	SW846 8260B
Methylene chloride	ND	250	ug/kg	SW846 8260B
Methylcyclohexane	ND	1200	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	2500	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	250	ug/kg	SW846 8260B
Styrene	ND	50	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	100	ug/kg	SW846 8260B
Tetrachloroethene	ND	50	ug/kg	SW846 8260B
Toluene	ND	100	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A4G160169

Work Order #....: GLJEG1AA

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
1,2,4-Trichloro- benzene	ND	250	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	50	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	50	ug/kg	SW846 8260B
Trichloroethane	ND	50	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	100	ug/kg	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	250	ug/kg	SW846 8260B
Vinyl chloride	ND	100	ug/kg	SW846 8260B
Xylenes (total)	ND	150	ug/kg	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	87	(59 - 138)
1,2-Dichloroethane-d4	92	(61 - 130)
Toluene-d8	105	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A4G160169
MB Lot-Sample #: A4G210000-412

Work Order #....: GLJFE1AA

Matrix.....: SOLID

Analysis Date...: 07/21/04
Dilution Factor: 1

Prep Date.....: 07/17/04

Final Wgt/Vol...: 5 mL

Prep Batch #....: 4203412

Initial Wgt/Vol: 5 g

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
Acetone	ND	750	ug/kg	SW846 8260B
Benzene	ND	50	ug/kg	SW846 8260B
Bromodichloromethane	ND	100	ug/kg	SW846 8260B
Bromoform	ND	100	ug/kg	SW846 8260B
Bromomethane	ND	250	ug/kg	SW846 8260B
2-Butanone	ND	750	ug/kg	SW846 8260B
Carbon disulfide	ND	250	ug/kg	SW846 8260B
Carbon tetrachloride	ND	50	ug/kg	SW846 8260B
Chlorobenzene	ND	50	ug/kg	SW846 8260B
Chloroethane	ND	250	ug/kg	SW846 8260B
Chloroform	ND	50	ug/kg	SW846 8260B
Chloromethane	21 J	250	ug/kg	SW846 8260B
Cyclohexane	ND	1200	ug/kg	SW846 8260B
Vibromochloromethane	ND	50	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	250	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	250	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	100	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	100	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	100	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	50	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	50	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	50	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	50	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	50	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	50	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	50	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	50	ug/kg	SW846 8260B
Ethylbenzene	ND	50	ug/kg	SW846 8260B
2-Hexanone	ND	2500	ug/kg	SW846 8260B
Isopropylbenzene	ND	250	ug/kg	SW846 8260B
Methyl acetate	ND	1200	ug/kg	SW846 8260B
Methylene chloride	ND	250	ug/kg	SW846 8260B
Methylcyclohexane	ND	1200	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	2500	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	250	ug/kg	SW846 8260B
Styrene	ND	50	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	100	ug/kg	SW846 8260B
Tetrachloroethene	ND	50	ug/kg	SW846 8260B
Toluene	ND	100	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A4G160169

Work Order #....: GLJFE1AA

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
1,2,4-Trichloro- benzene	ND	250	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	50	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	50	ug/kg	SW846 8260B
Trichloroethene	ND	50	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	100	ug/kg	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	250	ug/kg	SW846 8260B
Vinyl chloride	ND	100	ug/kg	SW846 8260B
Xylenes (total)	ND	150	ug/kg	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	85	(59 - 138)
1,2-Dichloroethane-d4	91	(61 - 130)
Toluene-d8	106	(60 - 143)
4-Bromofluorobenzene	98	(47 - 158)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A4G160169
MB Lot-Sample #: A4G210000-414

Work Order #....: GLJF51AA

Matrix.....: SOLID

Analysis Date...: 07/21/04
Dilution Factor: 1

Prep Date.....: 07/16/04

Final Wgt/Vol...: 25 mL

Prep Batch #....: 4203414

Initial Wgt/Vol: 25 g

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Acetone	ND	750	ug/kg	SW846	8260B
Benzene	ND	50	ug/kg	SW846	8260B
Bromodichloromethane	ND	100	ug/kg	SW846	8260B
Bromoform	ND	100	ug/kg	SW846	8260B
Bromomethane	ND	250	ug/kg	SW846	8260B
2-Butanone	ND	750	ug/kg	SW846	8260B
Carbon disulfide	ND	250	ug/kg	SW846	8260B
Carbon tetrachloride	ND	50	ug/kg	SW846	8260B
Chlorobenzene	ND	50	ug/kg	SW846	8260B
Chloroethane	ND	250	ug/kg	SW846	8260B
Chloroform	ND	50	ug/kg	SW846	8260B
Chloromethane	15 J	250	ug/kg	SW846	8260B
Cyclohexane	ND	1200	ug/kg	SW846	8260B
Dibromochloromethane	ND	50	ug/kg	SW846	8260B
,2-Dibromo-3-chloro- propane	ND	250	ug/kg	SW846	8260B
1,2-Dibromoethane	ND	250	ug/kg	SW846	8260B
1,2-Dichlorobenzene	ND	100	ug/kg	SW846	8260B
1,3-Dichlorobenzene	ND	100	ug/kg	SW846	8260B
1,4-Dichlorobenzene	ND	100	ug/kg	SW846	8260B
Dichlorodifluoromethane	ND	100	ug/kg	SW846	8260B
1,1-Dichloroethane	ND	50	ug/kg	SW846	8260B
1,2-Dichloroethane	ND	50	ug/kg	SW846	8260B
1,1-Dichloroethene	ND	50	ug/kg	SW846	8260B
cis-1,2-Dichloroethene	ND	50	ug/kg	SW846	8260B
trans-1,2-Dichloroethene	ND	50	ug/kg	SW846	8260B
1,2-Dichloropropane	ND	50	ug/kg	SW846	8260B
cis-1,3-Dichloropropene	ND	50	ug/kg	SW846	8260B
trans-1,3-Dichloropropene	ND	50	ug/kg	SW846	8260B
Ethylbenzene	ND	50	ug/kg	SW846	8260B
2-Hexanone	ND	2500	ug/kg	SW846	8260B
Isopropylbenzene	ND	250	ug/kg	SW846	8260B
Methyl acetate	ND	1200	ug/kg	SW846	8260B
Methylene chloride	ND	250	ug/kg	SW846	8260B
Methylcyclohexane	ND	1200	ug/kg	SW846	8260B
4-Methyl-2-pentanone	ND	2500	ug/kg	SW846	8260B
Methyl tert-butyl ether	ND	250	ug/kg	SW846	8260B
Styrene	ND	50	ug/kg	SW846	8260B
1,1,2,2-Tetrachloroethane	ND	100	ug/kg	SW846	8260B
Tetrachloroethene	ND	50	ug/kg	SW846	8260B
luene	ND	100	ug/kg	SW846	8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4G160169

Work Order #...: GLJF51AA

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
1,2,4-Trichloro- benzene	13 J	250	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	50	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	50	ug/kg	SW846 8260B
Trichloroethene	ND	50	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	100	ug/kg	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	250	ug/kg	SW846 8260B
Vinyl chloride	ND	100	ug/kg	SW846 8260B
Xylenes (total)	ND	150	ug/kg	SW846 8260B
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
Dibromofluoromethane	82	(59 - 138)		
1,2-Dichloroethane-d4	87	(61 - 130)		
Toluene-d8	99	(60 - 143)		
4-Bromofluorobenzene	91	(47 - 158)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A4G160169 Work Order #....: GLJEG1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A4G210000-401 GLJEG1AD-LCSD
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4203401
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	200	180	ug/kg	92		SW846 8260B
	200	180	ug/kg	92	0.49	SW846 8260B
Chlorobenzene	200	200	ug/kg	98		SW846 8260B
	200	190	ug/kg	97	0.68	SW846 8260B
1,1-Dichloroethene	200	190	ug/kg	96		SW846 8260B
	200	180	ug/kg	91	5.0	SW846 8260B
Toluene	200	200	ug/kg	100		SW846 8260B
	200	200	ug/kg	99	1.6	SW846 8260B
Trichloroethene	200	200	ug/kg	100		SW846 8260B
	200	190	ug/kg	97	3.7	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(59 - 138)
	90	(59 - 138)
1,2-Dichloroethane-d4	95	(61 - 130)
	89	(61 - 130)
Toluene-d8	106	(60 - 143)
	105	(60 - 143)
4-Bromofluorobenzene	101	(47 - 158)
	98	(47 - 158)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A4G160169 Work Order #....: GLJEG1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A4G210000-401 GLJEG1AD-LCSD
 Prep Date.....: 07/17/04 Analysis Date...: 07/20/04
 Prep Batch #....: 4203401
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	92	(75 - 129)			SW846 8260B
	92	(75 - 129)	0.49	(0-20)	SW846 8260B
Chlorobenzene	98	(75 - 127)			SW846 8260B
	97	(75 - 127)	0.68	(0-22)	SW846 8260B
1,1-Dichloroethene	96	(55 - 142)			SW846 8260B
	91	(55 - 142)	5.0	(0-27)	SW846 8260B
Toluene	100	(71 - 130)			SW846 8260B
	99	(71 - 130)	1.6	(0-24)	SW846 8260B
Trichloroethene	100	(70 - 131)			SW846 8260B
	97	(70 - 131)	3.7	(0-23)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(59 - 138)
	90	(59 - 138)
1,2-Dichloroethane-d4	95	(61 - 130)
	89	(61 - 130)
Toluene-d8	106	(60 - 143)
	105	(60 - 143)
4-Bromofluorobenzene	101	(47 - 158)
	98	(47 - 158)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A4G160169 Work Order #....: GLJFELAC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A4G210000-412 GLJFELAD-LCSD
 Prep Date.....: 07/17/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203412
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	200	180	ug/kg	90		SW846 8260B
	200	180	ug/kg	90	0.11	SW846 8260B
Chlorobenzene	200	190	ug/kg	94		SW846 8260B
	200	190	ug/kg	97	2.5	SW846 8260B
1,1-Dichloroethene	200	180	ug/kg	88		SW846 8260B
	200	170	ug/kg	87	0.96	SW846 8260B
Toluene	200	190	ug/kg	96		SW846 8260B
	200	200	ug/kg	98	2.3	SW846 8260B
Trichloroethene	200	200	ug/kg	98		SW846 8260B
	200	190	ug/kg	93	4.9	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(59 - 138)
	85	(59 - 138)
1,2-Dichloroethane-d4	91	(61 - 130)
	89	(61 - 130)
Toluene-d8	103	(60 - 143)
	102	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)
	95	(47 - 158)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A4G160169 Work Order #....: GLJFE1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A4G210000-412 GLJFE1AD-LCSD
 Prep Date.....: 07/17/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203412
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 g

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	90	(75 - 129)			SW846 8260B
	90	(75 - 129)	0.11	(0-20)	SW846 8260B
Chlorobenzene	94	(75 - 127)			SW846 8260B
	97	(75 - 127)	2.5	(0-22)	SW846 8260B
1,1-Dichloroethene	88	(55 - 142)			SW846 8260B
	87	(55 - 142)	0.96	(0-27)	SW846 8260B
Toluene	96	(71 - 130)			SW846 8260B
	98	(71 - 130)	2.3	(0-24)	SW846 8260B
Trichloroethene	98	(70 - 131)			SW846 8260B
	93	(70 - 131)	4.9	(0-23)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	87	(59 - 138)
	85	(59 - 138)
1,2-Dichloroethane-d4	91	(61 - 130)
	89	(61 - 130)
Toluene-d8	103	(60 - 143)
	102	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)
	95	(47 - 158)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A4G160169 Work Order #....: GLJF51AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A4G210000-414 GLJF51AD-LCSD
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 1 Final Wgt/Vol...: 25 mL
 Initial Wgt/Vol: 25 g

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Benzene	200	180	ug/kg	92		SW846 8260B
	200	200	ug/kg	99	7.2	SW846 8260B
Chlorobenzene	200	190	ug/kg	97		SW846 8260B
	200	200	ug/kg	101	4.6	SW846 8260B
1,1-Dichloroethene	200	180	ug/kg	91		SW846 8260B
	200	190	ug/kg	96	5.8	SW846 8260B
Toluene	200	200	ug/kg	99		SW846 8260B
	200	210	ug/kg	103	3.7	SW846 8260B
Trichloroethene	200	180	ug/kg	92		SW846 8260B
	200	200	ug/kg	99	7.2	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	84	(59 - 138)
	86	(59 - 138)
1,2-Dichloroethane-d4	84	(61 - 130)
	89	(61 - 130)
Toluene-d8	95	(60 - 143)
	100	(60 - 143)
4-Bromofluorobenzene	90	(47 - 158)
	92	(47 - 158)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A4G160169 Work Order #....: GLJF51AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A4G210000-414 GLJF51AD-LCSD
 Prep Date.....: 07/16/04 Analysis Date...: 07/21/04
 Prep Batch #....: 4203414
 Dilution Factor: 1 Final Wgt/Vol...: 25 mL
 Initial Wgt/Vol: 25 g

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	92	(75 - 129)			SW846 8260B
	99	(75 - 129)	7.2	(0-20)	SW846 8260B
Chlorobenzene	97	(75 - 127)			SW846 8260B
	101	(75 - 127)	4.6	(0-22)	SW846 8260B
1,1-Dichloroethene	91	(55 - 142)			SW846 8260B
	96	(55 - 142)	5.8	(0-27)	SW846 8260B
Toluene	99	(71 - 130)			SW846 8260B
	103	(71 - 130)	3.7	(0-24)	SW846 8260B
Trichloroethene	92	(70 - 131)			SW846 8260B
	99	(70 - 131)	7.2	(0-23)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	84	(59 - 138)
	86	(59 - 138)
1,2-Dichloroethane-d4	84	(61 - 130)
	89	(61 - 130)
Toluene-d8	95	(60 - 143)
	100	(60 - 143)
4-Bromofluorobenzene	90	(47 - 158)
	92	(47 - 158)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

GENERAL CHEMISTRY DATA

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-100

General Chemistry

Lot-Sample #....: A4G160169-001 Work Order #....: GK78C Matrix.....: SO
 Date Sampled....: 07/15/04 08:00 Date Received...: 07/16/04
 * Moisture.....: 4.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	95.1	10.0	%	NCANW 160.3 MOD	07/19-07/20/04	4201077
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-101

General Chemistry

Lot-Sample #...: A4G160169-002 Work Order #...: GK78G Matrix.....: SO
Date Sampled...: 07/15/04 08:05 Date Received...: 07/16/04
% Moisture.....: 2.5

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.5	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201077
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-102

General Chemistry

Lot-Sample #....: A4G160169-003 Work Order #....: GK78L Matrix.....: SO
Date Sampled....: 07/15/04 08:10 Date Received...: 07/16/04
% Moisture.....: 2.1

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Percent Solids	97.9	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201077
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-103

General Chemistry

Lot-Sample #....: A4G160169-004 Work Order #....: GK78N Matrix.....: SO
Date Sampled....: 07/15/04 08:20 Date Received...: 07/16/04
% Moisture.....: 2.5

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.5	10.0	%	MCANN 160.3 MOD	07/19-07/20/04	4201077
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-104

General Chemistry

Lot-Sample #...: A4G160169-005 Work Order #...: GK78R Matrix.....: SO
Date Sampled...: 07/15/04 08:25 Date Received...: 07/16/04
% Moisture.....: 2.8

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.2	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201077
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-105

General Chemistry

Lot-Sample #....: A4G160169-006 Work Order #....: GK78W Matrix.....: SO
Date Sampled....: 07/15/04 08:30 Date Received...: 07/16/04
% Moisture.....: 2.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.0	10.0	%	MCANN 160.3 MOD	07/19-07/20/04	4201077
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-106

General Chemistry

Lot-Sample #....: A4G160169-007 Work Order #....: GK78X Matrix.....: SO
Date Sampled....: 07/15/04 08:35 Date Received...: 07/16/04
% Moisture.....: 3.4

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.6	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201077
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-107

General Chemistry

Lot-Sample #...: A4G160169-008 Work Order #...: GK781 Matrix.....: SO
Date Sampled...: 07/15/04 08:40 Date Received...: 07/16/04
% Moisture.....: 2.3

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.7	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201077
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-108

General Chemistry

Lot-Sample #....: A4G160169-009 Work Order #....: GK783 Matrix.....: SO
Date Sampled....: 07/15/04 08:45 Date Received...: 07/16/04
% Moisture.....: 2.6

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.4	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201077
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-109

General Chemistry

Lot-Sample #....: A4G160169-010 Work Order #....: GK784 Matrix.....: SO
Date Sampled....: 07/15/04 08:55 Date Received...: 07/16/04
% Moisture.....: 3.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.0	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-110

General Chemistry

Lot-Sample #....: A4G160169-011 Work Order #....: GK786 Matrix.....: SO
Date Sampled....: 07/15/04 09:00 Date Received...: 07/16/04
% Moisture.....: 7.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	93.0	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-111

General Chemistry

Lot-Sample #....: A4G160169-012 Work Order #....: GK788 Matrix.....: SO
Date Sampled....: 07/15/04 10:50 Date Received...: 07/16/04
% Moisture.....: 5.7

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	94.3	10.0	%	MCANN 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-112

General Chemistry

Lot-Sample #....: A4G160169-013 Work Order #....: GK789 Matrix.....: SO
Date Sampled....: 07/15/04 10:55 Date Received...: 07/16/04
% Moisture.....: 3.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.8	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-113

General Chemistry

Lot-Sample #....: A4G160169-014 Work Order #....: GK79C Matrix.....: SO
Date Sampled....: 07/15/04 11:00 Date Received...: 07/16/04
% Moisture.....: 1.7

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.3	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201078
			Dilution Factor: 1	MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-114

General Chemistry

Lot-Sample #...: A4G160169-015 Work Order #...: GK79D Matrix.....: SO
Date Sampled...: 07/15/04 11:05 Date Received...: 07/16/04
% Moisture.....: 1.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.1	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-115

General Chemistry

Lot-Sample #....: A4G160169-016 Work Order #....: GK79H Matrix.....: SO
Date Sampled....: 07/15/04 11:10 Date Received...: 07/16/04
% Moisture.....: 2.9

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.1	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-116

General Chemistry

Lot-Sample #....: A4G160169-017 Work Order #....: GK79J Matrix.....: SO
Date Sampled....: 07/15/04 11:20 Date Received...: 07/16/04
* Moisture.....: 4.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	95.2	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-117

General Chemistry

Lot-Sample #....: A4G160169-018 Work Order #....: GK79K Matrix.....: SO
Date Sampled....: 07/15/04 11:25 Date Received...: 07/16/04
% Moisture.....: 3.8

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
					<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Solids	96.2	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-118

General Chemistry

Lot-Sample #...: A4G160169-019 Work Order #...: GK79M Matrix.....: SO
Date Sampled...: 07/15/04 11:30 Date Received...: 07/16/04
* Moisture.....: 2.8

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.2	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

COMESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-119

General Chemistry

Lot-Sample #....: A4G160169-020 Work Order #....: GK79P Matrix.....: SO
Date Sampled....: 07/15/04 11:40 Date Received...: 07/16/04
% Moisture.....: 1.5

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.5	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-120

General Chemistry

Lot-Sample #...: A4G160169-021 Work Order #...: GK79T Matrix.....: SO
Date Sampled...: 07/15/04 11:50 Date Received...: 07/16/04
% Moisture.....: 2.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.4	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-121

General Chemistry

Lot-Sample #....: A4G160169-022 Work Order #....: GK79W Matrix.....: SO
Date Sampled....: 07/15/04 12:00 Date Received...: 07/16/04
% Moisture.....: 4.6

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	95.5	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-122

General Chemistry

Lot-Sample #....: A4G160169-023 Work Order #....: GK791 Matrix.....: SO
Date Sampled....: 07/15/04 12:35 Date Received...: 07/16/04
% Moisture.....: 5.4

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	94.7	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-123

General Chemistry

Lot-Sample #...: A4G160169-024 Work Order #...: GK793 Matrix.....: SO
Date Sampled...: 07/15/04 12:40 Date Received...: 07/16/04
% Moisture.....: 3.1

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.9	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

COMBESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-124

General Chemistry

Lot-Sample #....: A4G160169-025 Work Order #....: GK795 Matrix.....: SO
Date Sampled....: 07/15/04 12:45 Date Received...: 07/16/04
% Moisture.....: 1.9

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.1	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-125

General Chemistry

Lot-Sample #...: A4G160169-026 Work Order #...: GK798 Matrix.....: SO
Date Sampled...: 07/15/04 12:50 Date Received...: 07/16/04
% Moisture.....: 1.9

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.1	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-126

General Chemistry

Lot-Sample #....: A4G160169-027 Work Order #....: GK8AD Matrix.....: SO
Date Sampled....: 07/15/04 13:30 Date Received...: 07/16/04
% Moisture.....: 2.3

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.7	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-127

General Chemistry

Lot-Sample #....: A4G160169-028 Work Order #....: GK8AE Matrix.....: SO
Date Sampled....: 07/15/04 13:35 Date Received...: 07/16/04
% Moisture.....: 4.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
					<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Solids	95.8	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-128

General Chemistry

Lot-Sample #....: A4G160169-029 Work Order #....: GK8AF Matrix.....: SO
Date Sampled....: 07/15/04 13:40 Date Received...: 07/16/04
* Moisture.....: 2.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.5	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201078
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-129

General Chemistry

Lot-Sample #....: A4G160169-030 Work Order #....: GK8AG Matrix.....: SO
Date Sampled....: 07/15/04 13:45 Date Received...: 07/16/04
% Moisture.....: 3.4

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.7	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201274
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-130

General Chemistry

Lot-Sample #....: A4G160169-031 Work Order #....: GK8AH Matrix.....: SO
Date Sampled....: 07/15/04 13:50 Date Received...: 07/16/04
% Moisture.....: 2.4

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.6	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201274
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-131

General Chemistry

Lot-Sample #...: A4G160169-032 Work Order #...: GK8AJ Matrix.....: SO
Date Sampled...: 07/15/04 14:00 Date Received...: 07/16/04
% Moisture.....: 2.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.0	10.0	%	MCANW 160.3 MOD	07/19-07/20/04	4201274
		Dilution Factor: 1		MDL.....: 10.0		

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: S-17360-071504-DCR-132

General Chemistry

Lot-Sample #....: A4G160169-033 Work Order #....: GK8AK Matrix.....: SO
Date Sampled....: 07/15/04 14:10 Date Received...: 07/16/04
% Moisture.....: 13

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	87.1	10.0	%	MCAWW 160.3 MOD	07/19-07/20/04	4201274
		Dilution Factor: 1		MDL.....: 10.0		

METHOD BLANK REPORT

General Chemistry

Client Lot #....: A4G160169

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	ND	Work Order #: GLCVG1AA 10.0	%	MB Lot-Sample #: A4G190000-077 MCAWW 160.3 MOD	07/19-07/20/04	4201077
Dilution Factor: 1						
Percent Solids	ND	Work Order #: GLCVJ1AA 10.0	%	MB Lot-Sample #: A4G190000-078 MCAWW 160.3 MOD	07/19-07/20/04	4201078
Dilution Factor: 1						
Percent Solids	ND	Work Order #: GLDA31AA 10.0	%	MB Lot-Sample #: A4G190000-274 MCAWW 160.3 MOD	07/19-07/20/04	4201274
Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A4G160169

Work Order #....: GK76W-SMP
GK76W-DUP

Matrix.....: SOLID

Date Sampled....: 07/15/04 12:05 Date Received...: 07/16/04

% Moisture.....: 5.4

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	94.6	94.7	%	0.12	(0-20)	SD Lot-Sample #: A4G160162-016 MCAWW 160.3 MOD	07/19-07/20/04	4201077

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A4G160169

Work Order #....: GK77E-SMP
GK77E-DUP

Matrix.....: SOLID

Date Sampled....: 07/15/04 14:45 Date Received...: 07/16/04

% Moisture.....: 21

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	79.2	82.3	%	3.9	(0-20)	SD Lot-Sample #: A4G160162-024 MCAWW 160.3 MOD	07/19-07/20/04	4201077
Dilution Factor: 1								

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A4G160169

Work Order #....: GK784-SMP

Matrix.....: SO

Date Sampled....: 07/15/04 08:55

GK784-DUP
Date Received...: 07/16/04

% Moisture.....: 3.0

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.0	97.3	%	0.29	(0-20)	SD Lot-Sample #: A4G160169-010 MCAWW 160.3 MOD	07/19-07/20/04	4201078

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A4G160169

Work Order #....: GK8AF-SMP
GK8AF-DUP

Matrix.....: SO

Date Sampled....: 07/15/04 13:40 Date Received...: 07/16/04

% Moisture.....: 2.5

PARAM RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.5	97.9	%	0.37	(0-20)	SD Lot-Sample #: A4G160169-029	
					MCAWW 160.3 MOD	07/19-07/20/04	4201078

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A4G160169

Work Order #....: GK6CC-SMP

Matrix.....: SOLID

Date Sampled....: 07/07/04

GK6CC-DUP

Date Received...: 07/15/04

% Moisture.....: 18

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	81.8	81.0	%	0.99	(0-20)	SD Lot-Sample #: A4G150264-001	07/19-07/20/04	4201274
			Dilution Factor: 1					
			MCAWW 160.3 MOD					

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A4G160169 Work Order #....: GK8AG-SMP Matrix.....: SO
 Date Sampled....: 07/15/04 13:45 Date Received...: 07/16/04
 % Moisture.....: 3.4

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH
Percent Solids	96.7	97.1	%	0.42	(0-20)	SD Lot-Sample #: A4G160169-030 MCAWW 160.3 MOD	07/19-07/20/04	420127

Dilution Factor: 1

END OF REPORT

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ANALYTICAL REPORT

PROJECT NO. 17360-10

GM-GRAND RAPIDS SSOW# E030008

Lot #: A5L060207

Paul Wiseman (PM)

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

Denise D. Heckler / KMB

Denise D. Heckler
Project Manager

December 21, 2005

CASE NARRATIVE

A5L060207

The following report contains the analytical results for forty-two solid samples and one quality control sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Grand Rapids SSOW# E030008 Site, project number 17360-10. The samples were received December 06, 2005, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 734-205-2535.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT." The total number of pages in this report is 179.

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperatures of the coolers upon sample receipt were 1.2, 2.4, and 2.6°C.

CASE NARRATIVE (continued)

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The client requested matrix spike/matrix spike duplicate for sample(s) SO-17360-120305-DCR-545 was not analyzed due to the spike being diluted out.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

<u>Volatile (GC or GC/MS)</u>	<u>Semivolatile (GC/MS)</u>	<u>Metals</u>
Methylene chloride	Phthalate Esters	Copper
Acetone		Iron
2-Butanone		Zinc
		Lead*

- *for analyses run on TJA Trace ICP, ICPMS or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprep and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprep and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide, PCB, and PAH methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria.

STL North Canton Certifications and Approvals:

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), North Carolina (#39702), Ohio (#6090), OhioVAP (#CL0024), Rhode Island (#237), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), Utah (#QUAN9), Virginia (#00011), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)



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EXECUTIVE SUMMARY - Detection Highlights

A5L060207

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SO-17360-120305-DCR-508 12/03/05 09:10 001				
Acetone	110 J,B	650	ug/kg	SW846 8260B
Trichloroethene	1200	43	ug/kg	SW846 8260B
Percent Solids	96.5	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-509 12/03/05 09:12 002				
Trichloroethene	740	55	ug/kg	SW846 8260B
Percent Solids	96.3	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-510 12/03/05 09:15 003				
Acetone	150 J,B	630	ug/kg	SW846 8260B
Trichloroethene	74	42	ug/kg	SW846 8260B
Percent Solids	97.8	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-511 12/03/05 09:17 004				
Acetone	120 J,B	720	ug/kg	SW846 8260B
Trichloroethene	25 J	48	ug/kg	SW846 8260B
Percent Solids	98.7	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-512 12/03/05 09:20 005				
Acetone	140 J,B	630	ug/kg	SW846 8260B
Methyl acetate	80 J	1000	ug/kg	SW846 8260B
Trichloroethene	160	42	ug/kg	SW846 8260B
Percent Solids	98.7	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-513 12/03/05 09:22 006				
Acetone	120 J,B	650	ug/kg	SW846 8260B
Percent Solids	97.6	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-514 12/03/05 09:25 007				
Acetone	110 J,B	670	ug/kg	SW846 8260B
Trichloroethene	16 J	45	ug/kg	SW846 8260B
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A5L060207

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SO-17360-120305-DCR-515 12/03/05 09:27 008				
Acetone	170 J,B	680	ug/kg	SW846 8260B
Trichloroethene	20 J	46	ug/kg	SW846 8260B
Percent Solids	96.6	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-516 12/03/05 09:30 009				
Acetone	160 J,B	710	ug/kg	SW846 8260B
Trichloroethene	31 J	47	ug/kg	SW846 8260B
Percent Solids	92.5	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-517 12/03/05 09:32 010				
Trichloroethene	17 J	38	ug/kg	SW846 8260B
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-518 12/03/05 09:35 011				
Acetone	110 J,B	660	ug/kg	SW846 8260B
Trichloroethene	20 J	44	ug/kg	SW846 8260B
Percent Solids	97.1	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-519 12/03/05 09:55 012				
Acetone	110 J,B	650	ug/kg	SW846 8260B
Percent Solids	96.8	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-520 12/03/05 09:57 013				
Acetone	120 J,B	640	ug/kg	SW846 8260B
Trichloroethene	39 J	42	ug/kg	SW846 8260B
Percent Solids	94.3	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-521 12/03/05 09:59 014				
Acetone	100 J,B	630	ug/kg	SW846 8260B
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-522 12/03/05 10:00 015				
Acetone	180 J,B	660	ug/kg	SW846 8260B
Percent Solids	97.8	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A5L060207

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SO-17360-120305-DCR-523 12/03/05 10:02 016				
Acetone	100 J,B	600	ug/kg	SW846 8260B
Percent Solids	96.0	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-524 12/03/05 10:05 017				
Acetone	120 J,B	700	ug/kg	SW846 8260B
Methyl acetate	1600	1100	ug/kg	SW846 8260B
Trichloroethene	99	46	ug/kg	SW846 8260B
Percent Solids	95.5	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-525 12/03/05 10:07 018				
Acetone	130 J,B	680	ug/kg	SW846 8260B
Percent Solids	95.9	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-526 12/03/05 10:10 019				
Percent Solids	97.3	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-527 12/03/05 10:12 020				
Acetone	130 J,B	580	ug/kg	SW846 8260B
Percent Solids	96.4	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-528 12/03/05 10:15 021				
Percent Solids	97.8	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-529 12/03/05 10:25 022				
Trichloroethene	38 J	43	ug/kg	SW846 8260B
Percent Solids	96.9	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-530 12/03/05 10:27 023				
Percent Solids	97.6	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-531 12/03/05 10:30 024				
Percent Solids	96.9	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A5L060207

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SO-17360-120305-DCR-532 12/03/05 10:35 025				
Percent Solids	96.5	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-533 12/03/05 10:37 026				
Percent Solids	90.7	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-534 12/03/05 10:40 027				
Percent Solids	94.8	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-535 12/03/05 10:42 028				
Percent Solids	92.8	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-536 12/03/05 10:45 029				
Percent Solids	91.5	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-537 12/03/05 10:47 030				
Methyl acetate	74 J	1000	ug/kg	SW846 8260B
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-538 12/03/05 10:50 031				
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-539 12/03/05 10:52 032				
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-540 12/03/05 11:00 033				
Trichloroethene	2100	44	ug/kg	SW846 8260B
Percent Solids	97.3	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-541 12/03/05 11:02 034				
Trichloroethene	40 J	42	ug/kg	SW846 8260B
Percent Solids	97.8	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A5L060207

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SO-17360-120305-DCR-542 12/03/05 11:05 035				
Trichloroethene	14 J	44	ug/kg	SW846 8260B
Percent Solids	98.9	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-543 12/03/05 11:10 036				
Trichloroethene	26 J	42	ug/kg	SW846 8260B
Percent Solids	98.2	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-544 12/03/05 11:12 037				
Percent Solids	98.6	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-545 12/03/05 11:15 038				
Methyl acetate	800 J	3300	ug/kg	SW846 8260B
Methylcyclohexane	35 J	3300	ug/kg	SW846 8260B
Trichloroethene	12000	140	ug/kg	SW846 8260B
Percent Solids	98.2	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-546 12/03/05 11:20 039				
Trichloroethene	80	46	ug/kg	SW846 8260B
Percent Solids	96.2	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-547 12/03/05 11:25 040				
Trichloroethene	59	42	ug/kg	SW846 8260B
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-548 12/03/05 11:27 041				
Trichloroethene	59	44	ug/kg	SW846 8260B
Percent Solids	98.6	10.0	%	MCAWW 160.3 MOD
SO-17360-120305-DCR-549 12/03/05 11:30 042				
Trichloroethene	17 J	44	ug/kg	SW846 8260B
Percent Solids	98.6	10.0	%	MCAWW 160.3 MOD

ANALYTICAL METHODS SUMMARY

A5L060207

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Total Residue as Percent Solids	MCAWW 160.3 MOD
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A5L060207

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HRGN2	001	SO-17360-120305-DCR-508	12/03/05	09:10
HRGRD	002	SO-17360-120305-DCR-509	12/03/05	09:12
HRGRG	003	SO-17360-120305-DCR-510	12/03/05	09:15
HRGRJ	004	SO-17360-120305-DCR-511	12/03/05	09:17
HRGRL	005	SO-17360-120305-DCR-512	12/03/05	09:20
HRGRM	006	SO-17360-120305-DCR-513	12/03/05	09:22
HRGRP	007	SO-17360-120305-DCR-514	12/03/05	09:25
HRGRT	008	SO-17360-120305-DCR-515	12/03/05	09:27
HRGRW	009	SO-17360-120305-DCR-516	12/03/05	09:30
HRGRX	010	SO-17360-120305-DCR-517	12/03/05	09:32
HRGR7	011	SO-17360-120305-DCR-518	12/03/05	09:35
HRGTD	012	SO-17360-120305-DCR-519	12/03/05	09:55
HRGTG	013	SO-17360-120305-DCR-520	12/03/05	09:57
HRGTP	014	SO-17360-120305-DCR-521	12/03/05	09:59
HRGTT	015	SO-17360-120305-DCR-522	12/03/05	10:00
HRGTW	016	SO-17360-120305-DCR-523	12/03/05	10:02
HRGT1	017	SO-17360-120305-DCR-524	12/03/05	10:05
HRGT3	018	SO-17360-120305-DCR-525	12/03/05	10:07
HRGT7	019	SO-17360-120305-DCR-526	12/03/05	10:10
HRGT8	020	SO-17360-120305-DCR-527	12/03/05	10:12
HRGVA	021	SO-17360-120305-DCR-528	12/03/05	10:15
HRGVE	022	SO-17360-120305-DCR-529	12/03/05	10:25
HRGVJ	023	SO-17360-120305-DCR-530	12/03/05	10:27
HRGVL	024	SO-17360-120305-DCR-531	12/03/05	10:30
HRGVQ	025	SO-17360-120305-DCR-532	12/03/05	10:35
HRGVV	026	SO-17360-120305-DCR-533	12/03/05	10:37
HRGVX	027	SO-17360-120305-DCR-534	12/03/05	10:40
HRGV0	028	SO-17360-120305-DCR-535	12/03/05	10:42
HRGV3	029	SO-17360-120305-DCR-536	12/03/05	10:45
HRGWC	030	SO-17360-120305-DCR-537	12/03/05	10:47
HRGWF	031	SO-17360-120305-DCR-538	12/03/05	10:50
HRGWK	032	SO-17360-120305-DCR-539	12/03/05	10:52
HRGWP	033	SO-17360-120305-DCR-540	12/03/05	11:00
HRGWQ	034	SO-17360-120305-DCR-541	12/03/05	11:02
HRGWR	035	SO-17360-120305-DCR-542	12/03/05	11:05
HRGWW	036	SO-17360-120305-DCR-543	12/03/05	11:10

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SAMPLE SUMMARY

A5L060207

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HRGW0	037	SO-17360-120305-DCR-544	12/03/05	11:12
HRGW2	038	SO-17360-120305-DCR-545	12/03/05	11:15
HRGW3	039	SO-17360-120305-DCR-546	12/03/05	11:20
HRGW6	040	SO-17360-120305-DCR-547	12/03/05	11:25
HRGW7	041	SO-17360-120305-DCR-548	12/03/05	11:27
HRGW8	042	SO-17360-120305-DCR-549	12/03/05	11:30
HRGXF	043	SO-17360-120305-DCR-550	12/03/05	11:35

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-508

GC/MS Volatiles

Lot-Sample #....: A5L060207-001 Work Order #....: HRGN21AC Matrix.....: SO
 Date Sampled....: 12/03/05 09:10 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 1.04
 % Moisture.....: 3.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	110 J,B	650	ug/kg	110
Benzene	ND	43	ug/kg	6.9
Bromodichloromethane	ND	86	ug/kg	13
Bromoform	ND	86	ug/kg	14
Bromomethane	ND	220	ug/kg	27
2-Butanone	ND	650	ug/kg	53
Carbon disulfide	ND	220	ug/kg	22
Carbon tetrachloride	ND	43	ug/kg	13
Chlorobenzene	ND	43	ug/kg	6.8
Chloroethane	ND	220	ug/kg	70
Chloroform	ND	43	ug/kg	13
Chloromethane	ND	220	ug/kg	5.6
Cyclohexane	ND	1000	ug/kg	8.3
Dibromochloromethane	ND	43	ug/kg	7.4
1,2-Dibromo-3-chloro- propane	ND	220	ug/kg	65
1,2-Dibromoethane	ND	220	ug/kg	11
1,2-Dichlorobenzene	ND	86	ug/kg	18
1,3-Dichlorobenzene	ND	86	ug/kg	7.8
1,4-Dichlorobenzene	ND	86	ug/kg	8.5
Dichlorodifluoromethane	ND	86	ug/kg	5.8
1,1-Dichloroethane	ND	43	ug/kg	7.9
1,2-Dichloroethane	ND	43	ug/kg	10
1,1-Dichloroethene	ND	43	ug/kg	8.9
cis-1,2-Dichloroethene	ND	43	ug/kg	15
trans-1,2-Dichloroethene	ND	43	ug/kg	12
1,2-Dichloropropane	ND	43	ug/kg	8.0
cis-1,3-Dichloropropene	ND	43	ug/kg	5.9
trans-1,3-Dichloropropene	ND	43	ug/kg	5.8
Ethylbenzene	ND	43	ug/kg	7.3
2-Hexanone	ND	2200	ug/kg	26
Isopropylbenzene	ND	220	ug/kg	5.5
Methyl acetate	ND	1000	ug/kg	56
Methylene chloride	ND	220	ug/kg	110
Methylcyclohexane	ND	1000	ug/kg	6.1
4-Methyl-2-pentanone	ND	2200	ug/kg	12
Methyl tert-butyl ether	ND	220	ug/kg	11
Styrene	ND	43	ug/kg	30

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-508

GC/MS Volatiles

Lot-Sample #....: A5L060207-001 Work Order #....: HRGN21AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	86	ug/kg	8.8
Tetrachloroethene	ND	43	ug/kg	9.7
Toluene	ND	86	ug/kg	9.8
1,2,4-Trichloro- benzene	ND	220	ug/kg	13
1,1,1-Trichloroethane	ND	43	ug/kg	10
1,1,2-Trichloroethane	ND	43	ug/kg	11
Trichloroethene	1200	43	ug/kg	13
Trichlorofluoromethane	ND	86	ug/kg	8.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	220	ug/kg	11
Vinyl chloride	ND	86	ug/kg	17
Xylenes (total)	ND	130	ug/kg	16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	78	(59 - 138)
1,2-Dichloroethane-d4	81	(61 - 130)
Toluene-d8	90	(60 - 143)
4-Bromofluorobenzene	88	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-509

GC/MS Volatiles

Lot-Sample #....: A5L060207-002 Work Order #....: HRGRD1AC Matrix.....: SO
 Date Sampled....: 12/03/05 09:12 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 1.33
 % Moisture.....: 3.7 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	830	ug/kg	140
Benzene	ND	55	ug/kg	8.8
Bromodichloromethane	ND	110	ug/kg	17
Bromoform	ND	110	ug/kg	18
Bromomethane	ND	280	ug/kg	35
2-Butanone	ND	830	ug/kg	68
Carbon disulfide	ND	280	ug/kg	28
Carbon tetrachloride	ND	55	ug/kg	17
Chlorobenzene	ND	55	ug/kg	8.7
Chloroethane	ND	280	ug/kg	90
Chloroform	ND	55	ug/kg	17
Chloromethane	ND	280	ug/kg	7.2
Cyclohexane	ND	1300	ug/kg	11
Dibromochloromethane	ND	55	ug/kg	9.5
1,2-Dibromo-3-chloro- propane	ND	280	ug/kg	83
1,2-Dibromoethane	ND	280	ug/kg	14
1,2-Dichlorobenzene	ND	110	ug/kg	23
1,3-Dichlorobenzene	ND	110	ug/kg	9.9
1,4-Dichlorobenzene	ND	110	ug/kg	11
Dichlorodifluoromethane	ND	110	ug/kg	7.5
1,1-Dichloroethane	ND	55	ug/kg	10
1,2-Dichloroethane	ND	55	ug/kg	13
1,1-Dichloroethene	ND	55	ug/kg	11
cis-1,2-Dichloroethene	ND	55	ug/kg	19
trans-1,2-Dichloroethene	ND	55	ug/kg	15
1,2-Dichloropropane	ND	55	ug/kg	10
cis-1,3-Dichloropropene	ND	55	ug/kg	7.6
trans-1,3-Dichloropropene	ND	55	ug/kg	7.5
Ethylbenzene	ND	55	ug/kg	9.4
2-Hexanone	ND	2800	ug/kg	33
Isopropylbenzene	ND	280	ug/kg	7.0
Methyl acetate	ND	1300	ug/kg	72
Methylene chloride	ND	280	ug/kg	140
Methylcyclohexane	ND	1300	ug/kg	7.9
4-Methyl-2-pentanone	ND	2800	ug/kg	15
Methyl tert-butyl ether	ND	280	ug/kg	14
Styrene	ND	55	ug/kg	39

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-509

GC/MS Volatiles

Lot-Sample #....: A5L060207-002 Work Order #....: HRGRD1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	11
Tetrachloroethene	ND	55	ug/kg	12
Toluene	ND	110	ug/kg	13
1,2,4-Trichloro- benzene	ND	280	ug/kg	17
1,1,1-Trichloroethane	ND	55	ug/kg	13
1,1,2-Trichloroethane	ND	55	ug/kg	14
Trichloroethene	740	55	ug/kg	17
Trichlorofluoromethane	ND	110	ug/kg	11
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	280	ug/kg	14
Vinyl chloride	ND	110	ug/kg	22
Xylenes (total)	ND	170	ug/kg	21

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	74	(59 - 138)
1,2-Dichloroethane-d4	79	(61 - 130)
Toluene-d8	87	(60 - 143)
4-Bromofluorobenzene	79	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-510

GC/MS Volatiles

Lot-Sample #....: A5L060207-003 Work Order #....: HRGRG1AC Matrix.....: SO
 Date Sampled....: 12/03/05 09:15 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 1.02
 % Moisture.....: 2.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	150 J,B	630	ug/kg	100
Benzene	ND	42	ug/kg	6.7
Bromodichloromethane	ND	83	ug/kg	13
Bromoform	ND	83	ug/kg	14
Bromomethane	ND	210	ug/kg	26
2-Butanone	ND	630	ug/kg	51
Carbon disulfide	ND	210	ug/kg	21
Carbon tetrachloride	ND	42	ug/kg	13
Chlorobenzene	ND	42	ug/kg	6.6
Chloroethane	ND	210	ug/kg	68
Chloroform	ND	42	ug/kg	13
Chloromethane	ND	210	ug/kg	5.4
Cyclohexane	ND	1000	ug/kg	8.0
Dibromochloromethane	ND	42	ug/kg	7.2
1,2-Dibromo-3-chloro- propane	ND	210	ug/kg	63
1,2-Dibromoethane	ND	210	ug/kg	10
1,2-Dichlorobenzene	ND	83	ug/kg	18
1,3-Dichlorobenzene	ND	83	ug/kg	7.5
1,4-Dichlorobenzene	ND	83	ug/kg	8.2
Dichlorodifluoromethane	ND	83	ug/kg	5.6
1,1-Dichloroethane	ND	42	ug/kg	7.6
1,2-Dichloroethane	ND	42	ug/kg	9.7
1,1-Dichloroethene	ND	42	ug/kg	8.7
cis-1,2-Dichloroethene	ND	42	ug/kg	15
trans-1,2-Dichloroethene	ND	42	ug/kg	11
1,2-Dichloropropane	ND	42	ug/kg	7.7
cis-1,3-Dichloropropene	ND	42	ug/kg	5.7
trans-1,3-Dichloropropene	ND	42	ug/kg	5.6
Ethylbenzene	ND	42	ug/kg	7.1
2-Hexanone	ND	2100	ug/kg	25
Isopropylbenzene	ND	210	ug/kg	5.3
Methyl acetate	ND	1000	ug/kg	54
Methylene chloride	ND	210	ug/kg	100
Methylcyclohexane	ND	1000	ug/kg	5.9
4-Methyl-2-pentanone	ND	2100	ug/kg	11
Methyl tert-butyl ether	ND	210	ug/kg	10
Styrene	ND	42	ug/kg	29

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-510

GC/MS Volatiles

Lot-Sample #....: A5L060207-003 Work Order #....: HRGRG1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	83	ug/kg	8.6
Tetrachloroethene	ND	42	ug/kg	9.4
Toluene	ND	83	ug/kg	9.5
1,2,4-Trichloro- benzene	ND	210	ug/kg	13
1,1,1-Trichloroethane	ND	42	ug/kg	9.9
1,1,2-Trichloroethane	ND	42	ug/kg	10
Trichloroethene	74	42	ug/kg	13
Trichlorofluoromethane	ND	83	ug/kg	8.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	210	ug/kg	10
Vinyl chloride	ND	83	ug/kg	17
Xylenes (total)	ND	130	ug/kg	16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	72	(59 - 138)
1,2-Dichloroethane-d4	76	(61 - 130)
Toluene-d8	83	(60 - 143)
4-Bromofluorobenzene	75	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-511

GC/MS Volatiles

Lot-Sample #....: A5L060207-004 Work Order #....: HRGRJ1AC Matrix.....: SO
 Date Sampled....: 12/03/05 09:17 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 1.18
 % Moisture.....: 1.3 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	120 J,B	720	ug/kg	120
Benzene	ND	48	ug/kg	7.6
Bromodichloromethane	ND	96	ug/kg	14
Bromoform	ND	96	ug/kg	16
Bromomethane	ND	240	ug/kg	30
2-Butanone	ND	720	ug/kg	59
Carbon disulfide	ND	240	ug/kg	24
Carbon tetrachloride	ND	48	ug/kg	14
Chlorobenzene	ND	48	ug/kg	7.5
Chloroethane	ND	240	ug/kg	78
Chloroform	ND	48	ug/kg	14
Chloromethane	ND	240	ug/kg	6.2
Cyclohexane	ND	1100	ug/kg	9.2
Dibromochloromethane	ND	48	ug/kg	8.2
1,2-Dibromo-3-chloro- propane	ND	240	ug/kg	72
1,2-Dibromoethane	ND	240	ug/kg	12
1,2-Dichlorobenzene	ND	96	ug/kg	20
1,3-Dichlorobenzene	ND	96	ug/kg	8.6
1,4-Dichlorobenzene	ND	96	ug/kg	9.4
Dichlorodifluoromethane	ND	96	ug/kg	6.5
1,1-Dichloroethane	ND	48	ug/kg	8.7
1,2-Dichloroethane	ND	48	ug/kg	11
1,1-Dichloroethene	ND	48	ug/kg	9.9
cis-1,2-Dichloroethene	ND	48	ug/kg	17
trans-1,2-Dichloroethene	ND	48	ug/kg	13
1,2-Dichloropropane	ND	48	ug/kg	8.8
cis-1,3-Dichloropropene	ND	48	ug/kg	6.6
trans-1,3-Dichloropropene	ND	48	ug/kg	6.5
Ethylbenzene	ND	48	ug/kg	8.1
2-Hexanone	ND	2400	ug/kg	29
Isopropylbenzene	ND	240	ug/kg	6.1
Methyl acetate	ND	1100	ug/kg	62
Methylene chloride	ND	240	ug/kg	120
Methylcyclohexane	ND	1100	ug/kg	6.8
4-Methyl-2-pentanone	ND	2400	ug/kg	13
Methyl tert-butyl ether	ND	240	ug/kg	12
Styrene	ND	48	ug/kg	33

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-511

GC/MS Volatiles

Lot-Sample #....: A5L060207-004 Work Order #....: HRGRJ1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	96	ug/kg	9.8
Tetrachloroethene	ND	48	ug/kg	11
Toluene	ND	96	ug/kg	11
1,2,4-Trichloro- benzene	ND	240	ug/kg	14
1,1,1-Trichloroethane	ND	48	ug/kg	11
1,1,2-Trichloroethane	ND	48	ug/kg	12
Trichloroethene	25 J	48	ug/kg	14
Trichlorofluoromethane	ND	96	ug/kg	9.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	240	ug/kg	12
Vinyl chloride	ND	96	ug/kg	19
Xylenes (total)	ND	140	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	74	(59 - 138)
1,2-Dichloroethane-d4	78	(61 - 130)
Toluene-d8	85	(60 - 143)
4-Bromofluorobenzene	79	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-512

GC/MS Volatiles

Lot-Sample #....: A5L060207-005 Work Order #....: HRGRL1AC Matrix.....: SO
 Date Sampled....: 12/03/05 09:20 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 1.04
 % Moisture.....: 1.3 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	140 J,B	630	ug/kg	100
Benzene	ND	42	ug/kg	6.7
Bromodichloromethane	ND	84	ug/kg	13
Bromoform	ND	84	ug/kg	14
Bromomethane	ND	210	ug/kg	26
2-Butanone	ND	630	ug/kg	52
Carbon disulfide	ND	210	ug/kg	21
Carbon tetrachloride	ND	42	ug/kg	13
Chlorobenzene	ND	42	ug/kg	6.6
Chloroethane	ND	210	ug/kg	68
Chloroform	ND	42	ug/kg	13
Chloromethane	ND	210	ug/kg	5.5
Cyclohexane	ND	1000	ug/kg	8.1
Dibromochloromethane	ND	42	ug/kg	7.3
1,2-Dibromo-3-chloro- propane	ND	210	ug/kg	63
1,2-Dibromoethane	ND	210	ug/kg	10
1,2-Dichlorobenzene	ND	84	ug/kg	18
1,3-Dichlorobenzene	ND	84	ug/kg	7.6
1,4-Dichlorobenzene	ND	84	ug/kg	8.3
Dichlorodifluoromethane	ND	84	ug/kg	5.7
1,1-Dichloroethane	ND	42	ug/kg	7.7
1,2-Dichloroethane	ND	42	ug/kg	9.8
1,1-Dichloroethene	ND	42	ug/kg	8.7
cis-1,2-Dichloroethene	ND	42	ug/kg	15
trans-1,2-Dichloroethene	ND	42	ug/kg	12
1,2-Dichloropropane	ND	42	ug/kg	7.8
cis-1,3-Dichloropropene	ND	42	ug/kg	5.8
trans-1,3-Dichloropropene	ND	42	ug/kg	5.7
Ethylbenzene	ND	42	ug/kg	7.2
2-Hexanone	ND	2100	ug/kg	25
Isopropylbenzene	ND	210	ug/kg	5.4
Methyl acetate	80 J	1000	ug/kg	55
Methylene chloride	ND	210	ug/kg	100
Methylcyclohexane	ND	1000	ug/kg	6.0
4-Methyl-2-pentanone	ND	2100	ug/kg	12
Methyl tert-butyl ether	ND	210	ug/kg	11
Styrene	ND	42	ug/kg	30

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-512

GC/MS Volatiles

Lot-Sample #....: A5L060207-005 Work Order #....: HRGRL1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	84	ug/kg	8.6
Tetrachloroethene	ND	42	ug/kg	9.5
Toluene	ND	84	ug/kg	9.6
1,2,4-Trichloro- benzene	ND	210	ug/kg	13
1,1,1-Trichloroethane	ND	42	ug/kg	10
1,1,2-Trichloroethane	ND	42	ug/kg	10
Trichloroethene	160	42	ug/kg	13
Trichlorofluoromethane	ND	84	ug/kg	8.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	210	ug/kg	11
Vinyl chloride	ND	84	ug/kg	17
Xylenes (total)	ND	130	ug/kg	16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	76	(59 - 138)
1,2-Dichloroethane-d4	80	(61 - 130)
Toluene-d8	87	(60 - 143)
4-Bromofluorobenzene	80	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-513

GC/MS Volatiles

Lot-Sample #....: A5L060207-006 Work Order #....: HRGRM1AC Matrix.....: SO
 Date Sampled....: 12/03/05 09:22 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 1.06
 % Moisture.....: 2.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	120 J,B	650	ug/kg	110
Benzene	ND	43	ug/kg	7.0
Bromodichloromethane	ND	87	ug/kg	13
Bromoform	ND	87	ug/kg	14
Bromomethane	ND	220	ug/kg	27
2-Butanone	ND	650	ug/kg	53
Carbon disulfide	ND	220	ug/kg	22
Carbon tetrachloride	ND	43	ug/kg	13
Chlorobenzene	ND	43	ug/kg	6.8
Chloroethane	ND	220	ug/kg	71
Chloroform	ND	43	ug/kg	13
Chloromethane	ND	220	ug/kg	5.7
Cyclohexane	ND	1000	ug/kg	8.4
Dibromochloromethane	ND	43	ug/kg	7.5
1,2-Dibromo-3-chloro- propane	ND	220	ug/kg	65
1,2-Dibromoethane	ND	220	ug/kg	11
1,2-Dichlorobenzene	ND	87	ug/kg	18
1,3-Dichlorobenzene	ND	87	ug/kg	7.8
1,4-Dichlorobenzene	ND	87	ug/kg	8.6
Dichlorodifluoromethane	ND	87	ug/kg	5.9
1,1-Dichloroethane	ND	43	ug/kg	7.9
1,2-Dichloroethane	ND	43	ug/kg	10
1,1-Dichloroethene	ND	43	ug/kg	9.0
cis-1,2-Dichloroethene	ND	43	ug/kg	15
trans-1,2-Dichloroethene	ND	43	ug/kg	12
1,2-Dichloropropane	ND	43	ug/kg	8.0
cis-1,3-Dichloropropene	ND	43	ug/kg	6.0
trans-1,3-Dichloropropene	ND	43	ug/kg	5.9
Ethylbenzene	ND	43	ug/kg	7.4
2-Hexanone	ND	2200	ug/kg	26
Isopropylbenzene	ND	220	ug/kg	5.5
Methyl acetate	ND	1000	ug/kg	57
Methylene chloride	ND	220	ug/kg	110
Methylcyclohexane	ND	1000	ug/kg	6.2
4-Methyl-2-pentanone	ND	2200	ug/kg	12
Methyl tert-butyl ether	ND	220	ug/kg	11
Styrene	ND	43	ug/kg	30

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-513

GC/MS Volatiles

Lot-Sample #....: A5L060207-006 Work Order #....: HRGRM1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	87	ug/kg	8.9
Tetrachloroethene	ND	43	ug/kg	9.8
Toluene	ND	87	ug/kg	9.9
1,2,4-Trichloro- benzene	ND	220	ug/kg	13
1,1,1-Trichloroethane	ND	43	ug/kg	10
1,1,2-Trichloroethane	ND	43	ug/kg	11
Trichloroethene	ND	43	ug/kg	13
Trichlorofluoromethane	ND	87	ug/kg	9.0
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	220	ug/kg	11
Vinyl chloride	ND	87	ug/kg	17
Xylenes (total)	ND	130	ug/kg	16
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	71	(59 - 138)		
1,2-Dichloroethane-d4	77	(61 - 130)		
Toluene-d8	83	(60 - 143)		
4-Bromofluorobenzene	78	(47 - 158)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-514

GC/MS Volatiles

Lot-Sample #....: A5L060207-007 Work Order #....: HRGRP1AC Matrix.....: SO
 Date Sampled....: 12/03/05 09:25 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 1.1
 % Moisture.....: 2.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	110 J,B	670	ug/kg	110
Benzene	ND	45	ug/kg	7.2
Bromodichloromethane	ND	90	ug/kg	13
Bromoform	ND	90	ug/kg	15
Bromomethane	ND	220	ug/kg	28
2-Butanone	ND	670	ug/kg	55
Carbon disulfide	ND	220	ug/kg	22
Carbon tetrachloride	ND	45	ug/kg	13
Chlorobenzene	ND	45	ug/kg	7.1
Chloroethane	ND	220	ug/kg	73
Chloroform	ND	45	ug/kg	13
Chloromethane	ND	220	ug/kg	5.8
Cyclohexane	ND	1100	ug/kg	8.6
Dibromochloromethane	ND	45	ug/kg	7.7
1,2-Dibromo-3-chloro- propane	ND	220	ug/kg	67
1,2-Dibromoethane	ND	220	ug/kg	11
1,2-Dichlorobenzene	ND	90	ug/kg	19
1,3-Dichlorobenzene	ND	90	ug/kg	8.1
1,4-Dichlorobenzene	ND	90	ug/kg	8.9
Dichlorodifluoromethane	ND	90	ug/kg	6.1
1,1-Dichloroethane	ND	45	ug/kg	8.2
1,2-Dichloroethane	ND	45	ug/kg	10
1,1-Dichloroethene	ND	45	ug/kg	9.3
cis-1,2-Dichloroethene	ND	45	ug/kg	16
trans-1,2-Dichloroethene	ND	45	ug/kg	12
1,2-Dichloropropane	ND	45	ug/kg	8.3
cis-1,3-Dichloropropene	ND	45	ug/kg	6.2
trans-1,3-Dichloropropene	ND	45	ug/kg	6.1
Ethylbenzene	ND	45	ug/kg	7.6
2-Hexanone	ND	2200	ug/kg	27
Isopropylbenzene	ND	220	ug/kg	5.7
Methyl acetate	ND	1100	ug/kg	58
Methylene chloride	ND	220	ug/kg	110
Methylcyclohexane	ND	1100	ug/kg	6.4
4-Methyl-2-pentanone	ND	2200	ug/kg	12
Methyl tert-butyl ether	ND	220	ug/kg	11
Styrene	ND	45	ug/kg	31

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-514

GC/MS Volatiles

Lot-Sample #....: A5L060207-007 Work Order #....: HRGRP1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	90	ug/kg	9.2
Tetrachloroethene	ND	45	ug/kg	10
Toluene	ND	90	ug/kg	10
1,2,4-Trichloro- benzene	ND	220	ug/kg	13
1,1,1-Trichloroethane	ND	45	ug/kg	11
1,1,2-Trichloroethane	ND	45	ug/kg	11
Trichloroethene	16 J	45	ug/kg	13
Trichlorofluoromethane	ND	90	ug/kg	9.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	220	ug/kg	11
Vinyl chloride	ND	90	ug/kg	18
Xylenes (total)	ND	130	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	74	(59 - 138)
1,2-Dichloroethane-d4	78	(61 - 130)
Toluene-d8	85	(60 - 143)
4-Bromofluorobenzene	78	(47 - 158)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-515

GC/MS Volatiles

Lot-Sample #....: A5L060207-008 Work Order #....: HRGRT1AC Matrix.....: SO
 Date Sampled....: 12/03/05 09:27 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 1.1
 % Moisture.....: 3.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	170 J,B	680	ug/kg	110
Benzene	ND	46	ug/kg	7.3
Bromodichloromethane	ND	91	ug/kg	14
Bromoform	ND	91	ug/kg	15
Bromomethane	ND	230	ug/kg	28
2-Butanone	ND	680	ug/kg	56
Carbon disulfide	ND	230	ug/kg	23
Carbon tetrachloride	ND	46	ug/kg	14
Chlorobenzene	ND	46	ug/kg	7.2
Chloroethane	ND	230	ug/kg	74
Chloroform	ND	46	ug/kg	14
Chloromethane	ND	230	ug/kg	5.9
Cyclohexane	ND	1100	ug/kg	8.8
Dibromochloromethane	ND	46	ug/kg	7.9
1,2-Dibromo-3-chloro- propane	ND	230	ug/kg	68
1,2-Dibromoethane	ND	230	ug/kg	11
1,2-Dichlorobenzene	ND	91	ug/kg	19
1,3-Dichlorobenzene	ND	91	ug/kg	8.2
1,4-Dichlorobenzene	ND	91	ug/kg	9.0
Dichlorodifluoromethane	ND	91	ug/kg	6.1
1,1-Dichloroethane	ND	46	ug/kg	8.3
1,2-Dichloroethane	ND	46	ug/kg	11
1,1-Dichloroethene	ND	46	ug/kg	9.5
cis-1,2-Dichloroethene	ND	46	ug/kg	16
trans-1,2-Dichloroethene	ND	46	ug/kg	13
1,2-Dichloropropane	ND	46	ug/kg	8.4
cis-1,3-Dichloropropene	ND	46	ug/kg	6.3
trans-1,3-Dichloropropene	ND	46	ug/kg	6.1
Ethylbenzene	ND	46	ug/kg	7.7
2-Hexanone	ND	2300	ug/kg	27
Isopropylbenzene	ND	230	ug/kg	5.8
Methyl acetate	ND	1100	ug/kg	59
Methylene chloride	ND	230	ug/kg	110
Methylcyclohexane	ND	1100	ug/kg	6.5
4-Methyl-2-pentanone	ND	2300	ug/kg	13
Methyl tert-butyl ether	ND	230	ug/kg	11
Styrene	ND	46	ug/kg	32

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-515

GC/MS Volatiles

Lot-Sample #....: A5L060207-008 Work Order #....: HRGRT1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	91	ug/kg	9.3
Tetrachloroethene	ND	46	ug/kg	10
Toluene	ND	91	ug/kg	10
1,2,4-Trichloro- benzene	ND	230	ug/kg	14
1,1,1-Trichloroethane	ND	46	ug/kg	11
1,1,2-Trichloroethane	ND	46	ug/kg	11
Trichloroethene	20 J	46	ug/kg	14
Trichlorofluoromethane	ND	91	ug/kg	9.5
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	230	ug/kg	11
Vinyl chloride	ND	91	ug/kg	18
Xylenes (total)	ND	140	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	73	(59 - 138)
1,2-Dichloroethane-d4	79	(61 - 130)
Toluene-d8	86	(60 - 143)
4-Bromofluorobenzene	79	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-516

GC/MS Volatiles

Lot-Sample #....: A5L060207-009 Work Order #....: HRGRW1AC Matrix.....: SO
 Date Sampled....: 12/03/05 09:30 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 1.09
 % Moisture.....: 7.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	160 J,B	710	ug/kg	120
Benzene	ND	47	ug/kg	7.5
Bromodichloromethane	ND	94	ug/kg	14
Bromoform	ND	94	ug/kg	15
Bromomethane	ND	240	ug/kg	29
2-Butanone	ND	710	ug/kg	58
Carbon disulfide	ND	240	ug/kg	24
Carbon tetrachloride	ND	47	ug/kg	14
Chlorobenzene	ND	47	ug/kg	7.4
Chloroethane	ND	240	ug/kg	77
Chloroform	ND	47	ug/kg	14
Chloromethane	ND	240	ug/kg	6.1
Cyclohexane	ND	1100	ug/kg	9.1
Dibromochloromethane	ND	47	ug/kg	8.1
1,2-Dibromo-3-chloro- propane	ND	240	ug/kg	71
1,2-Dibromoethane	ND	240	ug/kg	12
1,2-Dichlorobenzene	ND	94	ug/kg	20
1,3-Dichlorobenzene	ND	94	ug/kg	8.5
1,4-Dichlorobenzene	ND	94	ug/kg	9.3
Dichlorodifluoromethane	ND	94	ug/kg	6.4
1,1-Dichloroethane	ND	47	ug/kg	8.6
1,2-Dichloroethane	ND	47	ug/kg	11
1,1-Dichloroethene	ND	47	ug/kg	9.8
cis-1,2-Dichloroethene	ND	47	ug/kg	16
trans-1,2-Dichloroethene	ND	47	ug/kg	13
1,2-Dichloropropane	ND	47	ug/kg	8.7
cis-1,3-Dichloropropene	ND	47	ug/kg	6.5
trans-1,3-Dichloropropene	ND	47	ug/kg	6.4
Ethylbenzene	ND	47	ug/kg	8.0
2-Hexanone	ND	2400	ug/kg	28
Isopropylbenzene	ND	240	ug/kg	6.0
Methyl acetate	ND	1100	ug/kg	61
Methylene chloride	ND	240	ug/kg	120
Methylcyclohexane	ND	1100	ug/kg	6.7
4-Methyl-2-pentanone	ND	2400	ug/kg	13
Methyl tert-butyl ether	ND	240	ug/kg	12
Styrene	ND	47	ug/kg	33

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-516

GC/MS Volatiles

Lot-Sample #....: A5L060207-009 Work Order #....: HRGRW1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	94	ug/kg	9.7
Tetrachloroethene	ND	47	ug/kg	11
Toluene	ND	94	ug/kg	11
1,2,4-Trichloro- benzene	ND	240	ug/kg	14
1,1,1-Trichloroethane	ND	47	ug/kg	11
1,1,2-Trichloroethane	ND	47	ug/kg	12
Trichloroethene	31 J	47	ug/kg	14
Trichlorofluoromethane	ND	94	ug/kg	9.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	240	ug/kg	12
Vinyl chloride	ND	94	ug/kg	19
Xylenes (total)	ND	140	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	69	(59 - 138)
1,2-Dichloroethane-d4	75	(61 - 130)
Toluene-d8	82	(60 - 143)
4-Bromofluorobenzene	75	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-517

GC/MS Volatiles

Lot-Sample #....: A5L060207-010 Work Order #....: HRGRX1AC Matrix.....: SO
 Date Sampled....: 12/03/05 09:32 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 0.92
 % Moisture.....: 2.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	560	ug/kg	93
Benzene	ND	38	ug/kg	6.0
Bromodichloromethane	ND	75	ug/kg	11
Bromoform	ND	75	ug/kg	12
Bromomethane	ND	190	ug/kg	23
2-Butanone	ND	560	ug/kg	46
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	38	ug/kg	11
Chlorobenzene	ND	38	ug/kg	5.9
Chloroethane	ND	190	ug/kg	61
Chloroform	ND	38	ug/kg	11
Chloromethane	ND	190	ug/kg	4.9
Cyclohexane	ND	900	ug/kg	7.2
Dibromochloromethane	ND	38	ug/kg	6.5
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	56
1,2-Dibromoethane	ND	190	ug/kg	9.3
1,2-Dichlorobenzene	ND	75	ug/kg	16
1,3-Dichlorobenzene	ND	75	ug/kg	6.8
1,4-Dichlorobenzene	ND	75	ug/kg	7.4
Dichlorodifluoromethane	ND	75	ug/kg	5.1
1,1-Dichloroethane	ND	38	ug/kg	6.9
1,2-Dichloroethane	ND	38	ug/kg	8.7
1,1-Dichloroethene	ND	38	ug/kg	7.8
cis-1,2-Dichloroethene	ND	38	ug/kg	13
trans-1,2-Dichloroethene	ND	38	ug/kg	10
1,2-Dichloropropane	ND	38	ug/kg	6.9
cis-1,3-Dichloropropene	ND	38	ug/kg	5.2
trans-1,3-Dichloropropene	ND	38	ug/kg	5.1
Ethylbenzene	ND	38	ug/kg	6.4
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.8
Methyl acetate	ND	900	ug/kg	49
Methylene chloride	ND	190	ug/kg	93
Methylcyclohexane	ND	900	ug/kg	5.4
4-Methyl-2-pentanone	ND	1900	ug/kg	10
Methyl tert-butyl ether	ND	190	ug/kg	9.4
Styrene	ND	38	ug/kg	26

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-517

GC/MS Volatiles

Lot-Sample #....: A5L060207-010 Work Order #....: HRGRX1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	75	ug/kg	7.7
Tetrachloroethene	ND	38	ug/kg	8.4
Toluene	ND	75	ug/kg	8.5
1,2,4-Trichloro- benzene	ND	190	ug/kg	11
1,1,1-Trichloroethane	ND	38	ug/kg	8.9
1,1,2-Trichloroethane	ND	38	ug/kg	9.3
Trichloroethene	17 J	38	ug/kg	11
Trichlorofluoromethane	ND	75	ug/kg	7.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.4
Vinyl chloride	ND	75	ug/kg	15
Xylenes (total)	ND	110	ug/kg	14
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	69	(59 - 138)		
1,2-Dichloroethane-d4	76	(61 - 130)		
Toluene-d8	82	(60 - 143)		
4-Bromofluorobenzene	75	(47 - 158)		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-518

GC/MS Volatiles

Lot-Sample #....: A5L060207-011 Work Order #....: HRGR71AC Matrix.....: SO
 Date Sampled....: 12/03/05 09:35 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 1.06
 % Moisture.....: 2.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	110 J,B	660	ug/kg	110
Benzene	ND	44	ug/kg	7.0
Bromodichloromethane	ND	87	ug/kg	13
Bromoform	ND	87	ug/kg	14
Bromomethane	ND	220	ug/kg	27
2-Butanone	ND	660	ug/kg	53
Carbon disulfide	ND	220	ug/kg	22
Carbon tetrachloride	ND	44	ug/kg	13
Chlorobenzene	ND	44	ug/kg	6.9
Chloroethane	ND	220	ug/kg	71
Chloroform	ND	44	ug/kg	13
Chloromethane	ND	220	ug/kg	5.7
Cyclohexane	ND	1000	ug/kg	8.4
Dibromochloromethane	ND	44	ug/kg	7.5
1,2-Dibromo-3-chloro- propane	ND	220	ug/kg	66
1,2-Dibromoethane	ND	220	ug/kg	11
1,2-Dichlorobenzene	ND	87	ug/kg	19
1,3-Dichlorobenzene	ND	87	ug/kg	7.9
1,4-Dichlorobenzene	ND	87	ug/kg	8.6
Dichlorodifluoromethane	ND	87	ug/kg	5.9
1,1-Dichloroethane	ND	44	ug/kg	8.0
1,2-Dichloroethane	ND	44	ug/kg	10
1,1-Dichloroethene	ND	44	ug/kg	9.1
cis-1,2-Dichloroethene	ND	44	ug/kg	15
trans-1,2-Dichloroethene	ND	44	ug/kg	12
1,2-Dichloropropane	ND	44	ug/kg	8.1
cis-1,3-Dichloropropene	ND	44	ug/kg	6.0
trans-1,3-Dichloropropene	ND	44	ug/kg	5.9
Ethylbenzene	ND	44	ug/kg	7.4
2-Hexanone	ND	2200	ug/kg	26
Isopropylbenzene	ND	220	ug/kg	5.6
Methyl acetate	ND	1000	ug/kg	57
Methylene chloride	ND	220	ug/kg	110
Methylcyclohexane	ND	1000	ug/kg	6.2
4-Methyl-2-pentanone	ND	2200	ug/kg	12
Methyl tert-butyl ether	ND	220	ug/kg	11
Styrene	ND	44	ug/kg	31

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-518

GC/MS Volatiles

Lot-Sample #....: A5L060207-011 Work Order #....: HRGR71AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	87	ug/kg	9.0
Tetrachloroethene	ND	44	ug/kg	9.8
Toluene	ND	87	ug/kg	9.9
1,2,4-Trichloro- benzene	ND	220	ug/kg	13
1,1,1-Trichloroethane	ND	44	ug/kg	10
1,1,2-Trichloroethane	ND	44	ug/kg	11
Trichloroethene	20 J	44	ug/kg	13
Trichlorofluoromethane	ND	87	ug/kg	9.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	220	ug/kg	11
Vinyl chloride	ND	87	ug/kg	17
Xylenes (total)	ND	130	ug/kg	16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	71	(59 - 138)
1,2-Dichloroethane-d4	76	(61 - 130)
Toluene-d8	84	(60 - 143)
4-Bromofluorobenzene	75	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-519

GC/MS Volatiles

Lot-Sample #....: A5L060207-012 Work Order #....: HRGTD1AC Matrix.....: SO
 Date Sampled....: 12/03/05 09:55 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 1.05
 % Moisture.....: 3.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	110 J,B	650	ug/kg	110
Benzene	ND	43	ug/kg	6.9
Bromodichloromethane	ND	87	ug/kg	13
Bromoform	ND	87	ug/kg	14
Bromomethane	ND	220	ug/kg	27
2-Butanone	ND	650	ug/kg	53
Carbon disulfide	ND	220	ug/kg	22
Carbon tetrachloride	ND	43	ug/kg	13
Chlorobenzene	ND	43	ug/kg	6.8
Chloroethane	ND	220	ug/kg	71
Chloroform	ND	43	ug/kg	13
Chloromethane	ND	220	ug/kg	5.6
Cyclohexane	ND	1000	ug/kg	8.4
Dibromochloromethane	ND	43	ug/kg	7.5
1,2-Dibromo-3-chloro- propane	ND	220	ug/kg	65
1,2-Dibromoethane	ND	220	ug/kg	11
1,2-Dichlorobenzene	ND	87	ug/kg	18
1,3-Dichlorobenzene	ND	87	ug/kg	7.8
1,4-Dichlorobenzene	ND	87	ug/kg	8.6
Dichlorodifluoromethane	ND	87	ug/kg	5.9
1,1-Dichloroethane	ND	43	ug/kg	7.9
1,2-Dichloroethane	ND	43	ug/kg	10
1,1-Dichloroethene	ND	43	ug/kg	9.0
cis-1,2-Dichloroethene	ND	43	ug/kg	15
trans-1,2-Dichloroethene	ND	43	ug/kg	12
1,2-Dichloropropane	ND	43	ug/kg	8.0
cis-1,3-Dichloropropene	ND	43	ug/kg	6.0
trans-1,3-Dichloropropene	ND	43	ug/kg	5.9
Ethylbenzene	ND	43	ug/kg	7.4
2-Hexanone	ND	2200	ug/kg	26
Isopropylbenzene	ND	220	ug/kg	5.5
Methyl acetate	ND	1000	ug/kg	56
Methylene chloride	ND	220	ug/kg	110
Methylcyclohexane	ND	1000	ug/kg	6.2
4-Methyl-2-pentanone	ND	2200	ug/kg	12
Methyl tert-butyl ether	ND	220	ug/kg	11
Styrene	ND	43	ug/kg	30

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-519

GC/MS Volatiles

Lot-Sample #....: A5L060207-012 Work Order #....: HRGTD1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	87	ug/kg	8.9
Tetrachloroethene	ND	43	ug/kg	9.8
Toluene	ND	87	ug/kg	9.9
1,2,4-Trichloro- benzene	ND	220	ug/kg	13
1,1,1-Trichloroethane	ND	43	ug/kg	10
1,1,2-Trichloroethane	ND	43	ug/kg	11
Trichloroethene	ND	43	ug/kg	13
Trichlorofluoromethane	ND	87	ug/kg	9.0
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	220	ug/kg	11
Vinyl chloride	ND	87	ug/kg	17
Xylenes (total)	ND	130	ug/kg	16
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	73	(59 - 138)		
1,2-Dichloroethane-d4	77	(61 - 130)		
Toluene-d8	83	(60 - 143)		
4-Bromofluorobenzene	74	(47 - 158)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-520

GC/MS Volatiles

Lot-Sample #....: A5L060207-013 Work Order #....: HRGTG1AC Matrix.....: SO
 Date Sampled....: 12/03/05 09:57 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 1
 % Moisture.....: 5.7 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	120 J,B	640	ug/kg	100
Benzene	ND	42	ug/kg	6.8
Bromodichloromethane	ND	85	ug/kg	13
Bromoform	ND	85	ug/kg	14
Bromomethane	ND	210	ug/kg	27
2-Butanone	ND	640	ug/kg	52
Carbon disulfide	ND	210	ug/kg	21
Carbon tetrachloride	ND	42	ug/kg	13
Chlorobenzene	ND	42	ug/kg	6.7
Chloroethane	ND	210	ug/kg	69
Chloroform	ND	42	ug/kg	13
Chloromethane	ND	210	ug/kg	5.5
Cyclohexane	ND	1000	ug/kg	8.2
Dibromochloromethane	ND	42	ug/kg	7.3
1,2-Dibromo-3-chloro- propane	ND	210	ug/kg	64
1,2-Dibromoethane	ND	210	ug/kg	10
1,2-Dichlorobenzene	ND	85	ug/kg	18
1,3-Dichlorobenzene	ND	85	ug/kg	7.6
1,4-Dichlorobenzene	ND	85	ug/kg	8.4
Dichlorodifluoromethane	ND	85	ug/kg	5.7
1,1-Dichloroethane	ND	42	ug/kg	7.7
1,2-Dichloroethane	ND	42	ug/kg	9.9
1,1-Dichloroethene	ND	42	ug/kg	8.8
cis-1,2-Dichloroethene	ND	42	ug/kg	15
trans-1,2-Dichloroethene	ND	42	ug/kg	12
1,2-Dichloropropane	ND	42	ug/kg	7.8
cis-1,3-Dichloropropene	ND	42	ug/kg	5.8
trans-1,3-Dichloropropene	ND	42	ug/kg	5.7
Ethylbenzene	ND	42	ug/kg	7.2
2-Hexanone	ND	2100	ug/kg	25
Isopropylbenzene	ND	210	ug/kg	5.4
Methyl acetate	ND	1000	ug/kg	55
Methylene chloride	ND	210	ug/kg	100
Methylcyclohexane	ND	1000	ug/kg	6.0
4-Methyl-2-pentanone	ND	2100	ug/kg	12
Methyl tert-butyl ether	ND	210	ug/kg	11
Styrene	ND	42	ug/kg	30

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-520

GC/MS Volatiles

Lot-Sample #....: A5L060207-013 Work Order #....: HRGTG1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	85	ug/kg	8.7
Tetrachloroethene	ND	42	ug/kg	9.5
Toluene	ND	85	ug/kg	9.6
1,2,4-Trichloro- benzene	ND	210	ug/kg	13
1,1,1-Trichloroethane	ND	42	ug/kg	10
1,1,2-Trichloroethane	ND	42	ug/kg	10
Trichloroethene	39 J	42	ug/kg	13
Trichlorofluoromethane	ND	85	ug/kg	8.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	210	ug/kg	11
Vinyl chloride	ND	85	ug/kg	17
Xylenes (total)	ND	130	ug/kg	16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	73	(59 - 138)
1,2-Dichloroethane-d4	78	(61 - 130)
Toluene-d8	84	(60 - 143)
4-Bromofluorobenzene	80	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-521

GC/MS Volatiles

Lot-Sample #....: A5L060207-014 **Work Order #....:** HRGTP1AC **Matrix.....:** SO
Date Sampled....: 12/03/05 09:59 **Date Received...:** 12/06/05
Prep Date.....: 12/07/05 **Analysis Date...:** 12/12/05
Prep Batch #....: 5346611
Dilution Factor: 1.03
% Moisture.....: 2.6 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	100 J,B	630	ug/kg	100
Benzene	ND	42	ug/kg	6.8
Bromodichloromethane	ND	85	ug/kg	13
Bromoform	ND	85	ug/kg	14
Bromomethane	ND	210	ug/kg	26
2-Butanone	ND	630	ug/kg	52
Carbon disulfide	ND	210	ug/kg	21
Carbon tetrachloride	ND	42	ug/kg	13
Chlorobenzene	ND	42	ug/kg	6.7
Chloroethane	ND	210	ug/kg	69
Chloroform	ND	42	ug/kg	13
Chloromethane	ND	210	ug/kg	5.5
Cyclohexane	ND	1000	ug/kg	8.1
Dibromochloromethane	ND	42	ug/kg	7.3
1,2-Dibromo-3-chloro- propane	ND	210	ug/kg	63
1,2-Dibromoethane	ND	210	ug/kg	10
1,2-Dichlorobenzene	ND	85	ug/kg	18
1,3-Dichlorobenzene	ND	85	ug/kg	7.6
1,4-Dichlorobenzene	ND	85	ug/kg	8.3
Dichlorodifluoromethane	ND	85	ug/kg	5.7
1,1-Dichloroethane	ND	42	ug/kg	7.7
1,2-Dichloroethane	ND	42	ug/kg	9.8
1,1-Dichloroethene	ND	42	ug/kg	8.8
cis-1,2-Dichloroethene	ND	42	ug/kg	15
trans-1,2-Dichloroethene	ND	42	ug/kg	12
1,2-Dichloropropane	ND	42	ug/kg	7.8
cis-1,3-Dichloropropene	ND	42	ug/kg	5.8
trans-1,3-Dichloropropene	ND	42	ug/kg	5.7
Ethylbenzene	ND	42	ug/kg	7.2
2-Hexanone	ND	2100	ug/kg	25
Isopropylbenzene	ND	210	ug/kg	5.4
Methyl acetate	ND	1000	ug/kg	55
Methylene chloride	ND	210	ug/kg	100
Methylcyclohexane	ND	1000	ug/kg	6.0
4-Methyl-2-pentanone	ND	2100	ug/kg	12
Methyl tert-butyl ether	ND	210	ug/kg	11
Styrene	ND	42	ug/kg	30

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-521

GC/MS Volatiles

Lot-Sample #....: A5L060207-014 Work Order #....: HRGTP1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	85	ug/kg	8.7
Tetrachloroethene	ND	42	ug/kg	9.5
Toluene	ND	85	ug/kg	9.6
1,2,4-Trichloro- benzene	ND	210	ug/kg	13
1,1,1-Trichloroethane	ND	42	ug/kg	10
1,1,2-Trichloroethane	ND	42	ug/kg	10
Trichloroethene	ND	42	ug/kg	13
Trichlorofluoromethane	ND	85	ug/kg	8.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	210	ug/kg	11
Vinyl chloride	ND	85	ug/kg	17
Xylenes (total)	ND	130	ug/kg	16
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	72	(59 - 138)		
1,2-Dichloroethane-d4	77	(61 - 130)		
Toluene-d8	83	(60 - 143)		
4-Bromofluorobenzene	79	(47 - 158)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-522

GC/MS Volatiles

Lot-Sample #....: A5L060207-015 Work Order #....: HRGTT1AC Matrix.....: SO
 Date Sampled....: 12/03/05 10:00 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 1.08
 % Moisture.....: 2.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	180 J,B	660	ug/kg	110
Benzene	ND	44	ug/kg	7.1
Bromodichloromethane	ND	88	ug/kg	13
Bromoform	ND	88	ug/kg	14
Bromomethane	ND	220	ug/kg	28
2-Butanone	ND	660	ug/kg	54
Carbon disulfide	ND	220	ug/kg	22
Carbon tetrachloride	ND	44	ug/kg	13
Chlorobenzene	ND	44	ug/kg	7.0
Chloroethane	ND	220	ug/kg	72
Chloroform	ND	44	ug/kg	13
Chloromethane	ND	220	ug/kg	5.7
Cyclohexane	ND	1100	ug/kg	8.5
Dibromochloromethane	ND	44	ug/kg	7.6
1,2-Dibromo-3-chloro- propane	ND	220	ug/kg	66
1,2-Dibromoethane	ND	220	ug/kg	11
1,2-Dichlorobenzene	ND	88	ug/kg	19
1,3-Dichlorobenzene	ND	88	ug/kg	7.9
1,4-Dichlorobenzene	ND	88	ug/kg	8.7
Dichlorodifluoromethane	ND	88	ug/kg	6.0
1,1-Dichloroethane	ND	44	ug/kg	8.1
1,2-Dichloroethane	ND	44	ug/kg	10
1,1-Dichloroethene	ND	44	ug/kg	9.2
cis-1,2-Dichloroethene	ND	44	ug/kg	15
trans-1,2-Dichloroethene	ND	44	ug/kg	12
1,2-Dichloropropane	ND	44	ug/kg	8.2
cis-1,3-Dichloropropene	ND	44	ug/kg	6.1
trans-1,3-Dichloropropene	ND	44	ug/kg	6.0
Ethylbenzene	ND	44	ug/kg	7.5
2-Hexanone	ND	2200	ug/kg	26
Isopropylbenzene	ND	220	ug/kg	5.6
Methyl acetate	ND	1100	ug/kg	57
Methylene chloride	ND	220	ug/kg	110
Methylcyclohexane	ND	1100	ug/kg	6.3
4-Methyl-2-pentanone	ND	2200	ug/kg	12
Methyl tert-butyl ether	ND	220	ug/kg	11
Styrene	ND	44	ug/kg	31

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-522

GC/MS Volatiles

Lot-Sample #...: A5L060207-015 Work Order #...: HRGTT1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	88	ug/kg	9.1
Tetrachloroethene	ND	44	ug/kg	9.9
Toluene	ND	88	ug/kg	10
1,2,4-Trichloro- benzene	ND	220	ug/kg	13
1,1,1-Trichloroethane	ND	44	ug/kg	10
1,1,2-Trichloroethane	ND	44	ug/kg	11
Trichloroethene	ND	44	ug/kg	13
Trichlorofluoromethane	ND	88	ug/kg	9.2
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	220	ug/kg	11
Vinyl chloride	ND	88	ug/kg	18
Xylenes (total)	ND	130	ug/kg	17
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	70	(59 - 138)		
1,2-Dichloroethane-d4	77	(61 - 130)		
Toluene-d8	81	(60 - 143)		
4-Bromofluorobenzene	77	(47 - 158)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-523

GC/MS Volatiles

Lot-Sample #....: A5L060207-016 Work Order #....: HRGTW1AC Matrix.....: SO
 Date Sampled....: 12/03/05 10:02 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 0.96
 % Moisture.....: 4.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	100 J,B	600	ug/kg	99
Benzene	ND	40	ug/kg	6.4
Bromodichloromethane	ND	80	ug/kg	12
Bromoform	ND	80	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	600	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.3
Chloroethane	ND	200	ug/kg	65
Chloroform	ND	40	ug/kg	12
Chloromethane	ND	200	ug/kg	5.2
Cyclohexane	ND	960	ug/kg	7.7
Dibromochloromethane	ND	40	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	60
1,2-Dibromoethane	ND	200	ug/kg	9.9
1,2-Dichlorobenzene	ND	80	ug/kg	17
1,3-Dichlorobenzene	ND	80	ug/kg	7.2
1,4-Dichlorobenzene	ND	80	ug/kg	7.9
Dichlorodifluoromethane	ND	80	ug/kg	5.4
1,1-Dichloroethane	ND	40	ug/kg	7.3
1,2-Dichloroethane	ND	40	ug/kg	9.3
1,1-Dichloroethene	ND	40	ug/kg	8.3
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.4
cis-1,3-Dichloropropene	ND	40	ug/kg	5.5
trans-1,3-Dichloropropene	ND	40	ug/kg	5.4
Ethylbenzene	ND	40	ug/kg	6.8
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.1
Methyl acetate	ND	960	ug/kg	52
Methylene chloride	ND	200	ug/kg	99
Methylcyclohexane	ND	960	ug/kg	5.7
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-523

GC/MS Volatiles

Lot-Sample #....: A5L060207-016 Work Order #....: HRGTW1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	8.2
Tetrachloroethene	ND	40	ug/kg	9.0
Toluene	ND	80	ug/kg	9.1
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.5
1,1,2-Trichloroethane	ND	40	ug/kg	9.9
Trichloroethene	ND	40	ug/kg	12
Trichlorofluoromethane	ND	80	ug/kg	8.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	80	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	66	(59 - 138)
1,2-Dichloroethane-d4	73	(61 - 130)
Toluene-d8	81	(60 - 143)
4-Bromofluorobenzene	74	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-524

GC/MS Volatiles

Lot-Sample #....: A5L060207-017 Work Order #....: HRGT11AC Matrix.....: SO
 Date Sampled....: 12/03/05 10:05 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 1.11
 % Moisture.....: 4.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	120 J,B	700	ug/kg	120
Benzene	ND	46	ug/kg	7.4
Bromodichloromethane	ND	93	ug/kg	14
Bromoform	ND	93	ug/kg	15
Bromomethane	ND	230	ug/kg	29
2-Butanone	ND	700	ug/kg	57
Carbon disulfide	ND	230	ug/kg	23
Carbon tetrachloride	ND	46	ug/kg	14
Chlorobenzene	ND	46	ug/kg	7.3
Chloroethane	ND	230	ug/kg	76
Chloroform	ND	46	ug/kg	14
Chloromethane	ND	230	ug/kg	6.0
Cyclohexane	ND	1100	ug/kg	8.9
Dibromochloromethane	ND	46	ug/kg	8.0
1,2-Dibromo-3-chloro- propane	ND	230	ug/kg	70
1,2-Dibromoethane	ND	230	ug/kg	12
1,2-Dichlorobenzene	ND	93	ug/kg	20
1,3-Dichlorobenzene	ND	93	ug/kg	8.4
1,4-Dichlorobenzene	ND	93	ug/kg	9.2
Dichlorodifluoromethane	ND	93	ug/kg	6.3
1,1-Dichloroethane	ND	46	ug/kg	8.5
1,2-Dichloroethane	ND	46	ug/kg	11
1,1-Dichloroethene	ND	46	ug/kg	9.6
cis-1,2-Dichloroethene	ND	46	ug/kg	16
trans-1,2-Dichloroethene	ND	46	ug/kg	13
1,2-Dichloropropane	ND	46	ug/kg	8.6
cis-1,3-Dichloropropene	ND	46	ug/kg	6.4
trans-1,3-Dichloropropene	ND	46	ug/kg	6.3
Ethylbenzene	ND	46	ug/kg	7.9
2-Hexanone	ND	2300	ug/kg	28
Isopropylbenzene	ND	230	ug/kg	5.9
Methyl acetate	1600	1100	ug/kg	60
Methylene chloride	ND	230	ug/kg	120
Methylcyclohexane	ND	1100	ug/kg	6.6
4-Methyl-2-pentanone	ND	2300	ug/kg	13
Methyl tert-butyl ether	ND	230	ug/kg	12
Styrene	ND	46	ug/kg	33

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-524

GC/MS Volatiles

Lot-Sample #....: A5L060207-017 Work Order #....: HRGT11AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	93	ug/kg	9.5
Tetrachloroethene	ND	46	ug/kg	10
Toluene	ND	93	ug/kg	11
1,2,4-Trichloro- benzene	ND	230	ug/kg	14
1,1,1-Trichloroethane	ND	46	ug/kg	11
1,1,2-Trichloroethane	ND	46	ug/kg	12
Trichloroethene	99	46	ug/kg	14
Trichlorofluoromethane	ND	93	ug/kg	9.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	230	ug/kg	12
Vinyl chloride	ND	93	ug/kg	19
Xylenes (total)	ND	140	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	69	(59 - 138)
1,2-Dichloroethane-d4	78	(61 - 130)
Toluene-d8	84	(60 - 143)
4-Bromofluorobenzene	79	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-525

GC/MS Volatiles

Lot-Sample #....: A5L060207-018 Work Order #....: HRGT31AC Matrix.....: SO
 Date Sampled....: 12/03/05 10:07 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 1.08
 % Moisture.....: 4.1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	130 J,B	680	ug/kg	110
Benzene	ND	45	ug/kg	7.2
Bromodichloromethane	ND	90	ug/kg	14
Bromoform	ND	90	ug/kg	15
Bromomethane	ND	230	ug/kg	28
2-Butanone	ND	680	ug/kg	55
Carbon disulfide	ND	230	ug/kg	23
Carbon tetrachloride	ND	45	ug/kg	14
Chlorobenzene	ND	45	ug/kg	7.1
Chloroethane	ND	230	ug/kg	73
Chloroform	ND	45	ug/kg	14
Chloromethane	ND	230	ug/kg	5.9
Cyclohexane	ND	1100	ug/kg	8.7
Dibromochloromethane	ND	45	ug/kg	7.8
1,2-Dibromo-3-chloro- propane	ND	230	ug/kg	68
1,2-Dibromoethane	ND	230	ug/kg	11
1,2-Dichlorobenzene	ND	90	ug/kg	19
1,3-Dichlorobenzene	ND	90	ug/kg	8.1
1,4-Dichlorobenzene	ND	90	ug/kg	8.9
Dichlorodifluoromethane	ND	90	ug/kg	6.1
1,1-Dichloroethane	ND	45	ug/kg	8.2
1,2-Dichloroethane	ND	45	ug/kg	10
1,1-Dichloroethene	ND	45	ug/kg	9.3
cis-1,2-Dichloroethene	ND	45	ug/kg	16
trans-1,2-Dichloroethene	ND	45	ug/kg	12
1,2-Dichloropropane	ND	45	ug/kg	8.3
cis-1,3-Dichloropropene	ND	45	ug/kg	6.2
trans-1,3-Dichloropropene	ND	45	ug/kg	6.1
Ethylbenzene	ND	45	ug/kg	7.7
2-Hexanone	ND	2300	ug/kg	27
Isopropylbenzene	ND	230	ug/kg	5.7
Methyl acetate	ND	1100	ug/kg	59
Methylene chloride	ND	230	ug/kg	110
Methylcyclohexane	ND	1100	ug/kg	6.4
4-Methyl-2-pentanone	ND	2300	ug/kg	12
Methyl tert-butyl ether	ND	230	ug/kg	11
Styrene	ND	45	ug/kg	32

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-525

GC/MS Volatiles

Lot-Sample #....: A5L060207-018 Work Order #....: HRGT31AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	90	ug/kg	9.2
Tetrachloroethene	ND	45	ug/kg	10
Toluene	ND	90	ug/kg	10
1,2,4-Trichloro- benzene	ND	230	ug/kg	14
1,1,1-Trichloroethane	ND	45	ug/kg	11
1,1,2-Trichloroethane	ND	45	ug/kg	11
Trichloroethene	ND	45	ug/kg	14
Trichlorofluoromethane	ND	90	ug/kg	9.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	230	ug/kg	11
Vinyl chloride	ND	90	ug/kg	18
Xylenes (total)	ND	140	ug/kg	17
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	68	(59 - 138)		
1,2-Dichloroethane-d4	76	(61 - 130)		
Toluene-d8	81	(60 - 143)		
4-Bromofluorobenzene	76	(47 - 158)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-526

GC/MS Volatiles

Lot-Sample #....: A5L060207-019 Work Order #....: HRGT71AC Matrix.....: SO
 Date Sampled....: 12/03/05 10:10 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 0.99
 % Moisture.....: 2.7 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	610	ug/kg	100
Benzene	ND	41	ug/kg	6.5
Bromodichloromethane	ND	81	ug/kg	12
Bromoform	ND	81	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	610	ug/kg	50
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	41	ug/kg	12
Chlorobenzene	ND	41	ug/kg	6.4
Chloroethane	ND	200	ug/kg	66
Chloroform	ND	41	ug/kg	12
Chloromethane	ND	200	ug/kg	5.3
Cyclohexane	ND	980	ug/kg	7.8
Dibromochloromethane	ND	41	ug/kg	7.0
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	61
1,2-Dibromoethane	ND	200	ug/kg	10
1,2-Dichlorobenzene	ND	81	ug/kg	17
1,3-Dichlorobenzene	ND	81	ug/kg	7.3
1,4-Dichlorobenzene	ND	81	ug/kg	8.0
Dichlorodifluoromethane	ND	81	ug/kg	5.5
1,1-Dichloroethane	ND	41	ug/kg	7.4
1,2-Dichloroethane	ND	41	ug/kg	9.5
1,1-Dichloroethene	ND	41	ug/kg	8.4
cis-1,2-Dichloroethene	ND	41	ug/kg	14
trans-1,2-Dichloroethene	ND	41	ug/kg	11
1,2-Dichloropropane	ND	41	ug/kg	7.5
cis-1,3-Dichloropropene	ND	41	ug/kg	5.6
trans-1,3-Dichloropropene	ND	41	ug/kg	5.5
Ethylbenzene	ND	41	ug/kg	6.9
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.2
Methyl acetate	ND	980	ug/kg	53
Methylene chloride	ND	200	ug/kg	100
Methylcyclohexane	ND	980	ug/kg	5.8
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	41	ug/kg	29

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-526

GC/MS Volatiles

Lot-Sample #....: A5L060207-019 Work Order #....: HRGT71AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	81	ug/kg	8.3
Tetrachloroethene	ND	41	ug/kg	9.2
Toluene	ND	81	ug/kg	9.3
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	41	ug/kg	9.7
1,1,2-Trichloroethane	ND	41	ug/kg	10
Trichloroethene	ND	41	ug/kg	12
Trichlorofluoromethane	ND	81	ug/kg	8.4
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	81	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	70	(59 - 138)
1,2-Dichloroethane-d4	78	(61 - 130)
Toluene-d8	84	(60 - 143)
4-Bromofluorobenzene	75	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-527

GC/MS Volatiles

Lot-Sample #....: A5L060207-020 Work Order #....: HRGT81AC Matrix.....: SO
 Date Sampled....: 12/03/05 10:12 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 0.93
 % Moisture.....: 3.6 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	130 J,B	580	ug/kg	96
Benzene	ND	39	ug/kg	6.2
Bromodichloromethane	ND	77	ug/kg	12
Bromoform	ND	77	ug/kg	13
Bromomethane	ND	190	ug/kg	24
2-Butanone	ND	580	ug/kg	47
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	39	ug/kg	12
Chlorobenzene	ND	39	ug/kg	6.1
Chloroethane	ND	190	ug/kg	63
Chloroform	ND	39	ug/kg	12
Chloromethane	ND	190	ug/kg	5.0
Cyclohexane	ND	930	ug/kg	7.4
Dibromochloromethane	ND	39	ug/kg	6.7
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	58
1,2-Dibromoethane	ND	190	ug/kg	9.6
1,2-Dichlorobenzene	ND	77	ug/kg	16
1,3-Dichlorobenzene	ND	77	ug/kg	6.9
1,4-Dichlorobenzene	ND	77	ug/kg	7.6
Dichlorodifluoromethane	ND	77	ug/kg	5.2
1,1-Dichloroethane	ND	39	ug/kg	7.0
1,2-Dichloroethane	ND	39	ug/kg	9.0
1,1-Dichloroethene	ND	39	ug/kg	8.0
cis-1,2-Dichloroethene	ND	39	ug/kg	14
trans-1,2-Dichloroethene	ND	39	ug/kg	11
1,2-Dichloropropane	ND	39	ug/kg	7.1
cis-1,3-Dichloropropene	ND	39	ug/kg	5.3
trans-1,3-Dichloropropene	ND	39	ug/kg	5.2
Ethylbenzene	ND	39	ug/kg	6.6
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.9
Methyl acetate	ND	930	ug/kg	50
Methylene chloride	ND	190	ug/kg	96
Methylcyclohexane	ND	930	ug/kg	5.5
4-Methyl-2-pentanone	ND	1900	ug/kg	11
Methyl tert-butyl ether	ND	190	ug/kg	9.7
Styrene	ND	39	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-527

GC/MS Volatiles

Lot-Sample #....: A5L060207-020 Work Order #....: HRGT81AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	77	ug/kg	7.9
Tetrachloroethene	ND	39	ug/kg	8.7
Toluene	ND	77	ug/kg	8.8
1,2,4-Trichloro- benzene	ND	190	ug/kg	12
1,1,1-Trichloroethane	ND	39	ug/kg	9.2
1,1,2-Trichloroethane	ND	39	ug/kg	9.6
Trichloroethene	ND	39	ug/kg	12
Trichlorofluoromethane	ND	77	ug/kg	8.0
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.7
Vinyl chloride	ND	77	ug/kg	15
Xylenes (total)	ND	120	ug/kg	14

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	70	(59 - 138)
1,2-Dichloroethane-d4	76	(61 - 130)
Toluene-d8	84	(60 - 143)
4-Bromofluorobenzene	75	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-528

GC/MS Volatiles

Lot-Sample #....: A5L060207-021 Work Order #....: HRGVA1AC Matrix.....: SO
 Date Sampled....: 12/03/05 10:15 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346665
 Dilution Factor: 1.1
 % Moisture.....: 2.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	670	ug/kg	110
Benzene	ND	45	ug/kg	7.2
Bromodichloromethane	ND	90	ug/kg	13
Bromoform	ND	90	ug/kg	15
Bromomethane	ND	220	ug/kg	28
2-Butanone	ND	670	ug/kg	55
Carbon disulfide	ND	220	ug/kg	22
Carbon tetrachloride	ND	45	ug/kg	13
Chlorobenzene	ND	45	ug/kg	7.1
Chloroethane	ND	220	ug/kg	73
Chloroform	ND	45	ug/kg	13
Chloromethane	ND	220	ug/kg	5.8
Cyclohexane	ND	1100	ug/kg	8.7
Dibromochloromethane	ND	45	ug/kg	7.8
1,2-Dibromo-3-chloro- propane	ND	220	ug/kg	67
1,2-Dibromoethane	ND	220	ug/kg	11
1,2-Dichlorobenzene	ND	90	ug/kg	19
1,3-Dichlorobenzene	ND	90	ug/kg	8.1
1,4-Dichlorobenzene	ND	90	ug/kg	8.9
Dichlorodifluoromethane	ND	90	ug/kg	6.1
1,1-Dichloroethane	ND	45	ug/kg	8.2
1,2-Dichloroethane	ND	45	ug/kg	10
1,1-Dichloroethene	ND	45	ug/kg	9.3
cis-1,2-Dichloroethene	ND	45	ug/kg	16
trans-1,2-Dichloroethene	ND	45	ug/kg	12
1,2-Dichloropropane	ND	45	ug/kg	8.3
cis-1,3-Dichloropropene	ND	45	ug/kg	6.2
trans-1,3-Dichloropropene	ND	45	ug/kg	6.1
Ethylbenzene	ND	45	ug/kg	7.6
2-Hexanone	ND	2200	ug/kg	27
Isopropylbenzene	ND	220	ug/kg	5.7
Methyl acetate	ND	1100	ug/kg	58
Methylene chloride	ND	220	ug/kg	110
Methylcyclohexane	ND	1100	ug/kg	6.4
4-Methyl-2-pentanone	ND	2200	ug/kg	12
Methyl tert-butyl ether	ND	220	ug/kg	11
Styrene	ND	45	ug/kg	31

(Continued on next page)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-528

GC/MS Volatiles

Lot-Sample #....: A5L060207-021 Work Order #....: HRGVA1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	90	ug/kg	9.2
Tetrachloroethene	ND	45	ug/kg	10
Toluene	ND	90	ug/kg	10
1,2,4-Trichloro- benzene	ND	220	ug/kg	13
1,1,1-Trichloroethane	ND	45	ug/kg	11
1,1,2-Trichloroethane	ND	45	ug/kg	11
Trichloroethene	ND	45	ug/kg	13
Trichlorofluoromethane	ND	90	ug/kg	9.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	220	ug/kg	11
Vinyl chloride	ND	90	ug/kg	18
Xylenes (total)	ND	130	ug/kg	17
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	75	(59 - 138)		
1,2-Dichloroethane-d4	73	(61 - 130)		
Toluene-d8	82	(60 - 143)		
4-Bromofluorobenzene	75	(47 - 158)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-529

GC/MS Volatiles

Lot-Sample #....: A5L060207-022 Work Order #....: HRGVE1AC Matrix.....: SO
 Date Sampled....: 12/03/05 10:25 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346665
 Dilution Factor: 1.04
 % Moisture.....: 3.1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	640	ug/kg	110
Benzene	ND	43	ug/kg	6.9
Bromodichloromethane	ND	86	ug/kg	13
Bromoform	ND	86	ug/kg	14
Bromomethane	ND	210	ug/kg	27
2-Butanone	ND	640	ug/kg	53
Carbon disulfide	ND	210	ug/kg	21
Carbon tetrachloride	ND	43	ug/kg	13
Chlorobenzene	ND	43	ug/kg	6.8
Chloroethane	ND	210	ug/kg	70
Chloroform	ND	43	ug/kg	13
Chloromethane	ND	210	ug/kg	5.6
Cyclohexane	ND	1000	ug/kg	8.3
Dibromochloromethane	ND	43	ug/kg	7.4
1,2-Dibromo-3-chloro- propane	ND	210	ug/kg	64
1,2-Dibromoethane	ND	210	ug/kg	11
1,2-Dichlorobenzene	ND	86	ug/kg	18
1,3-Dichlorobenzene	ND	86	ug/kg	7.7
1,4-Dichlorobenzene	ND	86	ug/kg	8.5
Dichlorodifluoromethane	ND	86	ug/kg	5.8
1,1-Dichloroethane	ND	43	ug/kg	7.8
1,2-Dichloroethane	ND	43	ug/kg	10
1,1-Dichloroethene	ND	43	ug/kg	8.9
cis-1,2-Dichloroethene	ND	43	ug/kg	15
trans-1,2-Dichloroethene	ND	43	ug/kg	12
1,2-Dichloropropane	ND	43	ug/kg	7.9
cis-1,3-Dichloropropene	ND	43	ug/kg	5.9
trans-1,3-Dichloropropene	ND	43	ug/kg	5.8
Ethylbenzene	ND	43	ug/kg	7.3
2-Hexanone	ND	2100	ug/kg	26
Isopropylbenzene	ND	210	ug/kg	5.5
Methyl acetate	ND	1000	ug/kg	56
Methylene chloride	ND	210	ug/kg	110
Methylcyclohexane	ND	1000	ug/kg	6.1
4-Methyl-2-pentanone	ND	2100	ug/kg	12
Methyl tert-butyl ether	ND	210	ug/kg	11
Styrene	ND	43	ug/kg	30

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-529

GC/MS Volatiles

Lot-Sample #...: A5L060207-022 Work Order #...: HRGVE1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	86	ug/kg	8.8
Tetrachloroethene	ND	43	ug/kg	9.7
Toluene	ND	86	ug/kg	9.8
1,2,4-Trichloro- benzene	ND	210	ug/kg	13
1,1,1-Trichloroethane	ND	43	ug/kg	10
1,1,2-Trichloroethane	ND	43	ug/kg	11
Trichloroethene	38 J	43	ug/kg	13
Trichlorofluoromethane	ND	86	ug/kg	8.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	210	ug/kg	11
Vinyl chloride	ND	86	ug/kg	17
Xylenes (total)	ND	130	ug/kg	16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	74	(59 - 138)
1,2-Dichloroethane-d4	72	(61 - 130)
Toluene-d8	81	(60 - 143)
4-Bromofluorobenzene	74	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-530

GC/MS Volatiles

Lot-Sample #....: A5L060207-023 Work Order #....: HRGVJ1AC Matrix.....: SO
 Date Sampled....: 12/03/05 10:27 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346665
 Dilution Factor: 1.01
 % Moisture.....: 2.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	620	ug/kg	100
Benzene	ND	41	ug/kg	6.6
Bromodichloromethane	ND	83	ug/kg	12
Bromoform	ND	83	ug/kg	13
Bromomethane	ND	210	ug/kg	26
2-Butanone	ND	620	ug/kg	51
Carbon disulfide	ND	210	ug/kg	21
Carbon tetrachloride	ND	41	ug/kg	12
Chlorobenzene	ND	41	ug/kg	6.5
Chloroethane	ND	210	ug/kg	67
Chloroform	ND	41	ug/kg	12
Chloromethane	ND	210	ug/kg	5.4
Cyclohexane	ND	990	ug/kg	8.0
Dibromochloromethane	ND	41	ug/kg	7.1
1,2-Dibromo-3-chloro- propane	ND	210	ug/kg	62
1,2-Dibromoethane	ND	210	ug/kg	10
1,2-Dichlorobenzene	ND	83	ug/kg	18
1,3-Dichlorobenzene	ND	83	ug/kg	7.5
1,4-Dichlorobenzene	ND	83	ug/kg	8.2
Dichlorodifluoromethane	ND	83	ug/kg	5.6
1,1-Dichloroethane	ND	41	ug/kg	7.6
1,2-Dichloroethane	ND	41	ug/kg	9.6
1,1-Dichloroethene	ND	41	ug/kg	8.6
cis-1,2-Dichloroethene	ND	41	ug/kg	14
trans-1,2-Dichloroethene	ND	41	ug/kg	11
1,2-Dichloropropane	ND	41	ug/kg	7.7
cis-1,3-Dichloropropene	ND	41	ug/kg	5.7
trans-1,3-Dichloropropene	ND	41	ug/kg	5.6
Ethylbenzene	ND	41	ug/kg	7.0
2-Hexanone	ND	2100	ug/kg	25
Isopropylbenzene	ND	210	ug/kg	5.3
Methyl acetate	ND	990	ug/kg	54
Methylene chloride	ND	210	ug/kg	100
Methylcyclohexane	ND	990	ug/kg	5.9
4-Methyl-2-pentanone	ND	2100	ug/kg	11
Methyl tert-butyl ether	ND	210	ug/kg	10
Styrene	ND	41	ug/kg	29

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-530

GC/MS Volatiles

Lot-Sample #....: A5L060207-023 Work Order #....: HRGVJ1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	83	ug/kg	8.5
Tetrachloroethene	ND	41	ug/kg	9.3
Toluene	ND	83	ug/kg	9.4
1,2,4-Trichloro- benzene	ND	210	ug/kg	12
1,1,1-Trichloroethane	ND	41	ug/kg	9.8
1,1,2-Trichloroethane	ND	41	ug/kg	10
Trichloroethene	ND	41	ug/kg	12
Trichlorofluoromethane	ND	83	ug/kg	8.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	210	ug/kg	10
Vinyl chloride	ND	83	ug/kg	17
Xylenes (total)	ND	120	ug/kg	16
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	72	(59 - 138)		
1,2-Dichloroethane-d4	70	(61 - 130)		
Toluene-d8	81	(60 - 143)		
4-Bromofluorobenzene	75	(47 - 158)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-531

GC/MS Volatiles

Lot-Sample #....: A5L060207-024 Work Order #....: HRGVLIAC Matrix.....: SO
 Date Sampled....: 12/03/05 10:30 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346665
 Dilution Factor: 1.04
 % Moisture.....: 3.1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	640	ug/kg	110
Benzene	ND	43	ug/kg	6.9
Bromodichloromethane	ND	86	ug/kg	13
Bromoform	ND	86	ug/kg	14
Bromomethane	ND	210	ug/kg	27
2-Butanone	ND	640	ug/kg	53
Carbon disulfide	ND	210	ug/kg	21
Carbon tetrachloride	ND	43	ug/kg	13
Chlorobenzene	ND	43	ug/kg	6.8
Chloroethane	ND	210	ug/kg	70
Chloroform	ND	43	ug/kg	13
Chloromethane	ND	210	ug/kg	5.6
Cyclohexane	ND	1000	ug/kg	8.3
Dibromochloromethane	ND	43	ug/kg	7.4
1,2-Dibromo-3-chloro- propane	ND	210	ug/kg	64
1,2-Dibromoethane	ND	210	ug/kg	11
1,2-Dichlorobenzene	ND	86	ug/kg	18
1,3-Dichlorobenzene	ND	86	ug/kg	7.7
1,4-Dichlorobenzene	ND	86	ug/kg	8.5
Dichlorodifluoromethane	ND	86	ug/kg	5.8
1,1-Dichloroethane	ND	43	ug/kg	7.8
1,2-Dichloroethane	ND	43	ug/kg	10
1,1-Dichloroethene	ND	43	ug/kg	8.9
cis-1,2-Dichloroethene	ND	43	ug/kg	15
trans-1,2-Dichloroethene	ND	43	ug/kg	12
1,2-Dichloropropane	ND	43	ug/kg	7.9
cis-1,3-Dichloropropene	ND	43	ug/kg	5.9
trans-1,3-Dichloropropene	ND	43	ug/kg	5.8
Ethylbenzene	ND	43	ug/kg	7.3
2-Hexanone	ND	2100	ug/kg	26
Isopropylbenzene	ND	210	ug/kg	5.5
Methyl acetate	ND	1000	ug/kg	56
Methylene chloride	ND	210	ug/kg	110
Methylcyclohexane	ND	1000	ug/kg	6.1
4-Methyl-2-pentanone	ND	2100	ug/kg	12
Methyl tert-butyl ether	ND	210	ug/kg	11
Styrene	ND	43	ug/kg	30

(Continued on next page)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-531

GC/MS Volatiles

Lot-Sample #....: A5L060207-024 Work Order #....: HRGVL1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	86	ug/kg	8.8
Tetrachloroethene	ND	43	ug/kg	9.7
Toluene	ND	86	ug/kg	9.8
1,2,4-Trichloro- benzene	ND	210	ug/kg	13
1,1,1-Trichloroethane	ND	43	ug/kg	10
1,1,2-Trichloroethane	ND	43	ug/kg	11
Trichloroethene	ND	43	ug/kg	13
Trichlorofluoromethane	ND	86	ug/kg	8.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	210	ug/kg	11
Vinyl chloride	ND	86	ug/kg	17
Xylenes (total)	ND	130	ug/kg	16
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	74	(59 - 138)		
1,2-Dichloroethane-d4	76	(61 - 130)		
Toluene-d8	84	(60 - 143)		
4-Bromofluorobenzene	76	(47 - 158)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-532

GC/MS Volatiles

Lot-Sample #....: A5L060207-025 Work Order #....: HRGVQ1AC Matrix.....: SO
 Date Sampled....: 12/03/05 10:35 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346665
 Dilution Factor: 1.02
 % Moisture.....: 3.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	630	ug/kg	100
Benzene	ND	42	ug/kg	6.8
Bromodichloromethane	ND	85	ug/kg	13
Bromoform	ND	85	ug/kg	14
Bromomethane	ND	210	ug/kg	26
2-Butanone	ND	630	ug/kg	52
Carbon disulfide	ND	210	ug/kg	21
Carbon tetrachloride	ND	42	ug/kg	13
Chlorobenzene	ND	42	ug/kg	6.7
Chloroethane	ND	210	ug/kg	69
Chloroform	ND	42	ug/kg	13
Chloromethane	ND	210	ug/kg	5.5
Cyclohexane	ND	1000	ug/kg	8.1
Dibromochloromethane	ND	42	ug/kg	7.3
1,2-Dibromo-3-chloro- propane	ND	210	ug/kg	63
1,2-Dibromoethane	ND	210	ug/kg	10
1,2-Dichlorobenzene	ND	85	ug/kg	18
1,3-Dichlorobenzene	ND	85	ug/kg	7.6
1,4-Dichlorobenzene	ND	85	ug/kg	8.4
Dichlorodifluoromethane	ND	85	ug/kg	5.7
1,1-Dichloroethane	ND	42	ug/kg	7.7
1,2-Dichloroethane	ND	42	ug/kg	9.8
1,1-Dichloroethene	ND	42	ug/kg	8.8
cis-1,2-Dichloroethene	ND	42	ug/kg	15
trans-1,2-Dichloroethene	ND	42	ug/kg	12
1,2-Dichloropropane	ND	42	ug/kg	7.8
cis-1,3-Dichloropropene	ND	42	ug/kg	5.8
trans-1,3-Dichloropropene	ND	42	ug/kg	5.7
Ethylbenzene	ND	42	ug/kg	7.2
2-Hexanone	ND	2100	ug/kg	25
Isopropylbenzene	ND	210	ug/kg	5.4
Methyl acetate	ND	1000	ug/kg	55
Methylene chloride	ND	210	ug/kg	100
Methylcyclohexane	ND	1000	ug/kg	6.0
4-Methyl-2-pentanone	ND	2100	ug/kg	12
Methyl tert-butyl ether	ND	210	ug/kg	11
Styrene	ND	42	ug/kg	30

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-532

GC/MS Volatiles

Lot-Sample #....: A5L060207-025 Work Order #....: HRGVQ1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	85	ug/kg	8.7
Tetrachloroethene	ND	42	ug/kg	9.5
Toluene	ND	85	ug/kg	9.6
1,2,4-Trichloro- benzene	ND	210	ug/kg	13
1,1,1-Trichloroethane	ND	42	ug/kg	10
1,1,2-Trichloroethane	ND	42	ug/kg	10
Trichloroethene	ND	42	ug/kg	13
Trichlorofluoromethane	ND	85	ug/kg	8.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	210	ug/kg	11
Vinyl chloride	ND	85	ug/kg	17
Xylenes (total)	ND	130	ug/kg	16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	71	(59 - 138)
1,2-Dichloroethane-d4	73	(61 - 130)
Toluene-d8	83	(60 - 143)
4-Bromofluorobenzene	75	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-533

GC/MS Volatiles

Lot-Sample #....: A5L060207-026 Work Order #....: HRGVV1AC Matrix.....: SO
 Date Sampled....: 12/03/05 10:37 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346665
 Dilution Factor: 1.04
 % Moisture.....: 9.3 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	690	ug/kg	110
Benzene	ND	46	ug/kg	7.3
Bromodichloromethane	ND	92	ug/kg	14
Bromoform	ND	92	ug/kg	15
Bromomethane	ND	230	ug/kg	29
2-Butanone	ND	690	ug/kg	56
Carbon disulfide	ND	230	ug/kg	23
Carbon tetrachloride	ND	46	ug/kg	14
Chlorobenzene	ND	46	ug/kg	7.2
Chloroethane	ND	230	ug/kg	75
Chloroform	ND	46	ug/kg	14
Chloromethane	ND	230	ug/kg	6.0
Cyclohexane	ND	1100	ug/kg	8.8
Dibromochloromethane	ND	46	ug/kg	7.9
1,2-Dibromo-3-chloro- propane	ND	230	ug/kg	69
1,2-Dibromoethane	ND	230	ug/kg	11
1,2-Dichlorobenzene	ND	92	ug/kg	19
1,3-Dichlorobenzene	ND	92	ug/kg	8.3
1,4-Dichlorobenzene	ND	92	ug/kg	9.1
Dichlorodifluoromethane	ND	92	ug/kg	6.2
1,1-Dichloroethane	ND	46	ug/kg	8.4
1,2-Dichloroethane	ND	46	ug/kg	11
1,1-Dichloroethene	ND	46	ug/kg	9.5
cis-1,2-Dichloroethene	ND	46	ug/kg	16
trans-1,2-Dichloroethene	ND	46	ug/kg	13
1,2-Dichloropropane	ND	46	ug/kg	8.5
cis-1,3-Dichloropropene	ND	46	ug/kg	6.3
trans-1,3-Dichloropropene	ND	46	ug/kg	6.2
Ethylbenzene	ND	46	ug/kg	7.8
2-Hexanone	ND	2300	ug/kg	28
Isopropylbenzene	ND	230	ug/kg	5.8
Methyl acetate	ND	1100	ug/kg	60
Methylene chloride	ND	230	ug/kg	110
Methylcyclohexane	ND	1100	ug/kg	6.5
4-Methyl-2-pentanone	ND	2300	ug/kg	13
Methyl tert-butyl ether	ND	230	ug/kg	11
Styrene	ND	46	ug/kg	32

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-533

GC/MS Volatiles

Lot-Sample #....: A5L060207-026 Work Order #....: HRGVV1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	92	ug/kg	9.4
Tetrachloroethene	ND	46	ug/kg	10
Toluene	ND	92	ug/kg	10
1,2,4-Trichloro- benzene	ND	230	ug/kg	14
1,1,1-Trichloroethane	ND	46	ug/kg	11
1,1,2-Trichloroethane	ND	46	ug/kg	11
Trichloroethene	ND	46	ug/kg	14
Trichlorofluoromethane	ND	92	ug/kg	9.5
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	230	ug/kg	11
Vinyl chloride	ND	92	ug/kg	18
Xylenes (total)	ND	140	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	72	(59 - 138)
1,2-Dichloroethane-d4	73	(61 - 130)
Toluene-d8	83	(60 - 143)
4-Bromofluorobenzene	75	(47 - 158)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-534

GC/MS Volatiles

Lot-Sample #....: A5L060207-027 **Work Order #....:** HRGVX1AC **Matrix.....:** SO
Date Sampled....: 12/03/05 10:40 **Date Received...:** 12/06/05
Prep Date.....: 12/07/05 **Analysis Date...:** 12/12/05
Prep Batch #....: 5346665
Dilution Factor: 0.96
% Moisture.....: 5.2 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	610	ug/kg	100
Benzene	ND	41	ug/kg	6.5
Bromodichloromethane	ND	81	ug/kg	12
Bromoform	ND	81	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	610	ug/kg	50
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	41	ug/kg	12
Chlorobenzene	ND	41	ug/kg	6.4
Chloroethane	ND	200	ug/kg	66
Chloroform	ND	41	ug/kg	12
Chloromethane	ND	200	ug/kg	5.3
Cyclohexane	ND	970	ug/kg	7.8
Dibromochloromethane	ND	41	ug/kg	7.0
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	61
1,2-Dibromoethane	ND	200	ug/kg	10
1,2-Dichlorobenzene	ND	81	ug/kg	17
1,3-Dichlorobenzene	ND	81	ug/kg	7.3
1,4-Dichlorobenzene	ND	81	ug/kg	8.0
Dichlorodifluoromethane	ND	81	ug/kg	5.5
1,1-Dichloroethane	ND	41	ug/kg	7.4
1,2-Dichloroethane	ND	41	ug/kg	9.4
1,1-Dichloroethene	ND	41	ug/kg	8.4
cis-1,2-Dichloroethene	ND	41	ug/kg	14
trans-1,2-Dichloroethene	ND	41	ug/kg	11
1,2-Dichloropropane	ND	41	ug/kg	7.5
cis-1,3-Dichloropropene	ND	41	ug/kg	5.6
trans-1,3-Dichloropropene	ND	41	ug/kg	5.5
Ethylbenzene	ND	41	ug/kg	6.9
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.2
Methyl acetate	ND	970	ug/kg	53
Methylene chloride	ND	200	ug/kg	100
Methylcyclohexane	ND	970	ug/kg	5.8
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	41	ug/kg	28

(Continued on next page)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-534

GC/MS Volatiles

Lot-Sample #....: A5L060207-027 Work Order #....: HRGVX1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	81	ug/kg	8.3
Tetrachloroethene	ND	41	ug/kg	9.1
Toluene	ND	81	ug/kg	9.2
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	41	ug/kg	9.6
1,1,2-Trichloroethane	ND	41	ug/kg	10
Trichloroethene	ND	41	ug/kg	12
Trichlorofluoromethane	ND	81	ug/kg	8.4
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	81	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	69	(59 - 138)
1,2-Dichloroethane-d4	72	(61 - 130)
Toluene-d8	81	(60 - 143)
4-Bromofluorobenzene	74	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-535

GC/MS Volatiles

Lot-Sample #....: A5L060207-028 Work Order #....: HRGV01AC Matrix.....: SO
 Date Sampled....: 12/03/05 10:42 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346665
 Dilution Factor: 1.06
 % Moisture.....: 7.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	690	ug/kg	110
Benzene	ND	46	ug/kg	7.3
Bromodichloromethane	ND	91	ug/kg	14
Bromoform	ND	91	ug/kg	15
Bromomethane	ND	230	ug/kg	29
2-Butanone	ND	690	ug/kg	56
Carbon disulfide	ND	230	ug/kg	23
Carbon tetrachloride	ND	46	ug/kg	14
Chlorobenzene	ND	46	ug/kg	7.2
Chloroethane	ND	230	ug/kg	74
Chloroform	ND	46	ug/kg	14
Chloromethane	ND	230	ug/kg	5.9
Cyclohexane	ND	1100	ug/kg	8.8
Dibromochloromethane	ND	46	ug/kg	7.9
1,2-Dibromo-3-chloro- propane	ND	230	ug/kg	69
1,2-Dibromoethane	ND	230	ug/kg	11
1,2-Dichlorobenzene	ND	91	ug/kg	19
1,3-Dichlorobenzene	ND	91	ug/kg	8.2
1,4-Dichlorobenzene	ND	91	ug/kg	9.0
Dichlorodifluoromethane	ND	91	ug/kg	6.2
1,1-Dichloroethane	ND	46	ug/kg	8.3
1,2-Dichloroethane	ND	46	ug/kg	11
1,1-Dichloroethene	ND	46	ug/kg	9.5
cis-1,2-Dichloroethene	ND	46	ug/kg	16
trans-1,2-Dichloroethene	ND	46	ug/kg	13
1,2-Dichloropropane	ND	46	ug/kg	8.4
cis-1,3-Dichloropropene	ND	46	ug/kg	6.3
trans-1,3-Dichloropropene	ND	46	ug/kg	6.2
Ethylbenzene	ND	46	ug/kg	7.8
2-Hexanone	ND	2300	ug/kg	27
Isopropylbenzene	ND	230	ug/kg	5.8
Methyl acetate	ND	1100	ug/kg	59
Methylene chloride	ND	230	ug/kg	110
Methylcyclohexane	ND	1100	ug/kg	6.5
4-Methyl-2-pentanone	ND	2300	ug/kg	13
Methyl tert-butyl ether	ND	230	ug/kg	11
Styrene	ND	46	ug/kg	32

(Continued on next page)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-535

GC/MS Volatiles

Lot-Sample #....: A5L060207-028 Work Order #....: HRGV01AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	91	ug/kg	9.4
Tetrachloroethene	ND	46	ug/kg	10
Toluene	ND	91	ug/kg	10
1,2,4-Trichloro- benzene	ND	230	ug/kg	14
1,1,1-Trichloroethane	ND	46	ug/kg	11
1,1,2-Trichloroethane	ND	46	ug/kg	11
Trichloroethene	ND	46	ug/kg	14
Trichlorofluoromethane	ND	91	ug/kg	9.5
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	230	ug/kg	11
Vinyl chloride	ND	91	ug/kg	18
Xylenes (total)	ND	140	ug/kg	17
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	72	(59 - 138)		
1,2-Dichloroethane-d4	75	(61 - 130)		
Toluene-d8	83	(60 - 143)		
4-Bromofluorobenzene	75	(47 - 158)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-536

GC/MS Volatiles

Lot-Sample #....: A5L060207-029 Work Order #....: HRGV31AC Matrix.....: SO
 Date Sampled....: 12/03/05 10:45 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346665
 Dilution Factor: 0.96
 % Moisture.....: 8.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	630	ug/kg	100
Benzene	ND	42	ug/kg	6.7
Bromodichloromethane	ND	84	ug/kg	13
Bromoform	ND	84	ug/kg	14
Bromomethane	ND	210	ug/kg	26
2-Butanone	ND	630	ug/kg	51
Carbon disulfide	ND	210	ug/kg	21
Carbon tetrachloride	ND	42	ug/kg	13
Chlorobenzene	ND	42	ug/kg	6.6
Chloroethane	ND	210	ug/kg	68
Chloroform	ND	42	ug/kg	13
Chloromethane	ND	210	ug/kg	5.5
Cyclohexane	ND	1000	ug/kg	8.1
Dibromochloromethane	ND	42	ug/kg	7.2
1,2-Dibromo-3-chloro- propane	ND	210	ug/kg	63
1,2-Dibromoethane	ND	210	ug/kg	10
1,2-Dichlorobenzene	ND	84	ug/kg	18
1,3-Dichlorobenzene	ND	84	ug/kg	7.6
1,4-Dichlorobenzene	ND	84	ug/kg	8.3
Dichlorodifluoromethane	ND	84	ug/kg	5.7
1,1-Dichloroethane	ND	42	ug/kg	7.7
1,2-Dichloroethane	ND	42	ug/kg	9.8
1,1-Dichloroethene	ND	42	ug/kg	8.7
cis-1,2-Dichloroethene	ND	42	ug/kg	15
trans-1,2-Dichloroethene	ND	42	ug/kg	12
1,2-Dichloropropane	ND	42	ug/kg	7.8
cis-1,3-Dichloropropene	ND	42	ug/kg	5.8
trans-1,3-Dichloropropene	ND	42	ug/kg	5.7
Ethylbenzene	ND	42	ug/kg	7.1
2-Hexanone	ND	2100	ug/kg	25
Isopropylbenzene	ND	210	ug/kg	5.4
Methyl acetate	ND	1000	ug/kg	55
Methylene chloride	ND	210	ug/kg	100
Methylcyclohexane	ND	1000	ug/kg	6.0
4-Methyl-2-pentanone	ND	2100	ug/kg	12
Methyl tert-butyl ether	ND	210	ug/kg	10
Styrene	ND	42	ug/kg	29

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-536

GC/MS Volatiles

Lot-Sample #....: A5L060207-029 Work Order #....: HRGV31AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	84	ug/kg	8.6
Tetrachloroethene	ND	42	ug/kg	9.4
Toluene	ND	84	ug/kg	9.6
1,2,4-Trichloro- benzene	ND	210	ug/kg	13
1,1,1-Trichloroethane	ND	42	ug/kg	10
1,1,2-Trichloroethane	ND	42	ug/kg	10
Trichloroethene	ND	42	ug/kg	13
Trichlorofluoromethane	ND	84	ug/kg	8.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	210	ug/kg	10
Vinyl chloride	ND	84	ug/kg	17
Xylenes (total)	ND	130	ug/kg	16
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	70	(59 - 138)		
1,2-Dichloroethane-d4	70	(61 - 130)		
Toluene-d8	78	(60 - 143)		
4-Bromofluorobenzene	71	(47 - 158)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-537

GC/MS Volatiles

Lot-Sample #....: A5L060207-030 Work Order #....: HRGWC1AC Matrix.....: SO
 Date Sampled....: 12/03/05 10:47 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346665
 Dilution Factor: 1.05
 % Moisture.....: 1.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	640	ug/kg	110
Benzene	ND	43	ug/kg	6.9
Bromodichloromethane	ND	86	ug/kg	13
Bromoform	ND	86	ug/kg	14
Bromomethane	ND	210	ug/kg	27
2-Butanone	ND	640	ug/kg	52
Carbon disulfide	ND	210	ug/kg	21
Carbon tetrachloride	ND	43	ug/kg	13
Chlorobenzene	ND	43	ug/kg	6.7
Chloroethane	ND	210	ug/kg	70
Chloroform	ND	43	ug/kg	13
Chloromethane	ND	210	ug/kg	5.6
Cyclohexane	ND	1000	ug/kg	8.2
Dibromochloromethane	ND	43	ug/kg	7.4
1,2-Dibromo-3-chloro- propane	ND	210	ug/kg	64
1,2-Dibromoethane	ND	210	ug/kg	11
1,2-Dichlorobenzene	ND	86	ug/kg	18
1,3-Dichlorobenzene	ND	86	ug/kg	7.7
1,4-Dichlorobenzene	ND	86	ug/kg	8.5
Dichlorodifluoromethane	ND	86	ug/kg	5.8
1,1-Dichloroethane	ND	43	ug/kg	7.8
1,2-Dichloroethane	ND	43	ug/kg	10
1,1-Dichloroethene	ND	43	ug/kg	8.9
cis-1,2-Dichloroethene	ND	43	ug/kg	15
trans-1,2-Dichloroethene	ND	43	ug/kg	12
1,2-Dichloropropane	ND	43	ug/kg	7.9
cis-1,3-Dichloropropene	ND	43	ug/kg	5.9
trans-1,3-Dichloropropene	ND	43	ug/kg	5.8
Ethylbenzene	ND	43	ug/kg	7.3
2-Hexanone	ND	2100	ug/kg	26
Isopropylbenzene	ND	210	ug/kg	5.5
Methyl acetate	74 J	1000	ug/kg	56
Methylene chloride	ND	210	ug/kg	110
Methylcyclohexane	ND	1000	ug/kg	6.1
4-Methyl-2-pentanone	ND	2100	ug/kg	12
Methyl tert-butyl ether	ND	210	ug/kg	11
Styrene	ND	43	ug/kg	30

(Continued on next page)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-537

GC/MS Volatiles

Lot-Sample #....: A5L060207-030 Work Order #....: HRGWC1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	86	ug/kg	8.8
Tetrachloroethene	ND	43	ug/kg	9.6
Toluene	ND	86	ug/kg	9.7
1,2,4-Trichloro- benzene	ND	210	ug/kg	13
1,1,1-Trichloroethane	ND	43	ug/kg	10
1,1,2-Trichloroethane	ND	43	ug/kg	11
Trichloroethene	ND	43	ug/kg	13
Trichlorofluoromethane	ND	86	ug/kg	8.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	210	ug/kg	11
Vinyl chloride	ND	86	ug/kg	17
Xylenes (total)	ND	130	ug/kg	16
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	64	(59 - 138)		
1,2-Dichloroethane-d4	72	(61 - 130)		
Toluene-d8	82	(60 - 143)		
4-Bromofluorobenzene	73	(47 - 158)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-538

GC/MS Volatiles

Lot-Sample #....: A5L060207-031 Work Order #....: HRGWF1AC Matrix.....: SO
 Date Sampled....: 12/03/05 10:50 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346665
 Dilution Factor: 1.04
 % Moisture.....: 2.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	640	ug/kg	110
Benzene	ND	42	ug/kg	6.8
Bromodichloromethane	ND	85	ug/kg	13
Bromoform	ND	85	ug/kg	14
Bromomethane	ND	210	ug/kg	27
2-Butanone	ND	640	ug/kg	52
Carbon disulfide	ND	210	ug/kg	21
Carbon tetrachloride	ND	42	ug/kg	13
Chlorobenzene	ND	42	ug/kg	6.7
Chloroethane	ND	210	ug/kg	69
Chloroform	ND	42	ug/kg	13
Chloromethane	ND	210	ug/kg	5.5
Cyclohexane	ND	1000	ug/kg	8.2
Dibromochloromethane	ND	42	ug/kg	7.3
1,2-Dibromo-3-chloro- propane	ND	210	ug/kg	64
1,2-Dibromoethane	ND	210	ug/kg	11
1,2-Dichlorobenzene	ND	85	ug/kg	18
1,3-Dichlorobenzene	ND	85	ug/kg	7.6
1,4-Dichlorobenzene	ND	85	ug/kg	8.4
Dichlorodifluoromethane	ND	85	ug/kg	5.7
1,1-Dichloroethane	ND	42	ug/kg	7.7
1,2-Dichloroethane	ND	42	ug/kg	9.9
1,1-Dichloroethene	ND	42	ug/kg	8.8
cis-1,2-Dichloroethene	ND	42	ug/kg	15
trans-1,2-Dichloroethene	ND	42	ug/kg	12
1,2-Dichloropropane	ND	42	ug/kg	7.9
cis-1,3-Dichloropropene	ND	42	ug/kg	5.8
trans-1,3-Dichloropropene	ND	42	ug/kg	5.7
Ethylbenzene	ND	42	ug/kg	7.2
2-Hexanone	ND	2100	ug/kg	25
Isopropylbenzene	ND	210	ug/kg	5.4
Methyl acetate	ND	1000	ug/kg	55
Methylene chloride	ND	210	ug/kg	110
Methylcyclohexane	ND	1000	ug/kg	6.1
4-Methyl-2-pentanone	ND	2100	ug/kg	12
Methyl tert-butyl ether	ND	210	ug/kg	11
Styrene	ND	42	ug/kg	30

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-538

GC/MS Volatiles

Lot-Sample #...: A5L060207-031 Work Order #...: HRGWF1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	85	ug/kg	8.7
Tetrachloroethene	ND	42	ug/kg	9.6
Toluene	ND	85	ug/kg	9.7
1,2,4-Trichloro- benzene	ND	210	ug/kg	13
1,1,1-Trichloroethane	ND	42	ug/kg	10
1,1,2-Trichloroethane	ND	42	ug/kg	11
Trichloroethene	ND	42	ug/kg	13
Trichlorofluoromethane	ND	85	ug/kg	8.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	210	ug/kg	11
Vinyl chloride	ND	85	ug/kg	17
Xylenes (total)	ND	130	ug/kg	16
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	73	(59 - 138)		
1,2-Dichloroethane-d4	71	(61 - 130)		
Toluene-d8	82	(60 - 143)		
4-Bromofluorobenzene	75	(47 - 158)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-539

GC/MS Volatiles

Lot-Sample #....: A5L060207-032 Work Order #....: HRGWK1AC Matrix.....: SO
 Date Sampled....: 12/03/05 10:52 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346665
 Dilution Factor: 1.1
 % Moisture.....: 2.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	670	ug/kg	110
Benzene	ND	45	ug/kg	7.2
Bromodichloromethane	ND	90	ug/kg	13
Bromoform	ND	90	ug/kg	15
Bromomethane	ND	220	ug/kg	28
2-Butanone	ND	670	ug/kg	55
Carbon disulfide	ND	220	ug/kg	22
Carbon tetrachloride	ND	45	ug/kg	13
Chlorobenzene	ND	45	ug/kg	7.1
Chloroethane	ND	220	ug/kg	73
Chloroform	ND	45	ug/kg	13
Chloromethane	ND	220	ug/kg	5.8
Cyclohexane	ND	1100	ug/kg	8.6
Dibromochloromethane	ND	45	ug/kg	7.7
1,2-Dibromo-3-chloro- propane	ND	220	ug/kg	67
1,2-Dibromoethane	ND	220	ug/kg	11
1,2-Dichlorobenzene	ND	90	ug/kg	19
1,3-Dichlorobenzene	ND	90	ug/kg	8.1
1,4-Dichlorobenzene	ND	90	ug/kg	8.9
Dichlorodifluoromethane	ND	90	ug/kg	6.1
1,1-Dichloroethane	ND	45	ug/kg	8.2
1,2-Dichloroethane	ND	45	ug/kg	10
1,1-Dichloroethene	ND	45	ug/kg	9.3
cis-1,2-Dichloroethene	ND	45	ug/kg	16
trans-1,2-Dichloroethene	ND	45	ug/kg	12
1,2-Dichloropropane	ND	45	ug/kg	8.3
cis-1,3-Dichloropropene	ND	45	ug/kg	6.2
trans-1,3-Dichloropropene	ND	45	ug/kg	6.1
Ethylbenzene	ND	45	ug/kg	7.6
2-Hexanone	ND	2200	ug/kg	27
Isopropylbenzene	ND	220	ug/kg	5.7
Methyl acetate	ND	1100	ug/kg	58
Methylene chloride	ND	220	ug/kg	110
Methylcyclohexane	ND	1100	ug/kg	6.4
4-Methyl-2-pentanone	ND	2200	ug/kg	12
Methyl tert-butyl ether	ND	220	ug/kg	11
Styrene	ND	45	ug/kg	31

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-539

GC/MS Volatiles

Lot-Sample #....: A5L060207-032 Work Order #....: HRGWK1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	90	ug/kg	9.2
Tetrachloroethene	ND	45	ug/kg	10
Toluene	ND	90	ug/kg	10
1,2,4-Trichloro- benzene	ND	220	ug/kg	13
1,1,1-Trichloroethane	ND	45	ug/kg	11
1,1,2-Trichloroethane	ND	45	ug/kg	11
Trichloroethene	ND	45	ug/kg	13
Trichlorofluoromethane	ND	90	ug/kg	9.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	220	ug/kg	11
Vinyl chloride	ND	90	ug/kg	18
Xylenes (total)	ND	130	ug/kg	17
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	72	(59 - 138)		
1,2-Dichloroethane-d4	76	(61 - 130)		
Toluene-d8	86	(60 - 143)		
4-Bromofluorobenzene	75	(47 - 158)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-540

GC/MS Volatiles

Lot-Sample #....: A5L060207-033 Work Order #....: HRGWP1AC Matrix.....: SO
 Date Sampled....: 12/03/05 11:00 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346665
 Dilution Factor: 1.06
 % Moisture.....: 2.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	650	ug/kg	110
Benzene	ND	44	ug/kg	7.0
Bromodichloromethane	ND	87	ug/kg	13
Bromoform	ND	87	ug/kg	14
Bromomethane	ND	220	ug/kg	27
2-Butanone	ND	650	ug/kg	53
Carbon disulfide	ND	220	ug/kg	22
Carbon tetrachloride	ND	44	ug/kg	13
Chlorobenzene	ND	44	ug/kg	6.9
Chloroethane	ND	220	ug/kg	71
Chloroform	ND	44	ug/kg	13
Chloromethane	ND	220	ug/kg	5.7
Cyclohexane	ND	1000	ug/kg	8.4
Dibromochloromethane	ND	44	ug/kg	7.5
1,2-Dibromo-3-chloro- propane	ND	220	ug/kg	65
1,2-Dibromoethane	ND	220	ug/kg	11
1,2-Dichlorobenzene	ND	87	ug/kg	19
1,3-Dichlorobenzene	ND	87	ug/kg	7.8
1,4-Dichlorobenzene	ND	87	ug/kg	8.6
Dichlorodifluoromethane	ND	87	ug/kg	5.9
1,1-Dichloroethane	ND	44	ug/kg	8.0
1,2-Dichloroethane	ND	44	ug/kg	10
1,1-Dichloroethene	ND	44	ug/kg	9.0
cis-1,2-Dichloroethene	ND	44	ug/kg	15
trans-1,2-Dichloroethene	ND	44	ug/kg	12
1,2-Dichloropropane	ND	44	ug/kg	8.1
cis-1,3-Dichloropropene	ND	44	ug/kg	6.0
trans-1,3-Dichloropropene	ND	44	ug/kg	5.9
Ethylbenzene	ND	44	ug/kg	7.4
2-Hexanone	ND	2200	ug/kg	26
Isopropylbenzene	ND	220	ug/kg	5.6
Methyl acetate	ND	1000	ug/kg	57
Methylene chloride	ND	220	ug/kg	110
Methylcyclohexane	ND	1000	ug/kg	6.2
4-Methyl-2-pentanone	ND	2200	ug/kg	12
Methyl tert-butyl ether	ND	220	ug/kg	11
Styrene	ND	44	ug/kg	31

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-540

GC/MS Volatiles

Lot-Sample #....: A5L060207-033 Work Order #....: HRGWP1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	87	ug/kg	8.9
Tetrachloroethene	ND	44	ug/kg	9.8
Toluene	ND	87	ug/kg	9.9
1,2,4-Trichloro- benzene	ND	220	ug/kg	13
1,1,1-Trichloroethane	ND	44	ug/kg	10
1,1,2-Trichloroethane	ND	44	ug/kg	11
Trichloroethene	2100	44	ug/kg	13
Trichlorofluoromethane	ND	87	ug/kg	9.0
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	220	ug/kg	11
Vinyl chloride	ND	87	ug/kg	17
Xylenes (total)	ND	130	ug/kg	16
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	70	(59 - 138)		
1,2-Dichloroethane-d4	73	(61 - 130)		
Toluene-d8	80	(60 - 143)		
4-Bromofluorobenzene	73	(47 - 158)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-541

GC/MS Volatiles

Lot-Sample #....: A5L060207-034 Work Order #....: HRGWQ1AC Matrix.....: SO
 Date Sampled....: 12/03/05 11:02 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346665
 Dilution Factor: 1.03
 % Moisture.....: 2.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	630	ug/kg	100
Benzene	ND	42	ug/kg	6.7
Bromodichloromethane	ND	84	ug/kg	13
Bromoform	ND	84	ug/kg	14
Bromomethane	ND	210	ug/kg	26
2-Butanone	ND	630	ug/kg	52
Carbon disulfide	ND	210	ug/kg	21
Carbon tetrachloride	ND	42	ug/kg	13
Chlorobenzene	ND	42	ug/kg	6.6
Chloroethane	ND	210	ug/kg	68
Chloroform	ND	42	ug/kg	13
Chloromethane	ND	210	ug/kg	5.5
Cyclohexane	ND	1000	ug/kg	8.1
Dibromochloromethane	ND	42	ug/kg	7.3
1,2-Dibromo-3-chloro- propane	ND	210	ug/kg	63
1,2-Dibromoethane	ND	210	ug/kg	10
1,2-Dichlorobenzene	ND	84	ug/kg	18
1,3-Dichlorobenzene	ND	84	ug/kg	7.6
1,4-Dichlorobenzene	ND	84	ug/kg	8.3
Dichlorodifluoromethane	ND	84	ug/kg	5.7
1,1-Dichloroethane	ND	42	ug/kg	7.7
1,2-Dichloroethane	ND	42	ug/kg	9.8
1,1-Dichloroethene	ND	42	ug/kg	8.7
cis-1,2-Dichloroethene	ND	42	ug/kg	15
trans-1,2-Dichloroethene	ND	42	ug/kg	12
1,2-Dichloropropane	ND	42	ug/kg	7.8
cis-1,3-Dichloropropene	ND	42	ug/kg	5.8
trans-1,3-Dichloropropene	ND	42	ug/kg	5.7
Ethylbenzene	ND	42	ug/kg	7.2
2-Hexanone	ND	2100	ug/kg	25
Isopropylbenzene	ND	210	ug/kg	5.4
Methyl acetate	ND	1000	ug/kg	55
Methylene chloride	ND	210	ug/kg	100
Methylcyclohexane	ND	1000	ug/kg	6.0
4-Methyl-2-pentanone	ND	2100	ug/kg	12
Methyl tert-butyl ether	ND	210	ug/kg	11
Styrene	ND	42	ug/kg	29

(Continued on next page)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-541

GC/MS Volatiles

Lot-Sample #....: A5L060207-034 Work Order #....: HRGWQ1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	84	ug/kg	8.6
Tetrachloroethene	ND	42	ug/kg	9.5
Toluene	ND	84	ug/kg	9.6
1,2,4-Trichloro- benzene	ND	210	ug/kg	13
1,1,1-Trichloroethane	ND	42	ug/kg	10
1,1,2-Trichloroethane	ND	42	ug/kg	10
Trichloroethene	40 J	42	ug/kg	13
Trichlorofluoromethane	ND	84	ug/kg	8.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	210	ug/kg	11
Vinyl chloride	ND	84	ug/kg	17
Xylenes (total)	ND	130	ug/kg	16
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	72	(59 - 138)		
1,2-Dichloroethane-d4	75	(61 - 130)		
Toluene-d8	86	(60 - 143)		
4-Bromofluorobenzene	76	(47 - 158)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-542

GC/MS Volatiles

Lot-Sample #....: A5L060207-035 Work Order #....: HRGWRIAC Matrix.....: SO
 Date Sampled....: 12/03/05 11:05 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346665
 Dilution Factor: 1.09
 % Moisture.....: 1.1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	660	ug/kg	110
Benzene	ND	44	ug/kg	7.1
Bromodichloromethane	ND	88	ug/kg	13
Bromoform	ND	88	ug/kg	14
Bromomethane	ND	220	ug/kg	28
2-Butanone	ND	660	ug/kg	54
Carbon disulfide	ND	220	ug/kg	22
Carbon tetrachloride	ND	44	ug/kg	13
Chlorobenzene	ND	44	ug/kg	6.9
Chloroethane	ND	220	ug/kg	72
Chloroform	ND	44	ug/kg	13
Chloromethane	ND	220	ug/kg	5.7
Cyclohexane	ND	1100	ug/kg	8.5
Dibromochloromethane	ND	44	ug/kg	7.6
1,2-Dibromo-3-chloro- propane	ND	220	ug/kg	66
1,2-Dibromoethane	ND	220	ug/kg	11
1,2-Dichlorobenzene	ND	88	ug/kg	19
1,3-Dichlorobenzene	ND	88	ug/kg	7.9
1,4-Dichlorobenzene	ND	88	ug/kg	8.7
Dichlorodifluoromethane	ND	88	ug/kg	6.0
1,1-Dichloroethane	ND	44	ug/kg	8.0
1,2-Dichloroethane	ND	44	ug/kg	10
1,1-Dichloroethene	ND	44	ug/kg	9.1
cis-1,2-Dichloroethene	ND	44	ug/kg	15
trans-1,2-Dichloroethene	ND	44	ug/kg	12
1,2-Dichloropropane	ND	44	ug/kg	8.2
cis-1,3-Dichloropropene	ND	44	ug/kg	6.1
trans-1,3-Dichloropropene	ND	44	ug/kg	6.0
Ethylbenzene	ND	44	ug/kg	7.5
2-Hexanone	ND	2200	ug/kg	26
Isopropylbenzene	ND	220	ug/kg	5.6
Methyl acetate	ND	1100	ug/kg	57
Methylene chloride	ND	220	ug/kg	110
Methylcyclohexane	ND	1100	ug/kg	6.3
4-Methyl-2-pentanone	ND	2200	ug/kg	12
Methyl tert-butyl ether	ND	220	ug/kg	11
Styrene	ND	44	ug/kg	31

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-542

GC/MS Volatiles

Lot-Sample #...: A5L060207-035 Work Order #...: HRGWR1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	88	ug/kg	9.0
Tetrachloroethene	ND	44	ug/kg	9.9
Toluene	ND	88	ug/kg	10
1,2,4-Trichloro- benzene	ND	220	ug/kg	13
1,1,1-Trichloroethane	ND	44	ug/kg	10
1,1,2-Trichloroethane	ND	44	ug/kg	11
Trichloroethene	14 J	44	ug/kg	13
Trichlorofluoromethane	ND	88	ug/kg	9.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	220	ug/kg	11
Vinyl chloride	ND	88	ug/kg	18
Xylenes (total)	ND	130	ug/kg	17
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	70	(59 - 138)		
1,2-Dichloroethane-d4	74	(61 - 130)		
Toluene-d8	82	(60 - 143)		
4-Bromofluorobenzene	74	(47 - 158)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-543

GC/MS Volatiles

Lot-Sample #....: A5L060207-036 Work Order #....: HRGWW1AC Matrix.....: SO
 Date Sampled....: 12/03/05 11:10 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346665
 Dilution Factor: 1.04
 % Moisture.....: 1.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	640	ug/kg	100
Benzene	ND	42	ug/kg	6.8
Bromodichloromethane	ND	85	ug/kg	13
Bromoform	ND	85	ug/kg	14
Bromomethane	ND	210	ug/kg	26
2-Butanone	ND	640	ug/kg	52
Carbon disulfide	ND	210	ug/kg	21
Carbon tetrachloride	ND	42	ug/kg	13
Chlorobenzene	ND	42	ug/kg	6.7
Chloroethane	ND	210	ug/kg	69
Chloroform	ND	42	ug/kg	13
Chloromethane	ND	210	ug/kg	5.5
Cyclohexane	ND	1000	ug/kg	8.2
Dibromochloromethane	ND	42	ug/kg	7.3
1,2-Dibromo-3-chloro- propane	ND	210	ug/kg	64
1,2-Dibromoethane	ND	210	ug/kg	10
1,2-Dichlorobenzene	ND	85	ug/kg	18
1,3-Dichlorobenzene	ND	85	ug/kg	7.6
1,4-Dichlorobenzene	ND	85	ug/kg	8.4
Dichlorodifluoromethane	ND	85	ug/kg	5.7
1,1-Dichloroethane	ND	42	ug/kg	7.7
1,2-Dichloroethane	ND	42	ug/kg	9.9
1,1-Dichloroethene	ND	42	ug/kg	8.8
cis-1,2-Dichloroethene	ND	42	ug/kg	15
trans-1,2-Dichloroethene	ND	42	ug/kg	12
1,2-Dichloropropane	ND	42	ug/kg	7.8
cis-1,3-Dichloropropene	ND	42	ug/kg	5.8
trans-1,3-Dichloropropene	ND	42	ug/kg	5.7
Ethylbenzene	ND	42	ug/kg	7.2
2-Hexanone	ND	2100	ug/kg	25
Isopropylbenzene	ND	210	ug/kg	5.4
Methyl acetate	ND	1000	ug/kg	55
Methylene chloride	ND	210	ug/kg	100
Methylcyclohexane	ND	1000	ug/kg	6.0
4-Methyl-2-pentanone	ND	2100	ug/kg	12
Methyl tert-butyl ether	ND	210	ug/kg	11
Styrene	ND	42	ug/kg	30

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-543

GC/MS Volatiles

Lot-Sample #....: A5L060207-036 Work Order #....: HRGWW1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	85	ug/kg	8.7
Tetrachloroethene	ND	42	ug/kg	9.5
Toluene	ND	85	ug/kg	9.6
1,2,4-Trichloro- benzene	ND	210	ug/kg	13
1,1,1-Trichloroethane	ND	42	ug/kg	10
1,1,2-Trichloroethane	ND	42	ug/kg	10
Trichloroethene	26 J	42	ug/kg	13
Trichlorofluoromethane	ND	85	ug/kg	8.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	210	ug/kg	11
Vinyl chloride	ND	85	ug/kg	17
Xylenes (total)	ND	130	ug/kg	16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	70	(59 - 138)
1,2-Dichloroethane-d4	76	(61 - 130)
Toluene-d8	84	(60 - 143)
4-Bromofluorobenzene	76	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-544

GC/MS Volatiles

Lot-Sample #....: A5L060207-037 Work Order #....: HRGW01AC Matrix.....: SO
 Date Sampled....: 12/03/05 11:12 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346665
 Dilution Factor: 1.18
 % Moisture.....: 1.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	720	ug/kg	120
Benzene	ND	48	ug/kg	7.7
Bromodichloromethane	ND	96	ug/kg	14
Bromoform	ND	96	ug/kg	16
Bromomethane	ND	240	ug/kg	30
2-Butanone	ND	720	ug/kg	59
Carbon disulfide	ND	240	ug/kg	24
Carbon tetrachloride	ND	48	ug/kg	14
Chlorobenzene	ND	48	ug/kg	7.5
Chloroethane	ND	240	ug/kg	78
Chloroform	ND	48	ug/kg	14
Chloromethane	ND	240	ug/kg	6.2
Cyclohexane	ND	1100	ug/kg	9.2
Dibromochloromethane	ND	48	ug/kg	8.3
1,2-Dibromo-3-chloro- propane	ND	240	ug/kg	72
1,2-Dibromoethane	ND	240	ug/kg	12
1,2-Dichlorobenzene	ND	96	ug/kg	20
1,3-Dichlorobenzene	ND	96	ug/kg	8.6
1,4-Dichlorobenzene	ND	96	ug/kg	9.5
Dichlorodifluoromethane	ND	96	ug/kg	6.5
1,1-Dichloroethane	ND	48	ug/kg	8.7
1,2-Dichloroethane	ND	48	ug/kg	11
1,1-Dichloroethene	ND	48	ug/kg	9.9
cis-1,2-Dichloroethene	ND	48	ug/kg	17
trans-1,2-Dichloroethene	ND	48	ug/kg	13
1,2-Dichloropropane	ND	48	ug/kg	8.9
cis-1,3-Dichloropropene	ND	48	ug/kg	6.6
trans-1,3-Dichloropropene	ND	48	ug/kg	6.5
Ethylbenzene	ND	48	ug/kg	8.1
2-Hexanone	ND	2400	ug/kg	29
Isopropylbenzene	ND	240	ug/kg	6.1
Methyl acetate	ND	1100	ug/kg	62
Methylene chloride	ND	240	ug/kg	120
Methylcyclohexane	ND	1100	ug/kg	6.8
4-Methyl-2-pentanone	ND	2400	ug/kg	13
Methyl tert-butyl ether	ND	240	ug/kg	12
Styrene	ND	48	ug/kg	34

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-544

GC/MS Volatiles

Lot-Sample #....: A5L060207-037 Work Order #....: HRGW01AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	96	ug/kg	9.8
Tetrachloroethene	ND	48	ug/kg	11
Toluene	ND	96	ug/kg	11
1,2,4-Trichloro- benzene	ND	240	ug/kg	14
1,1,1-Trichloroethane	ND	48	ug/kg	11
1,1,2-Trichloroethane	ND	48	ug/kg	12
Trichloroethene	ND	48	ug/kg	14
Trichlorofluoromethane	ND	96	ug/kg	9.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	240	ug/kg	12
Vinyl chloride	ND	96	ug/kg	19
Xylenes (total)	ND	140	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	71	(59 - 138)
1,2-Dichloroethane-d4	74	(61 - 130)
Toluene-d8	85	(60 - 143)
4-Bromofluorobenzene	77	(47 - 158)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-545

GC/MS Volatiles

Lot-Sample #....: A5L060207-038 Work Order #....: HRGW21AC Matrix.....: SO
 Date Sampled....: 12/03/05 11:15 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346665
 Dilution Factor: 3.33
 % Moisture.....: 1.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	2000	ug/kg	340
Benzene	ND	140	ug/kg	22
Bromodichloromethane	ND	270	ug/kg	41
Bromoform	ND	270	ug/kg	44
Bromomethane	ND	680	ug/kg	85
2-Butanone	ND	2000	ug/kg	170
Carbon disulfide	ND	680	ug/kg	68
Carbon tetrachloride	ND	140	ug/kg	41
Chlorobenzene	ND	140	ug/kg	21
Chloroethane	ND	680	ug/kg	220
Chloroform	ND	140	ug/kg	41
Chloromethane	ND	680	ug/kg	18
Cyclohexane	ND	3300	ug/kg	26
Dibromochloromethane	ND	140	ug/kg	23
1,2-Dibromo-3-chloro- propane	ND	680	ug/kg	200
1,2-Dibromoethane	ND	680	ug/kg	34
1,2-Dichlorobenzene	ND	270	ug/kg	58
1,3-Dichlorobenzene	ND	270	ug/kg	24
1,4-Dichlorobenzene	ND	270	ug/kg	27
Dichlorodifluoromethane	ND	270	ug/kg	18
1,1-Dichloroethane	ND	140	ug/kg	25
1,2-Dichloroethane	ND	140	ug/kg	32
1,1-Dichloroethene	ND	140	ug/kg	28
cis-1,2-Dichloroethene	ND	140	ug/kg	47
trans-1,2-Dichloroethene	ND	140	ug/kg	37
1,2-Dichloropropane	ND	140	ug/kg	25
cis-1,3-Dichloropropene	ND	140	ug/kg	19
trans-1,3-Dichloropropene	ND	140	ug/kg	18
Ethylbenzene	ND	140	ug/kg	23
2-Hexanone	ND	6800	ug/kg	81
Isopropylbenzene	ND	680	ug/kg	17
Methyl acetate	800 J	3300	ug/kg	180
Methylene chloride	ND	680	ug/kg	340
Methylcyclohexane	35 J	3300	ug/kg	19
4-Methyl-2-pentanone	ND	6800	ug/kg	37
Methyl tert-butyl ether	ND	680	ug/kg	34
Styrene	ND	140	ug/kg	95

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-545

GC/MS Volatiles

Lot-Sample #....: A5L060207-038 Work Order #....: HRGW21AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	270	ug/kg	28
Tetrachloroethene	ND	140	ug/kg	31
Toluene	ND	270	ug/kg	31
1,2,4-Trichloro- benzene	ND	680	ug/kg	41
1,1,1-Trichloroethane	ND	140	ug/kg	32
1,1,2-Trichloroethane	ND	140	ug/kg	34
Trichloroethene	12000	140	ug/kg	41
Trichlorofluoromethane	ND	270	ug/kg	28
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	680	ug/kg	34
Vinyl chloride	ND	270	ug/kg	54
Xylenes (total)	ND	410	ug/kg	51

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	73 DIL	(59 - 138)
1,2-Dichloroethane-d4	77 DIL	(61 - 130)
Toluene-d8	88 DIL	(60 - 143)
4-Bromofluorobenzene	76 DIL	(47 - 158)

NOTE(S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-546

GC/MS Volatiles

Lot-Sample #....: A5L060207-039 Work Order #....: HRGW31AC Matrix.....: SO
 Date Sampled....: 12/03/05 11:20 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346665
 Dilution Factor: 1.1
 % Moisture.....: 3.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	690	ug/kg	110
Benzene	ND	46	ug/kg	7.3
Bromodichloromethane	ND	91	ug/kg	14
Bromoform	ND	91	ug/kg	15
Bromomethane	ND	230	ug/kg	29
2-Butanone	ND	690	ug/kg	56
Carbon disulfide	ND	230	ug/kg	23
Carbon tetrachloride	ND	46	ug/kg	14
Chlorobenzene	ND	46	ug/kg	7.2
Chloroethane	ND	230	ug/kg	74
Chloroform	ND	46	ug/kg	14
Chloromethane	ND	230	ug/kg	5.9
Cyclohexane	ND	1100	ug/kg	8.8
Dibromochloromethane	ND	46	ug/kg	7.9
1,2-Dibromo-3-chloro- propane	ND	230	ug/kg	69
1,2-Dibromoethane	ND	230	ug/kg	11
1,2-Dichlorobenzene	ND	91	ug/kg	19
1,3-Dichlorobenzene	ND	91	ug/kg	8.2
1,4-Dichlorobenzene	ND	91	ug/kg	9.0
Dichlorodifluoromethane	ND	91	ug/kg	6.2
1,1-Dichloroethane	ND	46	ug/kg	8.3
1,2-Dichloroethane	ND	46	ug/kg	11
1,1-Dichloroethene	ND	46	ug/kg	9.5
cis-1,2-Dichloroethene	ND	46	ug/kg	16
trans-1,2-Dichloroethene	ND	46	ug/kg	13
1,2-Dichloropropane	ND	46	ug/kg	8.5
cis-1,3-Dichloropropene	ND	46	ug/kg	6.3
trans-1,3-Dichloropropene	ND	46	ug/kg	6.2
Ethylbenzene	ND	46	ug/kg	7.8
2-Hexanone	ND	2300	ug/kg	27
Isopropylbenzene	ND	230	ug/kg	5.8
Methyl acetate	ND	1100	ug/kg	59
Methylene chloride	ND	230	ug/kg	110
Methylcyclohexane	ND	1100	ug/kg	6.5
4-Methyl-2-pentanone	ND	2300	ug/kg	13
Methyl tert-butyl ether	ND	230	ug/kg	11
Styrene	ND	46	ug/kg	32

(Continued on next page)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-546

GC/MS Volatiles

Lot-Sample #....: A5L060207-039 Work Order #....: HRGW31AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	91	ug/kg	9.4
Tetrachloroethene	ND	46	ug/kg	10
Toluene	ND	91	ug/kg	10
1,2,4-Trichloro- benzene	ND	230	ug/kg	14
1,1,1-Trichloroethane	ND	46	ug/kg	11
1,1,2-Trichloroethane	ND	46	ug/kg	11
Trichloroethene	80	46	ug/kg	14
Trichlorofluoromethane	ND	91	ug/kg	9.5
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	230	ug/kg	11
Vinyl chloride	ND	91	ug/kg	18
Xylenes (total)	ND	140	ug/kg	17
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	74	(59 - 138)		
1,2-Dichloroethane-d4	74	(61 - 130)		
Toluene-d8	81	(60 - 143)		
4-Bromofluorobenzene	75	(47 - 158)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-547

GC/MS Volatiles

Lot-Sample #....: A5L060207-040 Work Order #....: HRGW61AC Matrix.....: SO
 Date Sampled....: 12/03/05 11:25 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346665
 Dilution Factor: 1.03
 % Moisture.....: 2.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	630	ug/kg	100
Benzene	ND	42	ug/kg	6.7
Bromodichloromethane	ND	84	ug/kg	13
Bromoform	ND	84	ug/kg	14
Bromomethane	ND	210	ug/kg	26
2-Butanone	ND	630	ug/kg	51
Carbon disulfide	ND	210	ug/kg	21
Carbon tetrachloride	ND	42	ug/kg	13
Chlorobenzene	ND	42	ug/kg	6.6
Chloroethane	ND	210	ug/kg	68
Chloroform	ND	42	ug/kg	13
Chloromethane	ND	210	ug/kg	5.5
Cyclohexane	ND	1000	ug/kg	8.1
Dibromochloromethane	ND	42	ug/kg	7.2
1,2-Dibromo-3-chloro- propane	ND	210	ug/kg	63
1,2-Dibromoethane	ND	210	ug/kg	10
1,2-Dichlorobenzene	ND	84	ug/kg	18
1,3-Dichlorobenzene	ND	84	ug/kg	7.6
1,4-Dichlorobenzene	ND	84	ug/kg	8.3
Dichlorodifluoromethane	ND	84	ug/kg	5.7
1,1-Dichloroethane	ND	42	ug/kg	7.7
1,2-Dichloroethane	ND	42	ug/kg	9.8
1,1-Dichloroethene	ND	42	ug/kg	8.7
cis-1,2-Dichloroethene	ND	42	ug/kg	15
trans-1,2-Dichloroethene	ND	42	ug/kg	12
1,2-Dichloropropane	ND	42	ug/kg	7.8
cis-1,3-Dichloropropene	ND	42	ug/kg	5.8
trans-1,3-Dichloropropene	ND	42	ug/kg	5.7
Ethylbenzene	ND	42	ug/kg	7.1
2-Hexanone	ND	2100	ug/kg	25
Isopropylbenzene	ND	210	ug/kg	5.4
Methyl acetate	ND	1000	ug/kg	55
Methylene chloride	ND	210	ug/kg	100
Methylcyclohexane	ND	1000	ug/kg	6.0
4-Methyl-2-pentanone	ND	2100	ug/kg	12
Methyl tert-butyl ether	ND	210	ug/kg	11
Styrene	ND	42	ug/kg	29

(Continued on next page)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-547

GC/MS Volatiles

Lot-Sample #....: A5L060207-040 Work Order #....: HRGW61AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	84	ug/kg	8.6
Tetrachloroethene	ND	42	ug/kg	9.5
Toluene	ND	84	ug/kg	9.6
1,2,4-Trichloro- benzene	ND	210	ug/kg	13
1,1,1-Trichloroethane	ND	42	ug/kg	10
1,1,2-Trichloroethane	ND	42	ug/kg	10
Trichloroethene	59	42	ug/kg	13
Trichlorofluoromethane	ND	84	ug/kg	8.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	210	ug/kg	11
Vinyl chloride	ND	84	ug/kg	17
Xylenes (total)	ND	130	ug/kg	16
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	68	(59 - 138)		
1,2-Dichloroethane-d4	73	(61 - 130)		
Toluene-d8	80	(60 - 143)		
4-Bromofluorobenzene	73	(47 - 158)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-548

GC/MS Volatiles

Lot-Sample #....: A5L060207-041 Work Order #....: HRGW71AC Matrix.....: SO
 Date Sampled....: 12/03/05 11:27 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/08/05
 Prep Batch #....: 5342544
 Dilution Factor: 1.08
 % Moisture.....: 1.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	660	ug/kg	110
Benzene	ND	44	ug/kg	7.0
Bromodichloromethane	ND	88	ug/kg	13
Bromoform	ND	88	ug/kg	14
Bromomethane	ND	220	ug/kg	27
2-Butanone	ND	660	ug/kg	54
Carbon disulfide	ND	220	ug/kg	22
Carbon tetrachloride	ND	44	ug/kg	13
Chlorobenzene	ND	44	ug/kg	6.9
Chloroethane	ND	220	ug/kg	71
Chloroform	ND	44	ug/kg	13
Chloromethane	ND	220	ug/kg	5.7
Cyclohexane	ND	1100	ug/kg	8.4
Dibromochloromethane	ND	44	ug/kg	7.6
1,2-Dibromo-3-chloro- propane	ND	220	ug/kg	66
1,2-Dibromoethane	ND	220	ug/kg	11
1,2-Dichlorobenzene	ND	88	ug/kg	19
1,3-Dichlorobenzene	ND	88	ug/kg	7.9
1,4-Dichlorobenzene	ND	88	ug/kg	8.7
Dichlorodifluoromethane	ND	88	ug/kg	5.9
1,1-Dichloroethane	ND	44	ug/kg	8.0
1,2-Dichloroethane	ND	44	ug/kg	10
1,1-Dichloroethene	ND	44	ug/kg	9.1
cis-1,2-Dichloroethene	ND	44	ug/kg	15
trans-1,2-Dichloroethene	ND	44	ug/kg	12
1,2-Dichloropropane	ND	44	ug/kg	8.1
cis-1,3-Dichloropropene	ND	44	ug/kg	6.0
trans-1,3-Dichloropropene	ND	44	ug/kg	5.9
Ethylbenzene	ND	44	ug/kg	7.4
2-Hexanone	ND	2200	ug/kg	26
Isopropylbenzene	ND	220	ug/kg	5.6
Methyl acetate	ND	1100	ug/kg	57
Methylene chloride	ND	220	ug/kg	110
Methylcyclohexane	ND	1100	ug/kg	6.2
4-Methyl-2-pentanone	ND	2200	ug/kg	12
Methyl tert-butyl ether	ND	220	ug/kg	11
Styrene	ND	44	ug/kg	31

(Continued on next page)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-548

GC/MS Volatiles

Lot-Sample #....: A5L060207-041 Work Order #....: HRGW71AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	88	ug/kg	9.0
Tetrachloroethene	ND	44	ug/kg	9.9
Toluene	ND	88	ug/kg	10
1,2,4-Trichloro- benzene	ND	220	ug/kg	13
1,1,1-Trichloroethane	ND	44	ug/kg	10
1,1,2-Trichloroethane	ND	44	ug/kg	11
Trichloroethene	59	44	ug/kg	13
Trichlorofluoromethane	ND	88	ug/kg	9.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	220	ug/kg	11
Vinyl chloride	ND	88	ug/kg	18
Xylenes (total)	ND	130	ug/kg	16
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	77	(59 - 138)		
1,2-Dichloroethane-d4	76	(61 - 130)		
Toluene-d8	84	(60 - 143)		
4-Bromofluorobenzene	78	(47 - 158)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-549

GC/MS Volatiles

Lot-Sample #....: A5L060207-042 Work Order #....: HRGW81AC Matrix.....: SO
 Date Sampled....: 12/03/05 11:30 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/08/05
 Prep Batch #....: 5342544
 Dilution Factor: 1.08
 % Moisture.....: 1.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	660	ug/kg	110
Benzene	ND	44	ug/kg	7.0
Bromodichloromethane	ND	88	ug/kg	13
Bromoform	ND	88	ug/kg	14
Bromomethane	ND	220	ug/kg	27
2-Butanone	ND	660	ug/kg	54
Carbon disulfide	ND	220	ug/kg	22
Carbon tetrachloride	ND	44	ug/kg	13
Chlorobenzene	ND	44	ug/kg	6.9
Chloroethane	ND	220	ug/kg	71
Chloroform	ND	44	ug/kg	13
Chloromethane	ND	220	ug/kg	5.7
Cyclohexane	ND	1100	ug/kg	8.4
Dibromochloromethane	ND	44	ug/kg	7.6
1,2-Dibromo-3-chloro- propane	ND	220	ug/kg	66
1,2-Dibromoethane	ND	220	ug/kg	11
1,2-Dichlorobenzene	ND	88	ug/kg	19
1,3-Dichlorobenzene	ND	88	ug/kg	7.9
1,4-Dichlorobenzene	ND	88	ug/kg	8.7
Dichlorodifluoromethane	ND	88	ug/kg	5.9
1,1-Dichloroethane	ND	44	ug/kg	8.0
1,2-Dichloroethane	ND	44	ug/kg	10
1,1-Dichloroethene	ND	44	ug/kg	9.1
cis-1,2-Dichloroethene	ND	44	ug/kg	15
trans-1,2-Dichloroethene	ND	44	ug/kg	12
1,2-Dichloropropane	ND	44	ug/kg	8.1
cis-1,3-Dichloropropene	ND	44	ug/kg	6.0
trans-1,3-Dichloropropene	ND	44	ug/kg	5.9
Ethylbenzene	ND	44	ug/kg	7.4
2-Hexanone	ND	2200	ug/kg	26
Isopropylbenzene	ND	220	ug/kg	5.6
Methyl acetate	ND	1100	ug/kg	57
Methylene chloride	ND	220	ug/kg	110
Methylcyclohexane	ND	1100	ug/kg	6.2
4-Methyl-2-pentanone	ND	2200	ug/kg	12
Methyl tert-butyl ether	ND	220	ug/kg	11
Styrene	ND	44	ug/kg	31

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-549

GC/MS Volatiles

Lot-Sample #....: A5L060207-042 Work Order #....: HRGW81AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	88	ug/kg	9.0
Tetrachloroethene	ND	44	ug/kg	9.9
Toluene	ND	88	ug/kg	10
1,2,4-Trichloro- benzene	ND	220	ug/kg	13
1,1,1-Trichloroethane	ND	44	ug/kg	10
1,1,2-Trichloroethane	ND	44	ug/kg	11
Trichloroethene	17 J	44	ug/kg	13
Trichlorofluoromethane	ND	88	ug/kg	9.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	220	ug/kg	11
Vinyl chloride	ND	88	ug/kg	18
Xylenes (total)	ND	130	ug/kg	16
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	74	(59 - 138)		
1,2-Dichloroethane-d4	74	(61 - 130)		
Toluene-d8	83	(60 - 143)		
4-Bromofluorobenzene	78	(47 - 158)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-550

GC/MS Volatiles

Lot-Sample #....: A5L060207-043 Work Order #....: HRGXF1AA Matrix.....: SQ
 Date Sampled....: 12/03/05 11:35 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/08/05
 Prep Batch #....: 5342544
 Dilution Factor: 1
 % Moisture.....: Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	600	ug/kg	99
Benzene	ND	40	ug/kg	6.4
Bromodichloromethane	ND	80	ug/kg	12
Bromoform	ND	80	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	600	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.3
Chloroethane	ND	200	ug/kg	65
Chloroform	ND	40	ug/kg	12
Chloromethane	ND	200	ug/kg	5.2
Cyclohexane	ND	960	ug/kg	7.7
Dibromochloromethane	ND	40	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	60
1,2-Dibromoethane	ND	200	ug/kg	9.9
1,2-Dichlorobenzene	ND	80	ug/kg	17
1,3-Dichlorobenzene	ND	80	ug/kg	7.2
1,4-Dichlorobenzene	ND	80	ug/kg	7.9
Dichlorodifluoromethane	ND	80	ug/kg	5.4
1,1-Dichloroethane	ND	40	ug/kg	7.3
1,2-Dichloroethane	ND	40	ug/kg	9.3
1,1-Dichloroethene	ND	40	ug/kg	8.3
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.4
cis-1,3-Dichloropropene	ND	40	ug/kg	5.5
trans-1,3-Dichloropropene	ND	40	ug/kg	5.4
Ethylbenzene	ND	40	ug/kg	6.8
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.1
Methyl acetate	ND	960	ug/kg	52
Methylene chloride	ND	200	ug/kg	99
Methylcyclohexane	ND	960	ug/kg	5.7
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-550

GC/MS Volatiles

Lot-Sample #....: A5L060207-043 Work Order #....: HRGXF1AA Matrix.....: SQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	8.2
Tetrachloroethene	ND	40	ug/kg	9.0
Toluene	ND	80	ug/kg	9.1
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.5
1,1,2-Trichloroethane	ND	40	ug/kg	9.9
Trichloroethene	ND	40	ug/kg	12
Trichlorofluoromethane	ND	80	ug/kg	8.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	80	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	72	(59 - 138)
1,2-Dichloroethane-d4	76	(61 - 130)
Toluene-d8	85	(60 - 143)
4-Bromofluorobenzene	76	(47 - 158)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-508

General Chemistry

Lot-Sample #....: A5L060207-001 Work Order #....: HRGN2 Matrix.....: SO
Date Sampled....: 12/03/05 09:10 Date Received...: 12/06/05
% Moisture.....: 3.5

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.5	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342287
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-509

General Chemistry

Lot-Sample #....: A5L060207-002 Work Order #....: HRGRD Matrix.....: SO
Date Sampled...: 12/03/05 09:12 Date Received...: 12/06/05
% Moisture.....: 3.7

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.3	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342287
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-510

General Chemistry

Lot-Sample #....: A5L060207-003 Work Order #....: HRGRG Matrix.....: SO
Date Sampled....: 12/03/05 09:15 Date Received...: 12/06/05
% Moisture.....: 2.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.8	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342287
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-511

General Chemistry

Lot-Sample #....: A5L060207-004 Work Order #....: HRGRJ Matrix.....: SO
Date Sampled...: 12/03/05 09:17 Date Received...: 12/06/05
% Moisture.....: 1.3

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.7	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342287
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-512

General Chemistry

Lot-Sample #....: A5L060207-005 Work Order #....: HRGRL Matrix.....: SO
Date Sampled....: 12/03/05 09:20 Date Received...: 12/06/05
% Moisture.....: 1.3

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.7	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342287
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-513

General Chemistry

Lot-Sample #....: A5L060207-006 Work Order #....: HRGRM Matrix.....: SO
Date Sampled...: 12/03/05 09:22 Date Received...: 12/06/05
% Moisture.....: 2.4

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.6	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342287
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-514

General Chemistry

Lot-Sample #....: A5L060207-007 Work Order #....: HRGRP Matrix.....: SO
Date Sampled....: 12/03/05 09:25 Date Received...: 12/06/05
% Moisture.....: 2.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342287
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-515

General Chemistry

Lot-Sample #....: A5L060207-008 Work Order #....: HRGRT Matrix.....: SO
Date Sampled...: 12/03/05 09:27 Date Received...: 12/06/05
% Moisture.....: 3.4

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.6	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342287
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-516

General Chemistry

Lot-Sample #....: A5L060207-009 Work Order #....: HRGRW Matrix.....: SO
Date Sampled....: 12/03/05 09:30 Date Received...: 12/06/05
% Moisture.....: 7.5

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	92.5	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342287
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-517

General Chemistry

Lot-Sample #....: A5L060207-010 Work Order #....: HRGRX Matrix.....: SO
Date Sampled....: 12/03/05 09:32 Date Received...: 12/06/05
% Moisture.....: 2.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342287
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-518

General Chemistry

Lot-Sample #....: A5L060207-011 Work Order #....: HRGR7 Matrix.....: SO
Date Sampled....: 12/03/05 09:35 Date Received...: 12/06/05
% Moisture.....: 2.9

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.1	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342287
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-519

General Chemistry

Lot-Sample #....: A5L060207-012 Work Order #....: HRGTD Matrix.....: SO
Date Sampled....: 12/03/05 09:55 Date Received...: 12/06/05
% Moisture.....: 3.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.8	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342287
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-520

General Chemistry

Lot-Sample #....: A5L060207-013 Work Order #....: HRGTG Matrix.....: SO
Date Sampled...: 12/03/05 09:57 Date Received...: 12/06/05
% Moisture.....: 5.7

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	94.3	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342287
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-521

General Chemistry

Lot-Sample #....: A5L060207-014 Work Order #....: HRGTP Matrix.....: SO
Date Sampled...: 12/03/05 09:59 Date Received...: 12/06/05
% Moisture.....: 2.6

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342287
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-522

General Chemistry

Lot-Sample #....: A5L060207-015 Work Order #....: HRGTT Matrix.....: SO
Date Sampled....: 12/03/05 10:00 Date Received...: 12/06/05
% Moisture.....: 2.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.8	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342287
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-523

General Chemistry

Lot-Sample #....: A5L060207-016 Work Order #....: HRGTW Matrix.....: SO
Date Sampled...: 12/03/05 10:02 Date Received...: 12/06/05
% Moisture.....: 4.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.0	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342287
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-524

General Chemistry

Lot-Sample #....: A5L060207-017 Work Order #....: HRGT1 Matrix.....: SO
Date Sampled....: 12/03/05 10:05 Date Received...: 12/06/05
% Moisture.....: 4.5

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	95.5	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342287
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-525

General Chemistry

Lot-Sample #...: A5L060207-018 Work Order #...: HRGT3 Matrix.....: SO
Date Sampled...: 12/03/05 10:07 Date Received...: 12/06/05
% Moisture.....: 4.1

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	95.9	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342287
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-526

General Chemistry

Lot-Sample #....: A5L060207-019 Work Order #....: HRGT7 Matrix.....: SO
Date Sampled....: 12/03/05 10:10 Date Received...: 12/06/05
% Moisture.....: 2.7

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.3	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342287
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-527

General Chemistry

Lot-Sample #....: A5L060207-020 Work Order #....: HRGT8 Matrix.....: SO
Date Sampled...: 12/03/05 10:12 Date Received...: 12/06/05
% Moisture.....: 3.6

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.4	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342287
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-528

General Chemistry

Lot-Sample #....: A5L060207-021 Work Order #....: HRGVA Matrix.....: SO
Date Sampled....: 12/03/05 10:15 Date Received...: 12/06/05
% Moisture.....: 2.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.8	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342293
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-529

General Chemistry

Lot-Sample #....: A5L060207-022 Work Order #....: HRGVE Matrix.....: SO
Date Sampled...: 12/03/05 10:25 Date Received...: 12/06/05
% Moisture.....: 3.1

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.9	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342293
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-530

General Chemistry

Lot-Sample #....: A5L060207-023 Work Order #....: HRGVJ Matrix.....: SO
Date Sampled....: 12/03/05 10:27 Date Received...: 12/06/05
% Moisture.....: 2.4

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.6	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342293
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-531

General Chemistry

Lot-Sample #....: A5L060207-024 Work Order #....: HRGVL Matrix.....: SO
Date Sampled...: 12/03/05 10:30 Date Received..: 12/06/05
% Moisture.....: 3.1

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.9	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342293
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-532

General Chemistry

Lot-Sample #....: A5L060207-025 Work Order #....: HRGVQ Matrix.....: SO
Date Sampled...: 12/03/05 10:35 Date Received...: 12/06/05
% Moisture.....: 3.5

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.5	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342293
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-533

General Chemistry

Lot-Sample #...: A5L060207-026 Work Order #...: HRGVV Matrix.....: SO
Date Sampled...: 12/03/05 10:37 Date Received...: 12/06/05
% Moisture.....: 9.3

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	90.7	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342293
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-534

General Chemistry

Lot-Sample #....: A5L060207-027 Work Order #....: HRGVX Matrix.....: SO
Date Sampled....: 12/03/05 10:40 Date Received...: 12/06/05
% Moisture.....: 5.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	94.8	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342293
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-535

General Chemistry

Lot-Sample #....: A5L060207-028 Work Order #....: HRGV0 Matrix.....: SO
Date Sampled....: 12/03/05 10:42 Date Received...: 12/06/05
% Moisture.....: 7.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	92.8	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342293
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-536

General Chemistry

Lot-Sample #....: A5L060207-029 Work Order #....: HRGV3 Matrix.....: SO
Date Sampled....: 12/03/05 10:45 Date Received...: 12/06/05
% Moisture.....: 8.5

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	91.5	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342293
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-537

General Chemistry

Lot-Sample #....: A5L060207-030 Work Order #....: HRGWC Matrix.....: SO
Date Sampled...: 12/03/05 10:47 Date Received...: 12/06/05
% Moisture.....: 1.9

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342293
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-538

General Chemistry

Lot-Sample #....: A5L060207-031 Work Order #....: HRGWF Matrix.....: SO
Date Sampled....: 12/03/05 10:50 Date Received...: 12/06/05
% Moisture.....: 2.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342293
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-539

General Chemistry

Lot-Sample #...: A5L060207-032 Work Order #...: HRGWK Matrix.....: SO
Date Sampled...: 12/03/05 10:52 Date Received...: 12/06/05
% Moisture.....: 2.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342293
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-540

General Chemistry

Lot-Sample #....: A5L060207-033 Work Order #....: HRGWP Matrix.....: SO
Date Sampled....: 12/03/05 11:00 Date Received...: 12/06/05
% Moisture.....: 2.8

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.3	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342293
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-541

General Chemistry

Lot-Sample #....: A5L060207-034 Work Order #....: HRGWQ Matrix.....: SO
Date Sampled...: 12/03/05 11:02 Date Received...: 12/06/05
% Moisture.....: 2.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.8	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342293
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-542

General Chemistry

Lot-Sample #....: A5L060207-035 Work Order #....: HRGWR Matrix.....: SO
Date Sampled....: 12/03/05 11:05 Date Received...: 12/06/05
% Moisture.....: 1.1

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.9	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342293
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-543

General Chemistry

Lot-Sample #....: A5L060207-036 Work Order #....: HRGWW Matrix.....: SO
Date Sampled...: 12/03/05 11:10 Date Received...: 12/06/05
% Moisture.....: 1.8

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.2	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342293
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-544

General Chemistry

Lot-Sample #....: A5L060207-037 Work Order #....: HRGW0 Matrix.....: SO
Date Sampled....: 12/03/05 11:12 Date Received...: 12/06/05
% Moisture.....: 1.4

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.6	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342293
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-545

General Chemistry

Lot-Sample #....: A5L060207-038 Work Order #....: HRGW2 Matrix.....: SO
Date Sampled...: 12/03/05 11:15 Date Received...: 12/06/05
% Moisture.....: 1.8

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.2	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342293
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-546

General Chemistry

Lot-Sample #....: A5L060207-039 Work Order #....: HRGW3 Matrix.....: SO
Date Sampled....: 12/03/05 11:20 Date Received...: 12/06/05
% Moisture.....: 3.8

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.2	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342293
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-547

General Chemistry

Lot-Sample #....: A5L060207-040 Work Order #....: HRGW6 Matrix.....: SO
Date Sampled...: 12/03/05 11:25 Date Received...: 12/06/05
% Moisture.....: 2.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342293
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-548

General Chemistry

Lot-Sample #....: A5L060207-041 Work Order #....: HRGW7 Matrix.....: SO
Date Sampled....: 12/03/05 11:27 Date Received...: 12/06/05
% Moisture.....: 1.4

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.6	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342337
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-120305-DCR-549

General Chemistry

Lot-Sample #...: A5L060207-042 Work Order #...: HRGW8 Matrix.....: SO
Date Sampled...: 12/03/05 11:30 Date Received...: 12/06/05
% Moisture.....: 1.4

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.6	10.0	%	MCAWW 160.3 MOD	12/08-12/09/05	5342337
		Dilution Factor: 1		MDL.....: 10.0		



STL

QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A5L060207
MB Lot-Sample #: A5L080000-544

Work Order #....: HRQHH1AA

Matrix.....: SOLID

Analysis Date...: 12/08/05
Dilution Factor: 1

Prep Date.....: 12/07/05

Prep Batch #....: 5342544

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	600	ug/kg	SW846 8260B
Benzene	ND	40	ug/kg	SW846 8260B
Bromodichloromethane	ND	80	ug/kg	SW846 8260B
Bromoform	ND	80	ug/kg	SW846 8260B
Bromomethane	ND	200	ug/kg	SW846 8260B
2-Butanone	ND	600	ug/kg	SW846 8260B
Carbon disulfide	ND	200	ug/kg	SW846 8260B
Carbon tetrachloride	ND	40	ug/kg	SW846 8260B
Chlorobenzene	ND	40	ug/kg	SW846 8260B
Chloroethane	ND	200	ug/kg	SW846 8260B
Chloroform	ND	40	ug/kg	SW846 8260B
Chloromethane	ND	200	ug/kg	SW846 8260B
Cyclohexane	ND	960	ug/kg	SW846 8260B
Dibromochloromethane	ND	40	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	200	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	200	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	80	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	80	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	80	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	80	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	40	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	40	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	40	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	40	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	40	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	40	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	40	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	40	ug/kg	SW846 8260B
Ethylbenzene	ND	40	ug/kg	SW846 8260B
2-Hexanone	ND	2000	ug/kg	SW846 8260B
Isopropylbenzene	ND	200	ug/kg	SW846 8260B
Methyl acetate	ND	960	ug/kg	SW846 8260B
Methylene chloride	ND	200	ug/kg	SW846 8260B
Methylcyclohexane	ND	960	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	2000	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	200	ug/kg	SW846 8260B
Styrene	ND	40	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	SW846 8260B
Tetrachloroethene	ND	40	ug/kg	SW846 8260B
Toluene	ND	80	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A5L060207

Work Order #....: HRQHH1AA

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
1,2,4-Trichloro- benzene	ND	200	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	40	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	40	ug/kg	SW846 8260B
Trichloroethene	ND	40	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	80	ug/kg	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	SW846 8260B
Vinyl chloride	ND	80	ug/kg	SW846 8260B
Xylenes (total)	ND	120	ug/kg	SW846 8260B
SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
Dibromofluoromethane	98		(59 - 138)	
1,2-Dichloroethane-d4	93		(61 - 130)	
Toluene-d8	108		(60 - 143)	
4-Bromofluorobenzene	99		(47 - 158)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A5L060207
MB Lot-Sample #: A5L120000-611

Work Order #....: HRX571AA

Matrix.....: SOLID

Analysis Date...: 12/12/05
Dilution Factor: 1

Prep Date.....: 12/07/05

Prep Batch #....: 5346611

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	100 J	600	ug/kg	SW846 8260B
Benzene	ND	40	ug/kg	SW846 8260B
Bromodichloromethane	ND	80	ug/kg	SW846 8260B
Bromoform	ND	80	ug/kg	SW846 8260B
Bromomethane	ND	200	ug/kg	SW846 8260B
2-Butanone	ND	600	ug/kg	SW846 8260B
Carbon disulfide	ND	200	ug/kg	SW846 8260B
Carbon tetrachloride	ND	40	ug/kg	SW846 8260B
Chlorobenzene	ND	40	ug/kg	SW846 8260B
Chloroethane	ND	200	ug/kg	SW846 8260B
Chloroform	ND	40	ug/kg	SW846 8260B
Chloromethane	ND	200	ug/kg	SW846 8260B
Cyclohexane	ND	960	ug/kg	SW846 8260B
Dibromochloromethane	ND	40	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	200	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	80	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	80	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	80	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	80	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	40	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	40	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	40	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	40	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	40	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	40	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	40	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	40	ug/kg	SW846 8260B
Ethylbenzene	ND	40	ug/kg	SW846 8260B
2-Hexanone	ND	2000	ug/kg	SW846 8260B
Isopropylbenzene	ND	200	ug/kg	SW846 8260B
Methyl acetate	ND	960	ug/kg	SW846 8260B
Methylene chloride	ND	200	ug/kg	SW846 8260B
Methylcyclohexane	ND	960	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	2000	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	200	ug/kg	SW846 8260B
Styrene	ND	40	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	SW846 8260B
Tetrachloroethene	ND	40	ug/kg	SW846 8260B
Toluene	ND	80	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A5L060207

Work Order #....: HRX571AA

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
1,2,4-Trichloro- benzene	ND	200	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	40	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	40	ug/kg	SW846 8260B
Trichloroethene	ND	40	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	80	ug/kg	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	SW846 8260B
Vinyl chloride	ND	80	ug/kg	SW846 8260B
Xylenes (total)	ND	120	ug/kg	SW846 8260B
SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
Dibromofluoromethane	92		(59 - 138)	
1,2-Dichloroethane-d4	96		(61 - 130)	
Toluene-d8	106		(60 - 143)	
4-Bromofluorobenzene	99		(47 - 158)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A5L060207
MB Lot-Sample #: A5L120000-665

Work Order #....: HRX751AA

Matrix.....: SOLID

Analysis Date...: 12/12/05
Dilution Factor: 1

Prep Date.....: 12/07/05

Prep Batch #....: 5346665

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Acetone	ND	600	ug/kg		SW846 8260B
Benzene	ND	40	ug/kg		SW846 8260B
Bromodichloromethane	ND	80	ug/kg		SW846 8260B
Bromoform	ND	80	ug/kg		SW846 8260B
Bromomethane	ND	200	ug/kg		SW846 8260B
2-Butanone	ND	600	ug/kg		SW846 8260B
Carbon disulfide	ND	200	ug/kg		SW846 8260B
Carbon tetrachloride	ND	40	ug/kg		SW846 8260B
Chlorobenzene	ND	40	ug/kg		SW846 8260B
Chloroethane	ND	200	ug/kg		SW846 8260B
Chloroform	ND	40	ug/kg		SW846 8260B
Chloromethane	ND	200	ug/kg		SW846 8260B
Cyclohexane	ND	960	ug/kg		SW846 8260B
Dibromochloromethane	ND	40	ug/kg		SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg		SW846 8260B
1,2-Dibromoethane	ND	200	ug/kg		SW846 8260B
1,2-Dichlorobenzene	ND	80	ug/kg		SW846 8260B
1,3-Dichlorobenzene	ND	80	ug/kg		SW846 8260B
1,4-Dichlorobenzene	ND	80	ug/kg		SW846 8260B
Dichlorodifluoromethane	ND	80	ug/kg		SW846 8260B
1,1-Dichloroethane	ND	40	ug/kg		SW846 8260B
1,2-Dichloroethane	ND	40	ug/kg		SW846 8260B
1,1-Dichloroethene	ND	40	ug/kg		SW846 8260B
cis-1,2-Dichloroethene	ND	40	ug/kg		SW846 8260B
trans-1,2-Dichloroethene	ND	40	ug/kg		SW846 8260B
1,2-Dichloropropane	ND	40	ug/kg		SW846 8260B
cis-1,3-Dichloropropene	ND	40	ug/kg		SW846 8260B
trans-1,3-Dichloropropene	ND	40	ug/kg		SW846 8260B
Ethylbenzene	ND	40	ug/kg		SW846 8260B
2-Hexanone	ND	2000	ug/kg		SW846 8260B
Isopropylbenzene	ND	200	ug/kg		SW846 8260B
Methyl acetate	ND	960	ug/kg		SW846 8260B
Methylene chloride	ND	200	ug/kg		SW846 8260B
Methylcyclohexane	ND	960	ug/kg		SW846 8260B
4-Methyl-2-pentanone	ND	2000	ug/kg		SW846 8260B
Methyl tert-butyl ether	ND	200	ug/kg		SW846 8260B
Styrene	ND	40	ug/kg		SW846 8260B
1,1,2,2-Tetrachloroethane	ND	80	ug/kg		SW846 8260B
Tetrachloroethene	ND	40	ug/kg		SW846 8260B
Toluene	ND	80	ug/kg		SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A5L060207

Work Order #...: HRX751AA

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
1,2,4-Trichloro-benzene	ND	200	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	40	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	40	ug/kg	SW846 8260B
Trichloroethene	ND	40	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	80	ug/kg	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	200	ug/kg	SW846 8260B
Vinyl chloride	ND	80	ug/kg	SW846 8260B
Xylenes (total)	ND	120	ug/kg	SW846 8260B
SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
Dibromofluoromethane	96		(59 - 138)	
1,2-Dichloroethane-d4	94		(61 - 130)	
Toluene-d8	106		(60 - 143)	
4-Bromofluorobenzene	95		(47 - 158)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5L060207 Work Order #....: HRQHH1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A5L080000-544 HRQHH1AD-LCSD
 Prep Date.....: 12/07/05 Analysis Date...: 12/08/05
 Prep Batch #....: 5342544
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acetone	500	320	ug/kg	65		SW846 8260B
	500	310	ug/kg	62	4.7	SW846 8260B
Benzene	500	490	ug/kg	97		SW846 8260B
	500	500	ug/kg	100	2.4	SW846 8260B
Bromodichloromethane	500	420	ug/kg	84		SW846 8260B
	500	400	ug/kg	79	5.6	SW846 8260B
Bromoform	500	370	ug/kg	74		SW846 8260B
	500	340	ug/kg	69	7.6	SW846 8260B
Bromomethane	500	230	ug/kg	46		SW846 8260B
	500	220	ug/kg	44	5.0	SW846 8260B
2-Butanone	500	380	ug/kg	76		SW846 8260B
	500	370	ug/kg	74	1.7	SW846 8260B
Carbon disulfide	500	450	ug/kg	90		SW846 8260B
	500	460	ug/kg	91	1.7	SW846 8260B
Carbon tetrachloride	500	440	ug/kg	89		SW846 8260B
	500	420	ug/kg	84	5.8	SW846 8260B
Chlorobenzene	500	510	ug/kg	102		SW846 8260B
	500	510	ug/kg	103	0.12	SW846 8260B
Chloroethane	500	300	ug/kg	61		SW846 8260B
	500	280	ug/kg	56	7.5	SW846 8260B
Chloroform	500	500	ug/kg	100		SW846 8260B
	500	490	ug/kg	99	1.8	SW846 8260B
Chloromethane	500	420	ug/kg	84		SW846 8260B
	500	430	ug/kg	87	3.4	SW846 8260B
Dibromochloromethane	500	400	ug/kg	80		SW846 8260B
	500	390	ug/kg	77	4.0	SW846 8260B
1,1-Dichloroethane	500	520	ug/kg	105		SW846 8260B
	500	530	ug/kg	105	0.37	SW846 8260B
1,2-Dichloroethane	500	490	ug/kg	97		SW846 8260B
	500	490	ug/kg	98	0.82	SW846 8260B
1,1-Dichloroethene	500	540	ug/kg	108		SW846 8260B
	500	530	ug/kg	106	1.3	SW846 8260B
cis-1,2-Dichloroethene	500	470	ug/kg	93		SW846 8260B
	500	470	ug/kg	94	0.80	SW846 8260B
trans-1,2-Dichloroethene	500	510	ug/kg	102		SW846 8260B
	500	520	ug/kg	103	1.5	SW846 8260B
1,2-Dichloropropane	500	520	ug/kg	103		SW846 8260B
	500	510	ug/kg	102	1.1	SW846 8260B
cis-1,3-Dichloropropene	500	480	ug/kg	95		SW846 8260B
	500	450	ug/kg	90	5.7	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5L060207 Work Order #....: HRQHH1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A5L080000-544 HRQHH1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
trans-1,3-Dichloropropene	500	460	ug/kg	91		SW846 8260B
	500	430	ug/kg	86	5.5	SW846 8260B
Ethylbenzene	500	510	ug/kg	102		SW846 8260B
	500	510	ug/kg	103	0.33	SW846 8260B
2-Hexanone	500	380	ug/kg	76		SW846 8260B
	500	420	ug/kg	85	11	SW846 8260B
Methylene chloride	500	390	ug/kg	77		SW846 8260B
	500	390	ug/kg	77	0.15	SW846 8260B
4-Methyl-2-pentanone	500	460	ug/kg	93		SW846 8260B
	500	430	ug/kg	86	7.7	SW846 8260B
Methyl tert-butyl ether	500	630	ug/kg	125		SW846 8260B
	500	630	ug/kg	126	0.58	SW846 8260B
Styrene	500	500	ug/kg	100		SW846 8260B
	500	520	ug/kg	104	3.3	SW846 8260B
1,1,2,2-Tetrachloroethane	500	490	ug/kg	97		SW846 8260B
	500	470	ug/kg	94	3.5	SW846 8260B
Tetrachloroethene	500	540	ug/kg	109		SW846 8260B
	500	530	ug/kg	107	1.9	SW846 8260B
Toluene	500	520	ug/kg	104		SW846 8260B
	500	520	ug/kg	105	0.090	SW846 8260B
1,1,1-Trichloroethane	500	510	ug/kg	103		SW846 8260B
	500	500	ug/kg	100	2.9	SW846 8260B
1,1,2-Trichloroethane	500	510	ug/kg	103		SW846 8260B
	500	520	ug/kg	105	2.3	SW846 8260B
Trichloroethene	500	490	ug/kg	99		SW846 8260B
	500	500	ug/kg	100	1.7	SW846 8260B
Vinyl chloride	500	480	ug/kg	95		SW846 8260B
	500	490	ug/kg	99	3.7	SW846 8260B
Xylenes (total)	1500	1600	ug/kg	105		SW846 8260B
	1500	1600	ug/kg	105	0.65	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(59 - 138)
	101	(59 - 138)
1,2-Dichloroethane-d4	99	(61 - 130)
	98	(61 - 130)
Toluene-d8	106	(60 - 143)
	105	(60 - 143)
4-Bromofluorobenzene	100	(47 - 158)
	98	(47 - 158)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5L060207 Work Order #....: HRQHH1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A5L080000-544 HRQHH1AD-LCSD
 Prep Date.....: 12/07/05 Analysis Date...: 12/08/05
 Prep Batch #....: 5342544
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	65	(58 - 130)			SW846 8260B
	62	(58 - 130)	4.7	(0-30)	SW846 8260B
Benzene	97	(75 - 129)			SW846 8260B
	100	(75 - 129)	2.4	(0-20)	SW846 8260B
Bromodichloromethane	84	(72 - 125)			SW846 8260B
	79	(72 - 125)	5.6	(0-30)	SW846 8260B
Bromoform	74	(43 - 149)			SW846 8260B
	69	(43 - 149)	7.6	(0-30)	SW846 8260B
Bromomethane	46	(24 - 152)			SW846 8260B
	44	(24 - 152)	5.0	(0-30)	SW846 8260B
2-Butanone	76	(27 - 200)			SW846 8260B
	74	(27 - 200)	1.7	(0-46)	SW846 8260B
Carbon disulfide	90	(50 - 137)			SW846 8260B
	91	(50 - 137)	1.7	(0-30)	SW846 8260B
Carbon tetrachloride	89	(57 - 137)			SW846 8260B
	84	(57 - 137)	5.8	(0-30)	SW846 8260B
Chlorobenzene	102	(75 - 127)			SW846 8260B
	103	(75 - 127)	0.12	(0-22)	SW846 8260B
Chloroethane	61	(31 - 144)			SW846 8260B
	56	(31 - 144)	7.5	(0-30)	SW846 8260B
Chloroform	100	(73 - 115)			SW846 8260B
	99	(73 - 115)	1.8	(0-30)	SW846 8260B
Chloromethane	84	(15 - 136)			SW846 8260B
	87	(15 - 136)	3.4	(0-30)	SW846 8260B
Dibromochloromethane	80	(49 - 135)			SW846 8260B
	77	(49 - 135)	4.0	(0-30)	SW846 8260B
1,1-Dichloroethane	105	(77 - 119)			SW846 8260B
	105	(77 - 119)	0.37	(0-30)	SW846 8260B
1,2-Dichloroethane	97	(78 - 121)			SW846 8260B
	98	(78 - 121)	0.82	(0-30)	SW846 8260B
1,1-Dichloroethene	108	(55 - 142)			SW846 8260B
	106	(55 - 142)	1.3	(0-27)	SW846 8260B
cis-1,2-Dichloroethene	93	(77 - 114)			SW846 8260B
	94	(77 - 114)	0.80	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	102	(68 - 117)			SW846 8260B
	103	(68 - 117)	1.5	(0-30)	SW846 8260B
1,2-Dichloropropane	103	(78 - 116)			SW846 8260B
	102	(78 - 116)	1.1	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	95	(71 - 125)			SW846 8260B
	90	(71 - 125)	5.7	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5L060207 **Work Order #....:** HRQHH1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A5L080000-544 HRQHH1AD-LCSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
trans-1,3-Dichloropropene	91	(67 - 125)			SW846 8260B
	86	(67 - 125)	5.5	(0-30)	SW846 8260B
Ethylbenzene	102	(79 - 114)			SW846 8260B
	103	(79 - 114)	0.33	(0-30)	SW846 8260B
2-Hexanone	76	(29 - 200)			SW846 8260B
	85	(29 - 200)	11	(0-41)	SW846 8260B
Methylene chloride	77	(58 - 130)			SW846 8260B
	77	(58 - 130)	0.15	(0-30)	SW846 8260B
4-Methyl-2-pentanone	93	(68 - 142)			SW846 8260B
	86	(68 - 142)	7.7	(0-60)	SW846 8260B
Methyl tert-butyl ether	125	(70 - 130)			SW846 8260B
	126	(70 - 130)	0.58	(0-30)	SW846 8260B
Styrene	100	(80 - 114)			SW846 8260B
	104	(80 - 114)	3.3	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	97	(70 - 133)			SW846 8260B
	94	(70 - 133)	3.5	(0-30)	SW846 8260B
Tetrachloroethene	109	(72 - 120)			SW846 8260B
	107	(72 - 120)	1.9	(0-30)	SW846 8260B
Toluene	104	(71 - 130)			SW846 8260B
	105	(71 - 130)	0.090	(0-24)	SW846 8260B
1,1,1-Trichloroethane	103	(67 - 123)			SW846 8260B
	100	(67 - 123)	2.9	(0-30)	SW846 8260B
1,1,2-Trichloroethane	103	(82 - 116)			SW846 8260B
	105	(82 - 116)	2.3	(0-30)	SW846 8260B
Trichloroethene	99	(70 - 131)			SW846 8260B
	100	(70 - 131)	1.7	(0-23)	SW846 8260B
Vinyl chloride	95	(24 - 152)			SW846 8260B
	99	(24 - 152)	3.7	(0-30)	SW846 8260B
Xylenes (total)	105	(80 - 114)			SW846 8260B
	105	(80 - 114)	0.65	(0-30)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	101	(59 - 138)
	101	(59 - 138)
1,2-Dichloroethane-d4	99	(61 - 130)
	98	(61 - 130)
Toluene-d8	106	(60 - 143)
	105	(60 - 143)
4-Bromofluorobenzene	100	(47 - 158)
	98	(47 - 158)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5L060207 Work Order #....: HRX571AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A5L120000-611 HRX571AD-LCSD
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acetone	500	350	ug/kg	70		SW846 8260B
	500	360	ug/kg	72	3.6	SW846 8260B
Benzene	500	460	ug/kg	92		SW846 8260B
	500	480	ug/kg	97	5.0	SW846 8260B
Bromodichloromethane	500	380	ug/kg	76		SW846 8260B
	500	380	ug/kg	76	0.14	SW846 8260B
Bromoform	500	350	ug/kg	69		SW846 8260B
	500	350	ug/kg	71	2.2	SW846 8260B
Bromomethane	500	390	ug/kg	79		SW846 8260B
	500	420	ug/kg	83	5.5	SW846 8260B
2-Butanone	500	380	ug/kg	75		SW846 8260B
	500	390	ug/kg	77	3.0	SW846 8260B
Carbon disulfide	500	410	ug/kg	81		SW846 8260B
	500	410	ug/kg	83	1.5	SW846 8260B
Carbon tetrachloride	500	430	ug/kg	87		SW846 8260B
	500	420	ug/kg	84	2.9	SW846 8260B
Chlorobenzene	500	470	ug/kg	95		SW846 8260B
	500	490	ug/kg	98	3.5	SW846 8260B
Chloroethane	500	440	ug/kg	89		SW846 8260B
	500	450	ug/kg	89	0.49	SW846 8260B
Chloroform	500	460	ug/kg	91		SW846 8260B
	500	460	ug/kg	92	0.79	SW846 8260B
Chloromethane	500	380	ug/kg	76		SW846 8260B
	500	390	ug/kg	77	1.2	SW846 8260B
Dibromochloromethane	500	350	ug/kg	69		SW846 8260B
	500	340	ug/kg	69	0.48	SW846 8260B
1,1-Dichloroethane	500	480	ug/kg	97		SW846 8260B
	500	500	ug/kg	99	2.7	SW846 8260B
1,2-Dichloroethane	500	460	ug/kg	93		SW846 8260B
	500	470	ug/kg	95	2.1	SW846 8260B
1,1-Dichloroethene	500	530	ug/kg	106		SW846 8260B
	500	530	ug/kg	106	0.020	SW846 8260B
cis-1,2-Dichloroethene	500	430	ug/kg	86		SW846 8260B
	500	440	ug/kg	88	2.0	SW846 8260B
trans-1,2-Dichloroethene	500	470	ug/kg	94		SW846 8260B
	500	490	ug/kg	97	3.2	SW846 8260B
1,2-Dichloropropane	500	480	ug/kg	96		SW846 8260B
	500	480	ug/kg	95	0.18	SW846 8260B
cis-1,3-Dichloropropene	500	430	ug/kg	87		SW846 8260B
	500	450	ug/kg	90	3.7	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5L060207 Work Order #....: HRX571AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A5L120000-611 HRX571AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
trans-1,3-Dichloropropene	500	420	ug/kg	85		SW846 8260B
	500	420	ug/kg	85	0.15	SW846 8260B
Ethylbenzene	500	490	ug/kg	98		SW846 8260B
	500	490	ug/kg	99	0.46	SW846 8260B
2-Hexanone	500	370	ug/kg	75		SW846 8260B
	500	380	ug/kg	76	0.97	SW846 8260B
Methylene chloride	500	520	ug/kg	103		SW846 8260B
	500	540	ug/kg	108	4.0	SW846 8260B
4-Methyl-2-pentanone	500	420	ug/kg	85		SW846 8260B
	500	430	ug/kg	86	0.76	SW846 8260B
Methyl tert-butyl ether	500	500	ug/kg	99		SW846 8260B
	500	520	ug/kg	105	5.0	SW846 8260B
Styrene	500	430	ug/kg	87		SW846 8260B
	500	430	ug/kg	87	0.010	SW846 8260B
1,1,2,2-Tetrachloroethane	500	470	ug/kg	93		SW846 8260B
	500	480	ug/kg	97	3.7	SW846 8260B
Tetrachloroethene	500	530	ug/kg	105		SW846 8260B
	500	500	ug/kg	101	3.9	SW846 8260B
Toluene	500	490	ug/kg	97		SW846 8260B
	500	510	ug/kg	101	4.2	SW846 8260B
1,1,1-Trichloroethane	500	470	ug/kg	94		SW846 8260B
	500	470	ug/kg	93	0.68	SW846 8260B
1,1,2-Trichloroethane	500	480	ug/kg	96		SW846 8260B
	500	490	ug/kg	97	1.2	SW846 8260B
Trichloroethene	500	480	ug/kg	95		SW846 8260B
	500	500	ug/kg	99	4.2	SW846 8260B
Vinyl chloride	500	420	ug/kg	84		SW846 8260B
	500	410	ug/kg	81	3.4	SW846 8260B
Xylenes (total)	1500	1400	ug/kg	95		SW846 8260B
	1500	1400	ug/kg	96	1.5	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(59 - 138)
	100	(59 - 138)
1,2-Dichloroethane-d4	98	(61 - 130)
	101	(61 - 130)
Toluene-d8	110	(60 - 143)
	109	(60 - 143)
4-Bromofluorobenzene	104	(47 - 158)
	106	(47 - 158)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5L060207 Work Order #....: HRX571AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A5L120000-611 HRX571AD-LCSD
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	70	(58 - 130)			SW846 8260B
	72	(58 - 130)	3.6	(0-30)	SW846 8260B
Benzene	92	(75 - 129)			SW846 8260B
	97	(75 - 129)	5.0	(0-20)	SW846 8260B
Bromodichloromethane	76	(72 - 125)			SW846 8260B
	76	(72 - 125)	0.14	(0-30)	SW846 8260B
Bromoform	69	(43 - 149)			SW846 8260B
	71	(43 - 149)	2.2	(0-30)	SW846 8260B
Bromomethane	79	(24 - 152)			SW846 8260B
	83	(24 - 152)	5.5	(0-30)	SW846 8260B
2-Butanone	75	(27 - 200)			SW846 8260B
	77	(27 - 200)	3.0	(0-46)	SW846 8260B
Carbon disulfide	81	(50 - 137)			SW846 8260B
	83	(50 - 137)	1.5	(0-30)	SW846 8260B
Carbon tetrachloride	87	(57 - 137)			SW846 8260B
	84	(57 - 137)	2.9	(0-30)	SW846 8260B
Chlorobenzene	95	(75 - 127)			SW846 8260B
	98	(75 - 127)	3.5	(0-22)	SW846 8260B
Chloroethane	89	(31 - 144)			SW846 8260B
	89	(31 - 144)	0.49	(0-30)	SW846 8260B
Chloroform	91	(73 - 115)			SW846 8260B
	92	(73 - 115)	0.79	(0-30)	SW846 8260B
Chloromethane	76	(15 - 136)			SW846 8260B
	77	(15 - 136)	1.2	(0-30)	SW846 8260B
Dibromochloromethane	69	(49 - 135)			SW846 8260B
	69	(49 - 135)	0.48	(0-30)	SW846 8260B
1,1-Dichloroethane	97	(77 - 119)			SW846 8260B
	99	(77 - 119)	2.7	(0-30)	SW846 8260B
1,2-Dichloroethane	93	(78 - 121)			SW846 8260B
	95	(78 - 121)	2.1	(0-30)	SW846 8260B
1,1-Dichloroethene	106	(55 - 142)			SW846 8260B
	106	(55 - 142)	0.020	(0-27)	SW846 8260B
cis-1,2-Dichloroethene	86	(77 - 114)			SW846 8260B
	88	(77 - 114)	2.0	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	94	(68 - 117)			SW846 8260B
	97	(68 - 117)	3.2	(0-30)	SW846 8260B
1,2-Dichloropropane	96	(78 - 116)			SW846 8260B
	95	(78 - 116)	0.18	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	87	(71 - 125)			SW846 8260B
	90	(71 - 125)	3.7	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5L060207 Work Order #....: HRX571AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A5L120000-611 HRX571AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
trans-1,3-Dichloropropene	85	(67 - 125)			SW846 8260B
	85	(67 - 125)	0.15	(0-30)	SW846 8260B
Ethylbenzene	98	(79 - 114)			SW846 8260B
	99	(79 - 114)	0.46	(0-30)	SW846 8260B
2-Hexanone	75	(29 - 200)			SW846 8260B
	76	(29 - 200)	0.97	(0-41)	SW846 8260B
Methylene chloride	103	(58 - 130)			SW846 8260B
	108	(58 - 130)	4.0	(0-30)	SW846 8260B
4-Methyl-2-pentanone	85	(68 - 142)			SW846 8260B
	86	(68 - 142)	0.76	(0-60)	SW846 8260B
Methyl tert-butyl ether	99	(70 - 130)			SW846 8260B
	105	(70 - 130)	5.0	(0-30)	SW846 8260B
Styrene	87	(80 - 114)			SW846 8260B
	87	(80 - 114)	0.010	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	93	(70 - 133)			SW846 8260B
	97	(70 - 133)	3.7	(0-30)	SW846 8260B
Tetrachloroethene	105	(72 - 120)			SW846 8260B
	101	(72 - 120)	3.9	(0-30)	SW846 8260B
Toluene	97	(71 - 130)			SW846 8260B
	101	(71 - 130)	4.2	(0-24)	SW846 8260B
1,1,1-Trichloroethane	94	(67 - 123)			SW846 8260B
	93	(67 - 123)	0.68	(0-30)	SW846 8260B
1,1,2-Trichloroethane	96	(82 - 116)			SW846 8260B
	97	(82 - 116)	1.2	(0-30)	SW846 8260B
Trichloroethene	95	(70 - 131)			SW846 8260B
	99	(70 - 131)	4.2	(0-23)	SW846 8260B
Vinyl chloride	84	(24 - 152)			SW846 8260B
	81	(24 - 152)	3.4	(0-30)	SW846 8260B
Xylenes (total)	95	(80 - 114)			SW846 8260B
	96	(80 - 114)	1.5	(0-30)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(59 - 138)
	100	(59 - 138)
1,2-Dichloroethane-d4	98	(61 - 130)
	101	(61 - 130)
Toluene-d8	110	(60 - 143)
	109	(60 - 143)
4-Bromofluorobenzene	104	(47 - 158)
	106	(47 - 158)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5L060207 Work Order #....: HRX751AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A5L120000-665 HRX751AD-LCSD
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346665
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acetone	500	250 a	ug/kg	51		SW846 8260B
	500	240 a	ug/kg	47	7.5	SW846 8260B
Benzene	500	480	ug/kg	95		SW846 8260B
	500	490	ug/kg	98	3.0	SW846 8260B
Bromodichloromethane	500	420	ug/kg	84		SW846 8260B
	500	410	ug/kg	83	0.71	SW846 8260B
Bromoform	500	380	ug/kg	77		SW846 8260B
	500	350	ug/kg	71	8.0	SW846 8260B
Bromomethane	500	260	ug/kg	51		SW846 8260B
	500	240	ug/kg	48	6.8	SW846 8260B
2-Butanone	500	330	ug/kg	67		SW846 8260B
	500	350	ug/kg	71	6.3	SW846 8260B
Carbon disulfide	500	440	ug/kg	89		SW846 8260B
	500	460	ug/kg	91	2.8	SW846 8260B
Carbon tetrachloride	500	470	ug/kg	94		SW846 8260B
	500	450	ug/kg	91	3.3	SW846 8260B
Chlorobenzene	500	510	ug/kg	101		SW846 8260B
	500	510	ug/kg	102	0.65	SW846 8260B
Chloroethane	500	350	ug/kg	70		SW846 8260B
	500	310	ug/kg	61	13	SW846 8260B
Chloroform	500	490	ug/kg	97		SW846 8260B
	500	500	ug/kg	100	2.3	SW846 8260B
Chloromethane	500	420	ug/kg	84		SW846 8260B
	500	420	ug/kg	85	0.87	SW846 8260B
Dibromochloromethane	500	420	ug/kg	83		SW846 8260B
	500	400	ug/kg	80	3.7	SW846 8260B
1,1-Dichloroethane	500	500	ug/kg	100		SW846 8260B
	500	520	ug/kg	103	3.2	SW846 8260B
1,2-Dichloroethane	500	480	ug/kg	96		SW846 8260B
	500	480	ug/kg	97	0.87	SW846 8260B
1,1-Dichloroethene	500	500	ug/kg	101		SW846 8260B
	500	520	ug/kg	104	2.6	SW846 8260B
cis-1,2-Dichloroethene	500	450	ug/kg	89		SW846 8260B
	500	460	ug/kg	92	2.6	SW846 8260B
trans-1,2-Dichloroethene	500	500	ug/kg	100		SW846 8260B
	500	510	ug/kg	102	2.7	SW846 8260B
1,2-Dichloropropane	500	490	ug/kg	98		SW846 8260B
	500	500	ug/kg	100	1.8	SW846 8260B
cis-1,3-Dichloropropene	500	470	ug/kg	93		SW846 8260B
	500	460	ug/kg	92	1.5	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5L060207 **Work Order #....:** HRX751AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A5L120000-665 HRX751AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
trans-1,3-Dichloropropene	500	440	ug/kg	87		SW846 8260B
	500	430	ug/kg	86	2.1	SW846 8260B
Ethylbenzene	500	490	ug/kg	97		SW846 8260B
	500	500	ug/kg	101	3.6	SW846 8260B
2-Hexanone	500	360	ug/kg	72		SW846 8260B
	500	370	ug/kg	73	0.91	SW846 8260B
Methylene chloride	500	400	ug/kg	79		SW846 8260B
	500	410	ug/kg	81	1.9	SW846 8260B
4-Methyl-2-pentanone	500	390	ug/kg	77		SW846 8260B
	500	380	ug/kg	77	0.76	SW846 8260B
Methyl tert-butyl ether	500	580	ug/kg	116		SW846 8260B
	500	600	ug/kg	120	3.6	SW846 8260B
Styrene	500	480	ug/kg	95		SW846 8260B
	500	500	ug/kg	100	4.5	SW846 8260B
1,1,2,2-Tetrachloroethane	500	440	ug/kg	88		SW846 8260B
	500	470	ug/kg	94	7.4	SW846 8260B
Tetrachloroethene	500	510	ug/kg	102		SW846 8260B
	500	520	ug/kg	104	2.1	SW846 8260B
Toluene	500	490	ug/kg	99		SW846 8260B
	500	510	ug/kg	103	4.3	SW846 8260B
1,1,1-Trichloroethane	500	490	ug/kg	97		SW846 8260B
	500	480	ug/kg	97	0.29	SW846 8260B
1,1,2-Trichloroethane	500	490	ug/kg	97		SW846 8260B
	500	510	ug/kg	101	4.1	SW846 8260B
Trichloroethene	500	480	ug/kg	96		SW846 8260B
	500	490	ug/kg	98	1.4	SW846 8260B
Vinyl chloride	500	470	ug/kg	94		SW846 8260B
	500	480	ug/kg	97	2.9	SW846 8260B
Xylenes (total)	1500	1500	ug/kg	98		SW846 8260B
	1500	1500	ug/kg	103	4.4	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(59 - 138)
	101	(59 - 138)
1,2-Dichloroethane-d4	96	(61 - 130)
	98	(61 - 130)
Toluene-d8	104	(60 - 143)
	106	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)
	98	(47 - 158)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5L060207 Work Order #....: HRX751AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A5L120000-665 HRX751AD-LCSD
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346665
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	51 a	(58 - 130)			SW846 8260B
	47 a	(58 - 130)	7.5	(0-30)	SW846 8260B
Benzene	95	(75 - 129)			SW846 8260B
	98	(75 - 129)	3.0	(0-20)	SW846 8260B
Bromodichloromethane	84	(72 - 125)			SW846 8260B
	83	(72 - 125)	0.71	(0-30)	SW846 8260B
Bromoform	77	(43 - 149)			SW846 8260B
	71	(43 - 149)	8.0	(0-30)	SW846 8260B
Bromomethane	51	(24 - 152)			SW846 8260B
	48	(24 - 152)	6.8	(0-30)	SW846 8260B
2-Butanone	67	(27 - 200)			SW846 8260B
	71	(27 - 200)	6.3	(0-46)	SW846 8260B
Carbon disulfide	89	(50 - 137)			SW846 8260B
	91	(50 - 137)	2.8	(0-30)	SW846 8260B
Carbon tetrachloride	94	(57 - 137)			SW846 8260B
	91	(57 - 137)	3.3	(0-30)	SW846 8260B
Chlorobenzene	101	(75 - 127)			SW846 8260B
	102	(75 - 127)	0.65	(0-22)	SW846 8260B
Chloroethane	70	(31 - 144)			SW846 8260B
	61	(31 - 144)	13	(0-30)	SW846 8260B
Chloroform	97	(73 - 115)			SW846 8260B
	100	(73 - 115)	2.3	(0-30)	SW846 8260B
Chloromethane	84	(15 - 136)			SW846 8260B
	85	(15 - 136)	0.87	(0-30)	SW846 8260B
Dibromochloromethane	83	(49 - 135)			SW846 8260B
	80	(49 - 135)	3.7	(0-30)	SW846 8260B
1,1-Dichloroethane	100	(77 - 119)			SW846 8260B
	103	(77 - 119)	3.2	(0-30)	SW846 8260B
1,2-Dichloroethane	96	(78 - 121)			SW846 8260B
	97	(78 - 121)	0.87	(0-30)	SW846 8260B
1,1-Dichloroethene	101	(55 - 142)			SW846 8260B
	104	(55 - 142)	2.6	(0-27)	SW846 8260B
cis-1,2-Dichloroethene	89	(77 - 114)			SW846 8260B
	92	(77 - 114)	2.6	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	100	(68 - 117)			SW846 8260B
	102	(68 - 117)	2.7	(0-30)	SW846 8260B
1,2-Dichloropropane	98	(78 - 116)			SW846 8260B
	100	(78 - 116)	1.8	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	93	(71 - 125)			SW846 8260B
	92	(71 - 125)	1.5	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5L060207 Work Order #....: HRX751AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A5L120000-665 HRX751AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
trans-1,3-Dichloropropene	87	(67 - 125)			SW846 8260B
	86	(67 - 125)	2.1	(0-30)	SW846 8260B
Ethylbenzene	97	(79 - 114)			SW846 8260B
	101	(79 - 114)	3.6	(0-30)	SW846 8260B
2-Hexanone	72	(29 - 200)			SW846 8260B
	73	(29 - 200)	0.91	(0-41)	SW846 8260B
Methylene chloride	79	(58 - 130)			SW846 8260B
	81	(58 - 130)	1.9	(0-30)	SW846 8260B
4-Methyl-2-pentanone	77	(68 - 142)			SW846 8260B
	77	(68 - 142)	0.76	(0-60)	SW846 8260B
Methyl tert-butyl ether	116	(70 - 130)			SW846 8260B
	120	(70 - 130)	3.6	(0-30)	SW846 8260B
Styrene	95	(80 - 114)			SW846 8260B
	100	(80 - 114)	4.5	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	88	(70 - 133)			SW846 8260B
	94	(70 - 133)	7.4	(0-30)	SW846 8260B
Tetrachloroethene	102	(72 - 120)			SW846 8260B
	104	(72 - 120)	2.1	(0-30)	SW846 8260B
Toluene	99	(71 - 130)			SW846 8260B
	103	(71 - 130)	4.3	(0-24)	SW846 8260B
1,1,1-Trichloroethane	97	(67 - 123)			SW846 8260B
	97	(67 - 123)	0.29	(0-30)	SW846 8260B
1,1,2-Trichloroethane	97	(82 - 116)			SW846 8260B
	101	(82 - 116)	4.1	(0-30)	SW846 8260B
Trichloroethene	96	(70 - 131)			SW846 8260B
	98	(70 - 131)	1.4	(0-23)	SW846 8260B
Vinyl chloride	94	(24 - 152)			SW846 8260B
	97	(24 - 152)	2.9	(0-30)	SW846 8260B
Xylenes (total)	98	(80 - 114)			SW846 8260B
	103	(80 - 114)	4.4	(0-30)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(59 - 138)
	101	(59 - 138)
1,2-Dichloroethane-d4	96	(61 - 130)
	98	(61 - 130)
Toluene-d8	104	(60 - 143)
	106	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)
	98	(47 - 158)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5L060207 Work Order #....: HRGRX1AD-MS Matrix.....: SO
 MS Lot-Sample #: A5L060207-010 HRGRX1AE-MSD
 Date Sampled...: 12/03/05 09:32 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 1.01

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acetone	ND	520	290	ug/kg	41		SW846 8260B
	ND	540	310	ug/kg	43	8.4	SW846 8260B
Benzene	ND	520	380	ug/kg	74		SW846 8260B
	ND	540	410	ug/kg	75	6.4	SW846 8260B
Bromodichloromethane	ND	520	270	ug/kg	53		SW846 8260B
	ND	540	300	ug/kg	55	9.6	SW846 8260B
Bromoform	ND	520	270	ug/kg	53		SW846 8260B
	ND	540	300	ug/kg	55	10	SW846 8260B
Bromomethane	ND	520	340	ug/kg	66		SW846 8260B
	ND	540	350	ug/kg	65	3.1	SW846 8260B
2-Butanone	ND	520	290	ug/kg	56		SW846 8260B
	ND	540	320	ug/kg	58	8.5	SW846 8260B
Carbon disulfide	ND	520	310	ug/kg	60		SW846 8260B
	ND	540	340	ug/kg	63	11	SW846 8260B
Carbon tetrachloride	ND	520	310	ug/kg	60		SW846 8260B
	ND	540	340	ug/kg	63	10	SW846 8260B
Chlorobenzene	ND	520	380	ug/kg	73		SW846 8260B
	ND	540	400	ug/kg	74	6.5	SW846 8260B
Chloroethane	ND	520	370	ug/kg	71		SW846 8260B
	ND	540	390	ug/kg	71	5.0	SW846 8260B
Chloroform	ND	520	360	ug/kg	70		SW846 8260B
	ND	540	390	ug/kg	72	7.8	SW846 8260B
Chloromethane	ND	520	310	ug/kg	60		SW846 8260B
	ND	540	340	ug/kg	63	8.8	SW846 8260B
Dibromochloromethane	ND	520	240	ug/kg	47		SW846 8260B
	ND	540	270	ug/kg	50	11	SW846 8260B
1,1-Dichloroethane	ND	520	390	ug/kg	75		SW846 8260B
	ND	540	420	ug/kg	77	7.4	SW846 8260B
1,2-Dichloroethane	ND	520	390	ug/kg	75		SW846 8260B
	ND	540	400	ug/kg	73	2.2	SW846 8260B
1,1-Dichloroethene	ND	520	410	ug/kg	80		SW846 8260B
	ND	540	460	ug/kg	84	10	SW846 8260B
cis-1,2-Dichloroethene	ND	520	340	ug/kg	67		SW846 8260B
	ND	540	370	ug/kg	68	7.1	SW846 8260B
trans-1,2-Dichloroethene	ND	520	390	ug/kg	76		SW846 8260B
	ND	540	410	ug/kg	75	4.8	SW846 8260B
1,2-Dichloropropane	ND	520	390	ug/kg	75		SW846 8260B
	ND	540	400	ug/kg	74	3.9	SW846 8260B
cis-1,3-Dichloropropene	ND	520	330	ug/kg	64		SW846 8260B
	ND	540	350	ug/kg	65	5.9	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5L060207 Work Order #....: HRGRX1AD-MS Matrix.....: SO
MS Lot-Sample #: A5L060207-010 HRGRX1AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
trans-1,3-Dichloropropene	ND	520	310	ug/kg	61		SW846 8260B
	ND	540	350	ug/kg	64	11	SW846 8260B
Ethylbenzene	ND	520	380	ug/kg	74		SW846 8260B
	ND	540	410	ug/kg	75	7.3	SW846 8260B
2-Hexanone	ND	520	270	ug/kg	53		SW846 8260B
	ND	540	320	ug/kg	59	15	SW846 8260B
Methylene chloride	ND	520	420	ug/kg	78		SW846 8260B
	ND	540	460	ug/kg	83	11	SW846 8260B
4-Methyl-2-pentanone	ND	520	300	ug/kg	59		SW846 8260B
	ND	540	360	ug/kg	66	16	SW846 8260B
Methyl tert-butyl ether	ND	520	400	ug/kg	78		SW846 8260B
	ND	540	450	ug/kg	83	11	SW846 8260B
Styrene	ND	520	350	ug/kg	67		SW846 8260B
	ND	540	380	ug/kg	71	10	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	520	340	ug/kg	66		SW846 8260B
	ND	540	410	ug/kg	75	17	SW846 8260B
Tetrachloroethene	ND	520	390	ug/kg	76		SW846 8260B
	ND	540	430	ug/kg	79	9.8	SW846 8260B
Toluene	ND	520	390	ug/kg	76		SW846 8260B
	ND	540	420	ug/kg	77	5.6	SW846 8260B
1,1,1-Trichloroethane	ND	520	350	ug/kg	69		SW846 8260B
	ND	540	390	ug/kg	72	9.9	SW846 8260B
1,1,2-Trichloroethane	ND	520	370	ug/kg	72		SW846 8260B
	ND	540	400	ug/kg	75	9.1	SW846 8260B
Trichloroethene	17	520	380	ug/kg	71		SW846 8260B
	17	540	400	ug/kg	71	5.0	SW846 8260B
Vinyl chloride	ND	520	330	ug/kg	64		SW846 8260B
	ND	540	350	ug/kg	65	6.2	SW846 8260B
Xylenes (total)	ND	1500	1200	ug/kg	74		SW846 8260B
	ND	1600	1200	ug/kg	76	7.0	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	75	(59 - 138)
	73	(59 - 138)
1,2-Dichloroethane-d4	79	(61 - 130)
	77	(61 - 130)
Toluene-d8	83	(60 - 143)
	82	(60 - 143)
4-Bromofluorobenzene	81	(47 - 158)
	83	(47 - 158)

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5L060207
MS Lot-Sample #: A5L060207-010

Work Order #....: HRGRX1AD-MS
HRGRX1AE-MSD

Matrix.....: SO

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5L060207 Work Order #....: HRGRX1AD-MS Matrix.....: SO
 MS Lot-Sample #: A5L060207-010 HRGRX1AE-MSD
 Date Sampled....: 12/03/05 09:32 Date Received...: 12/06/05
 Prep Date.....: 12/07/05 Analysis Date...: 12/12/05
 Prep Batch #....: 5346611
 Dilution Factor: 1.01

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	41	(10 - 200)			SW846 8260B
	43	(10 - 200)	8.4	(0-66)	SW846 8260B
Benzene	74	(55 - 138)			SW846 8260B
	75	(55 - 138)	6.4	(0-20)	SW846 8260B
Bromodichloromethane	53	(47 - 131)			SW846 8260B
	55	(47 - 131)	9.6	(0-51)	SW846 8260B
Bromoform	53	(26 - 141)			SW846 8260B
	55	(26 - 141)	10	(0-64)	SW846 8260B
Bromomethane	66	(15 - 152)			SW846 8260B
	65	(15 - 152)	3.1	(0-72)	SW846 8260B
2-Butanone	56	(21 - 195)			SW846 8260B
	58	(21 - 195)	8.5	(0-60)	SW846 8260B
Carbon disulfide	60	(27 - 149)			SW846 8260B
	63	(27 - 149)	11	(0-73)	SW846 8260B
Carbon tetrachloride	60	(32 - 143)			SW846 8260B
	63	(32 - 143)	10	(0-68)	SW846 8260B
Chlorobenzene	73	(49 - 139)			SW846 8260B
	74	(49 - 139)	6.5	(0-22)	SW846 8260B
Chloroethane	71	(32 - 140)			SW846 8260B
	71	(32 - 140)	5.0	(0-66)	SW846 8260B
Chloroform	70	(59 - 128)			SW846 8260B
	72	(59 - 128)	7.8	(0-46)	SW846 8260B
Chloromethane	60	(28 - 130)			SW846 8260B
	63	(28 - 130)	8.8	(0-81)	SW846 8260B
Dibromochloromethane	47	(44 - 135)			SW846 8260B
	50	(44 - 135)	11	(0-61)	SW846 8260B
1,1-Dichloroethane	75	(56 - 130)			SW846 8260B
	77	(56 - 130)	7.4	(0-54)	SW846 8260B
1,2-Dichloroethane	75	(56 - 126)			SW846 8260B
	73	(56 - 126)	2.2	(0-38)	SW846 8260B
1,1-Dichloroethene	80	(43 - 147)			SW846 8260B
	84	(43 - 147)	10	(0-27)	SW846 8260B
cis-1,2-Dichloroethene	67	(48 - 127)			SW846 8260B
	68	(48 - 127)	7.1	(0-52)	SW846 8260B
trans-1,2-Dichloroethene	76	(47 - 127)			SW846 8260B
	75	(47 - 127)	4.8	(0-58)	SW846 8260B
1,2-Dichloropropane	75	(54 - 125)			SW846 8260B
	74	(54 - 125)	3.9	(0-43)	SW846 8260B
cis-1,3-Dichloropropene	64	(30 - 138)			SW846 8260B
	65	(30 - 138)	5.9	(0-49)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5L060207 Work Order #....: HRGRX1AD-MS Matrix.....: SO
MS Lot-Sample #: A5L060207-010 HRGRX1AE-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
trans-1,3-Dichloropropene	61	(34 - 134)			SW846 8260B
	64	(34 - 134)	11	(0-57)	SW846 8260B
Ethylbenzene	74	(36 - 133)			SW846 8260B
	75	(36 - 133)	7.3	(0-72)	SW846 8260B
2-Hexanone	53	(20 - 190)			SW846 8260B
	59	(20 - 190)	15	(0-70)	SW846 8260B
Methylene chloride	78	(45 - 129)			SW846 8260B
	83	(45 - 129)	11	(0-49)	SW846 8260B
4-Methyl-2-pentanone	59	(42 - 143)			SW846 8260B
	66	(42 - 143)	16	(0-60)	SW846 8260B
Methyl tert-butyl ether	78	(70 - 130)			SW846 8260B
	83	(70 - 130)	11	(0-30)	SW846 8260B
Styrene	67	(23 - 136)			SW846 8260B
	71	(23 - 136)	10	(0-65)	SW846 8260B
1,1,2,2-Tetrachloroethane	66	(33 - 162)			SW846 8260B
	75	(33 - 162)	17	(0-90)	SW846 8260B
Tetrachloroethene	76	(31 - 137)			SW846 8260B
	79	(31 - 137)	9.8	(0-81)	SW846 8260B
Toluene	76	(46 - 147)			SW846 8260B
	77	(46 - 147)	5.6	(0-24)	SW846 8260B
1,1,1-Trichloroethane	69	(48 - 132)			SW846 8260B
	72	(48 - 132)	9.9	(0-57)	SW846 8260B
1,1,2-Trichloroethane	72	(58 - 128)			SW846 8260B
	75	(58 - 128)	9.1	(0-52)	SW846 8260B
Trichloroethene	71	(46 - 143)			SW846 8260B
	71	(46 - 143)	5.0	(0-23)	SW846 8260B
Vinyl chloride	64	(30 - 136)			SW846 8260B
	65	(30 - 136)	6.2	(0-80)	SW846 8260B
Xylenes (total)	74	(33 - 135)			SW846 8260B
	76	(33 - 135)	7.0	(0-78)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	75	(59 - 138)
	73	(59 - 138)
1,2-Dichloroethane-d4	79	(61 - 130)
	77	(61 - 130)
Toluene-d8	83	(60 - 143)
	82	(60 - 143)
4-Bromofluorobenzene	81	(47 - 158)
	83	(47 - 158)

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #: A5L060207 Work Order #: HRGRX1AD-MS Matrix.....: SO
MS Lot-Sample #: A5L060207-010 HRGRX1AE-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

General Chemistry

Client Lot #....: A5L060207

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	ND	Work Order #: HRNP21AA 10.0	%	MB Lot-Sample #: A5L080000-287 MCAWW 160.3 MOD	12/08-12/09/05	5342287
Dilution Factor: 1						
Percent Solids	ND	Work Order #: HRNP61AA 10.0	%	MB Lot-Sample #: A5L080000-293 MCAWW 160.3 MOD	12/08-12/09/05	5342293
Dilution Factor: 1						
Percent Solids	ND	Work Order #: HRRAL1AA 10.0	%	MB Lot-Sample #: A5L080000-337 MCAWW 160.3 MOD	12/08-12/09/05	5342337
Dilution Factor: 1						

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A5L060207 Work Order #....: HRGN2-SMP Matrix.....: SO

HRGN2-DUP

Date Sampled....: 12/03/05 09:10 Date Received...: 12/06/05

% Moisture.....: 3.5

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	96.5	96.3	%	0.16	(0-20)	SD Lot-Sample #: A5L060207-001 MCAWW 160.3 MOD	12/08-12/09/05	5342287

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A5L060207

Work Order #....: HRGRX-SMP
HRGRX-DUP

Matrix.....: SO

Date Sampled...: 12/03/05 09:32 Date Received...: 12/06/05

% Moisture.....: 2.0

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.0	97.8	%	0.18	(0-20)	SD Lot-Sample #: A5L060207-010 MCAWW 160.3 MOD	12/08-12/09/05	5342287
Dilution Factor: 1								

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A5L060207 Work Order #....: HRGVA-SMP Matrix.....: SO

HRGVA-DUP

Date Sampled....: 12/03/05 10:15 Date Received...: 12/06/05

% Moisture.....: 2.2

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.8	97.4	%	0.41	(0-20)	SD Lot-Sample #: A5L060207-021 MCAWW 160.3 MOD	12/08-12/09/05	5342293

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A5L060207

Work Order #....: HRGW2-SMP
HRGW2-DUP

Matrix.....: SO

Date Sampled...: 12/03/05 11:15 Date Received...: 12/06/05

% Moisture.....: 1.8

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.2	98.1	%	0.087	(0-20)	SD Lot-Sample #: A5L060207-038 MCAWW 160.3 MOD	12/08-12/09/05	5342293

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A5L060207 Work Order #....: HRGW7-SMP Matrix.....: SO

HRGW7-DUP

Date Sampled....: 12/03/05 11:27 Date Received...: 12/06/05

% Moisture.....: 1.4

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.6	98.6	%	0.060	(0-20)	SD Lot-Sample #: A5L060207-041 MCAWW 160.3 MOD	12/08-12/09/05	5342337

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A5L060207

Work Order #....: HRK40-SMP
HRK40-DUP

Matrix.....: SOLID

Date Sampled....: 12/06/05

Date Received...: 12/07/05

% Moisture.....: 15

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	84.6	83.7	%	0.98	(0-20)	SD Lot-Sample #: A5L070244-012 MCAWW 160.3 MOD	12/08-12/09/05	5342337

Dilution Factor: 1



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

PAGE 2 OF 3

mail:

Project Number: 17340-10

QA/QC Requirements:

www.3000.org

Simple Identification:

SD-17360-120305-PCR-523

Valid Matrix Codes
WG Groundwater
WB Borehole Water
WS Surface Water
SO Soil
SE Sediment
See Back for
Additional Codes

Matrix Code

Date Collected

Time Collected

Containers

Unpreserved

上海公司

UN07

 NaOH

Other:

TEL VOCs

Remarks/Lab ID

TOTAL NUMBER OF CONTAINERS

SHIPMENT METHOD

NO. OF COOLERS

RELINQUISHED BY / AFFILIATION

DATE _____

TIME

RECEIVED BY / AFFILIATION

DATE

TIME

IRBIL NO

Sample Condition

Additional Comments:

END of BATCH

Sampler Name:

7-3

Sampler Signature:

Date _____

received on Ice	Y / N
called Cooler	Y / N
samples Intact	Y / N

Distribution:

WHITE - Fully Executed Copy

YELLOW - Receiving Laboratory Copy

PINK - Shippe

GOLDENKOD - Sampler Copy

2015 11 14



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

ID # N^o D 0070

SSOW Ref. Code:

503000

SSOW Ref. Code:

503000

ID # N^o D 0070

SSOW Ref. Code:

503000

Analysis and Method

Remarks/Lab ID

END of Batch

176

STL Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: ASL 060207

Client: CRA Project: GM-Grand Rapids Quote#: _____
Cooler Received on: 12-6-05 Opened on: 12-6-05 by: [Signature] (Signature)
Fedx ☒ Client Drop Off ☐ UPS ☐ DHL ☐ FAS ☐ STL Courier ☐
Stetson ☐ US Cargo ☐ Other: _____
STL Cooler No# see back Foam Box ☐ Client Cooler ☐ Other _____
1. Were custody seals on the outside of the cooler? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒
If YES, Quantity _____
Were the custody seals signed and dated? Yes ☐ No ☐ NA ☒
2. Shipper's packing slip attached to this form? Yes ☒ No ☐ NA ☐
3. Did custody papers accompany the samples? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Did you sign the custody papers in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☒ None ☐ Other: _____
6. Cooler temperature upon receipt _____ °C (see back of form for multiple coolers/temp)
METHOD: Temp Vial ☐ Coolant & Sample ☐ Against Bottles ☐ IR ☒ ICE/H₂O Slurry ☐
COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels and/or tags be reconciled with the COC? Yes ☒ No ☐
9. Were samples at the correct pH? (record below/on back) Yes ☐ No ☐ NA ☒
10. Were correct bottles used for the tests indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a Trip Blank present in the cooler? Yes ☒ No ☐ Were VOAs on the COC? Yes ☒ No ☐
14. Does the trip blank number match the cooler number in which it was received? Yes ☐ No ☒ NA ☐
Contacted PM _____ Date: _____ by: _____ via Voice Mail ☐ Verbal ☐ Other ☐
Concerning: _____

1. CHAIN OF CUSTODY

The following discrepancies occurred:

2. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). Nitric Acid Lot # 091305-HNO₃; Sulfuric Acid Lot # 100405-H₂SO₄; Sodium Hydroxide Lot # -041305 -NaOH; Hydrochloric Acid Lot # 100504-HCl; Sodium Hydroxide and Zinc Acetate Lot # 071604-CH₃COO₂ZN/NaOH
Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

Client ID	pH	Date	Initials

**STL Cooler Receipt Form/Narrative
North Canton Facility**

[illegible]

Discrepancies Cont.

END OF REPORT



STL

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720

Tel: 330 497 9396 Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 17360-10

GM-GRAND RAPIDS SSOW# E030005

Lot #: A5G130319
SDG #: 5G13319

Paul Wiseman (PM)

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

A handwritten signature in black ink, appearing to read "Denise D. Heckler".

Denise D. Heckler
Project Manager

July 28, 2005

CASE NARRATIVE

5G13319

The following report contains the analytical results for ninety-two solid samples and one quality control sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Grand Rapids SSOW# E030005 Site, project number 17360-10. The samples were received July 13, 2005, according to documented sample acceptance procedures.

This SDG consists of (1) laboratory ID's: A5G130319.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 734-205-2535.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT." The total number of pages in this report is

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperatures of the coolers upon sample receipt were 2.7 and 3.6°C.

CASE NARRATIVE (continued)

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for SO-17360-071105-DCR-418, SO-17360-071105-DCR-440 and SO-17360-071205-DCR-477 had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

- for analyses run on TJA Trace ICP, ICPMS or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is repped and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be repped and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide, PCB, and PAH methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria.

STL North Canton Certifications and Approvals:

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), North Carolina (#39702), Ohio (#6090), OhioVAP (#CL0024), Rhode Island (#237), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), Utah (#QUAN9), Virginia (#00011), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)



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EXECUTIVE SUMMARY - Detection Highlights

A5G130319

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SO-17360-071105-DCR-409 07/11/05 09:55 001				
Acetone	360 J,B	550	ug/kg	SW846 8260B
Cyclohexane	48 J	880	ug/kg	SW846 8260B
Ethylbenzene	18 J	37	ug/kg	SW846 8260B
Isopropylbenzene	19 J	180	ug/kg	SW846 8260B
Methylcyclohexane	160 J	880	ug/kg	SW846 8260B
Toluene	40 J	74	ug/kg	SW846 8260B
Trichloroethene	1500	37	ug/kg	SW846 8260B
Xylenes (total)	160	110	ug/kg	SW846 8260B
Percent Solids	95.5	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-410 07/11/05 09:57 002				
Acetone	380 J,B	590	ug/kg	SW846 8260B
Chloromethane	11 J,B	200	ug/kg	SW846 8260B
Percent Solids	98.3	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-411 07/11/05 10:00 003				
Acetone	330 J,B	560	ug/kg	SW846 8260B
Chloromethane	11 J,B	190	ug/kg	SW846 8260B
Methyl acetate	73 J	890	ug/kg	SW846 8260B
Trichloroethene	20 J	37	ug/kg	SW846 8260B
Percent Solids	97.6	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-412 07/11/05 10:02 004				
Acetone	350 J,B	600	ug/kg	SW846 8260B
Chloromethane	10 J,B	200	ug/kg	SW846 8260B
Percent Solids	98.6	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-413 07/11/05 10:05 005				
Acetone	390 J,B	600	ug/kg	SW846 8260B
Chloromethane	10 J,B	200	ug/kg	SW846 8260B
Percent Solids	97.4	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-414 07/11/05 10:07 006				
Acetone	350 J,B	580	ug/kg	SW846 8260B
Chloromethane	9.5 J,B	190	ug/kg	SW846 8260B
Methyl acetate	71 J	930	ug/kg	SW846 8260B
Trichloroethene	12 J	39	ug/kg	SW846 8260B
Percent Solids	98.7	10.0	%	MCAWW 160.3 MOD

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EXECUTIVE SUMMARY - Detection Highlights

A5G130319

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SO-17360-071105-DCR-415 07/11/05 10:10 007				
Acetone	370 J,B	600	ug/kg	SW846 8260B
Chloromethane	10 J,B	200	ug/kg	SW846 8260B
Methyl acetate	380 J	960	ug/kg	SW846 8260B
Methylcyclohexane	14 J	960	ug/kg	SW846 8260B
Trichloroethene	290	40	ug/kg	SW846 8260B
Xylenes (total)	15 J	120	ug/kg	SW846 8260B
Percent Solids	98.8	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-416 07/11/05 10:12 008				
Acetone	340 J,B	590	ug/kg	SW846 8260B
Chloromethane	11 J,B	200	ug/kg	SW846 8260B
Percent Solids	97.0	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-417 07/11/05 10:15 009				
Acetone	420 J,B	590	ug/kg	SW846 8260B
Chloromethane	9.9 J,B	200	ug/kg	SW846 8260B
Cyclohexane	13 J	950	ug/kg	SW846 8260B
Methyl acetate	440 J	950	ug/kg	SW846 8260B
Methylcyclohexane	37 J	950	ug/kg	SW846 8260B
Toluene	19 J	79	ug/kg	SW846 8260B
Trichloroethene	440	40	ug/kg	SW846 8260B
Xylenes (total)	36 J	120	ug/kg	SW846 8260B
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-418 07/11/05 10:17 010				
Acetone	330 J,B	600	ug/kg	SW846 8260B
Chloromethane	10 J,B	200	ug/kg	SW846 8260B
Percent Solids	97.7	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-419 07/11/05 12:25 011				
Acetone	400 J,B	600	ug/kg	SW846 8260B
Chloromethane	8.3 J,B	200	ug/kg	SW846 8260B
Methyl acetate	53 J	960	ug/kg	SW846 8260B
Trichloroethene	15 J	40	ug/kg	SW846 8260B
Percent Solids	96.8	10.0	%	MCAWW 160.3 MOD

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SO-17360-071105-DCR-420 07/11/05 12:30 012				
Acetone	390 J,B	610	ug/kg	SW846 8260B
Percent Solids	96.8	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-421 07/11/05 12:32 013				
Acetone	370 J,B	570	ug/kg	SW846 8260B
Chloromethane	7.3 J,B	190	ug/kg	SW846 8260B
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-422 07/11/05 12:35 014				
Acetone	370 J,B	570	ug/kg	SW846 8260B
Bromomethane	29 J,B	190	ug/kg	SW846 8260B
Chloromethane	7.1 J,B	190	ug/kg	SW846 8260B
Percent Solids	98.6	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-423 07/11/05 12:37 015				
Acetone	350 J,B	560	ug/kg	SW846 8260B
Chloromethane	8.0 J,B	190	ug/kg	SW846 8260B
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-424 07/11/05 12:40 016				
Acetone	460 J,B	720	ug/kg	SW846 8260B
Chloromethane	9.7 J,B	240	ug/kg	SW846 8260B
Percent Solids	97.7	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-425 07/11/05 12:42 017				
Acetone	330 J,B	570	ug/kg	SW846 8260B
Chloromethane	9.2 J,B	190	ug/kg	SW846 8260B
Percent Solids	95.7	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-426 07/11/05 12:45 018				
Acetone	480 J,B	790	ug/kg	SW846 8260B
Percent Solids	91.0	10.0	%	MCAWW 160.3 MOD

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SO-17360-071105-DCR-427 07/11/05 12:47 019				
Acetone	350 J,B	600	ug/kg	SW846 8260B
Chloromethane	8.5 J,B	200	ug/kg	SW846 8260B
Ethylbenzene	16 J	40	ug/kg	SW846 8260B
Methyl acetate	590 J	960	ug/kg	SW846 8260B
Trichloroethene	14 J	40	ug/kg	SW846 8260B
Xylenes (total)	98 J	120	ug/kg	SW846 8260B
Percent Solids	96.5	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-428 07/11/05 12:50 020				
Acetone	370 J,B	630	ug/kg	SW846 8260B
Percent Solids	97.4	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-429 07/11/05 12:52 021				
Acetone	360 J,B	590	ug/kg	SW846 8260B
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-430 07/11/05 13:15 022				
Acetone	350 J,B	570	ug/kg	SW846 8260B
Trichloroethene	99	38	ug/kg	SW846 8260B
Percent Solids	97.8	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-431 07/11/05 13:17 023				
Acetone	430 J,B	600	ug/kg	SW846 8260B
Percent Solids	98.6	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-432 07/11/05 13:20 024				
Acetone	500 J,B	620	ug/kg	SW846 8260B
Percent Solids	98.9	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-433 07/11/05 13:22 025				
Acetone	420 J,B	590	ug/kg	SW846 8260B
Percent Solids	99.0	10.0	%	MCAWW 160.3 MOD

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SO-17360-071105-DCR-434 07/11/05 13:25 026				
Acetone	350 J,B	580	ug/kg	SW846 8260B
Percent Solids	97.1	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-435 07/11/05 13:27 027				
Acetone	360 J,B	590	ug/kg	SW846 8260B
Percent Solids	98.6	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-436 07/11/05 13:30 028				
Acetone	330 J,B	580	ug/kg	SW846 8260B
Percent Solids	97.1	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-437 07/11/05 13:35 029				
Acetone	340 J,B	550	ug/kg	SW846 8260B
Percent Solids	94.6	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-438 07/11/05 13:37 030				
Acetone	350 J,B	560	ug/kg	SW846 8260B
Methyl acetate	100 J	900	ug/kg	SW846 8260B
Percent Solids	98.5	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-439 07/11/05 13:40 031				
Acetone	370 J,B	570	ug/kg	SW846 8260B
Percent Solids	97.7	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-440 07/11/05 14:15 032				
Acetone	370 J,B	620	ug/kg	SW846 8260B
Benzene	8.7 J	41	ug/kg	SW846 8260B
Cyclohexane	61 J	990	ug/kg	SW846 8260B
Ethylbenzene	22 J	41	ug/kg	SW846 8260B
Isopropylbenzene	25 J	210	ug/kg	SW846 8260B
Methylcyclohexane	220 J	990	ug/kg	SW846 8260B
Toluene	76 J	82	ug/kg	SW846 8260B
Trichloroethene	2200	41	ug/kg	SW846 8260B
Xylenes (total)	190	120	ug/kg	SW846 8260B
Percent Solids	98.8	10.0	%	MCAWW 160.3 MOD

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EXECUTIVE SUMMARY - Detection Highlights

A5G130319

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SO-17360-071105-DCR-441 07/11/05 14:20 033				
Benzene	73 J	160	ug/kg	SW846 8260B
Chloromethane	24 J,B	800	ug/kg	SW846 8260B
Cyclohexane	300 J	3800	ug/kg	SW846 8260B
Ethylbenzene	130 J	160	ug/kg	SW846 8260B
Isopropylbenzene	120 J	800	ug/kg	SW846 8260B
Methylcyclohexane	880 J	3800	ug/kg	SW846 8260B
Toluene	490	320	ug/kg	SW846 8260B
Trichloroethene	5500	160	ug/kg	SW846 8260B
Xylenes (total)	910	480	ug/kg	SW846 8260B
Percent Solids	94.4	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-442 07/11/05 14:25 034				
Acetone	360 J,B	560	ug/kg	SW846 8260B
Benzene	6.0 J	37	ug/kg	SW846 8260B
Cyclohexane	24 J	890	ug/kg	SW846 8260B
Ethylbenzene	10 J	37	ug/kg	SW846 8260B
Isopropylbenzene	9.4 J	190	ug/kg	SW846 8260B
Methylcyclohexane	67 J	890	ug/kg	SW846 8260B
Toluene	41 J	74	ug/kg	SW846 8260B
Trichloroethene	530	37	ug/kg	SW846 8260B
Xylenes (total)	68 J	110	ug/kg	SW846 8260B
Percent Solids	96.6	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-443 07/11/05 14:27 035				
Acetone	370 J,B	590	ug/kg	SW846 8260B
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-444 07/11/05 14:30 036				
Acetone	350 J,B	600	ug/kg	SW846 8260B
Percent Solids	98.2	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-445 07/11/05 14:32 037				
Acetone	390 J,B	590	ug/kg	SW846 8260B
Percent Solids	97.3	10.0	%	MCAWW 160.3 MOD

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EXECUTIVE SUMMARY - Detection Highlights

A5G130319

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SO-17360-071105-DCR-446 07/11/05 14:35 038				
Acetone	370 J,B	570	ug/kg	SW846 8260B
Trichloroethene	13 J	38	ug/kg	SW846 8260B
Percent Solids	96.8	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-447 07/11/05 14:40 039				
Acetone	390 J,B	590	ug/kg	SW846 8260B
Methyl acetate	360 J	950	ug/kg	SW846 8260B
Methylcyclohexane	15 J	950	ug/kg	SW846 8260B
Toluene	9.8 J	79	ug/kg	SW846 8260B
Trichloroethene	140	40	ug/kg	SW846 8260B
Xylenes (total)	16 J	120	ug/kg	SW846 8260B
Percent Solids	97.6	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-448 07/11/05 14:42 040				
Acetone	280 J,B	550	ug/kg	SW846 8260B
Chloromethane	7.4 J,B	180	ug/kg	SW846 8260B
Trichloroethene	12 J	37	ug/kg	SW846 8260B
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-449 07/11/05 14:45 041				
Acetone	340 J,B	570	ug/kg	SW846 8260B
Chloromethane	7.3 J,B	190	ug/kg	SW846 8260B
Percent Solids	97.8	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-450 07/11/05 15:20 042				
Acetone	350 J,B	600	ug/kg	SW846 8260B
Chloromethane	7.1 J,B	200	ug/kg	SW846 8260B
Cyclohexane	8.0 J	960	ug/kg	SW846 8260B
Methylcyclohexane	26 J	960	ug/kg	SW846 8260B
Trichloroethene	1600	40	ug/kg	SW846 8260B
Xylenes (total)	16 J	120	ug/kg	SW846 8260B
Percent Solids	97.3	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-451 07/11/05 15:22 043				
Acetone	240 J,B	1100	ug/kg	SW846 8260B
Methylcyclohexane	32 J	1800	ug/kg	SW846 8260B
Trichloroethene	2500	74	ug/kg	SW846 8260B
Percent Solids	97.8	10.0	%	MCAWW 160.3 MOD

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EXECUTIVE SUMMARY - Detection Highlights

A5G130319

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SO-17360-071105-DCR-452 07/11/05 15:25 044				
Acetone	410 J,B	580	ug/kg	SW846 8260B
Chloromethane	5.5 J,B	190	ug/kg	SW846 8260B
Trichloroethene	16 J	39	ug/kg	SW846 8260B
Percent Solids	96.0	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-453 07/11/05 15:30 045				
Acetone	370 J,B	550	ug/kg	SW846 8260B
Chloromethane	5.7 J,B	180	ug/kg	SW846 8260B
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-454 07/11/05 15:32 046				
Acetone	380 J,B	580	ug/kg	SW846 8260B
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-455 07/11/05 15:35 047				
Acetone	370 J,B	610	ug/kg	SW846 8260B
Percent Solids	97.4	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-456 07/11/05 15:37 048				
Acetone	330 J,B	580	ug/kg	SW846 8260B
Chloromethane	5.4 J,B	190	ug/kg	SW846 8260B
Percent Solids	97.9	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-457 07/11/05 15:40 049				
Acetone	380 J,B	670	ug/kg	SW846 8260B
Methyl acetate	190 J	1100	ug/kg	SW846 8260B
Trichloroethene	290	44	ug/kg	SW846 8260B
Percent Solids	96.7	10.0	%	MCAWW 160.3 MOD
SO-17360-071105-DCR-458 07/11/05 15:42 050				
Acetone	460 J,B	780	ug/kg	SW846 8260B
Chloromethane	8.9 J,B	260	ug/kg	SW846 8260B
Methyl acetate	140 J	1200	ug/kg	SW846 8260B
Trichloroethene	380	52	ug/kg	SW846 8260B
Percent Solids	97.2	10.0	%	MCAWW 160.3 MOD

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EXECUTIVE SUMMARY - Detection Highlights

A5G130319

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SO-17360-071105-DCR-459 07/11/05 15:45 051				
Acetone	360 J,B	610	ug/kg	SW846 8260B
Chloromethane	6.3 J,B	200	ug/kg	SW846 8260B
Trichloroethene	45	40	ug/kg	SW846 8260B
Percent Solids	98.2	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-460 07/12/05 07:55 052				
Acetone	380 J,B	600	ug/kg	SW846 8260B
Chloromethane	5.9 J,B	200	ug/kg	SW846 8260B
Cyclohexane	7.9 J	960	ug/kg	SW846 8260B
Methylcyclohexane	24 J	960	ug/kg	SW846 8260B
Trichloroethene	820	40	ug/kg	SW846 8260B
Xylenes (total)	21 J	120	ug/kg	SW846 8260B
Percent Solids	95.2	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-461 07/12/05 07:57 053				
Acetone	440 J,B	710	ug/kg	SW846 8260B
Percent Solids	97.6	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-462 07/12/05 08:02 054				
Acetone	390 J,B	630	ug/kg	SW846 8260B
Percent Solids	98.4	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-463 07/12/05 08:05 055				
Acetone	360 J,B	590	ug/kg	SW846 8260B
Chloromethane	5.7 J,B	200	ug/kg	SW846 8260B
Percent Solids	98.3	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-464 07/12/05 08:07 056				
Acetone	370 J,B	590	ug/kg	SW846 8260B
Chloromethane	5.4 J,B	200	ug/kg	SW846 8260B
Percent Solids	96.1	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-465 07/12/05 08:10 057				
Acetone	400 J,B	640	ug/kg	SW846 8260B
Chloromethane	6.1 J,B	210	ug/kg	SW846 8260B
Trichloroethene	29 J	42	ug/kg	SW846 8260B
Percent Solids	96.8	10.0	%	MCAWW 160.3 MOD

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SO-17360-071205-DCR-466 07/12/05 08:12 058				
Acetone	340 J,B	570	ug/kg	SW846 8260B
Trichloroethene	16 J	38	ug/kg	SW846 8260B
Percent Solids	96.4	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-467 07/12/05 08:15 059				
Acetone	310 J,B	560	ug/kg	SW846 8260B
Chloromethane	5.6 J,B	190	ug/kg	SW846 8260B
Trichloroethene	19 J	37	ug/kg	SW846 8260B
Percent Solids	96.1	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-468 07/12/05 08:17 060				
Acetone	390 J,B	670	ug/kg	SW846 8260B
Trichloroethene	18 J	45	ug/kg	SW846 8260B
Percent Solids	96.7	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-469 07/12/05 08:20 061				
Acetone	330 J,B	550	ug/kg	SW846 8260B
Chloromethane	5.5 J,B	180	ug/kg	SW846 8260B
Trichloroethene	120	37	ug/kg	SW846 8260B
Percent Solids	96.8	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-470 07/12/05 08:22 062				
Acetone	330 J,B	600	ug/kg	SW846 8260B
Trichloroethene	31 J	40	ug/kg	SW846 8260B
Percent Solids	97.1	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-471 07/12/05 09:00 063				
Methylcyclohexane	570 J	32000	ug/kg	SW846 8260B
Trichloroethene	46000	1300	ug/kg	SW846 8260B
Percent Solids	94.9	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-472 07/12/05 09:02 064				
Acetone	320 J,B	600	ug/kg	SW846 8260B
Chloromethane	7.9 J,B	200	ug/kg	SW846 8260B
Trichloroethene	1500	40	ug/kg	SW846 8260B
Percent Solids	96.0	10.0	%	MCAWW 160.3 MOD

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SO-17360-071205-DCR-473 07/12/05 09:05 065				
Acetone	410 J,B	590	ug/kg	SW846 8260B
Chloromethane	6.9 J,B	200	ug/kg	SW846 8260B
Trichloroethene	27 J	39	ug/kg	SW846 8260B
Percent Solids	97.8	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-474 07/12/05 09:07 066				
Acetone	390 J,B	580	ug/kg	SW846 8260B
Chloromethane	6.5 J,B	190	ug/kg	SW846 8260B
Trichloroethene	16 J	39	ug/kg	SW846 8260B
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-475 07/12/05 09:10 067				
Acetone	350 J,B	600	ug/kg	SW846 8260B
Chloromethane	6.3 J,B	200	ug/kg	SW846 8260B
Trichloroethene	12 J	40	ug/kg	SW846 8260B
Percent Solids	96.2	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-476 07/12/05 09:12 068				
Methyl acetate	400 J	3600	ug/kg	SW846 8260B
Trichloroethene	5900	150	ug/kg	SW846 8260B
Percent Solids	97.0	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-477 07/12/05 09:15 069				
Acetone	470 J,B	690	ug/kg	SW846 8260B
Chloromethane	8.0 J,B	230	ug/kg	SW846 8260B
Trichloroethene	100	46	ug/kg	SW846 8260B
Percent Solids	97.0	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-478 07/12/05 09:20 070				
Acetone	390 J,B	600	ug/kg	SW846 8260B
Trichloroethene	49	40	ug/kg	SW846 8260B
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-479 07/12/05 09:22 071				
Acetone	400 J,B	710	ug/kg	SW846 8260B
Trichloroethene	170	48	ug/kg	SW846 8260B
Percent Solids	96.4	10.0	%	MCAWW 160.3 MOD

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SO-17360-071205-DCR-480 07/12/05 09:25 072				
Acetone	280 J,B	550	ug/kg	SW846 8260B
Trichloroethene	63	37	ug/kg	SW846 8260B
Percent Solids	95.7	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-481 07/12/05 09:35 073				
Acetone	380 J,B	550	ug/kg	SW846 8260B
Chloromethane	5.3 J,B	180	ug/kg	SW846 8260B
Cyclohexane	10 J	880	ug/kg	SW846 8260B
Methyl acetate	76 J	880	ug/kg	SW846 8260B
Methylcyclohexane	31 J	880	ug/kg	SW846 8260B
Toluene	12 J	74	ug/kg	SW846 8260B
Trichloroethene	540	37	ug/kg	SW846 8260B
Xylenes (total)	27 J	110	ug/kg	SW846 8260B
Percent Solids	94.9	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-482 07/12/05 09:37 074				
Acetone	340 J,B	560	ug/kg	SW846 8260B
Chloromethane	5.7 J,B	190	ug/kg	SW846 8260B
Percent Solids	96.9	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-483 07/12/05 09:40 075				
Acetone	370 J,B	620	ug/kg	SW846 8260B
Chloromethane	6.0 J,B	210	ug/kg	SW846 8260B
Percent Solids	97.4	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-484 07/12/05 09:42 076				
Acetone	350 J,B	570	ug/kg	SW846 8260B
Chloromethane	5.4 J,B	190	ug/kg	SW846 8260B
Percent Solids	97.4	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-485 07/12/05 09:45 077				
Acetone	370 J,B	570	ug/kg	SW846 8260B
Percent Solids	95.8	10.0	%	MCAWW 160.3 MOD

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SO-17360-071205-DCR-486 07/12/05 09:50 078				
Acetone	360 J,B	610	ug/kg	SW846 8260B
Chloromethane	6.6 J,B	200	ug/kg	SW846 8260B
Trichloroethene	29 J	41	ug/kg	SW846 8260B
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-487 07/12/05 09:52 079				
Acetone	280 J,B	590	ug/kg	SW846 8260B
Trichloroethene	30 J	40	ug/kg	SW846 8260B
Percent Solids	97.7	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-488 07/12/05 09:55 080				
Acetone	290 J,B	600	ug/kg	SW846 8260B
Chloromethane	8.2 J,B	200	ug/kg	SW846 8260B
Trichloroethene	16 J	40	ug/kg	SW846 8260B
Percent Solids	91.1	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-489 07/12/05 09:57 081				
Acetone	340 J,B	590	ug/kg	SW846 8260B
Chloromethane	7.0 J,B	200	ug/kg	SW846 8260B
Trichloroethene	21 J	40	ug/kg	SW846 8260B
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-490 07/12/05 10:00 082				
Acetone	310 J,B	620	ug/kg	SW846 8260B
Chloromethane	8.2 J,B	210	ug/kg	SW846 8260B
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-491 07/12/05 11:05 083				
Acetone	320 J,B	600	ug/kg	SW846 8260B
Methylcyclohexane	6.3 J	960	ug/kg	SW846 8260B
Trichloroethene	76	40	ug/kg	SW846 8260B
Percent Solids	96.5	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-492 07/12/05 11:07 084				
Acetone	270 J,B	570	ug/kg	SW846 8260B
Chloromethane	6.0 J,B	190	ug/kg	SW846 8260B
Percent Solids	98.2	10.0	%	MCAWW 160.3 MOD

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SO-17360-071205-DCR-493 07/12/05 11:10 085				
Acetone	290 J,B	580	ug/kg	SW846 8260B
Percent Solids	98.9	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-494 07/12/05 11:12 086				
Acetone	320 J,B	590	ug/kg	SW846 8260B
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-495 07/12/05 11:15 087				
Acetone	310 J,B	600	ug/kg	SW846 8260B
Chloromethane	6.2 J,B	200	ug/kg	SW846 8260B
Percent Solids	98.5	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-496 07/12/05 11:17 088				
Methyl acetate	100000	45000	ug/kg	SW846 8260B
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-497 07/12/05 11:20 089				
Methyl acetate	12000	3600	ug/kg	SW846 8260B
Trichloroethene	57 J	150	ug/kg	SW846 8260B
Percent Solids	98.7	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-498 07/12/05 11:25 090				
Acetone	320 J,B	590	ug/kg	SW846 8260B
Chloromethane	5.9 J,B	200	ug/kg	SW846 8260B
Methyl acetate	3600	940	ug/kg	SW846 8260B
Trichloroethene	27 J	39	ug/kg	SW846 8260B
Percent Solids	95.0	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-499 07/12/05 11:27 091				
Methyl acetate	49000	24000	ug/kg	SW846 8260B
Percent Solids	96.8	10.0	%	MCAWW 160.3 MOD
SO-17360-071205-DCR-500 07/12/05 11:32 092				
Methyl acetate	25000	5800	ug/kg	SW846 8260B
Percent Solids	96.2	10.0	%	MCAWW 160.3 MOD

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EXECUTIVE SUMMARY - Detection Highlights

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<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
TB-17360-071205-DCR-501 07/12/05 11:35 093				
Acetone	320 J,B	600	ug/kg	SW846 8260B
Chloromethane	6.7 J,B	200	ug/kg	SW846 8260B
Methyl acetate	77 J	960	ug/kg	SW846 8260B

ANALYTICAL METHODS SUMMARY

A5G130319

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Total Residue as Percent Solids	MCAWW 160.3 MOD
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

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WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HFEJA	001	SO-17360-071105-DCR-409	07/11/05	09:55
HFEJJ	002	SO-17360-071105-DCR-410	07/11/05	09:57
HFEJL	003	SO-17360-071105-DCR-411	07/11/05	10:00
HFEJN	004	SO-17360-071105-DCR-412	07/11/05	10:02
HFEJP	005	SO-17360-071105-DCR-413	07/11/05	10:05
HFEJR	006	SO-17360-071105-DCR-414	07/11/05	10:07
HFEJT	007	SO-17360-071105-DCR-415	07/11/05	10:10
HFEJV	008	SO-17360-071105-DCR-416	07/11/05	10:12
HFEJO	009	SO-17360-071105-DCR-417	07/11/05	10:15
HFEJ1	010	SO-17360-071105-DCR-418	07/11/05	10:17
HFEJ4	011	SO-17360-071105-DCR-419	07/11/05	12:25
HFEJ6	012	SO-17360-071105-DCR-420	07/11/05	12:30
HFEJ7	013	SO-17360-071105-DCR-421	07/11/05	12:32
HFEJ9	014	SO-17360-071105-DCR-422	07/11/05	12:35
HFEKA	015	SO-17360-071105-DCR-423	07/11/05	12:37
HFEKD	016	SO-17360-071105-DCR-424	07/11/05	12:40
HFEKE	017	SO-17360-071105-DCR-425	07/11/05	12:42
HFEKG	018	SO-17360-071105-DCR-426	07/11/05	12:45
HFEKH	019	SO-17360-071105-DCR-427	07/11/05	12:47
HFEKK	020	SO-17360-071105-DCR-428	07/11/05	12:
HFEKL	021	SO-17360-071105-DCR-429	07/11/05	12:52
HFEKM	022	SO-17360-071105-DCR-430	07/11/05	13:15
HFEKQ	023	SO-17360-071105-DCR-431	07/11/05	13:17
HFEKR	024	SO-17360-071105-DCR-432	07/11/05	13:20
HFEKV	025	SO-17360-071105-DCR-433	07/11/05	13:22
HFEKX	026	SO-17360-071105-DCR-434	07/11/05	13:25
HFEK1	027	SO-17360-071105-DCR-435	07/11/05	13:27
HFEK2	028	SO-17360-071105-DCR-436	07/11/05	13:30
HFEK5	029	SO-17360-071105-DCR-437	07/11/05	13:35
HFEK6	030	SO-17360-071105-DCR-438	07/11/05	13:37
HFEK8	031	SO-17360-071105-DCR-439	07/11/05	13:40
HFEK9	032	SO-17360-071105-DCR-440	07/11/05	14:15
HFELC	033	SO-17360-071105-DCR-441	07/11/05	14:20
HFELG	034	SO-17360-071105-DCR-442	07/11/05	14:25
HFELH	035	SO-17360-071105-DCR-443	07/11/05	14:27
HFELJ	036	SO-17360-071105-DCR-444	07/11/05	14:30

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SAMPLE SUMMARY

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WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HFELK	037	SO-17360-071105-DCR-445	07/11/05	14:32
HFELL	038	SO-17360-071105-DCR-446	07/11/05	14:35
HFELN	039	SO-17360-071105-DCR-447	07/11/05	14:40
HFELQ	040	SO-17360-071105-DCR-448	07/11/05	14:42
HFELR	041	SO-17360-071105-DCR-449	07/11/05	14:45
HFELV	042	SO-17360-071105-DCR-450	07/11/05	15:20
HFEL1	043	SO-17360-071105-DCR-451	07/11/05	15:22
HFEL3	044	SO-17360-071105-DCR-452	07/11/05	15:25
HFEL5	045	SO-17360-071105-DCR-453	07/11/05	15:30
HFEL6	046	SO-17360-071105-DCR-454	07/11/05	15:32
HFEL9	047	SO-17360-071105-DCR-455	07/11/05	15:35
HFEMD	048	SO-17360-071105-DCR-456	07/11/05	15:37
HFEME	049	SO-17360-071105-DCR-457	07/11/05	15:40
HFEMF	050	SO-17360-071105-DCR-458	07/11/05	15:42
HFEMH	051	SO-17360-071105-DCR-459	07/11/05	15:45
HFEMK	052	SO-17360-071205-DCR-460	07/12/05	07:55
HFEMN	053	SO-17360-071205-DCR-461	07/12/05	07:57
HFEMP	054	SO-17360-071205-DCR-462	07/12/05	08:02
HFEMT	055	SO-17360-071205-DCR-463	07/12/05	08:05
HFEMV	056	SO-17360-071205-DCR-464	07/12/05	08:07
HFEMX	057	SO-17360-071205-DCR-465	07/12/05	08:10
HFEM0	058	SO-17360-071205-DCR-466	07/12/05	08:12
HFEM1	059	SO-17360-071205-DCR-467	07/12/05	08:15
HFEM4	060	SO-17360-071205-DCR-468	07/12/05	08:17
HFEM6	061	SO-17360-071205-DCR-469	07/12/05	08:20
HFEM7	062	SO-17360-071205-DCR-470	07/12/05	08:22
HFEM9	063	SO-17360-071205-DCR-471	07/12/05	09:00
HFENC	064	SO-17360-071205-DCR-472	07/12/05	09:02
HFEND	065	SO-17360-071205-DCR-473	07/12/05	09:05
HFENF	066	SO-17360-071205-DCR-474	07/12/05	09:07
HFENH	067	SO-17360-071205-DCR-475	07/12/05	09:10
HFENK	068	SO-17360-071205-DCR-476	07/12/05	09:12
HFENM	069	SO-17360-071205-DCR-477	07/12/05	09:15
HFENP	070	SO-17360-071205-DCR-478	07/12/05	09:20
HFENR	071	SO-17360-071205-DCR-479	07/12/05	09:22
HFENV	072	SO-17360-071205-DCR-480	07/12/05	09:25

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SAMPLE SUMMARY

A5G130319

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HFENX	073	SO-17360-071205-DCR-481	07/12/05	09:35
HFEN0	074	SO-17360-071205-DCR-482	07/12/05	09:37
HFEN2	075	SO-17360-071205-DCR-483	07/12/05	09:40
HFEN3	076	SO-17360-071205-DCR-484	07/12/05	09:42
HFEN4	077	SO-17360-071205-DCR-485	07/12/05	09:45
HFEN5	078	SO-17360-071205-DCR-486	07/12/05	09:50
HFEN7	079	SO-17360-071205-DCR-487	07/12/05	09:52
HFEN8	080	SO-17360-071205-DCR-488	07/12/05	09:55
HFEPA	081	SO-17360-071205-DCR-489	07/12/05	09:57
HFEPD	082	SO-17360-071205-DCR-490	07/12/05	10:00
HFEPD	083	SO-17360-071205-DCR-491	07/12/05	11:05
HFEPE	084	SO-17360-071205-DCR-492	07/12/05	11:07
HFEPF	085	SO-17360-071205-DCR-493	07/12/05	11:10
HFEPG	086	SO-17360-071205-DCR-494	07/12/05	11:12
HFEPH	087	SO-17360-071205-DCR-495	07/12/05	11:15
HFEPJ	088	SO-17360-071205-DCR-496	07/12/05	11:17
HFEPK	089	SO-17360-071205-DCR-497	07/12/05	11:20
HFEPL	090	SO-17360-071205-DCR-498	07/12/05	11:25
HFEPN	091	SO-17360-071205-DCR-499	07/12/05	11:27
HFEPF	092	SO-17360-071205-DCR-500	07/12/05	11:30
HFEPH	093	TB-17360-071205-DCR-501	07/12/05	11:30

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-409

GC/MS Volatiles

Lot-Sample #....: A5G130319-001 Work Order #....: HFEJA1AC Matrix.....: SO
 Date Sampled....: 07/11/05 09:55 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200616
 Dilution Factor: 0.92
 % Moisture.....: 4.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	360 J,B	550	ug/kg	91
Benzene	ND	37	ug/kg	5.9
Bromodichloromethane	ND	74	ug/kg	11
Bromoform	ND	74	ug/kg	12
Bromomethane	ND	180	ug/kg	23
2-Butanone	ND	550	ug/kg	45
Carbon disulfide	ND	180	ug/kg	18
Carbon tetrachloride	ND	37	ug/kg	11
Chlorobenzene	ND	37	ug/kg	5.8
Chloroethane	ND	180	ug/kg	60
Chloroform	ND	37	ug/kg	11
Chloromethane	ND	180	ug/kg	4.8
Cyclohexane	48 J	880	ug/kg	7.1
Dibromochloromethane	ND	37	ug/kg	6.3
1,2-Dibromo-3-chloro- propane	ND	180	ug/kg	55
1,2-Dibromoethane	ND	180	ug/kg	9.1
1,2-Dichlorobenzene	ND	74	ug/kg	16
1,3-Dichlorobenzene	ND	74	ug/kg	6.6
1,4-Dichlorobenzene	ND	74	ug/kg	7.3
Dichlorodifluoromethane	ND	74	ug/kg	5.0
1,1-Dichloroethane	ND	37	ug/kg	6.7
1,2-Dichloroethane	ND	37	ug/kg	8.6
1,1-Dichloroethene	ND	37	ug/kg	7.6
cis-1,2-Dichloroethene	ND	37	ug/kg	13
trans-1,2-Dichloroethene	ND	37	ug/kg	10
1,2-Dichloropropane	ND	37	ug/kg	6.8
cis-1,3-Dichloropropene	ND	37	ug/kg	5.1
trans-1,3-Dichloropropene	ND	37	ug/kg	5.0
Ethylbenzene	18 J	37	ug/kg	6.3
2-Hexanone	ND	1800	ug/kg	22
Isopropylbenzene	19 J	180	ug/kg	4.7
Methyl acetate	ND	880	ug/kg	48
Methylene chloride	ND	180	ug/kg	91
Methylcyclohexane	160 J	880	ug/kg	5.2
4-Methyl-2-pentanone	ND	1800	ug/kg	10
Methyl tert-butyl ether	ND	180	ug/kg	9.2
Styrene	ND	37	ug/kg	26

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-409

GC/MS Volatiles

Lot-Sample #...: A5G130319-001 Work Order #...: HFEJA1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	74	ug/kg	7.5
Tetrachloroethene	ND	37	ug/kg	8.3
Toluene	40 J	74	ug/kg	8.4
1,2,4-Trichloro- benzene	ND	180	ug/kg	11
1,1,1-Trichloroethane	ND	37	ug/kg	8.7
1,1,2-Trichloroethane	ND	37	ug/kg	9.1
Trichloroethene	1500	37	ug/kg	11
Trichlorofluoromethane	ND	74	ug/kg	7.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	180	ug/kg	9.2
Vinyl chloride	ND	74	ug/kg	15
Xylenes (total)	160	110	ug/kg	14

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(59 - 138)
1,2-Dichloroethane-d4	110	(61 - 130)
Toluene-d8	115	(60 - 143)
4-Bromofluorobenzene	110	(47 - 158)

NOTE(S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-410

GC/MS Volatiles

Lot-Sample #....: A5G130319-002 Work Order #....: HFEJJ1AC Matrix.....: SO
 Date Sampled....: 07/11/05 09:57 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200616
 Dilution Factor: 0.98
 % Moisture.....: 1.7 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	380 J,B	590	ug/kg	97
Benzene	ND	39	ug/kg	6.3
Bromodichloromethane	ND	78	ug/kg	12
Bromoform	ND	78	ug/kg	13
Bromomethane	ND	200	ug/kg	24
2-Butanone	ND	590	ug/kg	48
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	39	ug/kg	12
Chlorobenzene	ND	39	ug/kg	6.2
Chloroethane	ND	200	ug/kg	64
Chloroform	ND	39	ug/kg	12
Chloromethane	11 J,B	200	ug/kg	5.1
Cyclohexane	ND	940	ug/kg	7.5
Dibromochloromethane	ND	39	ug/kg	6.8
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	59
1,2-Dibromoethane	ND	200	ug/kg	9.7
1,2-Dichlorobenzene	ND	78	ug/kg	17
1,3-Dichlorobenzene	ND	78	ug/kg	7.1
1,4-Dichlorobenzene	ND	78	ug/kg	7.7
Dichlorodifluoromethane	ND	78	ug/kg	5.3
1,1-Dichloroethane	ND	39	ug/kg	7.2
1,2-Dichloroethane	ND	39	ug/kg	9.1
1,1-Dichloroethene	ND	39	ug/kg	8.1
cis-1,2-Dichloroethene	ND	39	ug/kg	14
trans-1,2-Dichloroethene	ND	39	ug/kg	11
1,2-Dichloropropane	ND	39	ug/kg	7.3
cis-1,3-Dichloropropene	ND	39	ug/kg	5.4
trans-1,3-Dichloropropene	ND	39	ug/kg	5.3
Ethylbenzene	ND	39	ug/kg	6.7
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.0
Methyl acetate	ND	940	ug/kg	51
Methylene chloride	ND	200	ug/kg	97
Methylcyclohexane	ND	940	ug/kg	5.6
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	9.8
Styrene	ND	39	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-410

GC/MS Volatiles

Lot-Sample #....: A5G130319-002 Work Order #....: HFEJJ1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	78	ug/kg	8.0
Tetrachloroethene	ND	39	ug/kg	8.8
Toluene	ND	78	ug/kg	8.9
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	39	ug/kg	9.3
1,1,2-Trichloroethane	ND	39	ug/kg	9.7
Trichloroethene	ND	39	ug/kg	12
Trichlorofluoromethane	ND	78	ug/kg	8.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	9.8
Vinyl chloride	ND	78	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	90	(59 - 138)		
1,2-Dichloroethane-d4	101	(61 - 130)		
Toluene-d8	105	(60 - 143)		
4-Bromofluorobenzene	98	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-411

GC/MS Volatiles

Lot-Sample #....: A5G130319-003 Work Order #....: HFEJL1AC Matrix.....: SO
 Date Sampled....: 07/11/05 10:00 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200616
 Dilution Factor: 0.93
 % Moisture.....: 2.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	330 J,B	560	ug/kg	92
Benzene	ND	37	ug/kg	6.0
Bromodichloromethane	ND	74	ug/kg	11
Bromoform	ND	74	ug/kg	12
Bromomethane	ND	190	ug/kg	23
2-Butanone	ND	560	ug/kg	46
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	37	ug/kg	11
Chlorobenzene	ND	37	ug/kg	5.9
Chloroethane	ND	190	ug/kg	60
Chloroform	ND	37	ug/kg	11
Chloromethane	11 J,B	190	ug/kg	4.8
Cyclohexane	ND	890	ug/kg	7.2
Dibromochloromethane	ND	37	ug/kg	6.4
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	56
1,2-Dibromoethane	ND	190	ug/kg	9.2
1,2-Dichlorobenzene	ND	74	ug/kg	16
1,3-Dichlorobenzene	ND	74	ug/kg	6.7
1,4-Dichlorobenzene	ND	74	ug/kg	7.3
Dichlorodifluoromethane	ND	74	ug/kg	5.0
1,1-Dichloroethane	ND	37	ug/kg	6.8
1,2-Dichloroethane	ND	37	ug/kg	8.6
1,1-Dichloroethene	ND	37	ug/kg	7.7
cis-1,2-Dichloroethene	ND	37	ug/kg	13
trans-1,2-Dichloroethene	ND	37	ug/kg	10
1,2-Dichloropropane	ND	37	ug/kg	6.9
cis-1,3-Dichloropropene	ND	37	ug/kg	5.1
trans-1,3-Dichloropropene	ND	37	ug/kg	5.0
Ethylbenzene	ND	37	ug/kg	6.3
2-Hexanone	ND	1900	ug/kg	22
Isopropylbenzene	ND	190	ug/kg	4.7
Methyl acetate	73 J	890	ug/kg	48
Methylene chloride	ND	190	ug/kg	92
Methylcyclohexane	ND	890	ug/kg	5.3
4-Methyl-2-pentanone	ND	1900	ug/kg	10
Methyl tert-butyl ether	ND	190	ug/kg	9.3
Styrene	ND	37	ug/kg	26

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-411

GC/MS Volatiles

Lot-Sample #....: A5G130319-003 Work Order #....: HFEJL1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	74	ug/kg	7.6
Tetrachloroethene	ND	37	ug/kg	8.4
Toluene	ND	74	ug/kg	8.5
1,2,4-Trichloro- benzene	ND	190	ug/kg	11
1,1,1-Trichloroethane	ND	37	ug/kg	8.8
1,1,2-Trichloroethane	ND	37	ug/kg	9.2
Trichloroethene	20 J	37	ug/kg	11
Trichlorofluoromethane	ND	74	ug/kg	7.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.3
Vinyl chloride	ND	74	ug/kg	15
Xylenes (total)	ND	110	ug/kg	14

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	84	(59 - 138)
1,2-Dichloroethane-d4	94	(61 - 130)
Toluene-d8	99	(60 - 143)
4-Bromofluorobenzene	93	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-412

GC/MS Volatiles

Lot-Sample #....: A5G130319-004 Work Order #....: HFEJN1AC Matrix.....: SO
 Date Sampled...: 07/11/05 10:02 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200616
 Dilution Factor: 1
 % Moisture.....: 1.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	350 J,B	600	ug/kg	99
Benzene	ND	40	ug/kg	6.4
Bromodichloromethane	ND	80	ug/kg	12
Bromoform	ND	80	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	600	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.3
Chloroethane	ND	200	ug/kg	65
Chloroform	ND	40	ug/kg	12
Chloromethane	10 J,B	200	ug/kg	5.2
Cyclohexane	ND	960	ug/kg	7.7
Dibromochloromethane	ND	40	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	60
1,2-Dibromoethane	ND	200	ug/kg	9.9
1,2-Dichlorobenzene	ND	80	ug/kg	17
1,3-Dichlorobenzene	ND	80	ug/kg	7.2
1,4-Dichlorobenzene	ND	80	ug/kg	7.9
Dichlorodifluoromethane	ND	80	ug/kg	5.4
1,1-Dichloroethane	ND	40	ug/kg	7.3
1,2-Dichloroethane	ND	40	ug/kg	9.3
1,1-Dichloroethene	ND	40	ug/kg	8.3
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.4
cis-1,3-Dichloropropene	ND	40	ug/kg	5.5
trans-1,3-Dichloropropene	ND	40	ug/kg	5.4
Ethylbenzene	ND	40	ug/kg	6.8
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.1
Methyl acetate	ND	960	ug/kg	52
Methylene chloride	ND	200	ug/kg	99
Methylcyclohexane	ND	960	ug/kg	5.7
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-412

GC/MS Volatiles

Lot-Sample #....: A5G130319-004 Work Order #....: HFEJN1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	8.2
Tetrachloroethene	ND	40	ug/kg	9.0
Toluene	ND	80	ug/kg	9.1
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.5
1,1,2-Trichloroethane	ND	40	ug/kg	9.9
Trichloroethene	ND	40	ug/kg	12
Trichlorofluoromethane	ND	80	ug/kg	8.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	80	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	89	(59 - 138)		
1,2-Dichloroethane-d4	105	(61 - 130)		
Toluene-d8	107	(60 - 143)		
4-Bromofluorobenzene	101	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-413

GC/MS Volatiles

Lot-Sample #....: A5G130319-005 Work Order #....: HFEJPLAC Matrix.....: SO
 Date Sampled...: 07/11/05 10:05 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200616
 Dilution Factor: 1
 % Moisture.....: 2.6 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	390 J,B	600	ug/kg	99
Benzene	ND	40	ug/kg	6.4
Bromodichloromethane	ND	80	ug/kg	12
Bromoform	ND	80	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	600	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.3
Chloroethane	ND	200	ug/kg	65
Chloroform	ND	40	ug/kg	12
Chloromethane	10 J,B	200	ug/kg	5.2
Cyclohexane	ND	960	ug/kg	7.7
Dibromochloromethane	ND	40	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	60
1,2-Dibromoethane	ND	200	ug/kg	9.9
1,2-Dichlorobenzene	ND	80	ug/kg	17
1,3-Dichlorobenzene	ND	80	ug/kg	7.2
1,4-Dichlorobenzene	ND	80	ug/kg	7.9
Dichlorodifluoromethane	ND	80	ug/kg	5.4
1,1-Dichloroethane	ND	40	ug/kg	7.3
1,2-Dichloroethane	ND	40	ug/kg	9.3
1,1-Dichloroethene	ND	40	ug/kg	8.3
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.4
cis-1,3-Dichloropropene	ND	40	ug/kg	5.5
trans-1,3-Dichloropropene	ND	40	ug/kg	5.4
Ethylbenzene	ND	40	ug/kg	6.8
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.1
Methyl acetate	ND	960	ug/kg	52
Methylene chloride	ND	200	ug/kg	99
Methylcyclohexane	ND	960	ug/kg	5.7
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-413

GC/MS Volatiles

Lot-Sample #....: A5G130319-005 Work Order #....: HFEJP1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	8.2
Tetrachloroethene	ND	40	ug/kg	9.0
Toluene	ND	80	ug/kg	9.1
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.5
1,1,2-Trichloroethane	ND	40	ug/kg	9.9
Trichloroethene	ND	40	ug/kg	12
Trichlorofluoromethane	ND	80	ug/kg	8.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	80	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(59 - 138)
1,2-Dichloroethane-d4	110	(61 - 130)
Toluene-d8	114	(60 - 143)
4-Bromofluorobenzene	107	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-414

GC/MS Volatiles

Lot-Sample #....: A5G130319-006 Work Order #....: HFEJR1AC Matrix.....: SO
 Date Sampled....: 07/11/05 10:07 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200616
 Dilution Factor: 0.97
 % Moisture.....: 1.3 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	350 J,B	580	ug/kg	96
Benzene	ND	39	ug/kg	6.2
Bromodichloromethane	ND	78	ug/kg	12
Bromoform	ND	78	ug/kg	13
Bromomethane	ND	190	ug/kg	24
2-Butanone	ND	580	ug/kg	48
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	39	ug/kg	12
Chlorobenzene	ND	39	ug/kg	6.1
Chloroethane	ND	190	ug/kg	63
Chloroform	ND	39	ug/kg	12
Chloromethane	9.5 J,B	190	ug/kg	5.0
Cyclohexane	ND	930	ug/kg	7.5
Dibromochloromethane	ND	39	ug/kg	6.7
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	58
1,2-Dibromoethane	ND	190	ug/kg	9.6
1,2-Dichlorobenzene	ND	78	ug/kg	16
1,3-Dichlorobenzene	ND	78	ug/kg	7.0
1,4-Dichlorobenzene	ND	78	ug/kg	7.7
Dichlorodifluoromethane	ND	78	ug/kg	5.2
1,1-Dichloroethane	ND	39	ug/kg	7.1
1,2-Dichloroethane	ND	39	ug/kg	9.0
1,1-Dichloroethene	ND	39	ug/kg	8.1
cis-1,2-Dichloroethene	ND	39	ug/kg	14
trans-1,2-Dichloroethene	ND	39	ug/kg	11
1,2-Dichloropropane	ND	39	ug/kg	7.2
cis-1,3-Dichloropropene	ND	39	ug/kg	5.3
trans-1,3-Dichloropropene	ND	39	ug/kg	5.2
Ethylbenzene	ND	39	ug/kg	6.6
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.9
Methyl acetate	71 J	930	ug/kg	50
Methylene chloride	ND	190	ug/kg	96
Methylcyclohexane	ND	930	ug/kg	5.5
4-Methyl-2-pentanone	ND	1900	ug/kg	11
Methyl tert-butyl ether	ND	190	ug/kg	9.7
Styrene	ND	39	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-414

GC/MS Volatiles

Lot-Sample #....: A5G130319-006 Work Order #....: HFEJR1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	78	ug/kg	8.0
Tetrachloroethene	ND	39	ug/kg	8.7
Toluene	ND	78	ug/kg	8.8
1,2,4-Trichloro- benzene	ND	190	ug/kg	12
1,1,1-Trichloroethane	ND	39	ug/kg	9.2
1,1,2-Trichloroethane	ND	39	ug/kg	9.6
Trichloroethene	12 J	39	ug/kg	12
Trichlorofluoromethane	ND	78	ug/kg	8.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.7
Vinyl chloride	ND	78	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	79	(59 - 138)
1,2-Dichloroethane-d4	97	(61 - 130)
Toluene-d8	98	(60 - 143)
4-Bromofluorobenzene	93	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-415

GC/MS Volatiles

Lot-Sample #....: A5G130319-007 Work Order #....: HFEJT1AC Matrix.....: SO
 Date Sampled...: 07/11/05 10:10 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200616
 Dilution Factor: 1
 % Moisture.....: 1.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	370 J,B	600	ug/kg	99
Benzene	ND	40	ug/kg	6.4
Bromodichloromethane	ND	80	ug/kg	12
Bromoform	ND	80	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	600	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.3
Chloroethane	ND	200	ug/kg	65
Chloroform	ND	40	ug/kg	12
Chloromethane	10 J,B	200	ug/kg	5.2
Cyclohexane	ND	960	ug/kg	7.7
Dibromochloromethane	ND	40	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	60
1,2-Dibromoethane	ND	200	ug/kg	9.9
1,2-Dichlorobenzene	ND	80	ug/kg	17
1,3-Dichlorobenzene	ND	80	ug/kg	7.2
1,4-Dichlorobenzene	ND	80	ug/kg	7.9
Dichlorodifluoromethane	ND	80	ug/kg	5.4
1,1-Dichloroethane	ND	40	ug/kg	7.3
1,2-Dichloroethane	ND	40	ug/kg	9.3
1,1-Dichloroethene	ND	40	ug/kg	8.3
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.4
cis-1,3-Dichloropropene	ND	40	ug/kg	5.5
trans-1,3-Dichloropropene	ND	40	ug/kg	5.4
Ethylbenzene	ND	40	ug/kg	6.8
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.1
Methyl acetate	380 J	960	ug/kg	52
Methylene chloride	ND	200	ug/kg	99
Methylcyclohexane	14 J	960	ug/kg	5.7
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-415

GC/MS Volatiles

Lot-Sample #....: A5G130319-007 Work Order #....: HFEJT1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	8.2
Tetrachloroethene	ND	40	ug/kg	9.0
Toluene	ND	80	ug/kg	9.1
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.5
1,1,2-Trichloroethane	ND	40	ug/kg	9.9
Trichloroethene	290	40	ug/kg	12
Trichlorofluoromethane	ND	80	ug/kg	8.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	80	ug/kg	16
Xylenes (total)	15 J	120	ug/kg	15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	84	(59 - 138)
1,2-Dichloroethane-d4	108	(61 - 130)
Toluene-d8	112	(60 - 143)
4-Bromofluorobenzene	107	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-416

GC/MS Volatiles

Lot-Sample #....: A5G130319-008 Work Order #....: HFEJV1AC Matrix.....: SO
 Date Sampled...: 07/11/05 10:12 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200616
 Dilution Factor: 0.99
 % Moisture.....: 3.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	340 J,B	590	ug/kg	98
Benzene	ND	40	ug/kg	6.3
Bromodichloromethane	ND	79	ug/kg	12
Bromoform	ND	79	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	590	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.2
Chloroethane	ND	200	ug/kg	64
Chloroform	ND	40	ug/kg	12
Chloromethane	11 J,B	200	ug/kg	5.1
Cyclohexane	ND	950	ug/kg	7.6
Dibromochloromethane	ND	40	ug/kg	6.8
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	59
1,2-Dibromoethane	ND	200	ug/kg	9.8
1,2-Dichlorobenzene	ND	79	ug/kg	17
1,3-Dichlorobenzene	ND	79	ug/kg	7.1
1,4-Dichlorobenzene	ND	79	ug/kg	7.8
Dichlorodifluoromethane	ND	79	ug/kg	5.3
1,1-Dichloroethane	ND	40	ug/kg	7.2
1,2-Dichloroethane	ND	40	ug/kg	9.2
1,1-Dichloroethene	ND	40	ug/kg	8.2
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.3
cis-1,3-Dichloropropene	ND	40	ug/kg	5.4
trans-1,3-Dichloropropene	ND	40	ug/kg	5.3
Ethylbenzene	ND	40	ug/kg	6.7
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.0
Methyl acetate	ND	950	ug/kg	51
Methylene chloride	ND	200	ug/kg	98
Methylcyclohexane	ND	950	ug/kg	5.6
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	9.9
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-416

GC/MS Volatiles

Lot-Sample #....: A5G130319-008 Work Order #....: HFEJVIAC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	79	ug/kg	8.1
Tetrachloroethene	ND	40	ug/kg	8.9
Toluene	ND	79	ug/kg	9.0
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.4
1,1,2-Trichloroethane	ND	40	ug/kg	9.8
Trichloroethene	ND	40	ug/kg	12
Trichlorofluoromethane	ND	79	ug/kg	8.2
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	9.9
Vinyl chloride	ND	79	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	80	(59 - 138)		
1,2-Dichloroethane-d4	96	(61 - 130)		
Toluene-d8	95	(60 - 143)		
4-Bromofluorobenzene	94	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-417

GC/MS Volatiles

Lot-Sample #....: A5G130319-009 Work Order #....: HFEJ01AC Matrix.....: SO
 Date Sampled....: 07/11/05 10:15 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200616
 Dilution Factor: 0.99
 % Moisture.....: 2.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	420 J,B	590	ug/kg	98
Benzene	ND	40	ug/kg	6.3
Bromodichloromethane	ND	79	ug/kg	12
Bromoform	ND	79	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	590	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.2
Chloroethane	ND	200	ug/kg	64
Chloroform	ND	40	ug/kg	12
Chloromethane	9.9 J,B	200	ug/kg	5.1
Cyclohexane	13 J	950	ug/kg	7.6
Dibromochloromethane	ND	40	ug/kg	6.8
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	59
1,2-Dibromoethane	ND	200	ug/kg	9.8
1,2-Dichlorobenzene	ND	79	ug/kg	17
1,3-Dichlorobenzene	ND	79	ug/kg	7.1
1,4-Dichlorobenzene	ND	79	ug/kg	7.8
Dichlorodifluoromethane	ND	79	ug/kg	5.3
1,1-Dichloroethane	ND	40	ug/kg	7.2
1,2-Dichloroethane	ND	40	ug/kg	9.2
1,1-Dichloroethene	ND	40	ug/kg	8.2
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.3
cis-1,3-Dichloropropene	ND	40	ug/kg	5.4
trans-1,3-Dichloropropene	ND	40	ug/kg	5.3
Ethylbenzene	ND	40	ug/kg	6.7
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.0
Methyl acetate	440 J	950	ug/kg	51
Methylene chloride	ND	200	ug/kg	98
Methylcyclohexane	37 J	950	ug/kg	5.6
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	9.9
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-417

GC/MS Volatiles

Lot-Sample #....: A5G130319-009 Work Order #....: HFEJ01AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	79	ug/kg	8.1
Tetrachloroethene	ND	40	ug/kg	8.9
Toluene	19 J	79	ug/kg	9.0
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.4
1,1,2-Trichloroethane	ND	40	ug/kg	9.8
Trichloroethene	440	40	ug/kg	12
Trichlorofluoromethane	ND	79	ug/kg	8.2
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	9.9
Vinyl chloride	ND	79	ug/kg	16
Xylenes (total)	36 J	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	71	(59 - 138)		
1,2-Dichloroethane-d4	108	(61 - 130)		
Toluene-d8	108	(60 - 143)		
4-Bromofluorobenzene	105	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-418

GC/MS Volatiles

Lot-Sample #....: A5G130319-010 Work Order #....: HFEJ11AC Matrix.....: SO
 Date Sampled....: 07/11/05 10:17 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200616
 Dilution Factor: 1
 % Moisture.....: 2.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	330 J,B	600	ug/kg	99
Benzene	ND	40	ug/kg	6.4
Bromodichloromethane	ND	80	ug/kg	12
Bromoform	ND	80	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	600	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.3
Chloroethane	ND	200	ug/kg	65
Chloroform	ND	40	ug/kg	12
Chloromethane	10 J,B	200	ug/kg	5.2
Cyclohexane	ND	960	ug/kg	7.7
Dibromochloromethane	ND	40	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	60
1,2-Dibromoethane	ND	200	ug/kg	9.9
1,2-Dichlorobenzene	ND	80	ug/kg	17
1,3-Dichlorobenzene	ND	80	ug/kg	7.2
1,4-Dichlorobenzene	ND	80	ug/kg	7.9
Dichlorodifluoromethane	ND	80	ug/kg	5.4
1,1-Dichloroethane	ND	40	ug/kg	7.3
1,2-Dichloroethane	ND	40	ug/kg	9.3
1,1-Dichloroethene	ND	40	ug/kg	8.3
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.4
cis-1,3-Dichloropropene	ND	40	ug/kg	5.5
trans-1,3-Dichloropropene	ND	40	ug/kg	5.4
Ethylbenzene	ND	40	ug/kg	6.8
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.1
Methyl acetate	ND	960	ug/kg	52
Methylene chloride	ND	200	ug/kg	99
Methylcyclohexane	ND	960	ug/kg	5.7
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-418

GC/MS Volatiles

Lot-Sample #....: A5G130319-010 Work Order #....: HFEJ11AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	8.2
Tetrachloroethene	ND	40	ug/kg	9.0
Toluene	ND	80	ug/kg	9.1
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.5
1,1,2-Trichloroethane	ND	40	ug/kg	9.9
Trichloroethene	ND	40	ug/kg	12
Trichlorofluoromethane	ND	80	ug/kg	8.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	80	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	80	(59 - 138)		
1,2-Dichloroethane-d4	98	(61 - 130)		
Toluene-d8	97	(60 - 143)		
4-Bromofluorobenzene	97	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-419

GC/MS Volatiles

Lot-Sample #....: A5G130319-011 Work Order #....: HFEJ41AC Matrix.....: SO
 Date Sampled....: 07/11/05 12:25 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200616
 Dilution Factor: 1
 % Moisture.....: 3.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	400 J,B	600	ug/kg	99
Benzene	ND	40	ug/kg	6.4
Bromodichloromethane	ND	80	ug/kg	12
Bromoform	ND	80	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	600	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.3
Chloroethane	ND	200	ug/kg	65
Chloroform	ND	40	ug/kg	12
Chloromethane	8.3 J,B	200	ug/kg	5.2
Cyclohexane	ND	960	ug/kg	7.7
Dibromochloromethane	ND	40	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	60
1,2-Dibromoethane	ND	200	ug/kg	9.9
1,2-Dichlorobenzene	ND	80	ug/kg	17
1,3-Dichlorobenzene	ND	80	ug/kg	7.2
1,4-Dichlorobenzene	ND	80	ug/kg	7.9
Dichlorodifluoromethane	ND	80	ug/kg	5.4
1,1-Dichloroethane	ND	40	ug/kg	7.3
1,2-Dichloroethane	ND	40	ug/kg	9.3
1,1-Dichloroethene	ND	40	ug/kg	8.3
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.4
cis-1,3-Dichloropropene	ND	40	ug/kg	5.5
trans-1,3-Dichloropropene	ND	40	ug/kg	5.4
Ethylbenzene	ND	40	ug/kg	6.8
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.1
Methyl acetate	53 J	960	ug/kg	52
Methylene chloride	ND	200	ug/kg	99
Methylcyclohexane	ND	960	ug/kg	5.7
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-419

GC/MS Volatiles

Lot-Sample #....: A5G130319-011 Work Order #....: HFEJ41AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	8.2
Tetrachloroethene	ND	40	ug/kg	9.0
Toluene	ND	80	ug/kg	9.1
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.5
1,1,2-Trichloroethane	ND	40	ug/kg	9.9
Trichloroethene	15 J	40	ug/kg	12
Trichlorofluoromethane	ND	80	ug/kg	8.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	80	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	97	(59 - 138)		
1,2-Dichloroethane-d4	117	(61 - 130)		
Toluene-d8	121	(60 - 143)		
4-Bromofluorobenzene	112	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-420

GC/MS Volatiles

Lot-Sample #....: A5G130319-012 Work Order #....: HFEJ61AC Matrix.....: SO
 Date Sampled....: 07/11/05 12:30 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200616
 Dilution Factor: 1.01
 % Moisture.....: 3.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	390 J,B	610	ug/kg	100
Benzene	ND	40	ug/kg	6.5
Bromodichloromethane	ND	81	ug/kg	12
Bromoform	ND	81	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	610	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.4
Chloroethane	ND	200	ug/kg	66
Chloroform	ND	40	ug/kg	12
Chloromethane	ND	200	ug/kg	5.3
Cyclohexane	ND	970	ug/kg	7.8
Dibromochloromethane	ND	40	ug/kg	7.0
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	61
1,2-Dibromoethane	ND	200	ug/kg	10
1,2-Dichlorobenzene	ND	81	ug/kg	17
1,3-Dichlorobenzene	ND	81	ug/kg	7.3
1,4-Dichlorobenzene	ND	81	ug/kg	8.0
Dichlorodifluoromethane	ND	81	ug/kg	5.5
1,1-Dichloroethane	ND	40	ug/kg	7.4
1,2-Dichloroethane	ND	40	ug/kg	9.4
1,1-Dichloroethene	ND	40	ug/kg	8.4
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.5
cis-1,3-Dichloropropene	ND	40	ug/kg	5.6
trans-1,3-Dichloropropene	ND	40	ug/kg	5.5
Ethylbenzene	ND	40	ug/kg	6.9
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.2
Methyl acetate	ND	970	ug/kg	53
Methylene chloride	ND	200	ug/kg	100
Methylcyclohexane	ND	970	ug/kg	5.8
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-420

GC/MS Volatiles

Lot-Sample #....: A5G130319-012 Work Order #....: HFEJ61AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	81	ug/kg	8.3
Tetrachloroethene	ND	40	ug/kg	9.1
Toluene	ND	81	ug/kg	9.2
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.6
1,1,2-Trichloroethane	ND	40	ug/kg	10
Trichloroethene	ND	40	ug/kg	12
Trichlorofluoromethane	ND	81	ug/kg	8.4
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	81	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(59 - 138)
1,2-Dichloroethane-d4	104	(61 - 130)
Toluene-d8	109	(60 - 143)
4-Bromofluorobenzene	100	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-421

GC/MS Volatiles

Lot-Sample #....: A5G130319-013 Work Order #....: HFEJ71AC Matrix.....: SO
 Date Sampled....: 07/11/05 12:32 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200616
 Dilution Factor: 0.95
 % Moisture.....: 2.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	370 J,B	570	ug/kg	94
Benzene	ND	38	ug/kg	6.1
Bromodichloromethane	ND	76	ug/kg	11
Bromoform	ND	76	ug/kg	12
Bromomethane	ND	190	ug/kg	24
2-Butanone	ND	570	ug/kg	47
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	38	ug/kg	11
Chlorobenzene	ND	38	ug/kg	6.0
Chloroethane	ND	190	ug/kg	62
Chloroform	ND	38	ug/kg	11
Chloromethane	7.3 J,B	190	ug/kg	4.9
Cyclohexane	ND	910	ug/kg	7.3
Dibromochloromethane	ND	38	ug/kg	6.6
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	57
1,2-Dibromoethane	ND	190	ug/kg	9.4
1,2-Dichlorobenzene	ND	76	ug/kg	16
1,3-Dichlorobenzene	ND	76	ug/kg	6.8
1,4-Dichlorobenzene	ND	76	ug/kg	7.5
Dichlorodifluoromethane	ND	76	ug/kg	5.1
1,1-Dichloroethane	ND	38	ug/kg	6.9
1,2-Dichloroethane	ND	38	ug/kg	8.8
1,1-Dichloroethene	ND	38	ug/kg	7.9
cis-1,2-Dichloroethene	ND	38	ug/kg	13
trans-1,2-Dichloroethene	ND	38	ug/kg	10
1,2-Dichloropropane	ND	38	ug/kg	7.0
cis-1,3-Dichloropropene	ND	38	ug/kg	5.2
trans-1,3-Dichloropropene	ND	38	ug/kg	5.1
Ethylbenzene	ND	38	ug/kg	6.5
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.8
Methyl acetate	ND	910	ug/kg	49
Methylene chloride	ND	190	ug/kg	94
Methylcyclohexane	ND	910	ug/kg	5.4
4-Methyl-2-pentanone	ND	1900	ug/kg	10
Methyl tert-butyl ether	ND	190	ug/kg	9.5
Styrene	ND	38	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-421

GC/MS Volatiles

Lot-Sample #....: A5G130319-013 Work Order #....: HFEJ71AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	76	ug/kg	7.8
Tetrachloroethene	ND	38	ug/kg	8.6
Toluene	ND	76	ug/kg	8.6
1,2,4-Trichloro- benzene	ND	190	ug/kg	11
1,1,1-Trichloroethane	ND	38	ug/kg	9.0
1,1,2-Trichloroethane	ND	38	ug/kg	9.4
Trichloroethene	ND	38	ug/kg	11
Trichlorofluoromethane	ND	76	ug/kg	7.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.5
Vinyl chloride	ND	76	ug/kg	15
Xylenes (total)	ND	110	ug/kg	14
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	87	(59 - 138)		
1,2-Dichloroethane-d4	103	(61 - 130)		
Toluene-d8	109	(60 - 143)		
4-Bromofluorobenzene	101	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-422

GC/MS Volatiles

Lot-Sample #....: A5G130319-014 Work Order #....: HFEJ91AC Matrix.....: SO
 Date Sampled....: 07/11/05 12:35 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200616
 Dilution Factor: 0.95
 % Moisture.....: 1.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	370 J,B	570	ug/kg	94
Benzene	ND	38	ug/kg	6.1
Bromodichloromethane	ND	76	ug/kg	11
Bromoform	ND	76	ug/kg	12
Bromomethane	29 J,B	190	ug/kg	24
2-Butanone	ND	570	ug/kg	47
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	38	ug/kg	11
Chlorobenzene	ND	38	ug/kg	6.0
Chloroethane	ND	190	ug/kg	62
Chloroform	ND	38	ug/kg	11
Chloromethane	7.1 J,B	190	ug/kg	4.9
Cyclohexane	ND	910	ug/kg	7.3
Dibromochloromethane	ND	38	ug/kg	6.6
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	57
1,2-Dibromoethane	ND	190	ug/kg	9.4
1,2-Dichlorobenzene	ND	76	ug/kg	16
1,3-Dichlorobenzene	ND	76	ug/kg	6.8
1,4-Dichlorobenzene	ND	76	ug/kg	7.5
Dichlorodifluoromethane	ND	76	ug/kg	5.1
1,1-Dichloroethane	ND	38	ug/kg	6.9
1,2-Dichloroethane	ND	38	ug/kg	8.8
1,1-Dichloroethene	ND	38	ug/kg	7.9
cis-1,2-Dichloroethene	ND	38	ug/kg	13
trans-1,2-Dichloroethene	ND	38	ug/kg	10
1,2-Dichloropropane	ND	38	ug/kg	7.0
cis-1,3-Dichloropropene	ND	38	ug/kg	5.2
trans-1,3-Dichloropropene	ND	38	ug/kg	5.1
Ethylbenzene	ND	38	ug/kg	6.5
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.8
Methyl acetate	ND	910	ug/kg	49
Methylene chloride	ND	190	ug/kg	94
Methylcyclohexane	ND	910	ug/kg	5.4
4-Methyl-2-pentanone	ND	1900	ug/kg	10
Methyl tert-butyl ether	ND	190	ug/kg	9.5
Styrene	ND	38	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-422

GC/MS Volatiles

Lot-Sample #....: A5G130319-014 Work Order #....: HFEJ91AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	76	ug/kg	7.8
Tetrachloroethene	ND	38	ug/kg	8.6
Toluene	ND	76	ug/kg	8.6
1,2,4-Trichloro- benzene	ND	190	ug/kg	11
1,1,1-Trichloroethane	ND	38	ug/kg	9.0
1,1,2-Trichloroethane	ND	38	ug/kg	9.4
Trichloroethene	ND	38	ug/kg	11
Trichlorofluoromethane	ND	76	ug/kg	7.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.5
Vinyl chloride	ND	76	ug/kg	15
Xylenes (total)	ND	110	ug/kg	14
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	83	(59 - 138)		
1,2-Dichloroethane-d4	100	(61 - 130)		
Toluene-d8	103	(60 - 143)		
4-Bromofluorobenzene	99	(47 - 158)		

NOTE(S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-423

GC/MS Volatiles

Lot-Sample #....: A5G130319-015 Work Order #....: HFEKA1AC Matrix.....: SO
 Date Sampled....: 07/11/05 12:37 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200616
 Dilution Factor: 0.94
 % Moisture.....: 2.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	350 J,B	560	ug/kg	93
Benzene	ND	38	ug/kg	6.0
Bromodichloromethane	ND	75	ug/kg	11
Bromoform	ND	75	ug/kg	12
Bromomethane	ND	190	ug/kg	24
2-Butanone	ND	560	ug/kg	46
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	38	ug/kg	11
Chlorobenzene	ND	38	ug/kg	5.9
Chloroethane	ND	190	ug/kg	61
Chloroform	ND	38	ug/kg	11
Chloromethane	8.0 J,B	190	ug/kg	4.9
Cyclohexane	ND	900	ug/kg	7.2
Dibromochloromethane	ND	38	ug/kg	6.5
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	56
1,2-Dibromoethane	ND	190	ug/kg	9.3
1,2-Dichlorobenzene	ND	75	ug/kg	16
1,3-Dichlorobenzene	ND	75	ug/kg	6.8
1,4-Dichlorobenzene	ND	75	ug/kg	7.4
Dichlorodifluoromethane	ND	75	ug/kg	5.1
1,1-Dichloroethane	ND	38	ug/kg	6.9
1,2-Dichloroethane	ND	38	ug/kg	8.7
1,1-Dichloroethene	ND	38	ug/kg	7.8
cis-1,2-Dichloroethene	ND	38	ug/kg	13
trans-1,2-Dichloroethene	ND	38	ug/kg	10
1,2-Dichloropropane	ND	38	ug/kg	7.0
cis-1,3-Dichloropropene	ND	38	ug/kg	5.2
trans-1,3-Dichloropropene	ND	38	ug/kg	5.1
Ethylbenzene	ND	38	ug/kg	6.4
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.8
Methyl acetate	ND	900	ug/kg	49
Methylene chloride	ND	190	ug/kg	93
Methylcyclohexane	ND	900	ug/kg	5.4
4-Methyl-2-pentanone	ND	1900	ug/kg	10
Methyl tert-butyl ether	ND	190	ug/kg	9.4
Styrene	ND	38	ug/kg	26

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-423

GC/MS Volatiles

Lot-Sample #....: A5G130319-015 Work Order #....: HFEKA1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	75	ug/kg	7.7
Tetrachloroethene	ND	38	ug/kg	8.5
Toluene	ND	75	ug/kg	8.6
1,2,4-Trichloro- benzene	ND	190	ug/kg	11
1,1,1-Trichloroethane	ND	38	ug/kg	8.9
1,1,2-Trichloroethane	ND	38	ug/kg	9.3
Trichloroethene	ND	38	ug/kg	11
Trichlorofluoromethane	ND	75	ug/kg	7.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.4
Vinyl chloride	ND	75	ug/kg	15
Xylenes (total)	ND	110	ug/kg	14

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(59 - 138)
1,2-Dichloroethane-d4	100	(61 - 130)
Toluene-d8	105	(60 - 143)
4-Bromofluorobenzene	99	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-424

GC/MS Volatiles

Lot-Sample #....: A5G130319-016 Work Order #....: HFEKD1AC Matrix.....: SO
 Date Sampled....: 07/11/05 12:40 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5200616
 Dilution Factor: 1.2
 % Moisture.....: 2.3 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	460 J,B	720	ug/kg	120
Benzene	ND	48	ug/kg	7.7
Bromodichloromethane	ND	96	ug/kg	14
Bromoform	ND	96	ug/kg	16
Bromomethane	ND	240	ug/kg	30
2-Butanone	ND	720	ug/kg	59
Carbon disulfide	ND	240	ug/kg	24
Carbon tetrachloride	ND	48	ug/kg	14
Chlorobenzene	ND	48	ug/kg	7.6
Chloroethane	ND	240	ug/kg	78
Chloroform	ND	48	ug/kg	14
Chloromethane	9.7 J,B	240	ug/kg	6.2
Cyclohexane	ND	1200	ug/kg	9.2
Dibromochloromethane	ND	48	ug/kg	8.3
1,2-Dibromo-3-chloro- propane	ND	240	ug/kg	72
1,2-Dibromoethane	ND	240	ug/kg	12
1,2-Dichlorobenzene	ND	96	ug/kg	20
1,3-Dichlorobenzene	ND	96	ug/kg	8.6
1,4-Dichlorobenzene	ND	96	ug/kg	9.5
Dichlorodifluoromethane	ND	96	ug/kg	6.5
1,1-Dichloroethane	ND	48	ug/kg	8.8
1,2-Dichloroethane	ND	48	ug/kg	11
1,1-Dichloroethene	ND	48	ug/kg	10
cis-1,2-Dichloroethene	ND	48	ug/kg	17
trans-1,2-Dichloroethene	ND	48	ug/kg	13
1,2-Dichloropropane	ND	48	ug/kg	8.9
cis-1,3-Dichloropropene	ND	48	ug/kg	6.6
trans-1,3-Dichloropropene	ND	48	ug/kg	6.5
Ethylbenzene	ND	48	ug/kg	8.2
2-Hexanone	ND	2400	ug/kg	29
Isopropylbenzene	ND	240	ug/kg	6.1
Methyl acetate	ND	1200	ug/kg	62
Methylene chloride	ND	240	ug/kg	120
Methylcyclohexane	ND	1200	ug/kg	6.8
4-Methyl-2-pentanone	ND	2400	ug/kg	13
Methyl tert-butyl ether	ND	240	ug/kg	12
Styrene	ND	48	ug/kg	34

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-424

GC/MS Volatiles

Lot-Sample #....: A5G130319-016 Work Order #....: HFEKD1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	96	ug/kg	9.8
Tetrachloroethene	ND	48	ug/kg	11
Toluene	ND	96	ug/kg	11
1,2,4-Trichloro- benzene	ND	240	ug/kg	14
1,1,1-Trichloroethane	ND	48	ug/kg	11
1,1,2-Trichloroethane	ND	48	ug/kg	12
Trichloroethene	ND	48	ug/kg	14
Trichlorofluoromethane	ND	96	ug/kg	10
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	240	ug/kg	12
Vinyl chloride	ND	96	ug/kg	19
Xylenes (total)	ND	140	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	84	(59 - 138)
1,2-Dichloroethane-d4	100	(61 - 130)
Toluene-d8	101	(60 - 143)
4-Bromofluorobenzene	96	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-425

GC/MS Volatiles

Lot-Sample #....: A5G130319-017 Work Order #....: HFEKE1AC Matrix.....: SO
 Date Sampled....: 07/11/05 12:42 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5200616
 Dilution Factor: 0.95
 % Moisture.....: 4.3 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	330 J,B	570	ug/kg	94
Benzene	ND	38	ug/kg	6.1
Bromodichloromethane	ND	76	ug/kg	11
Bromoform	ND	76	ug/kg	12
Bromomethane	ND	190	ug/kg	24
2-Butanone	ND	570	ug/kg	47
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	38	ug/kg	11
Chlorobenzene	ND	38	ug/kg	6.0
Chloroethane	ND	190	ug/kg	62
Chloroform	ND	38	ug/kg	11
Chloromethane	9.2 J,B	190	ug/kg	4.9
Cyclohexane	ND	910	ug/kg	7.3
Dibromochloromethane	ND	38	ug/kg	6.6
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	57
1,2-Dibromoethane	ND	190	ug/kg	9.4
1,2-Dichlorobenzene	ND	76	ug/kg	16
1,3-Dichlorobenzene	ND	76	ug/kg	6.8
1,4-Dichlorobenzene	ND	76	ug/kg	7.5
Dichlorodifluoromethane	ND	76	ug/kg	5.1
1,1-Dichloroethane	ND	38	ug/kg	6.9
1,2-Dichloroethane	ND	38	ug/kg	8.8
1,1-Dichloroethene	ND	38	ug/kg	7.9
cis-1,2-Dichloroethene	ND	38	ug/kg	13
trans-1,2-Dichloroethene	ND	38	ug/kg	10
1,2-Dichloropropane	ND	38	ug/kg	7.0
cis-1,3-Dichloropropene	ND	38	ug/kg	5.2
trans-1,3-Dichloropropene	ND	38	ug/kg	5.1
Ethylbenzene	ND	38	ug/kg	6.5
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.8
Methyl acetate	ND	910	ug/kg	49
Methylene chloride	ND	190	ug/kg	94
Methylcyclohexane	ND	910	ug/kg	5.4
4-Methyl-2-pentanone	ND	1900	ug/kg	10
Methyl tert-butyl ether	ND	190	ug/kg	9.5
Styrene	ND	38	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-425

GC/MS Volatiles

Lot-Sample #....: A5G130319-017 Work Order #....: HFEKE1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	76	ug/kg	7.8
Tetrachloroethene	ND	38	ug/kg	8.6
Toluene	ND	76	ug/kg	8.6
1,2,4-Trichloro- benzene	ND	190	ug/kg	11
1,1,1-Trichloroethane	ND	38	ug/kg	9.0
1,1,2-Trichloroethane	ND	38	ug/kg	9.4
Trichloroethene	ND	38	ug/kg	11
Trichlorofluoromethane	ND	76	ug/kg	7.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.5
Vinyl chloride	ND	76	ug/kg	15
Xylenes (total)	ND	110	ug/kg	14

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(59 - 138)
1,2-Dichloroethane-d4	107	(61 - 130)
Toluene-d8	107	(60 - 143)
4-Bromofluorobenzene	99	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-426

GC/MS Volatiles

Lot-Sample #....: A5G130319-018 Work Order #....: HFEKG1AC Matrix.....: SO
 Date Sampled....: 07/11/05 12:45 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5200616
 Dilution Factor: 1.32
 % Moisture.....: 9.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	480 J,B	790	ug/kg	130
Benzene	ND	53	ug/kg	8.4
Bromodichloromethane	ND	110	ug/kg	16
Bromoform	ND	110	ug/kg	17
Bromomethane	ND	260	ug/kg	33
2-Butanone	ND	790	ug/kg	65
Carbon disulfide	ND	260	ug/kg	26
Carbon tetrachloride	ND	53	ug/kg	16
Chlorobenzene	ND	53	ug/kg	8.3
Chloroethane	ND	260	ug/kg	86
Chloroform	ND	53	ug/kg	16
Chloromethane	ND	260	ug/kg	6.9
Cyclohexane	ND	1300	ug/kg	10
Dibromochloromethane	ND	53	ug/kg	9.1
1,2-Dibromo-3-chloro- propane	ND	260	ug/kg	79
1,2-Dibromoethane	ND	260	ug/kg	13
1,2-Dichlorobenzene	ND	110	ug/kg	22
1,3-Dichlorobenzene	ND	110	ug/kg	9.5
1,4-Dichlorobenzene	ND	110	ug/kg	10
Dichlorodifluoromethane	ND	110	ug/kg	7.1
1,1-Dichloroethane	ND	53	ug/kg	9.6
1,2-Dichloroethane	ND	53	ug/kg	12
1,1-Dichloroethene	ND	53	ug/kg	11
cis-1,2-Dichloroethene	ND	53	ug/kg	18
trans-1,2-Dichloroethene	ND	53	ug/kg	15
1,2-Dichloropropane	ND	53	ug/kg	9.8
cis-1,3-Dichloropropene	ND	53	ug/kg	7.3
trans-1,3-Dichloropropene	ND	53	ug/kg	7.1
Ethylbenzene	ND	53	ug/kg	9.0
2-Hexanone	ND	2600	ug/kg	32
Isopropylbenzene	ND	260	ug/kg	6.7
Methyl acetate	ND	1300	ug/kg	69
Methylene chloride	ND	260	ug/kg	130
Methylcyclohexane	ND	1300	ug/kg	7.5
4-Methyl-2-pentanone	ND	2600	ug/kg	15
Methyl tert-butyl ether	ND	260	ug/kg	13
Styrene	ND	53	ug/kg	37

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-426

GC/MS Volatiles

Lot-Sample #....: A5G130319-018 Work Order #....: HFEKG1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	110	ug/kg	11
Tetrachloroethene	ND	53	ug/kg	12
Toluene	ND	110	ug/kg	12
1,2,4-Trichloro- benzene	ND	260	ug/kg	16
1,1,1-Trichloroethane	ND	53	ug/kg	13
1,1,2-Trichloroethane	ND	53	ug/kg	13
Trichloroethene	ND	53	ug/kg	16
Trichlorofluoromethane	ND	110	ug/kg	11
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	260	ug/kg	13
Vinyl chloride	ND	110	ug/kg	21
Xylenes (total)	ND	160	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	81	(59 - 138)
1,2-Dichloroethane-d4	95	(61 - 130)
Toluene-d8	99	(60 - 143)
4-Bromofluorobenzene	92	(47 - 158)

NOTE(S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-427

GC/MS Volatiles

Lot-Sample #....: A5G130319-019 Work Order #....: HFEKH1AC Matrix.....: SO
 Date Sampled....: 07/11/05 12:47 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5200616
 Dilution Factor: 1
 % Moisture.....: 3.6 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	350 J,B	600	ug/kg	99
Benzene	ND	40	ug/kg	6.4
Bromodichloromethane	ND	80	ug/kg	12
Bromoform	ND	80	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	600	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.3
Chloroethane	ND	200	ug/kg	65
Chloroform	ND	40	ug/kg	12
Chloromethane	8.5 J,B	200	ug/kg	5.2
Cyclohexane	ND	960	ug/kg	7.7
Dibromochloromethane	ND	40	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	60
1,2-Dibromoethane	ND	200	ug/kg	9.9
1,2-Dichlorobenzene	ND	80	ug/kg	17
1,3-Dichlorobenzene	ND	80	ug/kg	7.2
1,4-Dichlorobenzene	ND	80	ug/kg	7.9
Dichlorodifluoromethane	ND	80	ug/kg	5.4
1,1-Dichloroethane	ND	40	ug/kg	7.3
1,2-Dichloroethane	ND	40	ug/kg	9.3
1,1-Dichloroethene	ND	40	ug/kg	8.3
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.4
cis-1,3-Dichloropropene	ND	40	ug/kg	5.5
trans-1,3-Dichloropropene	ND	40	ug/kg	5.4
Ethylbenzene	16 J	40	ug/kg	6.8
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.1
Methyl acetate	590 J	960	ug/kg	52
Methylene chloride	ND	200	ug/kg	99
Methylcyclohexane	ND	960	ug/kg	5.7
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-427

GC/MS Volatiles

Lot-Sample #....: A5G130319-019 Work Order #....: HFEKH1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	8.2
Tetrachloroethene	ND	40	ug/kg	9.0
Toluene	ND	80	ug/kg	9.1
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.5
1,1,2-Trichloroethane	ND	40	ug/kg	9.9
Trichloroethene	14 J	40	ug/kg	12
Trichlorofluoromethane	ND	80	ug/kg	8.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	80	ug/kg	16
Xylenes (total)	98 J	120	ug/kg	15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	73	(59 - 138)
1,2-Dichloroethane-d4	99	(61 - 130)
Toluene-d8	105	(60 - 143)
4-Bromofluorobenzene	103	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-428

GC/MS Volatiles

Lot-Sample #....: A5G130319-020 Work Order #....: HFEKK1AC Matrix.....: SO
 Date Sampled....: 07/11/05 12:50 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200671
 Dilution Factor: 1.05
 % Moisture.....: 2.6 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	370 J,B	630	ug/kg	100
Benzene	ND	42	ug/kg	6.7
Bromodichloromethane	ND	84	ug/kg	13
Bromoform	ND	84	ug/kg	14
Bromomethane	ND	210	ug/kg	26
2-Butanone	ND	630	ug/kg	51
Carbon disulfide	ND	210	ug/kg	21
Carbon tetrachloride	ND	42	ug/kg	13
Chlorobenzene	ND	42	ug/kg	6.6
Chloroethane	ND	210	ug/kg	68
Chloroform	ND	42	ug/kg	13
Chloromethane	ND	210	ug/kg	5.5
Cyclohexane	ND	1000	ug/kg	8.1
Dibromochloromethane	ND	42	ug/kg	7.2
1,2-Dibromo-3-chloro- propane	ND	210	ug/kg	63
1,2-Dibromoethane	ND	210	ug/kg	10
1,2-Dichlorobenzene	ND	84	ug/kg	18
1,3-Dichlorobenzene	ND	84	ug/kg	7.6
1,4-Dichlorobenzene	ND	84	ug/kg	8.3
Dichlorodifluoromethane	ND	84	ug/kg	5.7
1,1-Dichloroethane	ND	42	ug/kg	7.7
1,2-Dichloroethane	ND	42	ug/kg	9.8
1,1-Dichloroethene	ND	42	ug/kg	8.7
cis-1,2-Dichloroethene	ND	42	ug/kg	15
trans-1,2-Dichloroethene	ND	42	ug/kg	12
1,2-Dichloropropane	ND	42	ug/kg	7.8
cis-1,3-Dichloropropene	ND	42	ug/kg	5.8
trans-1,3-Dichloropropene	ND	42	ug/kg	5.7
Ethylbenzene	ND	42	ug/kg	7.1
2-Hexanone	ND	2100	ug/kg	25
Isopropylbenzene	ND	210	ug/kg	5.4
Methyl acetate	ND	1000	ug/kg	55
Methylene chloride	ND	210	ug/kg	100
Methylcyclohexane	ND	1000	ug/kg	6.0
4-Methyl-2-pentanone	ND	2100	ug/kg	12
Methyl tert-butyl ether	ND	210	ug/kg	10
Styrene	ND	42	ug/kg	29

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-428

GC/MS Volatiles

Lot-Sample #...: A5G130319-020 Work Order #...: HFEKK1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	84	ug/kg	8.6
Tetrachloroethene	ND	42	ug/kg	9.4
Toluene	ND	84	ug/kg	9.6
1,2,4-Trichloro- benzene	ND	210	ug/kg	13
1,1,1-Trichloroethane	ND	42	ug/kg	10
1,1,2-Trichloroethane	ND	42	ug/kg	10
Trichloroethene	ND	42	ug/kg	13
Trichlorofluoromethane	ND	84	ug/kg	8.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	210	ug/kg	10
Vinyl chloride	ND	84	ug/kg	17
Xylenes (total)	ND	130	ug/kg	16
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	80	(59 - 138)		
1,2-Dichloroethane-d4	79	(61 - 130)		
Toluene-d8	83	(60 - 143)		
4-Bromofluorobenzene	82	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-429

GC/MS Volatiles

Lot-Sample #....: A5G130319-021 Work Order #....: HFEKL1AC Matrix.....: SO
 Date Sampled....: 07/11/05 12:52 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200671
 Dilution Factor: 0.99
 % Moisture.....: 2.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	360 J,B	590	ug/kg	98
Benzene	ND	40	ug/kg	6.3
Bromodichloromethane	ND	79	ug/kg	12
Bromoform	ND	79	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	590	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.2
Chloroethane	ND	200	ug/kg	64
Chloroform	ND	40	ug/kg	12
Chloromethane	ND	200	ug/kg	5.1
Cyclohexane	ND	950	ug/kg	7.6
Dibromochloromethane	ND	40	ug/kg	6.8
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	59
1,2-Dibromoethane	ND	200	ug/kg	9.8
1,2-Dichlorobenzene	ND	79	ug/kg	17
1,3-Dichlorobenzene	ND	79	ug/kg	7.1
1,4-Dichlorobenzene	ND	79	ug/kg	7.8
Dichlorodifluoromethane	ND	79	ug/kg	5.3
1,1-Dichloroethane	ND	40	ug/kg	7.2
1,2-Dichloroethane	ND	40	ug/kg	9.2
1,1-Dichloroethene	ND	40	ug/kg	8.2
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.3
cis-1,3-Dichloropropene	ND	40	ug/kg	5.4
trans-1,3-Dichloropropene	ND	40	ug/kg	5.3
Ethylbenzene	ND	40	ug/kg	6.7
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.0
Methyl acetate	ND	950	ug/kg	51
Methylene chloride	ND	200	ug/kg	98
Methylcyclohexane	ND	950	ug/kg	5.6
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	9.9
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-429

GC/MS Volatiles

Lot-Sample #....: A5G130319-021 Work Order #....: HFEKL1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	79	ug/kg	8.1
Tetrachloroethene	ND	40	ug/kg	8.9
Toluene	ND	79	ug/kg	9.0
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.4
1,1,2-Trichloroethane	ND	40	ug/kg	9.8
Trichloroethene	ND	40	ug/kg	12
Trichlorofluoromethane	ND	79	ug/kg	8.2
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	9.9
Vinyl chloride	ND	79	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	74	(59 - 138)		
1,2-Dichloroethane-d4	75	(61 - 130)		
Toluene-d8	79	(60 - 143)		
4-Bromofluorobenzene	80	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-430

GC/MS Volatiles

Lot-Sample #....: A5G130319-022 Work Order #....: HFEKM1AC Matrix.....: SO
 Date Sampled....: 07/11/05 13:15 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200671
 Dilution Factor: 0.95
 % Moisture.....: 2.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	350 J,B	570	ug/kg	94
Benzene	ND	38	ug/kg	6.1
Bromodichloromethane	ND	76	ug/kg	11
Bromoform	ND	76	ug/kg	12
Bromomethane	ND	190	ug/kg	24
2-Butanone	ND	570	ug/kg	47
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	38	ug/kg	11
Chlorobenzene	ND	38	ug/kg	6.0
Chloroethane	ND	190	ug/kg	62
Chloroform	ND	38	ug/kg	11
Chloromethane	ND	190	ug/kg	4.9
Cyclohexane	ND	910	ug/kg	7.3
Dibromochloromethane	ND	38	ug/kg	6.6
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	57
1,2-Dibromoethane	ND	190	ug/kg	9.4
1,2-Dichlorobenzene	ND	76	ug/kg	16
1,3-Dichlorobenzene	ND	76	ug/kg	6.8
1,4-Dichlorobenzene	ND	76	ug/kg	7.5
Dichlorodifluoromethane	ND	76	ug/kg	5.1
1,1-Dichloroethane	ND	38	ug/kg	6.9
1,2-Dichloroethane	ND	38	ug/kg	8.8
1,1-Dichloroethene	ND	38	ug/kg	7.9
cis-1,2-Dichloroethene	ND	38	ug/kg	13
trans-1,2-Dichloroethene	ND	38	ug/kg	10
1,2-Dichloropropane	ND	38	ug/kg	7.0
cis-1,3-Dichloropropene	ND	38	ug/kg	5.2
trans-1,3-Dichloropropene	ND	38	ug/kg	5.1
Ethylbenzene	ND	38	ug/kg	6.5
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.8
Methyl acetate	ND	910	ug/kg	49
Methylene chloride	ND	190	ug/kg	94
Methylcyclohexane	ND	910	ug/kg	5.4
4-Methyl-2-pentanone	ND	1900	ug/kg	10
Methyl tert-butyl ether	ND	190	ug/kg	9.5
Styrene	ND	38	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-430

GC/MS Volatiles

Lot-Sample #....: A5G130319-022 Work Order #....: HFEKM1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	76	ug/kg	7.8
Tetrachloroethene	ND	38	ug/kg	8.6
Toluene	ND	76	ug/kg	8.6
1,2,4-Trichloro- benzene	ND	190	ug/kg	11
1,1,1-Trichloroethane	ND	38	ug/kg	9.0
1,1,2-Trichloroethane	ND	38	ug/kg	9.4
Trichloroethene	99	38	ug/kg	11
Trichlorofluoromethane	ND	76	ug/kg	7.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.5
Vinyl chloride	ND	76	ug/kg	15
Xylenes (total)	ND	110	ug/kg	14

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	78	(59 - 138)
1,2-Dichloroethane-d4	80	(61 - 130)
Toluene-d8	82	(60 - 143)
4-Bromofluorobenzene	82	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-431

GC/MS Volatiles

Lot-Sample #....: A5G130319-023 Work Order #....: HFEKQ1AC Matrix.....: SO
 Date Sampled....: 07/11/05 13:17 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200671
 Dilution Factor: 1
 % Moisture.....: 1.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	430 J,B	600	ug/kg	99
Benzene	ND	40	ug/kg	6.4
Bromodichloromethane	ND	80	ug/kg	12
Bromoform	ND	80	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	600	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.3
Chloroethane	ND	200	ug/kg	65
Chloroform	ND	40	ug/kg	12
Chloromethane	ND	200	ug/kg	5.2
Cyclohexane	ND	960	ug/kg	7.7
Dibromochloromethane	ND	40	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	60
1,2-Dibromoethane	ND	200	ug/kg	9.9
1,2-Dichlorobenzene	ND	80	ug/kg	17
1,3-Dichlorobenzene	ND	80	ug/kg	7.2
1,4-Dichlorobenzene	ND	80	ug/kg	7.9
Dichlorodifluoromethane	ND	80	ug/kg	5.4
1,1-Dichloroethane	ND	40	ug/kg	7.3
1,2-Dichloroethane	ND	40	ug/kg	9.3
1,1-Dichloroethene	ND	40	ug/kg	8.3
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.4
cis-1,3-Dichloropropene	ND	40	ug/kg	5.5
trans-1,3-Dichloropropene	ND	40	ug/kg	5.4
Ethylbenzene	ND	40	ug/kg	6.8
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.1
Methyl acetate	ND	960	ug/kg	52
Methylene chloride	ND	200	ug/kg	99
Methylcyclohexane	ND	960	ug/kg	5.7
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-431

GC/MS Volatiles

Lot-Sample #....: A5G130319-023 Work Order #....: HFEKQ1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	8.2
Tetrachloroethene	ND	40	ug/kg	9.0
Toluene	ND	80	ug/kg	9.1
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.5
1,1,2-Trichloroethane	ND	40	ug/kg	9.9
Trichloroethene	ND	40	ug/kg	12
Trichlorofluoromethane	ND	80	ug/kg	8.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	80	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	76	(59 - 138)		
1,2-Dichloroethane-d4	77	(61 - 130)		
Toluene-d8	81	(60 - 143)		
4-Bromofluorobenzene	79	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-432

GC/MS Volatiles

Lot-Sample #....: A5G130319-024 Work Order #....: HFEKR1AC Matrix.....: SO
 Date Sampled....: 07/11/05 13:20 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200671
 Dilution Factor: 1.04
 % Moisture.....: 1.1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	500 J,B	620	ug/kg	100
Benzene	ND	42	ug/kg	6.7
Bromodichloromethane	ND	83	ug/kg	12
Bromoform	ND	83	ug/kg	14
Bromomethane	ND	210	ug/kg	26
2-Butanone	ND	620	ug/kg	51
Carbon disulfide	ND	210	ug/kg	21
Carbon tetrachloride	ND	42	ug/kg	12
Chlorobenzene	ND	42	ug/kg	6.6
Chloroethane	ND	210	ug/kg	68
Chloroform	ND	42	ug/kg	12
Chloromethane	ND	210	ug/kg	5.4
Cyclohexane	ND	1000	ug/kg	8.0
Dibromochloromethane	ND	42	ug/kg	7.2
1,2-Dibromo-3-chloro- propane	ND	210	ug/kg	62
1,2-Dibromoethane	ND	210	ug/kg	10
1,2-Dichlorobenzene	ND	83	ug/kg	18
1,3-Dichlorobenzene	ND	83	ug/kg	7.5
1,4-Dichlorobenzene	ND	83	ug/kg	8.2
Dichlorodifluoromethane	ND	83	ug/kg	5.6
1,1-Dichloroethane	ND	42	ug/kg	7.6
1,2-Dichloroethane	ND	42	ug/kg	9.7
1,1-Dichloroethene	ND	42	ug/kg	8.6
cis-1,2-Dichloroethene	ND	42	ug/kg	15
trans-1,2-Dichloroethene	ND	42	ug/kg	11
1,2-Dichloropropane	ND	42	ug/kg	7.7
cis-1,3-Dichloropropene	ND	42	ug/kg	5.7
trans-1,3-Dichloropropene	ND	42	ug/kg	5.6
Ethylbenzene	ND	42	ug/kg	7.1
2-Hexanone	ND	2100	ug/kg	25
Isopropylbenzene	ND	210	ug/kg	5.3
Methyl acetate	ND	1000	ug/kg	54
Methylene chloride	ND	210	ug/kg	100
Methylcyclohexane	ND	1000	ug/kg	5.9
4-Methyl-2-pentanone	ND	2100	ug/kg	11
Methyl tert-butyl ether	ND	210	ug/kg	10
Styrene	ND	42	ug/kg	29

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-432

GC/MS Volatiles

Lot-Sample #....: A5G130319-024 Work Order #....: HFEKR1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	83	ug/kg	8.5
Tetrachloroethene	ND	42	ug/kg	9.4
Toluene	ND	83	ug/kg	9.5
1,2,4-Trichloro- benzene	ND	210	ug/kg	12
1,1,1-Trichloroethane	ND	42	ug/kg	9.9
1,1,2-Trichloroethane	ND	42	ug/kg	10
Trichloroethene	ND	42	ug/kg	12
Trichlorofluoromethane	ND	83	ug/kg	8.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	210	ug/kg	10
Vinyl chloride	ND	83	ug/kg	17
Xylenes (total)	ND	120	ug/kg	16
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	77	(59 - 138)		
1,2-Dichloroethane-d4	77	(61 - 130)		
Toluene-d8	80	(60 - 143)		
4-Bromofluorobenzene	82	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-433

GC/MS Volatiles

Lot-Sample #....: A5G130319-025 Work Order #....: HFEKV1AC Matrix.....: SO
 Date Sampled....: 07/11/05 13:22 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200671
 Dilution Factor: 0.98
 % Moisture.....: 1.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	420 J,B	590	ug/kg	97
Benzene	ND	39	ug/kg	6.3
Bromodichloromethane	ND	78	ug/kg	12
Bromoform	ND	78	ug/kg	13
Bromomethane	ND	200	ug/kg	24
2-Butanone	ND	590	ug/kg	48
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	39	ug/kg	12
Chlorobenzene	ND	39	ug/kg	6.2
Chloroethane	ND	200	ug/kg	64
Chloroform	ND	39	ug/kg	12
Chloromethane	ND	200	ug/kg	5.1
Cyclohexane	ND	940	ug/kg	7.5
Dibromochloromethane	ND	39	ug/kg	6.8
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	59
1,2-Dibromoethane	ND	200	ug/kg	9.7
1,2-Dichlorobenzene	ND	78	ug/kg	17
1,3-Dichlorobenzene	ND	78	ug/kg	7.1
1,4-Dichlorobenzene	ND	78	ug/kg	7.7
Dichlorodifluoromethane	ND	78	ug/kg	5.3
1,1-Dichloroethane	ND	39	ug/kg	7.2
1,2-Dichloroethane	ND	39	ug/kg	9.1
1,1-Dichloroethene	ND	39	ug/kg	8.1
cis-1,2-Dichloroethene	ND	39	ug/kg	14
trans-1,2-Dichloroethene	ND	39	ug/kg	11
1,2-Dichloropropane	ND	39	ug/kg	7.3
cis-1,3-Dichloropropene	ND	39	ug/kg	5.4
trans-1,3-Dichloropropene	ND	39	ug/kg	5.3
Ethylbenzene	ND	39	ug/kg	6.7
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.0
Methyl acetate	ND	940	ug/kg	51
Methylene chloride	ND	200	ug/kg	97
Methylcyclohexane	ND	940	ug/kg	5.6
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	9.8
Styrene	ND	39	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-433

GC/MS Volatiles

Lot-Sample #....: A5G130319-025 Work Order #....: HFEKV1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	78	ug/kg	8.0
Tetrachloroethene	ND	39	ug/kg	8.8
Toluene	ND	78	ug/kg	8.9
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	39	ug/kg	9.3
1,1,2-Trichloroethane	ND	39	ug/kg	9.7
Trichloroethene	ND	39	ug/kg	12
Trichlorofluoromethane	ND	78	ug/kg	8.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	9.8
Vinyl chloride	ND	78	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	79	(59 - 138)		
1,2-Dichloroethane-d4	78	(61 - 130)		
Toluene-d8	85	(60 - 143)		
4-Bromofluorobenzene	82	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-434

GC/MS Volatiles

Lot-Sample #....: A5G130319-026 Work Order #....: HFEKX1AC Matrix.....: SO
 Date Sampled....: 07/11/05 13:25 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200671
 Dilution Factor: 0.96
 % Moisture.....: 2.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	350 J,B	580	ug/kg	95
Benzene	ND	38	ug/kg	6.1
Bromodichloromethane	ND	77	ug/kg	12
Bromoform	ND	77	ug/kg	12
Bromomethane	ND	190	ug/kg	24
2-Butanone	ND	580	ug/kg	47
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	38	ug/kg	12
Chlorobenzene	ND	38	ug/kg	6.0
Chloroethane	ND	190	ug/kg	62
Chloroform	ND	38	ug/kg	12
Chloromethane	ND	190	ug/kg	5.0
Cyclohexane	ND	920	ug/kg	7.4
Dibromochloromethane	ND	38	ug/kg	6.6
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	58
1,2-Dibromoethane	ND	190	ug/kg	9.5
1,2-Dichlorobenzene	ND	77	ug/kg	16
1,3-Dichlorobenzene	ND	77	ug/kg	6.9
1,4-Dichlorobenzene	ND	77	ug/kg	7.6
Dichlorodifluoromethane	ND	77	ug/kg	5.2
1,1-Dichloroethane	ND	38	ug/kg	7.0
1,2-Dichloroethane	ND	38	ug/kg	8.9
1,1-Dichloroethene	ND	38	ug/kg	8.0
cis-1,2-Dichloroethene	ND	38	ug/kg	13
trans-1,2-Dichloroethene	ND	38	ug/kg	11
1,2-Dichloropropane	ND	38	ug/kg	7.1
cis-1,3-Dichloropropene	ND	38	ug/kg	5.3
trans-1,3-Dichloropropene	ND	38	ug/kg	5.2
Ethylbenzene	ND	38	ug/kg	6.5
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.9
Methyl acetate	ND	920	ug/kg	50
Methylene chloride	ND	190	ug/kg	95
Methylcyclohexane	ND	920	ug/kg	5.5
4-Methyl-2-pentanone	ND	1900	ug/kg	11
Methyl tert-butyl ether	ND	190	ug/kg	9.6
Styrene	ND	38	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-434

GC/MS Volatiles

Lot-Sample #...: A5G130319-026 Work Order #...: HFEKX1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	77	ug/kg	7.9
Tetrachloroethene	ND	38	ug/kg	8.6
Toluene	ND	77	ug/kg	8.7
1,2,4-Trichloro- benzene	ND	190	ug/kg	12
1,1,1-Trichloroethane	ND	38	ug/kg	9.1
1,1,2-Trichloroethane	ND	38	ug/kg	9.5
Trichloroethene	ND	38	ug/kg	12
Trichlorofluoromethane	ND	77	ug/kg	8.0
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.6
Vinyl chloride	ND	77	ug/kg	15
Xylenes (total)	ND	120	ug/kg	14
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	85	(59 - 138)		
1,2-Dichloroethane-d4	86	(61 - 130)		
Toluene-d8	92	(60 - 143)		
4-Bromofluorobenzene	89	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-435

GC/MS Volatiles

Lot-Sample #....: A5G130319-027 Work Order #....: HFEK11AC Matrix.....: SO
 Date Sampled....: 07/11/05 13:27 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200671
 Dilution Factor: 0.98
 % Moisture.....: 1.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	360 J,B	590	ug/kg	97
Benzene	ND	39	ug/kg	6.3
Bromodichloromethane	ND	78	ug/kg	12
Bromoform	ND	78	ug/kg	13
Bromomethane	ND	200	ug/kg	24
2-Butanone	ND	590	ug/kg	48
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	39	ug/kg	12
Chlorobenzene	ND	39	ug/kg	6.2
Chloroethane	ND	200	ug/kg	64
Chloroform	ND	39	ug/kg	12
Chloromethane	ND	200	ug/kg	5.1
Cyclohexane	ND	940	ug/kg	7.5
Dibromochloromethane	ND	39	ug/kg	6.8
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	59
1,2-Dibromoethane	ND	200	ug/kg	9.7
1,2-Dichlorobenzene	ND	78	ug/kg	17
1,3-Dichlorobenzene	ND	78	ug/kg	7.1
1,4-Dichlorobenzene	ND	78	ug/kg	7.7
Dichlorodifluoromethane	ND	78	ug/kg	5.3
1,1-Dichloroethane	ND	39	ug/kg	7.2
1,2-Dichloroethane	ND	39	ug/kg	9.1
1,1-Dichloroethene	ND	39	ug/kg	8.1
cis-1,2-Dichloroethene	ND	39	ug/kg	14
trans-1,2-Dichloroethene	ND	39	ug/kg	11
1,2-Dichloropropane	ND	39	ug/kg	7.3
cis-1,3-Dichloropropene	ND	39	ug/kg	5.4
trans-1,3-Dichloropropene	ND	39	ug/kg	5.3
Ethylbenzene	ND	39	ug/kg	6.7
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.0
Methyl acetate	ND	940	ug/kg	51
Methylene chloride	ND	200	ug/kg	97
Methylcyclohexane	ND	940	ug/kg	5.6
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	9.8
Styrene	ND	39	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-435

GC/MS Volatiles

Lot-Sample #....: A5G130319-027 Work Order #....: HFEK11AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	78	ug/kg	8.0
Tetrachloroethene	ND	39	ug/kg	8.8
Toluene	ND	78	ug/kg	8.9
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	39	ug/kg	9.3
1,1,2-Trichloroethane	ND	39	ug/kg	9.7
Trichloroethene	ND	39	ug/kg	12
Trichlorofluoromethane	ND	78	ug/kg	8.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	9.8
Vinyl chloride	ND	78	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	88	(59 - 138)		
1,2-Dichloroethane-d4	87	(61 - 130)		
Toluene-d8	92	(60 - 143)		
4-Bromofluorobenzene	95	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-436

GC/MS Volatiles

Lot-Sample #....: A5G130319-028 Work Order #....: HFEK21AC Matrix.....: SO
 Date Sampled....: 07/11/05 13:30 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200671
 Dilution Factor: 0.96
 % Moisture.....: 2.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	330 J,B	580	ug/kg	95
Benzene	ND	38	ug/kg	6.1
Bromodichloromethane	ND	77	ug/kg	12
Bromoform	ND	77	ug/kg	12
Bromomethane	ND	190	ug/kg	24
2-Butanone	ND	580	ug/kg	47
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	38	ug/kg	12
Chlorobenzene	ND	38	ug/kg	6.0
Chloroethane	ND	190	ug/kg	62
Chloroform	ND	38	ug/kg	12
Chloromethane	ND	190	ug/kg	5.0
Cyclohexane	ND	920	ug/kg	7.4
Dibromochloromethane	ND	38	ug/kg	6.6
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	58
1,2-Dibromoethane	ND	190	ug/kg	9.5
1,2-Dichlorobenzene	ND	77	ug/kg	16
1,3-Dichlorobenzene	ND	77	ug/kg	6.9
1,4-Dichlorobenzene	ND	77	ug/kg	7.6
Dichlorodifluoromethane	ND	77	ug/kg	5.2
1,1-Dichloroethane	ND	38	ug/kg	7.0
1,2-Dichloroethane	ND	38	ug/kg	8.9
1,1-Dichloroethene	ND	38	ug/kg	8.0
cis-1,2-Dichloroethene	ND	38	ug/kg	13
trans-1,2-Dichloroethene	ND	38	ug/kg	11
1,2-Dichloropropane	ND	38	ug/kg	7.1
cis-1,3-Dichloropropene	ND	38	ug/kg	5.3
trans-1,3-Dichloropropene	ND	38	ug/kg	5.2
Ethylbenzene	ND	38	ug/kg	6.5
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.9
Methyl acetate	ND	920	ug/kg	50
Methylene chloride	ND	190	ug/kg	95
Methylcyclohexane	ND	920	ug/kg	5.5
4-Methyl-2-pentanone	ND	1900	ug/kg	11
Methyl tert-butyl ether	ND	190	ug/kg	9.6
Styrene	ND	38	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-436

GC/MS Volatiles

Lot-Sample #....: A5G130319-028 Work Order #....: HFEK21AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	77	ug/kg	7.9
Tetrachloroethene	ND	38	ug/kg	8.6
Toluene	ND	77	ug/kg	8.7
1,2,4-Trichloro- benzene	ND	190	ug/kg	12
1,1,1-Trichloroethane	ND	38	ug/kg	9.1
1,1,2-Trichloroethane	ND	38	ug/kg	9.5
Trichloroethene	ND	38	ug/kg	12
Trichlorofluoromethane	ND	77	ug/kg	8.0
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.6
Vinyl chloride	ND	77	ug/kg	15
Xylenes (total)	ND	120	ug/kg	14
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	86	(59 - 138)		
1,2-Dichloroethane-d4	84	(61 - 130)		
Toluene-d8	90	(60 - 143)		
4-Bromofluorobenzene	91	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-437

GC/MS Volatiles

Lot-Sample #....: A5G130319-029 Work Order #....: HFEK51AC Matrix.....: SO
 Date Sampled....: 07/11/05 13:35 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5200671
 Dilution Factor: 0.92
 % Moisture.....: 5.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	340 J,B	550	ug/kg	91
Benzene	ND	37	ug/kg	5.9
Bromodichloromethane	ND	74	ug/kg	11
Bromoform	ND	74	ug/kg	12
Bromomethane	ND	180	ug/kg	23
2-Butanone	ND	550	ug/kg	45
Carbon disulfide	ND	180	ug/kg	18
Carbon tetrachloride	ND	37	ug/kg	11
Chlorobenzene	ND	37	ug/kg	5.8
Chloroethane	ND	180	ug/kg	60
Chloroform	ND	37	ug/kg	11
Chloromethane	ND	180	ug/kg	4.8
Cyclohexane	ND	880	ug/kg	7.1
Dibromochloromethane	ND	37	ug/kg	6.3
1,2-Dibromo-3-chloro- propane	ND	180	ug/kg	55
1,2-Dibromoethane	ND	180	ug/kg	9.1
1,2-Dichlorobenzene	ND	74	ug/kg	16
1,3-Dichlorobenzene	ND	74	ug/kg	6.6
1,4-Dichlorobenzene	ND	74	ug/kg	7.3
Dichlorodifluoromethane	ND	74	ug/kg	5.0
1,1-Dichloroethane	ND	37	ug/kg	6.7
1,2-Dichloroethane	ND	37	ug/kg	8.6
1,1-Dichloroethene	ND	37	ug/kg	7.6
cis-1,2-Dichloroethene	ND	37	ug/kg	13
trans-1,2-Dichloroethene	ND	37	ug/kg	10
1,2-Dichloropropane	ND	37	ug/kg	6.8
cis-1,3-Dichloropropene	ND	37	ug/kg	5.1
trans-1,3-Dichloropropene	ND	37	ug/kg	5.0
Ethylbenzene	ND	37	ug/kg	6.3
2-Hexanone	ND	1800	ug/kg	22
Isopropylbenzene	ND	180	ug/kg	4.7
Methyl acetate	ND	880	ug/kg	48
Methylene chloride	ND	180	ug/kg	91
Methylcyclohexane	ND	880	ug/kg	5.2
4-Methyl-2-pentanone	ND	1800	ug/kg	10
Methyl tert-butyl ether	ND	180	ug/kg	9.2
Styrene	ND	37	ug/kg	26

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-437

GC/MS Volatiles

Lot-Sample #....: A5G130319-029 Work Order #....: HFEK51AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	74	ug/kg	7.5
Tetrachloroethene	ND	37	ug/kg	8.3
Toluene	ND	74	ug/kg	8.4
1,2,4-Trichloro- benzene	ND	180	ug/kg	11
1,1,1-Trichloroethane	ND	37	ug/kg	8.7
1,1,2-Trichloroethane	ND	37	ug/kg	9.1
Trichloroethene	ND	37	ug/kg	11
Trichlorofluoromethane	ND	74	ug/kg	7.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	180	ug/kg	9.2
Vinyl chloride	ND	74	ug/kg	15
Xylenes (total)	ND	110	ug/kg	14

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	81	(59 - 138)
1,2-Dichloroethane-d4	84	(61 - 130)
Toluene-d8	87	(60 - 143)
4-Bromofluorobenzene	88	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-438

GC/MS Volatiles

Lot-Sample #....: A5G130319-030 Work Order #....: HFEK61AC Matrix.....: SO
 Date Sampled....: 07/11/05 13:37 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5200671
 Dilution Factor: 0.94
 % Moisture.....: 1.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	350 J,B	560	ug/kg	93
Benzene	ND	38	ug/kg	6.0
Bromodichloromethane	ND	75	ug/kg	11
Bromoform	ND	75	ug/kg	12
Bromomethane	ND	190	ug/kg	24
2-Butanone	ND	560	ug/kg	46
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	38	ug/kg	11
Chlorobenzene	ND	38	ug/kg	5.9
Chloroethane	ND	190	ug/kg	61
Chloroform	ND	38	ug/kg	11
Chloromethane	ND	190	ug/kg	4.9
Cyclohexane	ND	900	ug/kg	7.2
Dibromochloromethane	ND	38	ug/kg	6.5
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	56
1,2-Dibromoethane	ND	190	ug/kg	9.3
1,2-Dichlorobenzene	ND	75	ug/kg	16
1,3-Dichlorobenzene	ND	75	ug/kg	6.8
1,4-Dichlorobenzene	ND	75	ug/kg	7.4
Dichlorodifluoromethane	ND	75	ug/kg	5.1
1,1-Dichloroethane	ND	38	ug/kg	6.9
1,2-Dichloroethane	ND	38	ug/kg	8.7
1,1-Dichloroethene	ND	38	ug/kg	7.8
cis-1,2-Dichloroethene	ND	38	ug/kg	13
trans-1,2-Dichloroethene	ND	38	ug/kg	10
1,2-Dichloropropane	ND	38	ug/kg	7.0
cis-1,3-Dichloropropene	ND	38	ug/kg	5.2
trans-1,3-Dichloropropene	ND	38	ug/kg	5.1
Ethylbenzene	ND	38	ug/kg	6.4
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.8
Methyl acetate	100 J	900	ug/kg	49
Methylene chloride	ND	190	ug/kg	93
Methylcyclohexane	ND	900	ug/kg	5.4
4-Methyl-2-pentanone	ND	1900	ug/kg	10
Methyl tert-butyl ether	ND	190	ug/kg	9.4
Styrene	ND	38	ug/kg	26

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-438

GC/MS Volatiles

Lot-Sample #....: A5G130319-030 Work Order #....: HFEK61AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	75	ug/kg	7.7
Tetrachloroethene	ND	38	ug/kg	8.5
Toluene	ND	75	ug/kg	8.6
1,2,4-Trichloro- benzene	ND	190	ug/kg	11
1,1,1-Trichloroethane	ND	38	ug/kg	8.9
1,1,2-Trichloroethane	ND	38	ug/kg	9.3
Trichloroethene	ND	38	ug/kg	11
Trichlorofluoromethane	ND	75	ug/kg	7.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.4
Vinyl chloride	ND	75	ug/kg	15
Xylenes (total)	ND	110	ug/kg	14
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	79	(59 - 138)		
1,2-Dichloroethane-d4	78	(61 - 130)		
Toluene-d8	85	(60 - 143)		
4-Bromofluorobenzene	83	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-439

GC/MS Volatiles

Lot-Sample #....: A5G130319-031 Work Order #....: HFEK81AC Matrix.....: SO
 Date Sampled....: 07/11/05 13:40 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5200671
 Dilution Factor: 0.95
 % Moisture.....: 2.3 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	370 J,B	570	ug/kg	94
Benzene	ND	38	ug/kg	6.1
Bromodichloromethane	ND	76	ug/kg	11
Bromoform	ND	76	ug/kg	12
Bromomethane	ND	190	ug/kg	24
2-Butanone	ND	570	ug/kg	47
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	38	ug/kg	11
Chlorobenzene	ND	38	ug/kg	6.0
Chloroethane	ND	190	ug/kg	62
Chloroform	ND	38	ug/kg	11
Chloromethane	ND	190	ug/kg	4.9
Cyclohexane	ND	910	ug/kg	7.3
Dibromochloromethane	ND	38	ug/kg	6.6
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	57
1,2-Dibromoethane	ND	190	ug/kg	9.4
1,2-Dichlorobenzene	ND	76	ug/kg	16
1,3-Dichlorobenzene	ND	76	ug/kg	6.8
1,4-Dichlorobenzene	ND	76	ug/kg	7.5
Dichlorodifluoromethane	ND	76	ug/kg	5.1
1,1-Dichloroethane	ND	38	ug/kg	6.9
1,2-Dichloroethane	ND	38	ug/kg	8.8
1,1-Dichloroethene	ND	38	ug/kg	7.9
cis-1,2-Dichloroethene	ND	38	ug/kg	13
trans-1,2-Dichloroethene	ND	38	ug/kg	10
1,2-Dichloropropane	ND	38	ug/kg	7.0
cis-1,3-Dichloropropene	ND	38	ug/kg	5.2
trans-1,3-Dichloropropene	ND	38	ug/kg	5.1
Ethylbenzene	ND	38	ug/kg	6.5
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.8
Methyl acetate	ND	910	ug/kg	49
Methylene chloride	ND	190	ug/kg	94
Methylcyclohexane	ND	910	ug/kg	5.4
4-Methyl-2-pentanone	ND	1900	ug/kg	10
Methyl tert-butyl ether	ND	190	ug/kg	9.5
Styrene	ND	38	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-439

GC/MS Volatiles

Lot-Sample #....: A5G130319-031 Work Order #....: HFEK81AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	76	ug/kg	7.8
Tetrachloroethene	ND	38	ug/kg	8.6
Toluene	ND	76	ug/kg	8.6
1,2,4-Trichloro- benzene	ND	190	ug/kg	11
1,1,1-Trichloroethane	ND	38	ug/kg	9.0
1,1,2-Trichloroethane	ND	38	ug/kg	9.4
Trichloroethene	ND	38	ug/kg	11
Trichlorofluoromethane	ND	76	ug/kg	7.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.5
Vinyl chloride	ND	76	ug/kg	15
Xylenes (total)	ND	110	ug/kg	14

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	79	(59 - 138)
1,2-Dichloroethane-d4	80	(61 - 130)
Toluene-d8	83	(60 - 143)
4-Bromofluorobenzene	82	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-440

GC/MS Volatiles

Lot-Sample #....: A5G130319-032 Work Order #....: HFEK91AC Matrix.....: SO
 Date Sampled....: 07/11/05 14:15 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5200671
 Dilution Factor: 1.03
 % Moisture.....: 1.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	370 J,B	620	ug/kg	100
Benzene	8.7 J	41	ug/kg	6.6
Bromodichloromethane	ND	82	ug/kg	12
Bromoform	ND	82	ug/kg	13
Bromomethane	ND	210	ug/kg	26
2-Butanone	ND	620	ug/kg	50
Carbon disulfide	ND	210	ug/kg	21
Carbon tetrachloride	ND	41	ug/kg	12
Chlorobenzene	ND	41	ug/kg	6.5
Chloroethane	ND	210	ug/kg	67
Chloroform	ND	41	ug/kg	12
Chloromethane	ND	210	ug/kg	5.4
Cyclohexane	61 J	990	ug/kg	7.9
Dibromochloromethane	ND	41	ug/kg	7.1
1,2-Dibromo-3-chloro- propane	ND	210	ug/kg	62
1,2-Dibromoethane	ND	210	ug/kg	10
1,2-Dichlorobenzene	ND	82	ug/kg	18
1,3-Dichlorobenzene	ND	82	ug/kg	7.4
1,4-Dichlorobenzene	ND	82	ug/kg	8.1
Dichlorodifluoromethane	ND	82	ug/kg	5.6
1,1-Dichloroethane	ND	41	ug/kg	7.5
1,2-Dichloroethane	ND	41	ug/kg	9.6
1,1-Dichloroethene	ND	41	ug/kg	8.5
cis-1,2-Dichloroethene	ND	41	ug/kg	14
trans-1,2-Dichloroethene	ND	41	ug/kg	11
1,2-Dichloropropane	ND	41	ug/kg	7.6
cis-1,3-Dichloropropene	ND	41	ug/kg	5.7
trans-1,3-Dichloropropene	ND	41	ug/kg	5.6
Ethylbenzene	22 J	41	ug/kg	7.0
2-Hexanone	ND	2100	ug/kg	25
Isopropylbenzene	25 J	210	ug/kg	5.3
Methyl acetate	ND	990	ug/kg	54
Methylene chloride	ND	210	ug/kg	100
Methylcyclohexane	220 J	990	ug/kg	5.9
4-Methyl-2-pentanone	ND	2100	ug/kg	11
Methyl tert-butyl ether	ND	210	ug/kg	10
Styrene	ND	41	ug/kg	29

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-440

GC/MS Volatiles

Lot-Sample #....: A5G130319-032 Work Order #....: HFEK91AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	82	ug/kg	8.4
Tetrachloroethene	ND	41	ug/kg	9.3
Toluene	76 J	82	ug/kg	9.4
1,2,4-Trichloro- benzene	ND	210	ug/kg	12
1,1,1-Trichloroethane	ND	41	ug/kg	9.8
1,1,2-Trichloroethane	ND	41	ug/kg	10
Trichloroethene	2200	41	ug/kg	12
Trichlorofluoromethane	ND	82	ug/kg	8.5
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	210	ug/kg	10
Vinyl chloride	ND	82	ug/kg	16
Xylenes (total)	190	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	93	(59 - 138)		
1,2-Dichloroethane-d4	92	(61 - 130)		
Toluene-d8	94	(60 - 143)		
4-Bromofluorobenzene	96	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-441

GC/MS Volatiles

Lot-Sample #....: A5G130319-033 Work Order #....: HFELC1AC Matrix.....: SO
 Date Sampled....: 07/11/05 14:20 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5201491
 Dilution Factor: 4
 % Moisture.....: 5.6 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2400	ug/kg	400
Benzene	73 J	160	ug/kg	26
Bromodichloromethane	ND	320	ug/kg	48
Bromoform	ND	320	ug/kg	52
Bromomethane	ND	800	ug/kg	100
2-Butanone	ND	2400	ug/kg	200
Carbon disulfide	ND	800	ug/kg	80
Carbon tetrachloride	ND	160	ug/kg	48
Chlorobenzene	ND	160	ug/kg	25
Chloroethane	ND	800	ug/kg	260
Chloroform	ND	160	ug/kg	48
Chloromethane	24 J,B	800	ug/kg	21
Cyclohexane	300 J	3800	ug/kg	31
Dibromochloromethane	ND	160	ug/kg	28
1,2-Dibromo-3-chloro- propane	ND	800	ug/kg	240
1,2-Dibromoethane	ND	800	ug/kg	40
1,2-Dichlorobenzene	ND	320	ug/kg	68
1,3-Dichlorobenzene	ND	320	ug/kg	29
1,4-Dichlorobenzene	ND	320	ug/kg	32
Dichlorodifluoromethane	ND	320	ug/kg	22
1,1-Dichloroethane	ND	160	ug/kg	29
1,2-Dichloroethane	ND	160	ug/kg	37
1,1-Dichloroethene	ND	160	ug/kg	33
cis-1,2-Dichloroethene	ND	160	ug/kg	56
trans-1,2-Dichloroethene	ND	160	ug/kg	44
1,2-Dichloropropane	ND	160	ug/kg	30
cis-1,3-Dichloropropene	ND	160	ug/kg	22
trans-1,3-Dichloropropene	ND	160	ug/kg	22
Ethylbenzene	130 J	160	ug/kg	27
2-Hexanone	ND	8000	ug/kg	96
Isopropylbenzene	120 J	800	ug/kg	20
Methyl acetate	ND	3800	ug/kg	210
Methylene chloride	ND	800	ug/kg	400
Methylcyclohexane	880 J	3800	ug/kg	23
4-Methyl-2-pentanone	ND	8000	ug/kg	44
Methyl tert-butyl ether	ND	800	ug/kg	40
Styrene	ND	160	ug/kg	110

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-441

GC/MS Volatiles

Lot-Sample #....: A5G130319-033 Work Order #....: HFELC1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	320	ug/kg	33
Tetrachloroethene	ND	160	ug/kg	36
Toluene	490	320	ug/kg	36
1,2,4-Trichloro- benzene	ND	800	ug/kg	48
1,1,1-Trichloroethane	ND	160	ug/kg	38
1,1,2-Trichloroethane	ND	160	ug/kg	40
Trichloroethene	5500	160	ug/kg	48
Trichlorofluoromethane	ND	320	ug/kg	33
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	800	ug/kg	40
Vinyl chloride	ND	320	ug/kg	64
Xylenes (total)	910	480	ug/kg	60

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91 DIL	(59 - 138)
1,2-Dichloroethane-d4	115 DIL	(61 - 130)
Toluene-d8	110 DIL	(60 - 143)
4-Bromofluorobenzene	111 DIL	(47 - 158)

NOTE (S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-442

GC/MS Volatiles

Lot-Sample #....: A5G130319-034 Work Order #....: HFELG1AC Matrix.....: SO
 Date Sampled....: 07/11/05 14:25 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5200671
 Dilution Factor: 0.93
 % Moisture.....: 3.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	360 J,B	560	ug/kg	92
Benzene	6.0 J	37	ug/kg	6.0
Bromodichloromethane	ND	74	ug/kg	11
Bromoform	ND	74	ug/kg	12
Bromomethane	ND	190	ug/kg	23
2-Butanone	ND	560	ug/kg	46
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	37	ug/kg	11
Chlorobenzene	ND	37	ug/kg	5.9
Chloroethane	ND	190	ug/kg	60
Chloroform	ND	37	ug/kg	11
Chloromethane	ND	190	ug/kg	4.8
Cyclohexane	24 J	890	ug/kg	7.2
Dibromochloromethane	ND	37	ug/kg	6.4
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	56
1,2-Dibromoethane	ND	190	ug/kg	9.2
1,2-Dichlorobenzene	ND	74	ug/kg	16
1,3-Dichlorobenzene	ND	74	ug/kg	6.7
1,4-Dichlorobenzene	ND	74	ug/kg	7.3
Dichlorodifluoromethane	ND	74	ug/kg	5.0
1,1-Dichloroethane	ND	37	ug/kg	6.8
1,2-Dichloroethane	ND	37	ug/kg	8.6
1,1-Dichloroethene	ND	37	ug/kg	7.7
cis-1,2-Dichloroethene	ND	37	ug/kg	13
trans-1,2-Dichloroethene	ND	37	ug/kg	10
1,2-Dichloropropane	ND	37	ug/kg	6.9
cis-1,3-Dichloropropene	ND	37	ug/kg	5.1
trans-1,3-Dichloropropene	ND	37	ug/kg	5.0
Ethylbenzene	10 J	37	ug/kg	6.3
2-Hexanone	ND	1900	ug/kg	22
Isopropylbenzene	9.4 J	190	ug/kg	4.7
Methyl acetate	ND	890	ug/kg	48
Methylene chloride	ND	190	ug/kg	92
Methylcyclohexane	67 J	890	ug/kg	5.3
4-Methyl-2-pentanone	ND	1900	ug/kg	10
Methyl tert-butyl ether	ND	190	ug/kg	9.3
Styrene	ND	37	ug/kg	26

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-442

GC/MS Volatiles

Lot-Sample #...: A5G130319-034 Work Order #...: HFELG1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	74	ug/kg	7.6
Tetrachloroethene	ND	37	ug/kg	8.4
Toluene	41 J	74	ug/kg	8.5
1,2,4-Trichloro- benzene	ND	190	ug/kg	11
1,1,1-Trichloroethane	ND	37	ug/kg	8.8
1,1,2-Trichloroethane	ND	37	ug/kg	9.2
Trichloroethene	530	37	ug/kg	11
Trichlorofluoromethane	ND	74	ug/kg	7.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.3
Vinyl chloride	ND	74	ug/kg	15
Xylenes (total)	68 J	110	ug/kg	14
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	79	(59 - 138)		
1,2-Dichloroethane-d4	78	(61 - 130)		
Toluene-d8	83	(60 - 143)		
4-Bromofluorobenzene	82	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-443

GC/MS Volatiles

Lot-Sample #....: A5G130319-035 Work Order #....: HFELH1AC Matrix.....: SO
 Date Sampled....: 07/11/05 14:27 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5200671
 Dilution Factor: 0.98
 % Moisture.....: 1.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	370 J,B	590	ug/kg	97
Benzene	ND	39	ug/kg	6.3
Bromodichloromethane	ND	78	ug/kg	12
Bromoform	ND	78	ug/kg	13
Bromomethane	ND	200	ug/kg	24
2-Butanone	ND	590	ug/kg	48
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	39	ug/kg	12
Chlorobenzene	ND	39	ug/kg	6.2
Chloroethane	ND	200	ug/kg	64
Chloroform	ND	39	ug/kg	12
Chloromethane	ND	200	ug/kg	5.1
Cyclohexane	ND	940	ug/kg	7.5
Dibromochloromethane	ND	39	ug/kg	6.8
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	59
1,2-Dibromoethane	ND	200	ug/kg	9.7
1,2-Dichlorobenzene	ND	78	ug/kg	17
1,3-Dichlorobenzene	ND	78	ug/kg	7.1
1,4-Dichlorobenzene	ND	78	ug/kg	7.7
Dichlorodifluoromethane	ND	78	ug/kg	5.3
1,1-Dichloroethane	ND	39	ug/kg	7.2
1,2-Dichloroethane	ND	39	ug/kg	9.1
1,1-Dichloroethene	ND	39	ug/kg	8.1
cis-1,2-Dichloroethene	ND	39	ug/kg	14
trans-1,2-Dichloroethene	ND	39	ug/kg	11
1,2-Dichloropropane	ND	39	ug/kg	7.3
cis-1,3-Dichloropropene	ND	39	ug/kg	5.4
trans-1,3-Dichloropropene	ND	39	ug/kg	5.3
Ethylbenzene	ND	39	ug/kg	6.7
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.0
Methyl acetate	ND	940	ug/kg	51
Methylene chloride	ND	200	ug/kg	97
Methylcyclohexane	ND	940	ug/kg	5.6
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	9.8
Styrene	ND	39	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-443

GC/MS Volatiles

Lot-Sample #....: A5G130319-035 Work Order #....: HFELH1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	78	ug/kg	8.0
Tetrachloroethene	ND	39	ug/kg	8.8
Toluene	ND	78	ug/kg	8.9
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	39	ug/kg	9.3
1,1,2-Trichloroethane	ND	39	ug/kg	9.7
Trichloroethene	ND	39	ug/kg	12
Trichlorofluoromethane	ND	78	ug/kg	8.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	9.8
Vinyl chloride	ND	78	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	75	(59 - 138)		
1,2-Dichloroethane-d4	75	(61 - 130)		
Toluene-d8	77	(60 - 143)		
4-Bromofluorobenzene	75	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-444

GC/MS Volatiles

Lot-Sample #....: A5G130319-036 Work Order #....: HFELJ1AC Matrix.....: SO
 Date Sampled....: 07/11/05 14:30 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5200671
 Dilution Factor: 1
 % Moisture.....: 1.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	350 J,B	600	ug/kg	99
Benzene	ND	40	ug/kg	6.4
Bromodichloromethane	ND	80	ug/kg	12
Bromoform	ND	80	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	600	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.3
Chloroethane	ND	200	ug/kg	65
Chloroform	ND	40	ug/kg	12
Chloromethane	ND	200	ug/kg	5.2
Cyclohexane	ND	960	ug/kg	7.7
Dibromochloromethane	ND	40	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	60
1,2-Dibromoethane	ND	200	ug/kg	9.9
1,2-Dichlorobenzene	ND	80	ug/kg	17
1,3-Dichlorobenzene	ND	80	ug/kg	7.2
1,4-Dichlorobenzene	ND	80	ug/kg	7.9
Dichlorodifluoromethane	ND	80	ug/kg	5.4
1,1-Dichloroethane	ND	40	ug/kg	7.3
1,2-Dichloroethane	ND	40	ug/kg	9.3
1,1-Dichloroethene	ND	40	ug/kg	8.3
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.4
cis-1,3-Dichloropropene	ND	40	ug/kg	5.5
trans-1,3-Dichloropropene	ND	40	ug/kg	5.4
Ethylbenzene	ND	40	ug/kg	6.8
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.1
Methyl acetate	ND	960	ug/kg	52
Methylene chloride	ND	200	ug/kg	99
Methylcyclohexane	ND	960	ug/kg	5.7
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-444

GC/MS Volatiles

Lot-Sample #....: A5G130319-036 Work Order #....: HFELJ1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	8.2
Tetrachloroethene	ND	40	ug/kg	9.0
Toluene	ND	80	ug/kg	9.1
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.5
1,1,2-Trichloroethane	ND	40	ug/kg	9.9
Trichloroethene	ND	40	ug/kg	12
Trichlorofluoromethane	ND	80	ug/kg	8.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	80	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	85	(59 - 138)		
1,2-Dichloroethane-d4	87	(61 - 130)		
Toluene-d8	93	(60 - 143)		
4-Bromofluorobenzene	90	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-445

GC/MS Volatiles

Lot-Sample #....: A5G130319-037 Work Order #....: HFELK1AC Matrix.....: SO
 Date Sampled....: 07/11/05 14:32 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5200671
 Dilution Factor: 0.98
 % Moisture.....: 2.7 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	390 J,B	590	ug/kg	97
Benzene	ND	39	ug/kg	6.3
Bromodichloromethane	ND	78	ug/kg	12
Bromoform	ND	78	ug/kg	13
Bromomethane	ND	200	ug/kg	24
2-Butanone	ND	590	ug/kg	48
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	39	ug/kg	12
Chlorobenzene	ND	39	ug/kg	6.2
Chloroethane	ND	200	ug/kg	64
Chloroform	ND	39	ug/kg	12
Chloromethane	ND	200	ug/kg	5.1
Cyclohexane	ND	940	ug/kg	7.5
Dibromochloromethane	ND	39	ug/kg	6.8
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	59
1,2-Dibromoethane	ND	200	ug/kg	9.7
1,2-Dichlorobenzene	ND	78	ug/kg	17
1,3-Dichlorobenzene	ND	78	ug/kg	7.1
1,4-Dichlorobenzene	ND	78	ug/kg	7.7
Dichlorodifluoromethane	ND	78	ug/kg	5.3
1,1-Dichloroethane	ND	39	ug/kg	7.2
1,2-Dichloroethane	ND	39	ug/kg	9.1
1,1-Dichloroethene	ND	39	ug/kg	8.1
cis-1,2-Dichloroethene	ND	39	ug/kg	14
trans-1,2-Dichloroethene	ND	39	ug/kg	11
1,2-Dichloropropane	ND	39	ug/kg	7.3
cis-1,3-Dichloropropene	ND	39	ug/kg	5.4
trans-1,3-Dichloropropene	ND	39	ug/kg	5.3
Ethylbenzene	ND	39	ug/kg	6.7
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.0
Methyl acetate	ND	940	ug/kg	51
Methylene chloride	ND	200	ug/kg	97
Methylcyclohexane	ND	940	ug/kg	5.6
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	9.8
Styrene	ND	39	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-445

GC/MS Volatiles

Lot-Sample #....: A5G130319-037 Work Order #....: HFELK1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	78	ug/kg	8.0
Tetrachloroethene	ND	39	ug/kg	8.8
Toluene	ND	78	ug/kg	8.9
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	39	ug/kg	9.3
1,1,2-Trichloroethane	ND	39	ug/kg	9.7
Trichloroethene	ND	39	ug/kg	12
Trichlorofluoromethane	ND	78	ug/kg	8.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	9.8
Vinyl chloride	ND	78	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	79	(59 - 138)		
1,2-Dichloroethane-d4	82	(61 - 130)		
Toluene-d8	89	(60 - 143)		
4-Bromofluorobenzene	92	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-446

GC/MS Volatiles

Lot-Sample #....: A5G130319-038 Work Order #....: HFELL1AC Matrix.....: SO
 Date Sampled....: 07/11/05 14:35 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5200671
 Dilution Factor: 0.95
 % Moisture.....: 3.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	370 J,B	570	ug/kg	94
Benzene	ND	38	ug/kg	6.1
Bromodichloromethane	ND	76	ug/kg	11
Bromoform	ND	76	ug/kg	12
Bromomethane	ND	190	ug/kg	24
2-Butanone	ND	570	ug/kg	47
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	38	ug/kg	11
Chlorobenzene	ND	38	ug/kg	6.0
Chloroethane	ND	190	ug/kg	62
Chloroform	ND	38	ug/kg	11
Chloromethane	ND	190	ug/kg	4.9
Cyclohexane	ND	910	ug/kg	7.3
Dibromochloromethane	ND	38	ug/kg	6.6
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	57
1,2-Dibromoethane	ND	190	ug/kg	9.4
1,2-Dichlorobenzene	ND	76	ug/kg	16
1,3-Dichlorobenzene	ND	76	ug/kg	6.8
1,4-Dichlorobenzene	ND	76	ug/kg	7.5
Dichlorodifluoromethane	ND	76	ug/kg	5.1
1,1-Dichloroethane	ND	38	ug/kg	6.9
1,2-Dichloroethane	ND	38	ug/kg	8.8
1,1-Dichloroethene	ND	38	ug/kg	7.9
cis-1,2-Dichloroethene	ND	38	ug/kg	13
trans-1,2-Dichloroethene	ND	38	ug/kg	10
1,2-Dichloropropane	ND	38	ug/kg	7.0
cis-1,3-Dichloropropene	ND	38	ug/kg	5.2
trans-1,3-Dichloropropene	ND	38	ug/kg	5.1
Ethylbenzene	ND	38	ug/kg	6.5
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.8
Methyl acetate	ND	910	ug/kg	49
Methylene chloride	ND	190	ug/kg	94
Methylcyclohexane	ND	910	ug/kg	5.4
4-Methyl-2-pentanone	ND	1900	ug/kg	10
Methyl tert-butyl ether	ND	190	ug/kg	9.5
Styrene	ND	38	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-446

GC/MS Volatiles

Lot-Sample #...: A5G130319-038 Work Order #...: HFELL1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	76	ug/kg	7.8
Tetrachloroethene	ND	38	ug/kg	8.6
Toluene	ND	76	ug/kg	8.6
1,2,4-Trichloro- benzene	ND	190	ug/kg	11
1,1,1-Trichloroethane	ND	38	ug/kg	9.0
1,1,2-Trichloroethane	ND	38	ug/kg	9.4
Trichloroethene	13 J	38	ug/kg	11
Trichlorofluoromethane	ND	76	ug/kg	7.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.5
Vinyl chloride	ND	76	ug/kg	15
Xylenes (total)	ND	110	ug/kg	14

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	80	(59 - 138)
1,2-Dichloroethane-d4	82	(61 - 130)
Toluene-d8	84	(60 - 143)
4-Bromofluorobenzene	89	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-447

GC/MS Volatiles

Lot-Sample #....: A5G130319-039 Work Order #....: HFELN1AC Matrix.....: SO
 Date Sampled....: 07/11/05 14:40 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5200671
 Dilution Factor: 0.99
 % Moisture.....: 2.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	390 J,B	590	ug/kg	98
Benzene	ND	40	ug/kg	6.3
Bromodichloromethane	ND	79	ug/kg	12
Bromoform	ND	79	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	590	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.2
Chloroethane	ND	200	ug/kg	64
Chloroform	ND	40	ug/kg	12
Chloromethane	ND	200	ug/kg	5.1
Cyclohexane	ND	950	ug/kg	7.6
Dibromochloromethane	ND	40	ug/kg	6.8
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	59
1,2-Dibromoethane	ND	200	ug/kg	9.8
1,2-Dichlorobenzene	ND	79	ug/kg	17
1,3-Dichlorobenzene	ND	79	ug/kg	7.1
1,4-Dichlorobenzene	ND	79	ug/kg	7.8
Dichlorodifluoromethane	ND	79	ug/kg	5.3
1,1-Dichloroethane	ND	40	ug/kg	7.2
1,2-Dichloroethane	ND	40	ug/kg	9.2
1,1-Dichloroethene	ND	40	ug/kg	8.2
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.3
cis-1,3-Dichloropropene	ND	40	ug/kg	5.4
trans-1,3-Dichloropropene	ND	40	ug/kg	5.3
Ethylbenzene	ND	40	ug/kg	6.7
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.0
Methyl acetate	360 J	950	ug/kg	51
Methylene chloride	ND	200	ug/kg	98
Methylcyclohexane	15 J	950	ug/kg	5.6
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	9.9
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-447

GC/MS Volatiles

Lot-Sample #....: A5G130319-039 Work Order #....: HFELN1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	79	ug/kg	8.1
Tetrachloroethene	ND	40	ug/kg	8.9
Toluene	9.8 J	79	ug/kg	9.0
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.4
1,1,2-Trichloroethane	ND	40	ug/kg	9.8
Trichloroethene	140	40	ug/kg	12
Trichlorofluoromethane	ND	79	ug/kg	8.2
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	9.9
Vinyl chloride	ND	79	ug/kg	16
Xylenes (total)	16 J	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	72	(59 - 138)		
1,2-Dichloroethane-d4	79	(61 - 130)		
Toluene-d8	85	(60 - 143)		
4-Bromofluorobenzene	78	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-448

GC/MS Volatiles

Lot-Sample #....: A5G130319-040 Work Order #....: HFELQ1AC Matrix.....: SO
 Date Sampled....: 07/11/05 14:42 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5201491
 Dilution Factor: 0.92
 % Moisture.....: 2.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	280 J,B	550	ug/kg	91
Benzene	ND	37	ug/kg	5.9
Bromodichloromethane	ND	74	ug/kg	11
Bromoform	ND	74	ug/kg	12
Bromomethane	ND	180	ug/kg	23
2-Butanone	ND	550	ug/kg	45
Carbon disulfide	ND	180	ug/kg	18
Carbon tetrachloride	ND	37	ug/kg	11
Chlorobenzene	ND	37	ug/kg	5.8
Chloroethane	ND	180	ug/kg	60
Chloroform	ND	37	ug/kg	11
Chloromethane	7.4 J,B	180	ug/kg	4.8
Cyclohexane	ND	880	ug/kg	7.1
Dibromochloromethane	ND	37	ug/kg	6.3
1,2-Dibromo-3-chloro- propane	ND	180	ug/kg	55
1,2-Dibromoethane	ND	180	ug/kg	9.1
1,2-Dichlorobenzene	ND	74	ug/kg	16
1,3-Dichlorobenzene	ND	74	ug/kg	6.6
1,4-Dichlorobenzene	ND	74	ug/kg	7.3
Dichlorodifluoromethane	ND	74	ug/kg	5.0
1,1-Dichloroethane	ND	37	ug/kg	6.7
1,2-Dichloroethane	ND	37	ug/kg	8.6
1,1-Dichloroethene	ND	37	ug/kg	7.6
cis-1,2-Dichloroethene	ND	37	ug/kg	13
trans-1,2-Dichloroethene	ND	37	ug/kg	10
1,2-Dichloropropane	ND	37	ug/kg	6.8
cis-1,3-Dichloropropene	ND	37	ug/kg	5.1
trans-1,3-Dichloropropene	ND	37	ug/kg	5.0
Ethylbenzene	ND	37	ug/kg	6.3
2-Hexanone	ND	1800	ug/kg	22
Isopropylbenzene	ND	180	ug/kg	4.7
Methyl acetate	ND	880	ug/kg	48
Methylene chloride	ND	180	ug/kg	91
Methylcyclohexane	ND	880	ug/kg	5.2
4-Methyl-2-pentanone	ND	1800	ug/kg	10
Methyl tert-butyl ether	ND	180	ug/kg	9.2
Styrene	ND	37	ug/kg	26

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-448

GC/MS Volatiles

Lot-Sample #....: A5G130319-040 Work Order #....: HFELQ1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	74	ug/kg	7.5
Tetrachloroethene	ND	37	ug/kg	8.3
Toluene	ND	74	ug/kg	8.4
1,2,4-Trichloro- benzene	ND	180	ug/kg	11
1,1,1-Trichloroethane	ND	37	ug/kg	8.7
1,1,2-Trichloroethane	ND	37	ug/kg	9.1
Trichloroethene	12 J	37	ug/kg	11
Trichlorofluoromethane	ND	74	ug/kg	7.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	180	ug/kg	9.2
Vinyl chloride	ND	74	ug/kg	15
Xylenes (total)	ND	110	ug/kg	14

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	82	(59 - 138)
1,2-Dichloroethane-d4	94	(61 - 130)
Toluene-d8	92	(60 - 143)
4-Bromofluorobenzene	87	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-449

GC/MS Volatiles

Lot-Sample #....: A5G130319-041 Work Order #....: HFELR1AC Matrix.....: SO
 Date Sampled....: 07/11/05 14:45 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5201491
 Dilution Factor: 0.95
 % Moisture.....: 2.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	340 J,B	570	ug/kg	94
Benzene	ND	38	ug/kg	6.1
Bromodichloromethane	ND	76	ug/kg	11
Bromoform	ND	76	ug/kg	12
Bromomethane	ND	190	ug/kg	24
2-Butanone	ND	570	ug/kg	47
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	38	ug/kg	11
Chlorobenzene	ND	38	ug/kg	6.0
Chloroethane	ND	190	ug/kg	62
Chloroform	ND	38	ug/kg	11
Chloromethane	7.3 J,B	190	ug/kg	4.9
Cyclohexane	ND	910	ug/kg	7.3
Dibromochloromethane	ND	38	ug/kg	6.6
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	57
1,2-Dibromoethane	ND	190	ug/kg	9.4
1,2-Dichlorobenzene	ND	76	ug/kg	16
1,3-Dichlorobenzene	ND	76	ug/kg	6.8
1,4-Dichlorobenzene	ND	76	ug/kg	7.5
Dichlorodifluoromethane	ND	76	ug/kg	5.1
1,1-Dichloroethane	ND	38	ug/kg	6.9
1,2-Dichloroethane	ND	38	ug/kg	8.8
1,1-Dichloroethene	ND	38	ug/kg	7.9
cis-1,2-Dichloroethene	ND	38	ug/kg	13
trans-1,2-Dichloroethene	ND	38	ug/kg	10
1,2-Dichloropropane	ND	38	ug/kg	7.0
cis-1,3-Dichloropropene	ND	38	ug/kg	5.2
trans-1,3-Dichloropropene	ND	38	ug/kg	5.1
Ethylbenzene	ND	38	ug/kg	6.5
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.8
Methyl acetate	ND	910	ug/kg	49
Methylene chloride	ND	190	ug/kg	94
Methylcyclohexane	ND	910	ug/kg	5.4
4-Methyl-2-pentanone	ND	1900	ug/kg	10
Methyl tert-butyl ether	ND	190	ug/kg	9.5
Styrene	ND	38	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-449

GC/MS Volatiles

Lot-Sample #....: A5G130319-041 Work Order #....: HFELR1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	76	ug/kg	7.8
Tetrachloroethene	ND	38	ug/kg	8.6
Toluene	ND	76	ug/kg	8.6
1,2,4-Trichloro- benzene	ND	190	ug/kg	11
1,1,1-Trichloroethane	ND	38	ug/kg	9.0
1,1,2-Trichloroethane	ND	38	ug/kg	9.4
Trichloroethene	ND	38	ug/kg	11
Trichlorofluoromethane	ND	76	ug/kg	7.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.5
Vinyl chloride	ND	76	ug/kg	15
Xylenes (total)	ND	110	ug/kg	14

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(59 - 138)
1,2-Dichloroethane-d4	96	(61 - 130)
Toluene-d8	96	(60 - 143)
4-Bromofluorobenzene	91	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-450

GC/MS Volatiles

Lot-Sample #....: A5G130319-042 Work Order #....: HFELV1AC Matrix.....: SO
 Date Sampled....: 07/11/05 15:20 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5201491
 Dilution Factor: 1
 % Moisture.....: 2.7 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	350 J,B	600	ug/kg	99
Benzene	ND	40	ug/kg	6.4
Bromodichloromethane	ND	80	ug/kg	12
Bromoform	ND	80	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	600	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.3
Chloroethane	ND	200	ug/kg	65
Chloroform	ND	40	ug/kg	12
Chloromethane	7.1 J,B	200	ug/kg	5.2
Cyclohexane	8.0 J	960	ug/kg	7.7
Dibromochloromethane	ND	40	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	60
1,2-Dibromoethane	ND	200	ug/kg	9.9
1,2-Dichlorobenzene	ND	80	ug/kg	17
1,3-Dichlorobenzene	ND	80	ug/kg	7.2
1,4-Dichlorobenzene	ND	80	ug/kg	7.9
Dichlorodifluoromethane	ND	80	ug/kg	5.4
1,1-Dichloroethane	ND	40	ug/kg	7.3
1,2-Dichloroethane	ND	40	ug/kg	9.3
1,1-Dichloroethene	ND	40	ug/kg	8.3
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.4
cis-1,3-Dichloropropene	ND	40	ug/kg	5.5
trans-1,3-Dichloropropene	ND	40	ug/kg	5.4
Ethylbenzene	ND	40	ug/kg	6.8
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.1
Methyl acetate	ND	960	ug/kg	52
Methylene chloride	ND	200	ug/kg	99
Methylcyclohexane	26 J	960	ug/kg	5.7
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-450

GC/MS Volatiles

Lot-Sample #....: A5G130319-042 Work Order #....: HFELV1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	8.2
Tetrachloroethene	ND	40	ug/kg	9.0
Toluene	ND	80	ug/kg	9.1
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.5
1,1,2-Trichloroethane	ND	40	ug/kg	9.9
Trichloroethene	1600	40	ug/kg	12
Trichlorofluoromethane	ND	80	ug/kg	8.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	80	ug/kg	16
Xylenes (total)	16 J	120	ug/kg	15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(59 - 138)
1,2-Dichloroethane-d4	101	(61 - 130)
Toluene-d8	101	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-451

GC/MS Volatiles

Lot-Sample #....: A5G130319-043 Work Order #....: HFEL11AC Matrix.....: SO
 Date Sampled....: 07/11/05 15:22 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/20/05
 Prep Batch #....: 5201491
 Dilution Factor: 1.85
 % Moisture.....: 2.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	240 J,B	1100	ug/kg	180
Benzene	ND	74	ug/kg	12
Bromodichloromethane	ND	150	ug/kg	22
Bromoform	ND	150	ug/kg	24
Bromomethane	ND	370	ug/kg	46
2-Butanone	ND	1100	ug/kg	91
Carbon disulfide	ND	370	ug/kg	37
Carbon tetrachloride	ND	74	ug/kg	22
Chlorobenzene	ND	74	ug/kg	12
Chloroethane	ND	370	ug/kg	120
Chloroform	ND	74	ug/kg	22
Chloromethane	ND	370	ug/kg	9.6
Cyclohexane	ND	1800	ug/kg	14
Dibromochloromethane	ND	74	ug/kg	13
1,2-Dibromo-3-chloro- propane	ND	370	ug/kg	110
1,2-Dibromoethane	ND	370	ug/kg	18
1,2-Dichlorobenzene	ND	150	ug/kg	31
1,3-Dichlorobenzene	ND	150	ug/kg	13
1,4-Dichlorobenzene	ND	150	ug/kg	15
Dichlorodifluoromethane	ND	150	ug/kg	10
1,1-Dichloroethane	ND	74	ug/kg	14
1,2-Dichloroethane	ND	74	ug/kg	17
1,1-Dichloroethene	ND	74	ug/kg	15
cis-1,2-Dichloroethene	ND	74	ug/kg	26
trans-1,2-Dichloroethene	ND	74	ug/kg	20
1,2-Dichloropropane	ND	74	ug/kg	14
cis-1,3-Dichloropropene	ND	74	ug/kg	10
trans-1,3-Dichloropropene	ND	74	ug/kg	10
Ethylbenzene	ND	74	ug/kg	13
2-Hexanone	ND	3700	ug/kg	44
Isopropylbenzene	ND	370	ug/kg	9.4
Methyl acetate	ND	1800	ug/kg	96
Methylene chloride	ND	370	ug/kg	180
Methylcyclohexane	32 J	1800	ug/kg	11
4-Methyl-2-pentanone	ND	3700	ug/kg	20
Methyl tert-butyl ether	ND	370	ug/kg	18
Styrene	ND	74	ug/kg	52

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-451

GC/MS Volatiles

Lot-Sample #....: A5G130319-043 Work Order #....: HFEL11AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	150	ug/kg	15
Tetrachloroethene	ND	74	ug/kg	17
Toluene	ND	150	ug/kg	17
1,2,4-Trichloro- benzene	ND	370	ug/kg	22
1,1,1-Trichloroethane	ND	74	ug/kg	18
1,1,2-Trichloroethane	ND	74	ug/kg	18
Trichloroethene	2500	74	ug/kg	22
Trichlorofluoromethane	ND	150	ug/kg	15
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	370	ug/kg	18
Vinyl chloride	ND	150	ug/kg	30
Xylenes (total)	ND	220	ug/kg	28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	80 DIL	(59 - 138)
1,2-Dichloroethane-d4	100 DIL	(61 - 130)
Toluene-d8	98 DIL	(60 - 143)
4-Bromofluorobenzene	93 DIL	(47 - 158)

NOTE (S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-452

GC/MS Volatiles

Lot-Sample #....: A5G130319-044 Work Order #....: HFEL31AC Matrix.....: SO
 Date Sampled....: 07/11/05 15:25 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5201491
 Dilution Factor: 0.97
 % Moisture.....: 4.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	410 J,B	580	ug/kg	96
Benzene	ND	39	ug/kg	6.2
Bromodichloromethane	ND	78	ug/kg	12
Bromoform	ND	78	ug/kg	13
Bromomethane	ND	190	ug/kg	24
2-Butanone	ND	580	ug/kg	48
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	39	ug/kg	12
Chlorobenzene	ND	39	ug/kg	6.1
Chloroethane	ND	190	ug/kg	63
Chloroform	ND	39	ug/kg	12
Chloromethane	5.5 J,B	190	ug/kg	5.0
Cyclohexane	ND	930	ug/kg	7.5
Dibromochloromethane	ND	39	ug/kg	6.7
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	58
1,2-Dibromoethane	ND	190	ug/kg	9.6
1,2-Dichlorobenzene	ND	78	ug/kg	16
1,3-Dichlorobenzene	ND	78	ug/kg	7.0
1,4-Dichlorobenzene	ND	78	ug/kg	7.7
Dichlorodifluoromethane	ND	78	ug/kg	5.2
1,1-Dichloroethane	ND	39	ug/kg	7.1
1,2-Dichloroethane	ND	39	ug/kg	9.0
1,1-Dichloroethene	ND	39	ug/kg	8.1
cis-1,2-Dichloroethene	ND	39	ug/kg	14
trans-1,2-Dichloroethene	ND	39	ug/kg	11
1,2-Dichloropropane	ND	39	ug/kg	7.2
cis-1,3-Dichloropropene	ND	39	ug/kg	5.3
trans-1,3-Dichloropropene	ND	39	ug/kg	5.2
Ethylbenzene	ND	39	ug/kg	6.6
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.9
Methyl acetate	ND	930	ug/kg	50
Methylene chloride	ND	190	ug/kg	96
Methylcyclohexane	ND	930	ug/kg	5.5
4-Methyl-2-pentanone	ND	1900	ug/kg	11
Methyl tert-butyl ether	ND	190	ug/kg	9.7
Styrene	ND	39	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-452

GC/MS Volatiles

Lot-Sample #....: A5G130319-044 Work Order #....: HFEL31AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	78	ug/kg	8.0
Tetrachloroethene	ND	39	ug/kg	8.7
Toluene	ND	78	ug/kg	8.8
1,2,4-Trichloro- benzene	ND	190	ug/kg	12
1,1,1-Trichloroethane	ND	39	ug/kg	9.2
1,1,2-Trichloroethane	ND	39	ug/kg	9.6
Trichloroethene	16 J	39	ug/kg	12
Trichlorofluoromethane	ND	78	ug/kg	8.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.7
Vinyl chloride	ND	78	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	79	(59 - 138)		
1,2-Dichloroethane-d4	93	(61 - 130)		
Toluene-d8	95	(60 - 143)		
4-Bromofluorobenzene	91	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-453

GC/MS Volatiles

Lot-Sample #....: A5G130319-045 Work Order #....: HFEL51AC Matrix.....: SO
 Date Sampled....: 07/11/05 15:30 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5201491
 Dilution Factor: 0.92
 % Moisture.....: 1.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	370 J,B	550	ug/kg	91
Benzene	ND	37	ug/kg	5.9
Bromodichloromethane	ND	74	ug/kg	11
Bromoform	ND	74	ug/kg	12
Bromomethane	ND	180	ug/kg	23
2-Butanone	ND	550	ug/kg	45
Carbon disulfide	ND	180	ug/kg	18
Carbon tetrachloride	ND	37	ug/kg	11
Chlorobenzene	ND	37	ug/kg	5.8
Chloroethane	ND	180	ug/kg	60
Chloroform	ND	37	ug/kg	11
Chloromethane	5.7 J,B	180	ug/kg	4.8
Cyclohexane	ND	880	ug/kg	7.1
Dibromochloromethane	ND	37	ug/kg	6.3
1,2-Dibromo-3-chloro- propane	ND	180	ug/kg	55
1,2-Dibromoethane	ND	180	ug/kg	9.1
1,2-Dichlorobenzene	ND	74	ug/kg	16
1,3-Dichlorobenzene	ND	74	ug/kg	6.6
1,4-Dichlorobenzene	ND	74	ug/kg	7.3
Dichlorodifluoromethane	ND	74	ug/kg	5.0
1,1-Dichloroethane	ND	37	ug/kg	6.7
1,2-Dichloroethane	ND	37	ug/kg	8.6
1,1-Dichloroethene	ND	37	ug/kg	7.6
cis-1,2-Dichloroethene	ND	37	ug/kg	13
trans-1,2-Dichloroethene	ND	37	ug/kg	10
1,2-Dichloropropane	ND	37	ug/kg	6.8
cis-1,3-Dichloropropene	ND	37	ug/kg	5.1
trans-1,3-Dichloropropene	ND	37	ug/kg	5.0
Ethylbenzene	ND	37	ug/kg	6.3
2-Hexanone	ND	1800	ug/kg	22
Isopropylbenzene	ND	180	ug/kg	4.7
Methyl acetate	ND	880	ug/kg	48
Methylene chloride	ND	180	ug/kg	91
Methylcyclohexane	ND	880	ug/kg	5.2
4-Methyl-2-pentanone	ND	1800	ug/kg	10
Methyl tert-butyl ether	ND	180	ug/kg	9.2
Styrene	ND	37	ug/kg	26

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-453

GC/MS Volatiles

Lot-Sample #....: A5G130319-045 Work Order #....: HFEL51AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	74	ug/kg	7.5
Tetrachloroethene	ND	37	ug/kg	8.3
Toluene	ND	74	ug/kg	8.4
1,2,4-Trichloro- benzene	ND	180	ug/kg	11
1,1,1-Trichloroethane	ND	37	ug/kg	8.7
1,1,2-Trichloroethane	ND	37	ug/kg	9.1
Trichloroethene	ND	37	ug/kg	11
Trichlorofluoromethane	ND	74	ug/kg	7.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	180	ug/kg	9.2
Vinyl chloride	ND	74	ug/kg	15
Xylenes (total)	ND	110	ug/kg	14
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	74	(59 - 138)		
1,2-Dichloroethane-d4	88	(61 - 130)		
Toluene-d8	90	(60 - 143)		
4-Bromofluorobenzene	88	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-454

GC/MS Volatiles

Lot-Sample #....: A5G130319-046 Work Order #....: HFEL61AC Matrix.....: SO
 Date Sampled....: 07/11/05 15:32 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5201491
 Dilution Factor: 0.97
 % Moisture.....: 2.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	380 J,B	580	ug/kg	96
Benzene	ND	39	ug/kg	6.2
Bromodichloromethane	ND	78	ug/kg	12
Bromoform	ND	78	ug/kg	13
Bromomethane	ND	190	ug/kg	24
2-Butanone	ND	580	ug/kg	48
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	39	ug/kg	12
Chlorobenzene	ND	39	ug/kg	6.1
Chloroethane	ND	190	ug/kg	63
Chloroform	ND	39	ug/kg	12
Chloromethane	ND	190	ug/kg	5.0
Cyclohexane	ND	930	ug/kg	7.5
Dibromochloromethane	ND	39	ug/kg	6.7
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	58
1,2-Dibromoethane	ND	190	ug/kg	9.6
1,2-Dichlorobenzene	ND	78	ug/kg	16
1,3-Dichlorobenzene	ND	78	ug/kg	7.0
1,4-Dichlorobenzene	ND	78	ug/kg	7.7
Dichlorodifluoromethane	ND	78	ug/kg	5.2
1,1-Dichloroethane	ND	39	ug/kg	7.1
1,2-Dichloroethane	ND	39	ug/kg	9.0
1,1-Dichloroethene	ND	39	ug/kg	8.1
cis-1,2-Dichloroethene	ND	39	ug/kg	14
trans-1,2-Dichloroethene	ND	39	ug/kg	11
1,2-Dichloropropane	ND	39	ug/kg	7.2
cis-1,3-Dichloropropene	ND	39	ug/kg	5.3
trans-1,3-Dichloropropene	ND	39	ug/kg	5.2
Ethylbenzene	ND	39	ug/kg	6.6
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.9
Methyl acetate	ND	930	ug/kg	50
Methylene chloride	ND	190	ug/kg	96
Methylcyclohexane	ND	930	ug/kg	5.5
4-Methyl-2-pentanone	ND	1900	ug/kg	11
Methyl tert-butyl ether	ND	190	ug/kg	9.7
Styrene	ND	39	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-454

GC/MS Volatiles

Lot-Sample #....: A5G130319-046 Work Order #....: HFEL61AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	78	ug/kg	8.0
Tetrachloroethene	ND	39	ug/kg	8.7
Toluene	ND	78	ug/kg	8.8
1,2,4-Trichloro- benzene	ND	190	ug/kg	12
1,1,1-Trichloroethane	ND	39	ug/kg	9.2
1,1,2-Trichloroethane	ND	39	ug/kg	9.6
Trichloroethene	ND	39	ug/kg	12
Trichlorofluoromethane	ND	78	ug/kg	8.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.7
Vinyl chloride	ND	78	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	81	(59 - 138)
1,2-Dichloroethane-d4	96	(61 - 130)
Toluene-d8	99	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-455

GC/MS Volatiles

Lot-Sample #....: A5G130319-047 Work Order #....: HFEL91AC Matrix.....: SO
 Date Sampled....: 07/11/05 15:35 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5201491
 Dilution Factor: 1.02
 % Moisture.....: 2.6 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	370 J,B	610	ug/kg	100
Benzene	ND	41	ug/kg	6.5
Bromodichloromethane	ND	82	ug/kg	12
Bromoform	ND	82	ug/kg	13
Bromomethane	ND	200	ug/kg	26
2-Butanone	ND	610	ug/kg	50
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	41	ug/kg	12
Chlorobenzene	ND	41	ug/kg	6.4
Chloroethane	ND	200	ug/kg	66
Chloroform	ND	41	ug/kg	12
Chloromethane	ND	200	ug/kg	5.3
Cyclohexane	ND	980	ug/kg	7.9
Dibromochloromethane	ND	41	ug/kg	7.0
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	61
1,2-Dibromoethane	ND	200	ug/kg	10
1,2-Dichlorobenzene	ND	82	ug/kg	17
1,3-Dichlorobenzene	ND	82	ug/kg	7.3
1,4-Dichlorobenzene	ND	82	ug/kg	8.1
Dichlorodifluoromethane	ND	82	ug/kg	5.5
1,1-Dichloroethane	ND	41	ug/kg	7.4
1,2-Dichloroethane	ND	41	ug/kg	9.5
1,1-Dichloroethene	ND	41	ug/kg	8.5
cis-1,2-Dichloroethene	ND	41	ug/kg	14
trans-1,2-Dichloroethene	ND	41	ug/kg	11
1,2-Dichloropropane	ND	41	ug/kg	7.5
cis-1,3-Dichloropropene	ND	41	ug/kg	5.6
trans-1,3-Dichloropropene	ND	41	ug/kg	5.5
Ethylbenzene	ND	41	ug/kg	6.9
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.2
Methyl acetate	ND	980	ug/kg	53
Methylene chloride	ND	200	ug/kg	100
Methylcyclohexane	ND	980	ug/kg	5.8
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	41	ug/kg	29

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-455

GC/MS Volatiles

Lot-Sample #....: A5G130319-047 Work Order #....: HFEL91AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	82	ug/kg	8.4
Tetrachloroethene	ND	41	ug/kg	9.2
Toluene	ND	82	ug/kg	9.3
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	41	ug/kg	9.7
1,1,2-Trichloroethane	ND	41	ug/kg	10
Trichloroethene	ND	41	ug/kg	12
Trichlorofluoromethane	ND	82	ug/kg	8.5
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	82	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	78	(59 - 138)		
1,2-Dichloroethane-d4	92	(61 - 130)		
Toluene-d8	96	(60 - 143)		
4-Bromofluorobenzene	90	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-456

GC/MS Volatiles

Lot-Sample #....: A5G130319-048 Work Order #....: HFEMD1AC Matrix.....: SO
 Date Sampled....: 07/11/05 15:37 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5201491
 Dilution Factor: 0.96
 % Moisture.....: 2.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	330 J,B	580	ug/kg	95
Benzene	ND	38	ug/kg	6.1
Bromodichloromethane	ND	77	ug/kg	12
Bromoform	ND	77	ug/kg	12
Bromomethane	ND	190	ug/kg	24
2-Butanone	ND	580	ug/kg	47
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	38	ug/kg	12
Chlorobenzene	ND	38	ug/kg	6.0
Chloroethane	ND	190	ug/kg	62
Chloroform	ND	38	ug/kg	12
Chloromethane	5.4 J,B	190	ug/kg	5.0
Cyclohexane	ND	920	ug/kg	7.4
Dibromochloromethane	ND	38	ug/kg	6.6
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	58
1,2-Dibromoethane	ND	190	ug/kg	9.5
1,2-Dichlorobenzene	ND	77	ug/kg	16
1,3-Dichlorobenzene	ND	77	ug/kg	6.9
1,4-Dichlorobenzene	ND	77	ug/kg	7.6
Dichlorodifluoromethane	ND	77	ug/kg	5.2
1,1-Dichloroethane	ND	38	ug/kg	7.0
1,2-Dichloroethane	ND	38	ug/kg	8.9
1,1-Dichloroethene	ND	38	ug/kg	8.0
cis-1,2-Dichloroethene	ND	38	ug/kg	13
trans-1,2-Dichloroethene	ND	38	ug/kg	11
1,2-Dichloropropane	ND	38	ug/kg	7.1
cis-1,3-Dichloropropene	ND	38	ug/kg	5.3
trans-1,3-Dichloropropene	ND	38	ug/kg	5.2
Ethylbenzene	ND	38	ug/kg	6.5
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.9
Methyl acetate	ND	920	ug/kg	50
Methylene chloride	ND	190	ug/kg	95
Methylcyclohexane	ND	920	ug/kg	5.5
4-Methyl-2-pentanone	ND	1900	ug/kg	11
Methyl tert-butyl ether	ND	190	ug/kg	9.6
Styrene	ND	38	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-456

GC/MS Volatiles

Lot-Sample #....: A5G130319-048 Work Order #....: HFEMD1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	77	ug/kg	7.9
Tetrachloroethene	ND	38	ug/kg	8.6
Toluene	ND	77	ug/kg	8.7
1,2,4-Trichloro- benzene	ND	190	ug/kg	12
1,1,1-Trichloroethane	ND	38	ug/kg	9.1
1,1,2-Trichloroethane	ND	38	ug/kg	9.5
Trichloroethene	ND	38	ug/kg	12
Trichlorofluoromethane	ND	77	ug/kg	8.0
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.6
Vinyl chloride	ND	77	ug/kg	15
Xylenes (total)	ND	120	ug/kg	14
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	74	(59 - 138)		
1,2-Dichloroethane-d4	91	(61 - 130)		
Toluene-d8	90	(60 - 143)		
4-Bromofluorobenzene	87	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-457

GC/MS Volatiles

Lot-Sample #....: A5G130319-049 Work Order #....: HFEME1AC Matrix.....: SO
 Date Sampled....: 07/11/05 15:40 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5201491
 Dilution Factor: 1.11
 % Moisture.....: 3.3 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	380 J,B	670	ug/kg	110
Benzene	ND	44	ug/kg	7.1
Bromodichloromethane	ND	89	ug/kg	13
Bromoform	ND	89	ug/kg	14
Bromomethane	ND	220	ug/kg	28
2-Butanone	ND	670	ug/kg	54
Carbon disulfide	ND	220	ug/kg	22
Carbon tetrachloride	ND	44	ug/kg	13
Chlorobenzene	ND	44	ug/kg	7.0
Chloroethane	ND	220	ug/kg	72
Chloroform	ND	44	ug/kg	13
Chloromethane	ND	220	ug/kg	5.8
Cyclohexane	ND	1100	ug/kg	8.5
Dibromochloromethane	ND	44	ug/kg	7.7
1,2-Dibromo-3-chloro- propane	ND	220	ug/kg	67
1,2-Dibromoethane	ND	220	ug/kg	11
1,2-Dichlorobenzene	ND	89	ug/kg	19
1,3-Dichlorobenzene	ND	89	ug/kg	8.0
1,4-Dichlorobenzene	ND	89	ug/kg	8.8
Dichlorodifluoromethane	ND	89	ug/kg	6.0
1,1-Dichloroethane	ND	44	ug/kg	8.1
1,2-Dichloroethane	ND	44	ug/kg	10
1,1-Dichloroethene	ND	44	ug/kg	9.2
cis-1,2-Dichloroethene	ND	44	ug/kg	16
trans-1,2-Dichloroethene	ND	44	ug/kg	12
1,2-Dichloropropane	ND	44	ug/kg	8.2
cis-1,3-Dichloropropene	ND	44	ug/kg	6.1
trans-1,3-Dichloropropene	ND	44	ug/kg	6.0
Ethylbenzene	ND	44	ug/kg	7.5
2-Hexanone	ND	2200	ug/kg	27
Isopropylbenzene	ND	220	ug/kg	5.7
Methyl acetate	190 J	1100	ug/kg	58
Methylene chloride	ND	220	ug/kg	110
Methylcyclohexane	ND	1100	ug/kg	6.3
4-Methyl-2-pentanone	ND	2200	ug/kg	12
Methyl tert-butyl ether	ND	220	ug/kg	11
Styrene	ND	44	ug/kg	31

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-457

GC/MS Volatiles

Lot-Sample #....: A5G130319-049 Work Order #....: HFEME1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	89	ug/kg	9.1
Tetrachloroethene	ND	44	ug/kg	10
Toluene	ND	89	ug/kg	10
1,2,4-Trichloro- benzene	ND	220	ug/kg	13
1,1,1-Trichloroethane	ND	44	ug/kg	11
1,1,2-Trichloroethane	ND	44	ug/kg	11
Trichloroethene	290	44	ug/kg	13
Trichlorofluoromethane	ND	89	ug/kg	9.2
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	220	ug/kg	11
Vinyl chloride	ND	89	ug/kg	18
Xylenes (total)	ND	130	ug/kg	17
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	83	(59 - 138)		
1,2-Dichloroethane-d4	101	(61 - 130)		
Toluene-d8	101	(60 - 143)		
4-Bromofluorobenzene	96	(47 - 158)		

NOTE(S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-458

GC/MS Volatiles

Lot-Sample #....: A5G130319-050 Work Order #....: HFEMF1AC Matrix.....: SO
 Date Sampled....: 07/11/05 15:42 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5201491
 Dilution Factor: 1.3
 % Moisture.....: 2.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	460 J,B	780	ug/kg	130
Benzene	ND	52	ug/kg	8.3
Bromodichloromethane	ND	100	ug/kg	16
Bromoform	ND	100	ug/kg	17
Bromomethane	ND	260	ug/kg	32
2-Butanone	ND	780	ug/kg	64
Carbon disulfide	ND	260	ug/kg	26
Carbon tetrachloride	ND	52	ug/kg	16
Chlorobenzene	ND	52	ug/kg	8.2
Chloroethane	ND	260	ug/kg	84
Chloroform	ND	52	ug/kg	16
Chloromethane	8.9 J,B	260	ug/kg	6.8
Cyclohexane	ND	1200	ug/kg	10
Dibromochloromethane	ND	52	ug/kg	9.0
1,2-Dibromo-3-chloro- propane	ND	260	ug/kg	78
1,2-Dibromoethane	ND	260	ug/kg	13
1,2-Dichlorobenzene	ND	100	ug/kg	22
1,3-Dichlorobenzene	ND	100	ug/kg	9.4
1,4-Dichlorobenzene	ND	100	ug/kg	10
Dichlorodifluoromethane	ND	100	ug/kg	7.0
1,1-Dichloroethane	ND	52	ug/kg	9.5
1,2-Dichloroethane	ND	52	ug/kg	12
1,1-Dichloroethene	ND	52	ug/kg	11
cis-1,2-Dichloroethene	ND	52	ug/kg	18
trans-1,2-Dichloroethene	ND	52	ug/kg	14
1,2-Dichloropropane	ND	52	ug/kg	9.6
cis-1,3-Dichloropropene	ND	52	ug/kg	7.2
trans-1,3-Dichloropropene	ND	52	ug/kg	7.0
Ethylbenzene	ND	52	ug/kg	8.8
2-Hexanone	ND	2600	ug/kg	31
Isopropylbenzene	ND	260	ug/kg	6.6
Methyl acetate	140 J	1200	ug/kg	68
Methylene chloride	ND	260	ug/kg	130
Methylcyclohexane	ND	1200	ug/kg	7.4
4-Methyl-2-pentanone	ND	2600	ug/kg	14
Methyl tert-butyl ether	ND	260	ug/kg	13
Styrene	ND	52	ug/kg	36

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-458

GC/MS Volatiles

Lot-Sample #....: A5G130319-050 Work Order #....: HFEMF1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	100	ug/kg	11
Tetrachloroethene	ND	52	ug/kg	12
Toluene	ND	100	ug/kg	12
1,2,4-Trichloro- benzene	ND	260	ug/kg	16
1,1,1-Trichloroethane	ND	52	ug/kg	12
1,1,2-Trichloroethane	ND	52	ug/kg	13
Trichloroethene	380	52	ug/kg	16
Trichlorofluoromethane	ND	100	ug/kg	11
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	260	ug/kg	13
Vinyl chloride	ND	100	ug/kg	21
Xylenes (total)	ND	160	ug/kg	20
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	74	(59 - 138)		
1,2-Dichloroethane-d4	90	(61 - 130)		
Toluene-d8	92	(60 - 143)		
4-Bromofluorobenzene	87	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-459

GC/MS Volatiles

Lot-Sample #....: A5G130319-051 Work Order #....: HFEMH1AC Matrix.....: SO
 Date Sampled....: 07/11/05 15:45 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5201491
 Dilution Factor: 1.01
 % Moisture.....: 1.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	360 J,B	610	ug/kg	100
Benzene	ND	40	ug/kg	6.5
Bromodichloromethane	ND	81	ug/kg	12
Bromoform	ND	81	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	610	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.4
Chloroethane	ND	200	ug/kg	66
Chloroform	ND	40	ug/kg	12
Chloromethane	6.3 J,B	200	ug/kg	5.3
Cyclohexane	ND	970	ug/kg	7.8
Dibromochloromethane	ND	40	ug/kg	7.0
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	61
1,2-Dibromoethane	ND	200	ug/kg	10
1,2-Dichlorobenzene	ND	81	ug/kg	17
1,3-Dichlorobenzene	ND	81	ug/kg	7.3
1,4-Dichlorobenzene	ND	81	ug/kg	8.0
Dichlorodifluoromethane	ND	81	ug/kg	5.5
1,1-Dichloroethane	ND	40	ug/kg	7.4
1,2-Dichloroethane	ND	40	ug/kg	9.4
1,1-Dichloroethene	ND	40	ug/kg	8.4
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.5
cis-1,3-Dichloropropene	ND	40	ug/kg	5.6
trans-1,3-Dichloropropene	ND	40	ug/kg	5.5
Ethylbenzene	ND	40	ug/kg	6.9
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.2
Methyl acetate	ND	970	ug/kg	53
Methylene chloride	ND	200	ug/kg	100
Methylcyclohexane	ND	970	ug/kg	5.8
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-459

GC/MS Volatiles

Lot-Sample #....: A5G130319-051 Work Order #....: HFEMH1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	81	ug/kg	8.3
Tetrachloroethene	ND	40	ug/kg	9.1
Toluene	ND	81	ug/kg	9.2
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.6
1,1,2-Trichloroethane	ND	40	ug/kg	10
Trichloroethene	45	40	ug/kg	12
Trichlorofluoromethane	ND	81	ug/kg	8.4
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	81	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	78	(59 - 138)		
1,2-Dichloroethane-d4	95	(61 - 130)		
Toluene-d8	95	(60 - 143)		
4-Bromofluorobenzene	93	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-460

GC/MS Volatiles

Lot-Sample #....: A5G130319-052 Work Order #....: HFEMK1AC Matrix.....: SO
 Date Sampled....: 07/12/05 07:55 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5201491
 Dilution Factor: 1
 % Moisture.....: 4.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	380 J,B	600	ug/kg	99
Benzene	ND	40	ug/kg	6.4
Bromodichloromethane	ND	80	ug/kg	12
Bromoform	ND	80	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	600	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.3
Chloroethane	ND	200	ug/kg	65
Chloroform	ND	40	ug/kg	12
Chloromethane	5.9 J,B	200	ug/kg	5.2
Cyclohexane	7.9 J	960	ug/kg	7.7
Dibromochloromethane	ND	40	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	60
1,2-Dibromoethane	ND	200	ug/kg	9.9
1,2-Dichlorobenzene	ND	80	ug/kg	17
1,3-Dichlorobenzene	ND	80	ug/kg	7.2
1,4-Dichlorobenzene	ND	80	ug/kg	7.9
Dichlorodifluoromethane	ND	80	ug/kg	5.4
1,1-Dichloroethane	ND	40	ug/kg	7.3
1,2-Dichloroethane	ND	40	ug/kg	9.3
1,1-Dichloroethene	ND	40	ug/kg	8.3
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.4
cis-1,3-Dichloropropene	ND	40	ug/kg	5.5
trans-1,3-Dichloropropene	ND	40	ug/kg	5.4
Ethylbenzene	ND	40	ug/kg	6.8
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.1
Methyl acetate	ND	960	ug/kg	52
Methylene chloride	ND	200	ug/kg	99
Methylcyclohexane	24 J	960	ug/kg	5.7
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-460

GC/MS Volatiles

Lot-Sample #....: A5G130319-052 Work Order #....: HFEMK1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	8.2
Tetrachloroethene	ND	40	ug/kg	9.0
Toluene	ND	80	ug/kg	9.1
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.5
1,1,2-Trichloroethane	ND	40	ug/kg	9.9
Trichloroethene	820	40	ug/kg	12
Trichlorofluoromethane	ND	80	ug/kg	8.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	80	ug/kg	16
Xylenes (total)	21 J	120	ug/kg	15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	80	(59 - 138)
1,2-Dichloroethane-d4	93	(61 - 130)
Toluene-d8	93	(60 - 143)
4-Bromofluorobenzene	90	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-461

GC/MS Volatiles

Lot-Sample #....: A5G130319-053 Work Order #....: HFEMN1AC Matrix.....: SO
 Date Sampled....: 07/12/05 07:57 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5201491
 Dilution Factor: 1.19
 % Moisture.....: 2.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	440 J,B	710	ug/kg	120
Benzene	ND	48	ug/kg	7.6
Bromodichloromethane	ND	95	ug/kg	14
Bromoform	ND	95	ug/kg	15
Bromomethane	ND	240	ug/kg	30
2-Butanone	ND	710	ug/kg	58
Carbon disulfide	ND	240	ug/kg	24
Carbon tetrachloride	ND	48	ug/kg	14
Chlorobenzene	ND	48	ug/kg	7.5
Chloroethane	ND	240	ug/kg	77
Chloroform	ND	48	ug/kg	14
Chloromethane	ND	240	ug/kg	6.2
Cyclohexane	ND	1100	ug/kg	9.2
Dibromochloromethane	ND	48	ug/kg	8.2
1,2-Dibromo-3-chloro- propane	ND	240	ug/kg	71
1,2-Dibromoethane	ND	240	ug/kg	12
1,2-Dichlorobenzene	ND	95	ug/kg	20
1,3-Dichlorobenzene	ND	95	ug/kg	8.6
1,4-Dichlorobenzene	ND	95	ug/kg	9.4
Dichlorodifluoromethane	ND	95	ug/kg	6.4
1,1-Dichloroethane	ND	48	ug/kg	8.7
1,2-Dichloroethane	ND	48	ug/kg	11
1,1-Dichloroethene	ND	48	ug/kg	9.9
cis-1,2-Dichloroethene	ND	48	ug/kg	17
trans-1,2-Dichloroethene	ND	48	ug/kg	13
1,2-Dichloropropane	ND	48	ug/kg	8.8
cis-1,3-Dichloropropene	ND	48	ug/kg	6.5
trans-1,3-Dichloropropene	ND	48	ug/kg	6.4
Ethylbenzene	ND	48	ug/kg	8.1
2-Hexanone	ND	2400	ug/kg	29
Isopropylbenzene	ND	240	ug/kg	6.1
Methyl acetate	ND	1100	ug/kg	62
Methylene chloride	ND	240	ug/kg	120
Methylcyclohexane	ND	1100	ug/kg	6.8
4-Methyl-2-pentanone	ND	2400	ug/kg	13
Methyl tert-butyl ether	ND	240	ug/kg	12
Styrene	ND	48	ug/kg	33

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-461

GC/MS Volatiles

Lot-Sample #....: A5G130319-053 Work Order #....: HFEMN1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	95	ug/kg	9.8
Tetrachloroethene	ND	48	ug/kg	11
Toluene	ND	95	ug/kg	11
1,2,4-Trichloro- benzene	ND	240	ug/kg	14
1,1,1-Trichloroethane	ND	48	ug/kg	11
1,1,2-Trichloroethane	ND	48	ug/kg	12
Trichloroethene	ND	48	ug/kg	14
Trichlorofluoromethane	ND	95	ug/kg	9.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	240	ug/kg	12
Vinyl chloride	ND	95	ug/kg	19
Xylenes (total)	ND	140	ug/kg	18
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	77	(59 - 138)		
1,2-Dichloroethane-d4	93	(61 - 130)		
Toluene-d8	94	(60 - 143)		
4-Bromofluorobenzene	91	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-462

GC/MS Volatiles

Lot-Sample #....: A5G130319-054 Work Order #....: HFEMP1AC Matrix.....: SO
 Date Sampled....: 07/12/05 08:02 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5201491
 Dilution Factor: 1.05
 % Moisture.....: 1.6 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	390 J,B	630	ug/kg	100
Benzene	ND	42	ug/kg	6.7
Bromodichloromethane	ND	84	ug/kg	13
Bromoform	ND	84	ug/kg	14
Bromomethane	ND	210	ug/kg	26
2-Butanone	ND	630	ug/kg	51
Carbon disulfide	ND	210	ug/kg	21
Carbon tetrachloride	ND	42	ug/kg	13
Chlorobenzene	ND	42	ug/kg	6.6
Chloroethane	ND	210	ug/kg	68
Chloroform	ND	42	ug/kg	13
Chloromethane	ND	210	ug/kg	5.5
Cyclohexane	ND	1000	ug/kg	8.1
Dibromochloromethane	ND	42	ug/kg	7.2
1,2-Dibromo-3-chloro- propane	ND	210	ug/kg	63
1,2-Dibromoethane	ND	210	ug/kg	10
1,2-Dichlorobenzene	ND	84	ug/kg	18
1,3-Dichlorobenzene	ND	84	ug/kg	7.6
1,4-Dichlorobenzene	ND	84	ug/kg	8.3
Dichlorodifluoromethane	ND	84	ug/kg	5.7
1,1-Dichloroethane	ND	42	ug/kg	7.7
1,2-Dichloroethane	ND	42	ug/kg	9.8
1,1-Dichloroethene	ND	42	ug/kg	8.7
cis-1,2-Dichloroethene	ND	42	ug/kg	15
trans-1,2-Dichloroethene	ND	42	ug/kg	12
1,2-Dichloropropane	ND	42	ug/kg	7.8
cis-1,3-Dichloropropene	ND	42	ug/kg	5.8
trans-1,3-Dichloropropene	ND	42	ug/kg	5.7
Ethylbenzene	ND	42	ug/kg	7.1
2-Hexanone	ND	2100	ug/kg	25
Isopropylbenzene	ND	210	ug/kg	5.4
Methyl acetate	ND	1000	ug/kg	55
Methylene chloride	ND	210	ug/kg	100
Methylcyclohexane	ND	1000	ug/kg	6.0
4-Methyl-2-pentanone	ND	2100	ug/kg	12
Methyl tert-butyl ether	ND	210	ug/kg	10
Styrene	ND	42	ug/kg	29

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-462

GC/MS Volatiles

Lot-Sample #....: A5G130319-054 Work Order #....: HFEMP1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	84	ug/kg	8.6
Tetrachloroethene	ND	42	ug/kg	9.4
Toluene	ND	84	ug/kg	9.6
1,2,4-Trichloro- benzene	ND	210	ug/kg	13
1,1,1-Trichloroethane	ND	42	ug/kg	10
1,1,2-Trichloroethane	ND	42	ug/kg	10
Trichloroethene	ND	42	ug/kg	13
Trichlorofluoromethane	ND	84	ug/kg	8.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	210	ug/kg	10
Vinyl chloride	ND	84	ug/kg	17
Xylenes (total)	ND	130	ug/kg	16
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	76	(59 - 138)		
1,2-Dichloroethane-d4	93	(61 - 130)		
Toluene-d8	93	(60 - 143)		
4-Bromofluorobenzene	89	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-463

GC/MS Volatiles

Lot-Sample #....: A5G130319-055 Work Order #....: HFEMT1AC Matrix.....: SO
 Date Sampled...: 07/12/05 08:05 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/20/05
 Prep Batch #....: 5201491
 Dilution Factor: 0.99
 % Moisture.....: 1.7 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	360 J,B	590	ug/kg	98
Benzene	ND	40	ug/kg	6.3
Bromodichloromethane	ND	79	ug/kg	12
Bromoform	ND	79	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	590	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.2
Chloroethane	ND	200	ug/kg	64
Chloroform	ND	40	ug/kg	12
Chloromethane	5.7 J,B	200	ug/kg	5.1
Cyclohexane	ND	950	ug/kg	7.6
Dibromochloromethane	ND	40	ug/kg	6.8
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	59
1,2-Dibromoethane	ND	200	ug/kg	9.8
1,2-Dichlorobenzene	ND	79	ug/kg	17
1,3-Dichlorobenzene	ND	79	ug/kg	7.1
1,4-Dichlorobenzene	ND	79	ug/kg	7.8
Dichlorodifluoromethane	ND	79	ug/kg	5.3
1,1-Dichloroethane	ND	40	ug/kg	7.2
1,2-Dichloroethane	ND	40	ug/kg	9.2
1,1-Dichloroethene	ND	40	ug/kg	8.2
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.3
cis-1,3-Dichloropropene	ND	40	ug/kg	5.4
trans-1,3-Dichloropropene	ND	40	ug/kg	5.3
Ethylbenzene	ND	40	ug/kg	6.7
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.0
Methyl acetate	ND	950	ug/kg	51
Methylene chloride	ND	200	ug/kg	98
Methylcyclohexane	ND	950	ug/kg	5.6
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	9.9
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-463

GC/MS Volatiles

Lot-Sample #....: A5G130319-055 Work Order #....: HFEMT1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	79	ug/kg	8.1
Tetrachloroethene	ND	40	ug/kg	8.9
Toluene	ND	79	ug/kg	9.0
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.4
1,1,2-Trichloroethane	ND	40	ug/kg	9.8
Trichloroethene	ND	40	ug/kg	12
Trichlorofluoromethane	ND	79	ug/kg	8.2
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	9.9
Vinyl chloride	ND	79	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	72	(59 - 138)		
1,2-Dichloroethane-d4	87	(61 - 130)		
Toluene-d8	89	(60 - 143)		
4-Bromofluorobenzene	85	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-464

GC/MS Volatiles

Lot-Sample #....: A5G130319-056 Work Order #....: HFEMV1AC Matrix.....: SO
 Date Sampled....: 07/12/05 08:07 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/20/05
 Prep Batch #....: 5201491
 Dilution Factor: 0.99
 % Moisture.....: 3.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	370 J,B	590	ug/kg	98
Benzene	ND	40	ug/kg	6.3
Bromodichloromethane	ND	79	ug/kg	12
Bromoform	ND	79	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	590	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.2
Chloroethane	ND	200	ug/kg	64
Chloroform	ND	40	ug/kg	12
Chloromethane	5.4 J,B	200	ug/kg	5.1
Cyclohexane	ND	950	ug/kg	7.6
Dibromochloromethane	ND	40	ug/kg	6.8
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	59
1,2-Dibromoethane	ND	200	ug/kg	9.8
1,2-Dichlorobenzene	ND	79	ug/kg	17
1,3-Dichlorobenzene	ND	79	ug/kg	7.1
1,4-Dichlorobenzene	ND	79	ug/kg	7.8
Dichlorodifluoromethane	ND	79	ug/kg	5.3
1,1-Dichloroethane	ND	40	ug/kg	7.2
1,2-Dichloroethane	ND	40	ug/kg	9.2
1,1-Dichloroethene	ND	40	ug/kg	8.2
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.3
cis-1,3-Dichloropropene	ND	40	ug/kg	5.4
trans-1,3-Dichloropropene	ND	40	ug/kg	5.3
Ethylbenzene	ND	40	ug/kg	6.7
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.0
Methyl acetate	ND	950	ug/kg	51
Methylene chloride	ND	200	ug/kg	98
Methylcyclohexane	ND	950	ug/kg	5.6
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	9.9
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-464

GC/MS Volatiles

Lot-Sample #....: A5G130319-056 Work Order #....: HFEMV1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	79	ug/kg	8.1
Tetrachloroethene	ND	40	ug/kg	8.9
Toluene	ND	79	ug/kg	9.0
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.4
1,1,2-Trichloroethane	ND	40	ug/kg	9.8
Trichloroethene	ND	40	ug/kg	12
Trichlorofluoromethane	ND	79	ug/kg	8.2
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	9.9
Vinyl chloride	ND	79	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	73	(59 - 138)		
1,2-Dichloroethane-d4	90	(61 - 130)		
Toluene-d8	92	(60 - 143)		
4-Bromofluorobenzene	87	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-465

GC/MS Volatiles

Lot-Sample #....: A5G130319-057 Work Order #....: HFEMX1AC Matrix.....: SO
 Date Sampled....: 07/12/05 08:10 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/20/05
 Prep Batch #....: 5201491
 Dilution Factor: 1.06
 % Moisture.....: 3.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	400 J,B	640	ug/kg	100
Benzene	ND	42	ug/kg	6.8
Bromodichloromethane	ND	85	ug/kg	13
Bromoform	ND	85	ug/kg	14
Bromomethane	ND	210	ug/kg	26
2-Butanone	ND	640	ug/kg	52
Carbon disulfide	ND	210	ug/kg	21
Carbon tetrachloride	ND	42	ug/kg	13
Chlorobenzene	ND	42	ug/kg	6.7
Chloroethane	ND	210	ug/kg	69
Chloroform	ND	42	ug/kg	13
Chloromethane	6.1 J,B	210	ug/kg	5.5
Cyclohexane	ND	1000	ug/kg	8.2
Dibromochloromethane	ND	42	ug/kg	7.3
1,2-Dibromo-3-chloro- propane	ND	210	ug/kg	64
1,2-Dibromoethane	ND	210	ug/kg	10
1,2-Dichlorobenzene	ND	85	ug/kg	18
1,3-Dichlorobenzene	ND	85	ug/kg	7.6
1,4-Dichlorobenzene	ND	85	ug/kg	8.4
Dichlorodifluoromethane	ND	85	ug/kg	5.7
1,1-Dichloroethane	ND	42	ug/kg	7.7
1,2-Dichloroethane	ND	42	ug/kg	9.9
1,1-Dichloroethene	ND	42	ug/kg	8.8
cis-1,2-Dichloroethene	ND	42	ug/kg	15
trans-1,2-Dichloroethene	ND	42	ug/kg	12
1,2-Dichloropropane	ND	42	ug/kg	7.8
cis-1,3-Dichloropropene	ND	42	ug/kg	5.8
trans-1,3-Dichloropropene	ND	42	ug/kg	5.7
Ethylbenzene	ND	42	ug/kg	7.2
2-Hexanone	ND	2100	ug/kg	25
Isopropylbenzene	ND	210	ug/kg	5.4
Methyl acetate	ND	1000	ug/kg	55
Methylene chloride	ND	210	ug/kg	100
Methylcyclohexane	ND	1000	ug/kg	6.0
4-Methyl-2-pentanone	ND	2100	ug/kg	12
Methyl tert-butyl ether	ND	210	ug/kg	11
Styrene	ND	42	ug/kg	30

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-465

GC/MS Volatiles

Lot-Sample #....: A5G130319-057 Work Order #....: HFEMX1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	85	ug/kg	8.7
Tetrachloroethene	ND	42	ug/kg	9.5
Toluene	ND	85	ug/kg	9.6
1,2,4-Trichloro- benzene	ND	210	ug/kg	13
1,1,1-Trichloroethane	ND	42	ug/kg	10
1,1,2-Trichloroethane	ND	42	ug/kg	10
Trichloroethene	29 J	42	ug/kg	13
Trichlorofluoromethane	ND	85	ug/kg	8.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	210	ug/kg	11
Vinyl chloride	ND	85	ug/kg	17
Xylenes (total)	ND	130	ug/kg	16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	75	(59 - 138)
1,2-Dichloroethane-d4	93	(61 - 130)
Toluene-d8	95	(60 - 143)
4-Bromofluorobenzene	87	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-466

GC/MS Volatiles

Lot-Sample #....: A5G130319-058 Work Order #....: HFEM01AC Matrix.....: SO
 Date Sampled....: 07/12/05 08:12 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/20/05
 Prep Batch #....: 5201491
 Dilution Factor: 0.95
 % Moisture.....: 3.6 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	340 J,B	570	ug/kg	94
Benzene	ND	38	ug/kg	6.1
Bromodichloromethane	ND	76	ug/kg	11
Bromoform	ND	76	ug/kg	12
Bromomethane	ND	190	ug/kg	24
2-Butanone	ND	570	ug/kg	47
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	38	ug/kg	11
Chlorobenzene	ND	38	ug/kg	6.0
Chloroethane	ND	190	ug/kg	62
Chloroform	ND	38	ug/kg	11
Chloromethane	ND	190	ug/kg	4.9
Cyclohexane	ND	910	ug/kg	7.3
Dibromochloromethane	ND	38	ug/kg	6.6
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	57
1,2-Dibromoethane	ND	190	ug/kg	9.4
1,2-Dichlorobenzene	ND	76	ug/kg	16
1,3-Dichlorobenzene	ND	76	ug/kg	6.8
1,4-Dichlorobenzene	ND	76	ug/kg	7.5
Dichlorodifluoromethane	ND	76	ug/kg	5.1
1,1-Dichloroethane	ND	38	ug/kg	6.9
1,2-Dichloroethane	ND	38	ug/kg	8.8
1,1-Dichloroethene	ND	38	ug/kg	7.9
cis-1,2-Dichloroethene	ND	38	ug/kg	13
trans-1,2-Dichloroethene	ND	38	ug/kg	10
1,2-Dichloropropane	ND	38	ug/kg	7.0
cis-1,3-Dichloropropene	ND	38	ug/kg	5.2
trans-1,3-Dichloropropene	ND	38	ug/kg	5.1
Ethylbenzene	ND	38	ug/kg	6.5
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.8
Methyl acetate	ND	910	ug/kg	49
Methylene chloride	ND	190	ug/kg	94
Methylcyclohexane	ND	910	ug/kg	5.4
4-Methyl-2-pentanone	ND	1900	ug/kg	10
Methyl tert-butyl ether	ND	190	ug/kg	9.5
Styrene	ND	38	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-466

GC/MS Volatiles

Lot-Sample #....: A5G130319-058 Work Order #....: HFEM01AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	76	ug/kg	7.8
Tetrachloroethene	ND	38	ug/kg	8.6
Toluene	ND	76	ug/kg	8.6
1,2,4-Trichloro- benzene	ND	190	ug/kg	11
1,1,1-Trichloroethane	ND	38	ug/kg	9.0
1,1,2-Trichloroethane	ND	38	ug/kg	9.4
Trichloroethene	16 J	38	ug/kg	11
Trichlorofluoromethane	ND	76	ug/kg	7.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.5
Vinyl chloride	ND	76	ug/kg	15
Xylenes (total)	ND	110	ug/kg	14
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	73	(59 - 138)		
1,2-Dichloroethane-d4	90	(61 - 130)		
Toluene-d8	95	(60 - 143)		
4-Bromofluorobenzene	89	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-467

GC/MS Volatiles

Lot-Sample #....: A5G130319-059 Work Order #....: HFEM11AC Matrix.....: SO
 Date Sampled....: 07/12/05 08:15 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/20/05
 Prep Batch #....: 5202495
 Dilution Factor: 0.93
 % Moisture.....: 3.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	310 J,B	560	ug/kg	92
Benzene	ND	37	ug/kg	6.0
Bromodichloromethane	ND	74	ug/kg	11
Bromoform	ND	74	ug/kg	12
Bromomethane	ND	190	ug/kg	23
2-Butanone	ND	560	ug/kg	46
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	37	ug/kg	11
Chlorobenzene	ND	37	ug/kg	5.9
Chloroethane	ND	190	ug/kg	60
Chloroform	ND	37	ug/kg	11
Chloromethane	5.6 J,B	190	ug/kg	4.8
Cyclohexane	ND	890	ug/kg	7.2
Dibromochloromethane	ND	37	ug/kg	6.4
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	56
1,2-Dibromoethane	ND	190	ug/kg	9.2
1,2-Dichlorobenzene	ND	74	ug/kg	16
1,3-Dichlorobenzene	ND	74	ug/kg	6.7
1,4-Dichlorobenzene	ND	74	ug/kg	7.3
Dichlorodifluoromethane	ND	74	ug/kg	5.0
1,1-Dichloroethane	ND	37	ug/kg	6.8
1,2-Dichloroethane	ND	37	ug/kg	8.6
1,1-Dichloroethene	ND	37	ug/kg	7.7
cis-1,2-Dichloroethene	ND	37	ug/kg	13
trans-1,2-Dichloroethene	ND	37	ug/kg	10
1,2-Dichloropropane	ND	37	ug/kg	6.9
cis-1,3-Dichloropropene	ND	37	ug/kg	5.1
trans-1,3-Dichloropropene	ND	37	ug/kg	5.0
Ethylbenzene	ND	37	ug/kg	6.3
2-Hexanone	ND	1900	ug/kg	22
Isopropylbenzene	ND	190	ug/kg	4.7
Methyl acetate	ND	890	ug/kg	48
Methylene chloride	ND	190	ug/kg	92
Methylcyclohexane	ND	890	ug/kg	5.3
4-Methyl-2-pentanone	ND	1900	ug/kg	10
Methyl tert-butyl ether	ND	190	ug/kg	9.3
Styrene	ND	37	ug/kg	26

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-467

GC/MS Volatiles

Lot-Sample #....: A5G130319-059 Work Order #....: HFEM11AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	74	ug/kg	7.6
Tetrachloroethene	ND	37	ug/kg	8.4
Toluene	ND	74	ug/kg	8.5
1,2,4-Trichloro- benzene	ND	190	ug/kg	11
1,1,1-Trichloroethane	ND	37	ug/kg	8.8
1,1,2-Trichloroethane	ND	37	ug/kg	9.2
Trichloroethene	19 J	37	ug/kg	11
Trichlorofluoromethane	ND	74	ug/kg	7.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.3
Vinyl chloride	ND	74	ug/kg	15
Xylenes (total)	ND	110	ug/kg	14
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	78	(59 - 138)		
1,2-Dichloroethane-d4	92	(61 - 130)		
Toluene-d8	93	(60 - 143)		
4-Bromofluorobenzene	89	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-468

GC/MS Volatiles

Lot-Sample #....: A5G130319-060 Work Order #....: HFEM41AC Matrix.....: SO
 Date Sampled....: 07/12/05 08:17 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/20/05
 Prep Batch #....: 5202495
 Dilution Factor: 1.12
 % Moisture.....: 3.3 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	390 J,B	670	ug/kg	110
Benzene	ND	45	ug/kg	7.2
Bromodichloromethane	ND	90	ug/kg	13
Bromoform	ND	90	ug/kg	15
Bromomethane	ND	220	ug/kg	28
2-Butanone	ND	670	ug/kg	55
Carbon disulfide	ND	220	ug/kg	22
Carbon tetrachloride	ND	45	ug/kg	13
Chlorobenzene	ND	45	ug/kg	7.1
Chloroethane	ND	220	ug/kg	73
Chloroform	ND	45	ug/kg	13
Chloromethane	ND	220	ug/kg	5.8
Cyclohexane	ND	1100	ug/kg	8.6
Dibromochloromethane	ND	45	ug/kg	7.7
1,2-Dibromo-3-chloro- propane	ND	220	ug/kg	67
1,2-Dibromoethane	ND	220	ug/kg	11
1,2-Dichlorobenzene	ND	90	ug/kg	19
1,3-Dichlorobenzene	ND	90	ug/kg	8.1
1,4-Dichlorobenzene	ND	90	ug/kg	8.8
Dichlorodifluoromethane	ND	90	ug/kg	6.0
1,1-Dichloroethane	ND	45	ug/kg	8.2
1,2-Dichloroethane	ND	45	ug/kg	10
1,1-Dichloroethene	ND	45	ug/kg	9.3
cis-1,2-Dichloroethene	ND	45	ug/kg	16
trans-1,2-Dichloroethene	ND	45	ug/kg	12
1,2-Dichloropropane	ND	45	ug/kg	8.3
cis-1,3-Dichloropropene	ND	45	ug/kg	6.2
trans-1,3-Dichloropropene	ND	45	ug/kg	6.0
Ethylbenzene	ND	45	ug/kg	7.6
2-Hexanone	ND	2200	ug/kg	27
Isopropylbenzene	ND	220	ug/kg	5.7
Methyl acetate	ND	1100	ug/kg	58
Methylene chloride	ND	220	ug/kg	110
Methylcyclohexane	ND	1100	ug/kg	6.4
4-Methyl-2-pentanone	ND	2200	ug/kg	12
Methyl tert-butyl ether	ND	220	ug/kg	11
Styrene	ND	45	ug/kg	31

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-468

GC/MS Volatiles

Lot-Sample #....: A5G130319-060 Work Order #....: HFEM41AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	90	ug/kg	9.2
Tetrachloroethene	ND	45	ug/kg	10
Toluene	ND	90	ug/kg	10
1,2,4-Trichloro- benzene	ND	220	ug/kg	13
1,1,1-Trichloroethane	ND	45	ug/kg	11
1,1,2-Trichloroethane	ND	45	ug/kg	11
Trichloroethene	18 J	45	ug/kg	13
Trichlorofluoromethane	ND	90	ug/kg	9.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	220	ug/kg	11
Vinyl chloride	ND	90	ug/kg	18
Xylenes (total)	ND	130	ug/kg	17
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	82	(59 - 138)		
1,2-Dichloroethane-d4	92	(61 - 130)		
Toluene-d8	97	(60 - 143)		
4-Bromofluorobenzene	92	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-469

GC/MS Volatiles

Lot-Sample #....: A5G130319-061 Work Order #....: HFEM61AC Matrix.....: SO
 Date Sampled....: 07/12/05 08:20 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/20/05
 Prep Batch #....: 5202495
 Dilution Factor: 0.92
 % Moisture.....: 3.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	330 J,B	550	ug/kg	91
Benzene	ND	37	ug/kg	5.9
Bromodichloromethane	ND	74	ug/kg	11
Bromoform	ND	74	ug/kg	12
Bromomethane	ND	180	ug/kg	23
2-Butanone	ND	550	ug/kg	45
Carbon disulfide	ND	180	ug/kg	18
Carbon tetrachloride	ND	37	ug/kg	11
Chlorobenzene	ND	37	ug/kg	5.8
Chloroethane	ND	180	ug/kg	60
Chloroform	ND	37	ug/kg	11
Chloromethane	5.5 J,B	180	ug/kg	4.8
Cyclohexane	ND	880	ug/kg	7.1
Dibromochloromethane	ND	37	ug/kg	6.3
1,2-Dibromo-3-chloro- propane	ND	180	ug/kg	55
1,2-Dibromoethane	ND	180	ug/kg	9.1
1,2-Dichlorobenzene	ND	74	ug/kg	16
1,3-Dichlorobenzene	ND	74	ug/kg	6.6
1,4-Dichlorobenzene	ND	74	ug/kg	7.3
Dichlorodifluoromethane	ND	74	ug/kg	5.0
1,1-Dichloroethane	ND	37	ug/kg	6.7
1,2-Dichloroethane	ND	37	ug/kg	8.6
1,1-Dichloroethene	ND	37	ug/kg	7.6
cis-1,2-Dichloroethene	ND	37	ug/kg	13
trans-1,2-Dichloroethene	ND	37	ug/kg	10
1,2-Dichloropropane	ND	37	ug/kg	6.8
cis-1,3-Dichloropropene	ND	37	ug/kg	5.1
trans-1,3-Dichloropropene	ND	37	ug/kg	5.0
Ethylbenzene	ND	37	ug/kg	6.3
2-Hexanone	ND	1800	ug/kg	22
Isopropylbenzene	ND	180	ug/kg	4.7
Methyl acetate	ND	880	ug/kg	48
Methylene chloride	ND	180	ug/kg	91
Methylcyclohexane	ND	880	ug/kg	5.2
4-Methyl-2-pentanone	ND	1800	ug/kg	10
Methyl tert-butyl ether	ND	180	ug/kg	9.2
Styrene	ND	37	ug/kg	26

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-469

GC/MS Volatiles

Lot-Sample #....: A5G130319-061 Work Order #....: HFEM61AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	74	ug/kg	7.5
Tetrachloroethene	ND	37	ug/kg	8.3
Toluene	ND	74	ug/kg	8.4
1,2,4-Trichloro- benzene	ND	180	ug/kg	11
1,1,1-Trichloroethane	ND	37	ug/kg	8.7
1,1,2-Trichloroethane	ND	37	ug/kg	9.1
Trichloroethene	120	37	ug/kg	11
Trichlorofluoromethane	ND	74	ug/kg	7.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	180	ug/kg	9.2
Vinyl chloride	ND	74	ug/kg	15
Xylenes (total)	ND	110	ug/kg	14
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	81	(59 - 138)		
1,2-Dichloroethane-d4	93	(61 - 130)		
Toluene-d8	99	(60 - 143)		
4-Bromofluorobenzene	91	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-470

GC/MS Volatiles

Lot-Sample #....: A5G130319-062 Work Order #....: HFEM71AC Matrix.....: SO
 Date Sampled....: 07/12/05 08:22 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/20/05
 Prep Batch #....: 5202495
 Dilution Factor: 1
 % Moisture.....: 2.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	330 J,B	600	ug/kg	99
Benzene	ND	40	ug/kg	6.4
Bromodichloromethane	ND	80	ug/kg	12
Bromoform	ND	80	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	600	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.3
Chloroethane	ND	200	ug/kg	65
Chloroform	ND	40	ug/kg	12
Chloromethane	ND	200	ug/kg	5.2
Cyclohexane	ND	960	ug/kg	7.7
Dibromochloromethane	ND	40	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	60
1,2-Dibromoethane	ND	200	ug/kg	9.9
1,2-Dichlorobenzene	ND	80	ug/kg	17
1,3-Dichlorobenzene	ND	80	ug/kg	7.2
1,4-Dichlorobenzene	ND	80	ug/kg	7.9
Dichlorodifluoromethane	ND	80	ug/kg	5.4
1,1-Dichloroethane	ND	40	ug/kg	7.3
1,2-Dichloroethane	ND	40	ug/kg	9.3
1,1-Dichloroethene	ND	40	ug/kg	8.3
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.4
cis-1,3-Dichloropropene	ND	40	ug/kg	5.5
trans-1,3-Dichloropropene	ND	40	ug/kg	5.4
Ethylbenzene	ND	40	ug/kg	6.8
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.1
Methyl acetate	ND	960	ug/kg	52
Methylene chloride	ND	200	ug/kg	99
Methylcyclohexane	ND	960	ug/kg	5.7
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-470

GC/MS Volatiles

Lot-Sample #....: A5G130319-062 Work Order #....: HFEM71AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	8.2
Tetrachloroethene	ND	40	ug/kg	9.0
Toluene	ND	80	ug/kg	9.1
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.5
1,1,2-Trichloroethane	ND	40	ug/kg	9.9
Trichloroethene	31 J	40	ug/kg	12
Trichlorofluoromethane	ND	80	ug/kg	8.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	80	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	77	(59 - 138)		
1,2-Dichloroethane-d4	92	(61 - 130)		
Toluene-d8	96	(60 - 143)		
4-Bromofluorobenzene	89	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-471

GC/MS Volatiles

Lot-Sample #....: A5G130319-063 Work Order #....: HFEM91AC Matrix.....: SO
 Date Sampled....: 07/12/05 09:00 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/22/05
 Prep Batch #....: 5202495
 Dilution Factor: 33.33
 % Moisture.....: 5.1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	20000	ug/kg	3300
Benzene	ND	1300	ug/kg	210
Bromodichloromethane	ND	2700	ug/kg	400
Bromoform	ND	2700	ug/kg	430
Bromomethane	ND	6700	ug/kg	830
2-Butanone	ND	20000	ug/kg	1600
Carbon disulfide	ND	6700	ug/kg	670
Carbon tetrachloride	ND	1300	ug/kg	400
Chlorobenzene	ND	1300	ug/kg	210
Chloroethane	ND	6700	ug/kg	2200
Chloroform	ND	1300	ug/kg	400
Chloromethane	ND	6700	ug/kg	170
Cyclohexane	ND	32000	ug/kg	260
Dibromochloromethane	ND	1300	ug/kg	230
1,2-Dibromo-3-chloro- propane	ND	6700	ug/kg	2000
1,2-Dibromoethane	ND	6700	ug/kg	330
1,2-Dichlorobenzene	ND	2700	ug/kg	570
1,3-Dichlorobenzene	ND	2700	ug/kg	240
1,4-Dichlorobenzene	ND	2700	ug/kg	260
Dichlorodifluoromethane	ND	2700	ug/kg	180
1,1-Dichloroethane	ND	1300	ug/kg	240
1,2-Dichloroethane	ND	1300	ug/kg	310
1,1-Dichloroethene	ND	1300	ug/kg	280
cis-1,2-Dichloroethene	ND	1300	ug/kg	470
trans-1,2-Dichloroethene	ND	1300	ug/kg	370
1,2-Dichloropropane	ND	1300	ug/kg	250
cis-1,3-Dichloropropene	ND	1300	ug/kg	180
trans-1,3-Dichloropropene	ND	1300	ug/kg	180
Ethylbenzene	ND	1300	ug/kg	230
2-Hexanone	ND	67000	ug/kg	800
Isopropylbenzene	ND	6700	ug/kg	170
Methyl acetate	ND	32000	ug/kg	1700
Methylene chloride	ND	6700	ug/kg	3300
Methylcyclohexane	570 J	32000	ug/kg	190
4-Methyl-2-pentanone	ND	67000	ug/kg	370
Methyl tert-butyl ether	ND	6700	ug/kg	330
Styrene	ND	1300	ug/kg	930

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-471

GC/MS Volatiles

Lot-Sample #....: A5G130319-063 Work Order #....: HFEM91AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	2700	ug/kg	270
Tetrachloroethene	ND	1300	ug/kg	300
Toluene	ND	2700	ug/kg	300
1,2,4-Trichloro- benzene	ND	6700	ug/kg	400
1,1,1-Trichloroethane	ND	1300	ug/kg	320
1,1,2-Trichloroethane	ND	1300	ug/kg	330
Trichloroethene	46000	1300	ug/kg	400
Trichlorofluoromethane	ND	2700	ug/kg	280
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	6700	ug/kg	330
Vinyl chloride	ND	2700	ug/kg	530
Xylenes (total)	ND	4000	ug/kg	500

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	114 DIL	(59 - 138)
1,2-Dichloroethane-d4	0.0 DIL, *	(61 - 130)
Toluene-d8	178 DIL, *	(60 - 143)
4-Bromofluorobenzene	179 DIL, *	(47 - 158)

NOTE (S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-472

GC/MS Volatiles

Lot-Sample #....: A5G130319-064 Work Order #....: HFENC1AC Matrix.....: SO
 Date Sampled....: 07/12/05 09:02 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/21/05
 Prep Batch #....: 5202495
 Dilution Factor: 1
 % Moisture.....: 4.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	320 J,B	600	ug/kg	99
Benzene	ND	40	ug/kg	6.4
Bromodichloromethane	ND	80	ug/kg	12
Bromoform	ND	80	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	600	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.3
Chloroethane	ND	200	ug/kg	65
Chloroform	ND	40	ug/kg	12
Chloromethane	7.9 J,B	200	ug/kg	5.2
Cyclohexane	ND	960	ug/kg	7.7
Dibromochloromethane	ND	40	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	60
1,2-Dibromoethane	ND	200	ug/kg	9.9
1,2-Dichlorobenzene	ND	80	ug/kg	17
1,3-Dichlorobenzene	ND	80	ug/kg	7.2
1,4-Dichlorobenzene	ND	80	ug/kg	7.9
Dichlorodifluoromethane	ND	80	ug/kg	5.4
1,1-Dichloroethane	ND	40	ug/kg	7.3
1,2-Dichloroethane	ND	40	ug/kg	9.3
1,1-Dichloroethene	ND	40	ug/kg	8.3
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.4
cis-1,3-Dichloropropene	ND	40	ug/kg	5.5
trans-1,3-Dichloropropene	ND	40	ug/kg	5.4
Ethylbenzene	ND	40	ug/kg	6.8
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.1
Methyl acetate	ND	960	ug/kg	52
Methylene chloride	ND	200	ug/kg	99
Methylcyclohexane	ND	960	ug/kg	5.7
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-472

GC/MS Volatiles

Lot-Sample #....: A5G130319-064 Work Order #....: HFENC1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	8.2
Tetrachloroethene	ND	40	ug/kg	9.0
Toluene	ND	80	ug/kg	9.1
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.5
1,1,2-Trichloroethane	ND	40	ug/kg	9.9
Trichloroethene	1500	40	ug/kg	12
Trichlorofluoromethane	ND	80	ug/kg	8.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	80	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(59 - 138)
1,2-Dichloroethane-d4	98	(61 - 130)
Toluene-d8	107	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-473

GC/MS Volatiles

Lot-Sample #....: A5G130319-065 Work Order #....: HFEND1AC Matrix.....: SO
 Date Sampled....: 07/12/05 09:05 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/20/05
 Prep Batch #....: 5202495
 Dilution Factor: 0.98
 % Moisture.....: 2.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	410 J,B	590	ug/kg	97
Benzene	ND	39	ug/kg	6.3
Bromodichloromethane	ND	78	ug/kg	12
Bromoform	ND	78	ug/kg	13
Bromomethane	ND	200	ug/kg	24
2-Butanone	ND	590	ug/kg	48
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	39	ug/kg	12
Chlorobenzene	ND	39	ug/kg	6.2
Chloroethane	ND	200	ug/kg	64
Chloroform	ND	39	ug/kg	12
Chloromethane	6.9 J,B	200	ug/kg	5.1
Cyclohexane	ND	940	ug/kg	7.5
Dibromochloromethane	ND	39	ug/kg	6.8
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	59
1,2-Dibromoethane	ND	200	ug/kg	9.7
1,2-Dichlorobenzene	ND	78	ug/kg	17
1,3-Dichlorobenzene	ND	78	ug/kg	7.1
1,4-Dichlorobenzene	ND	78	ug/kg	7.7
Dichlorodifluoromethane	ND	78	ug/kg	5.3
1,1-Dichloroethane	ND	39	ug/kg	7.2
1,2-Dichloroethane	ND	39	ug/kg	9.1
1,1-Dichloroethene	ND	39	ug/kg	8.1
cis-1,2-Dichloroethene	ND	39	ug/kg	14
trans-1,2-Dichloroethene	ND	39	ug/kg	11
1,2-Dichloropropane	ND	39	ug/kg	7.3
cis-1,3-Dichloropropene	ND	39	ug/kg	5.4
trans-1,3-Dichloropropene	ND	39	ug/kg	5.3
Ethylbenzene	ND	39	ug/kg	6.7
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.0
Methyl acetate	ND	940	ug/kg	51
Methylene chloride	ND	200	ug/kg	97
Methylcyclohexane	ND	940	ug/kg	5.6
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	9.8
Styrene	ND	39	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-473

GC/MS Volatiles

Lot-Sample #....: A5G130319-065 Work Order #....: HFEND1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	78	ug/kg	8.0
Tetrachloroethene	ND	39	ug/kg	8.8
Toluene	ND	78	ug/kg	8.9
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	39	ug/kg	9.3
1,1,2-Trichloroethane	ND	39	ug/kg	9.7
Trichloroethene	27 J	39	ug/kg	12
Trichlorofluoromethane	ND	78	ug/kg	8.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	9.8
Vinyl chloride	ND	78	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	79	(59 - 138)		
1,2-Dichloroethane-d4	94	(61 - 130)		
Toluene-d8	98	(60 - 143)		
4-Bromofluorobenzene	94	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-474

GC/MS Volatiles

Lot-Sample #....: A5G130319-066 Work Order #....: HFENF1AC Matrix.....: SO
 Date Sampled....: 07/12/05 09:07 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/21/05
 Prep Batch #....: 5202495
 Dilution Factor: 0.97
 % Moisture.....: 1.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	390 J,B	580	ug/kg	96
Benzene	ND	39	ug/kg	6.2
Bromodichloromethane	ND	78	ug/kg	12
Bromoform	ND	78	ug/kg	13
Bromomethane	ND	190	ug/kg	24
2-Butanone	ND	580	ug/kg	48
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	39	ug/kg	12
Chlorobenzene	ND	39	ug/kg	6.1
Chloroethane	ND	190	ug/kg	63
Chloroform	ND	39	ug/kg	12
Chloromethane	6.5 J,B	190	ug/kg	5.0
Cyclohexane	ND	930	ug/kg	7.5
Dibromochloromethane	ND	39	ug/kg	6.7
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	58
1,2-Dibromoethane	ND	190	ug/kg	9.6
1,2-Dichlorobenzene	ND	78	ug/kg	16
1,3-Dichlorobenzene	ND	78	ug/kg	7.0
1,4-Dichlorobenzene	ND	78	ug/kg	7.7
Dichlorodifluoromethane	ND	78	ug/kg	5.2
1,1-Dichloroethane	ND	39	ug/kg	7.1
1,2-Dichloroethane	ND	39	ug/kg	9.0
1,1-Dichloroethene	ND	39	ug/kg	8.1
cis-1,2-Dichloroethene	ND	39	ug/kg	14
trans-1,2-Dichloroethene	ND	39	ug/kg	11
1,2-Dichloropropane	ND	39	ug/kg	7.2
cis-1,3-Dichloropropene	ND	39	ug/kg	5.3
trans-1,3-Dichloropropene	ND	39	ug/kg	5.2
Ethylbenzene	ND	39	ug/kg	6.6
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.9
Methyl acetate	ND	930	ug/kg	50
Methylene chloride	ND	190	ug/kg	96
Methylcyclohexane	ND	930	ug/kg	5.5
4-Methyl-2-pentanone	ND	1900	ug/kg	11
Methyl tert-butyl ether	ND	190	ug/kg	9.7
Styrene	ND	39	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-474

GC/MS Volatiles

Lot-Sample #....: A5G130319-066 Work Order #....: HFENF1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	78	ug/kg	8.0
Tetrachloroethene	ND	39	ug/kg	8.7
Toluene	ND	78	ug/kg	8.8
1,2,4-Trichloro- benzene	ND	190	ug/kg	12
1,1,1-Trichloroethane	ND	39	ug/kg	9.2
1,1,2-Trichloroethane	ND	39	ug/kg	9.6
Trichloroethene	16 J	39	ug/kg	12
Trichlorofluoromethane	ND	78	ug/kg	8.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.7
Vinyl chloride	ND	78	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	78	(59 - 138)		
1,2-Dichloroethane-d4	91	(61 - 130)		
Toluene-d8	96	(60 - 143)		
4-Bromofluorobenzene	87	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-475

GC/MS Volatiles

Lot-Sample #....: A5G130319-067 Work Order #....: HFENH1AC Matrix.....: SO
 Date Sampled....: 07/12/05 09:10 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/21/05
 Prep Batch #....: 5202495
 Dilution Factor: 1
 % Moisture.....: 3.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	350 J,B	600	ug/kg	99
Benzene	ND	40	ug/kg	6.4
Bromodichloromethane	ND	80	ug/kg	12
Bromoform	ND	80	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	600	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.3
Chloroethane	ND	200	ug/kg	65
Chloroform	ND	40	ug/kg	12
Chloromethane	6.3 J,B	200	ug/kg	5.2
Cyclohexane	ND	960	ug/kg	7.7
Dibromochloromethane	ND	40	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	60
1,2-Dibromoethane	ND	200	ug/kg	9.9
1,2-Dichlorobenzene	ND	80	ug/kg	17
1,3-Dichlorobenzene	ND	80	ug/kg	7.2
1,4-Dichlorobenzene	ND	80	ug/kg	7.9
Dichlorodifluoromethane	ND	80	ug/kg	5.4
1,1-Dichloroethane	ND	40	ug/kg	7.3
1,2-Dichloroethane	ND	40	ug/kg	9.3
1,1-Dichloroethene	ND	40	ug/kg	8.3
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.4
cis-1,3-Dichloropropene	ND	40	ug/kg	5.5
trans-1,3-Dichloropropene	ND	40	ug/kg	5.4
Ethylbenzene	ND	40	ug/kg	6.8
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.1
Methyl acetate	ND	960	ug/kg	52
Methylene chloride	ND	200	ug/kg	99
Methylcyclohexane	ND	960	ug/kg	5.7
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-475

GC/MS Volatiles

Lot-Sample #....: A5G130319-067 Work Order #....: HFENH1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	8.2
Tetrachloroethene	ND	40	ug/kg	9.0
Toluene	ND	80	ug/kg	9.1
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.5
1,1,2-Trichloroethane	ND	40	ug/kg	9.9
Trichloroethene	12 J	40	ug/kg	12
Trichlorofluoromethane	ND	80	ug/kg	8.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	80	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	77	(59 - 138)		
1,2-Dichloroethane-d4	93	(61 - 130)		
Toluene-d8	90	(60 - 143)		
4-Bromofluorobenzene	87	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-476

GC/MS Volatiles

Lot-Sample #....: A5G130319-068 Work Order #....: HFENK1AC Matrix.....: SO
 Date Sampled....: 07/12/05 09:12 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/21/05
 Prep Batch #....: 5202495
 Dilution Factor: 3.74
 % Moisture.....: 3.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2200	ug/kg	370
Benzene	ND	150	ug/kg	24
Bromodichloromethane	ND	300	ug/kg	45
Bromoform	ND	300	ug/kg	49
Bromomethane	ND	750	ug/kg	94
2-Butanone	ND	2200	ug/kg	180
Carbon disulfide	ND	750	ug/kg	75
Carbon tetrachloride	ND	150	ug/kg	45
Chlorobenzene	ND	150	ug/kg	24
Chloroethane	ND	750	ug/kg	240
Chloroform	ND	150	ug/kg	45
Chloromethane	ND	750	ug/kg	19
Cyclohexane	ND	3600	ug/kg	29
Dibromochloromethane	ND	150	ug/kg	26
1,2-Dibromo-3-chloro- propane	ND	750	ug/kg	220
1,2-Dibromoethane	ND	750	ug/kg	37
1,2-Dichlorobenzene	ND	300	ug/kg	64
1,3-Dichlorobenzene	ND	300	ug/kg	27
1,4-Dichlorobenzene	ND	300	ug/kg	30
Dichlorodifluoromethane	ND	300	ug/kg	20
1,1-Dichloroethane	ND	150	ug/kg	27
1,2-Dichloroethane	ND	150	ug/kg	35
1,1-Dichloroethene	ND	150	ug/kg	31
cis-1,2-Dichloroethene	ND	150	ug/kg	52
trans-1,2-Dichloroethene	ND	150	ug/kg	41
1,2-Dichloropropane	ND	150	ug/kg	28
cis-1,3-Dichloropropene	ND	150	ug/kg	21
trans-1,3-Dichloropropene	ND	150	ug/kg	20
Ethylbenzene	ND	150	ug/kg	25
2-Hexanone	ND	7500	ug/kg	90
Isopropylbenzene	ND	750	ug/kg	19
Methyl acetate	400 J	3600	ug/kg	190
Methylene chloride	ND	750	ug/kg	370
Methylcyclohexane	ND	3600	ug/kg	21
4-Methyl-2-pentanone	ND	7500	ug/kg	41
Methyl tert-butyl ether	ND	750	ug/kg	37
Styrene	ND	150	ug/kg	100

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-476

GC/MS Volatiles

Lot-Sample #...: A5G130319-068 Work Order #...: HFENK1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	300	ug/kg	31
Tetrachloroethene	ND	150	ug/kg	34
Toluene	ND	300	ug/kg	34
1,2,4-Trichloro- benzene	ND	750	ug/kg	45
1,1,1-Trichloroethane	ND	150	ug/kg	36
1,1,2-Trichloroethane	ND	150	ug/kg	37
Trichloroethene	5900	150	ug/kg	45
Trichlorofluoromethane	ND	300	ug/kg	31
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	750	ug/kg	37
Vinyl chloride	ND	300	ug/kg	60
Xylenes (total)	ND	450	ug/kg	56
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	93 DIL	(59 - 138)		
1,2-Dichloroethane-d4	98 DIL	(61 - 130)		
Toluene-d8	113 DIL	(60 - 143)		
4-Bromofluorobenzene	99 DIL	(47 - 158)		

NOTE (S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-477

GC/MS Volatiles

Lot-Sample #....: A5G130319-069 Work Order #....: HFENM1AC Matrix.....: SO
 Date Sampled....: 07/12/05 09:15 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/21/05
 Prep Batch #....: 5202495
 Dilution Factor: 1.15
 % Moisture.....: 3.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	470 J,B	690	ug/kg	110
Benzene	ND	46	ug/kg	7.4
Bromodichloromethane	ND	92	ug/kg	14
Bromoform	ND	92	ug/kg	15
Bromomethane	ND	230	ug/kg	29
2-Butanone	ND	690	ug/kg	56
Carbon disulfide	ND	230	ug/kg	23
Carbon tetrachloride	ND	46	ug/kg	14
Chlorobenzene	ND	46	ug/kg	7.2
Chloroethane	ND	230	ug/kg	75
Chloroform	ND	46	ug/kg	14
Chloromethane	8.0 J,B	230	ug/kg	6.0
Cyclohexane	ND	1100	ug/kg	8.9
Dibromochloromethane	ND	46	ug/kg	7.9
1,2-Dibromo-3-chloro- propane	ND	230	ug/kg	69
1,2-Dibromoethane	ND	230	ug/kg	11
1,2-Dichlorobenzene	ND	92	ug/kg	20
1,3-Dichlorobenzene	ND	92	ug/kg	8.3
1,4-Dichlorobenzene	ND	92	ug/kg	9.1
Dichlorodifluoromethane	ND	92	ug/kg	6.2
1,1-Dichloroethane	ND	46	ug/kg	8.4
1,2-Dichloroethane	ND	46	ug/kg	11
1,1-Dichloroethene	ND	46	ug/kg	9.5
cis-1,2-Dichloroethene	ND	46	ug/kg	16
trans-1,2-Dichloroethene	ND	46	ug/kg	13
1,2-Dichloropropane	ND	46	ug/kg	8.5
cis-1,3-Dichloropropene	ND	46	ug/kg	6.3
trans-1,3-Dichloropropene	ND	46	ug/kg	6.2
Ethylbenzene	ND	46	ug/kg	7.8
2-Hexanone	ND	2300	ug/kg	28
Isopropylbenzene	ND	230	ug/kg	5.9
Methyl acetate	ND	1100	ug/kg	60
Methylene chloride	ND	230	ug/kg	110
Methylcyclohexane	ND	1100	ug/kg	6.6
4-Methyl-2-pentanone	ND	2300	ug/kg	13
Methyl tert-butyl ether	ND	230	ug/kg	12
Styrene	ND	46	ug/kg	32

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-477

GC/MS Volatiles

Lot-Sample #....: A5G130319-069 Work Order #....: HFENM1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	92	ug/kg	9.4
Tetrachloroethene	ND	46	ug/kg	10
Toluene	ND	92	ug/kg	10
1,2,4-Trichloro- benzene	ND	230	ug/kg	14
1,1,1-Trichloroethane	ND	46	ug/kg	11
1,1,2-Trichloroethane	ND	46	ug/kg	11
Trichloroethene	100	46	ug/kg	14
Trichlorofluoromethane	ND	92	ug/kg	9.5
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	230	ug/kg	12
Vinyl chloride	ND	92	ug/kg	18
Xylenes (total)	ND	140	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	77	(59 - 138)
1,2-Dichloroethane-d4	96	(61 - 130)
Toluene-d8	96	(60 - 143)
4-Bromofluorobenzene	89	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-478

GC/MS Volatiles

Lot-Sample #....: A5G130319-070 Work Order #....: HFENP1AC Matrix.....: SO
 Date Sampled....: 07/12/05 09:20 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/21/05
 Prep Batch #....: 5202495
 Dilution Factor: 1
 % Moisture.....: 2.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	390 J,B	600	ug/kg	99
Benzene	ND	40	ug/kg	6.4
Bromodichloromethane	ND	80	ug/kg	12
Bromoform	ND	80	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	600	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.3
Chloroethane	ND	200	ug/kg	65
Chloroform	ND	40	ug/kg	12
Chloromethane	ND	200	ug/kg	5.2
Cyclohexane	ND	960	ug/kg	7.7
Dibromochloromethane	ND	40	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	60
1,2-Dibromoethane	ND	200	ug/kg	9.9
1,2-Dichlorobenzene	ND	80	ug/kg	17
1,3-Dichlorobenzene	ND	80	ug/kg	7.2
1,4-Dichlorobenzene	ND	80	ug/kg	7.9
Dichlorodifluoromethane	ND	80	ug/kg	5.4
1,1-Dichloroethane	ND	40	ug/kg	7.3
1,2-Dichloroethane	ND	40	ug/kg	9.3
1,1-Dichloroethene	ND	40	ug/kg	8.3
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.4
cis-1,3-Dichloropropene	ND	40	ug/kg	5.5
trans-1,3-Dichloropropene	ND	40	ug/kg	5.4
Ethylbenzene	ND	40	ug/kg	6.8
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.1
Methyl acetate	ND	960	ug/kg	52
Methylene chloride	ND	200	ug/kg	99
Methylcyclohexane	ND	960	ug/kg	5.7
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-478

GC/MS Volatiles

Lot-Sample #....: A5G130319-070 Work Order #....: HFENP1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	8.2
Tetrachloroethene	ND	40	ug/kg	9.0
Toluene	ND	80	ug/kg	9.1
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.5
1,1,2-Trichloroethane	ND	40	ug/kg	9.9
Trichloroethene	49	40	ug/kg	12
Trichlorofluoromethane	ND	80	ug/kg	8.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	80	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	77	(59 - 138)		
1,2-Dichloroethane-d4	95	(61 - 130)		
Toluene-d8	95	(60 - 143)		
4-Bromofluorobenzene	94	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-479

GC/MS Volatiles

Lot-Sample #....: A5G130319-071 Work Order #....: HFENR1AC Matrix.....: SO
 Date Sampled....: 07/12/05 09:22 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/21/05
 Prep Batch #....: 5202495
 Dilution Factor: 1.19
 % Moisture.....: 3.6 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	400 J,B	710	ug/kg	120
Benzene	ND	48	ug/kg	7.6
Bromodichloromethane	ND	95	ug/kg	14
Bromoform	ND	95	ug/kg	15
Bromomethane	ND	240	ug/kg	30
2-Butanone	ND	710	ug/kg	58
Carbon disulfide	ND	240	ug/kg	24
Carbon tetrachloride	ND	48	ug/kg	14
Chlorobenzene	ND	48	ug/kg	7.5
Chloroethane	ND	240	ug/kg	77
Chloroform	ND	48	ug/kg	14
Chloromethane	ND	240	ug/kg	6.2
Cyclohexane	ND	1100	ug/kg	9.2
Dibromochloromethane	ND	48	ug/kg	8.2
1,2-Dibromo-3-chloro- propane	ND	240	ug/kg	71
1,2-Dibromoethane	ND	240	ug/kg	12
1,2-Dichlorobenzene	ND	95	ug/kg	20
1,3-Dichlorobenzene	ND	95	ug/kg	8.6
1,4-Dichlorobenzene	ND	95	ug/kg	9.4
Dichlorodifluoromethane	ND	95	ug/kg	6.4
1,1-Dichloroethane	ND	48	ug/kg	8.7
1,2-Dichloroethane	ND	48	ug/kg	11
1,1-Dichloroethene	ND	48	ug/kg	9.9
cis-1,2-Dichloroethene	ND	48	ug/kg	17
trans-1,2-Dichloroethene	ND	48	ug/kg	13
1,2-Dichloropropane	ND	48	ug/kg	8.8
cis-1,3-Dichloropropene	ND	48	ug/kg	6.5
trans-1,3-Dichloropropene	ND	48	ug/kg	6.4
Ethylbenzene	ND	48	ug/kg	8.1
2-Hexanone	ND	2400	ug/kg	29
Isopropylbenzene	ND	240	ug/kg	6.1
Methyl acetate	ND	1100	ug/kg	62
Methylene chloride	ND	240	ug/kg	120
Methylcyclohexane	ND	1100	ug/kg	6.8
4-Methyl-2-pentanone	ND	2400	ug/kg	13
Methyl tert-butyl ether	ND	240	ug/kg	12
Styrene	ND	48	ug/kg	33

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-479

GC/MS Volatiles

Lot-Sample #....: A5G130319-071 Work Order #....: HFENR1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	95	ug/kg	9.8
Tetrachloroethene	ND	48	ug/kg	11
Toluene	ND	95	ug/kg	11
1,2,4-Trichloro- benzene	ND	240	ug/kg	14
1,1,1-Trichloroethane	ND	48	ug/kg	11
1,1,2-Trichloroethane	ND	48	ug/kg	12
Trichloroethene	170	48	ug/kg	14
Trichlorofluoromethane	ND	95	ug/kg	9.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	240	ug/kg	12
Vinyl chloride	ND	95	ug/kg	19
Xylenes (total)	ND	140	ug/kg	18
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	72	(59 - 138)		
1,2-Dichloroethane-d4	88	(61 - 130)		
Toluene-d8	92	(60 - 143)		
4-Bromofluorobenzene	87	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-480

GC/MS Volatiles

Lot-Sample #....: A5G130319-072 Work Order #....: HFENV1AC Matrix.....: SO
 Date Sampled....: 07/12/05 09:25 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/21/05
 Prep Batch #....: 5202495
 Dilution Factor: 0.92
 % Moisture.....: 4.3 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	280 J,B	550	ug/kg	91
Benzene	ND	37	ug/kg	5.9
Bromodichloromethane	ND	74	ug/kg	11
Bromoform	ND	74	ug/kg	12
Bromomethane	ND	180	ug/kg	23
2-Butanone	ND	550	ug/kg	45
Carbon disulfide	ND	180	ug/kg	18
Carbon tetrachloride	ND	37	ug/kg	11
Chlorobenzene	ND	37	ug/kg	5.8
Chloroethane	ND	180	ug/kg	60
Chloroform	ND	37	ug/kg	11
Chloromethane	ND	180	ug/kg	4.8
Cyclohexane	ND	880	ug/kg	7.1
Dibromochloromethane	ND	37	ug/kg	6.3
1,2-Dibromo-3-chloro- propane	ND	180	ug/kg	55
1,2-Dibromoethane	ND	180	ug/kg	9.1
1,2-Dichlorobenzene	ND	74	ug/kg	16
1,3-Dichlorobenzene	ND	74	ug/kg	6.6
1,4-Dichlorobenzene	ND	74	ug/kg	7.3
Dichlorodifluoromethane	ND	74	ug/kg	5.0
1,1-Dichloroethane	ND	37	ug/kg	6.7
1,2-Dichloroethane	ND	37	ug/kg	8.6
1,1-Dichloroethene	ND	37	ug/kg	7.6
cis-1,2-Dichloroethene	ND	37	ug/kg	13
trans-1,2-Dichloroethene	ND	37	ug/kg	10
1,2-Dichloropropane	ND	37	ug/kg	6.8
cis-1,3-Dichloropropene	ND	37	ug/kg	5.1
trans-1,3-Dichloropropene	ND	37	ug/kg	5.0
Ethylbenzene	ND	37	ug/kg	6.3
2-Hexanone	ND	1800	ug/kg	22
Isopropylbenzene	ND	180	ug/kg	4.7
Methyl acetate	ND	880	ug/kg	48
Methylene chloride	ND	180	ug/kg	91
Methylcyclohexane	ND	880	ug/kg	5.2
4-Methyl-2-pentanone	ND	1800	ug/kg	10
Methyl tert-butyl ether	ND	180	ug/kg	9.2
Styrene	ND	37	ug/kg	26

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-480

GC/MS Volatiles

Lot-Sample #....: A5G130319-072 Work Order #....: HFENV1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	74	ug/kg	7.5
Tetrachloroethene	ND	37	ug/kg	8.3
Toluene	ND	74	ug/kg	8.4
1,2,4-Trichloro- benzene	ND	180	ug/kg	11
1,1,1-Trichloroethane	ND	37	ug/kg	8.7
1,1,2-Trichloroethane	ND	37	ug/kg	9.1
Trichloroethene	63	37	ug/kg	11
Trichlorofluoromethane	ND	74	ug/kg	7.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	180	ug/kg	9.2
Vinyl chloride	ND	74	ug/kg	15
Xylenes (total)	ND	110	ug/kg	14

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	76	(59 - 138)
1,2-Dichloroethane-d4	92	(61 - 130)
Toluene-d8	95	(60 - 143)
4-Bromofluorobenzene	90	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-481

GC/MS Volatiles

Lot-Sample #....: A5G130319-073 Work Order #....: HFENX1AC Matrix.....: SO
 Date Sampled....: 07/12/05 09:35 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/21/05
 Prep Batch #....: 5202495
 Dilution Factor: 0.92
 % Moisture.....: 5.1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	380 J,B	550	ug/kg	91
Benzene	ND	37	ug/kg	5.9
Bromodichloromethane	ND	74	ug/kg	11
Bromoform	ND	74	ug/kg	12
Bromomethane	ND	180	ug/kg	23
2-Butanone	ND	550	ug/kg	45
Carbon disulfide	ND	180	ug/kg	18
Carbon tetrachloride	ND	37	ug/kg	11
Chlorobenzene	ND	37	ug/kg	5.8
Chloroethane	ND	180	ug/kg	60
Chloroform	ND	37	ug/kg	11
Chloromethane	5.3 J,B	180	ug/kg	4.8
Cyclohexane	10 J	880	ug/kg	7.1
Dibromochloromethane	ND	37	ug/kg	6.3
1,2-Dibromo-3-chloro- propane	ND	180	ug/kg	55
1,2-Dibromoethane	ND	180	ug/kg	9.1
1,2-Dichlorobenzene	ND	74	ug/kg	16
1,3-Dichlorobenzene	ND	74	ug/kg	6.6
1,4-Dichlorobenzene	ND	74	ug/kg	7.3
Dichlorodifluoromethane	ND	74	ug/kg	5.0
1,1-Dichloroethane	ND	37	ug/kg	6.7
1,2-Dichloroethane	ND	37	ug/kg	8.6
1,1-Dichloroethene	ND	37	ug/kg	7.6
cis-1,2-Dichloroethene	ND	37	ug/kg	13
trans-1,2-Dichloroethene	ND	37	ug/kg	10
1,2-Dichloropropane	ND	37	ug/kg	6.8
cis-1,3-Dichloropropene	ND	37	ug/kg	5.1
trans-1,3-Dichloropropene	ND	37	ug/kg	5.0
Ethylbenzene	ND	37	ug/kg	6.3
2-Hexanone	ND	1800	ug/kg	22
Isopropylbenzene	ND	180	ug/kg	4.7
Methyl acetate	76 J	880	ug/kg	48
Methylene chloride	ND	180	ug/kg	91
Methylcyclohexane	31 J	880	ug/kg	5.2
4-Methyl-2-pentanone	ND	1800	ug/kg	10
Methyl tert-butyl ether	ND	180	ug/kg	9.2
Styrene	ND	37	ug/kg	26

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-481

GC/MS Volatiles

Lot-Sample #....: A5G130319-073 Work Order #....: HFENX1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	74	ug/kg	7.5
Tetrachloroethene	ND	37	ug/kg	8.3
Toluene	12 J	74	ug/kg	8.4
1,2,4-Trichloro- benzene	ND	180	ug/kg	11
1,1,1-Trichloroethane	ND	37	ug/kg	8.7
1,1,2-Trichloroethane	ND	37	ug/kg	9.1
Trichloroethene	540	37	ug/kg	11
Trichlorofluoromethane	ND	74	ug/kg	7.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	180	ug/kg	9.2
Vinyl chloride	ND	74	ug/kg	15
Xylenes (total)	27 J	110	ug/kg	14
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	72	(59 - 138)		
1,2-Dichloroethane-d4	84	(61 - 130)		
Toluene-d8	86	(60 - 143)		
4-Bromofluorobenzene	83	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-482

GC/MS Volatiles

Lot-Sample #....: A5G130319-074 Work Order #....: HFEN01AC Matrix.....: SO
 Date Sampled....: 07/12/05 09:37 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/21/05
 Prep Batch #....: 5202495
 Dilution Factor: 0.94
 % Moisture.....: 3.1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	340 J,B	560	ug/kg	93
Benzene	ND	38	ug/kg	6.0
Bromodichloromethane	ND	75	ug/kg	11
Bromoform	ND	75	ug/kg	12
Bromomethane	ND	190	ug/kg	24
2-Butanone	ND	560	ug/kg	46
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	38	ug/kg	11
Chlorobenzene	ND	38	ug/kg	5.9
Chloroethane	ND	190	ug/kg	61
Chloroform	ND	38	ug/kg	11
Chloromethane	5.7 J,B	190	ug/kg	4.9
Cyclohexane	ND	900	ug/kg	7.2
Dibromochloromethane	ND	38	ug/kg	6.5
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	56
1,2-Dibromoethane	ND	190	ug/kg	9.3
1,2-Dichlorobenzene	ND	75	ug/kg	16
1,3-Dichlorobenzene	ND	75	ug/kg	6.8
1,4-Dichlorobenzene	ND	75	ug/kg	7.4
Dichlorodifluoromethane	ND	75	ug/kg	5.1
1,1-Dichloroethane	ND	38	ug/kg	6.9
1,2-Dichloroethane	ND	38	ug/kg	8.7
1,1-Dichloroethene	ND	38	ug/kg	7.8
cis-1,2-Dichloroethene	ND	38	ug/kg	13
trans-1,2-Dichloroethene	ND	38	ug/kg	10
1,2-Dichloropropane	ND	38	ug/kg	7.0
cis-1,3-Dichloropropene	ND	38	ug/kg	5.2
trans-1,3-Dichloropropene	ND	38	ug/kg	5.1
Ethylbenzene	ND	38	ug/kg	6.4
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.8
Methyl acetate	ND	900	ug/kg	49
Methylene chloride	ND	190	ug/kg	93
Methylcyclohexane	ND	900	ug/kg	5.4
4-Methyl-2-pentanone	ND	1900	ug/kg	10
Methyl tert-butyl ether	ND	190	ug/kg	9.4
Styrene	ND	38	ug/kg	26

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-482

GC/MS Volatiles

Lot-Sample #....: A5G130319-074 Work Order #....: HFEN01AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	75	ug/kg	7.7
Tetrachloroethene	ND	38	ug/kg	8.5
Toluene	ND	75	ug/kg	8.6
1,2,4-Trichloro- benzene	ND	190	ug/kg	11
1,1,1-Trichloroethane	ND	38	ug/kg	8.9
1,1,2-Trichloroethane	ND	38	ug/kg	9.3
Trichloroethene	ND	38	ug/kg	11
Trichlorofluoromethane	ND	75	ug/kg	7.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.4
Vinyl chloride	ND	75	ug/kg	15
Xylenes (total)	ND	110	ug/kg	14

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	77	(59 - 138)
1,2-Dichloroethane-d4	91	(61 - 130)
Toluene-d8	93	(60 - 143)
4-Bromofluorobenzene	89	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-483

GC/MS Volatiles

Lot-Sample #....: A5G130319-075 Work Order #....: HFEN21AC Matrix.....: SO
 Date Sampled....: 07/12/05 09:40 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/21/05
 Prep Batch #....: 5202495
 Dilution Factor: 1.03
 % Moisture.....: 2.6 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	370 J,B	620	ug/kg	100
Benzene	ND	41	ug/kg	6.6
Bromodichloromethane	ND	82	ug/kg	12
Bromoform	ND	82	ug/kg	13
Bromomethane	ND	210	ug/kg	26
2-Butanone	ND	620	ug/kg	50
Carbon disulfide	ND	210	ug/kg	21
Carbon tetrachloride	ND	41	ug/kg	12
Chlorobenzene	ND	41	ug/kg	6.5
Chloroethane	ND	210	ug/kg	67
Chloroform	ND	41	ug/kg	12
Chloromethane	6.0 J,B	210	ug/kg	5.4
Cyclohexane	ND	990	ug/kg	7.9
Dibromochloromethane	ND	41	ug/kg	7.1
1,2-Dibromo-3-chloro- propane	ND	210	ug/kg	62
1,2-Dibromoethane	ND	210	ug/kg	10
1,2-Dichlorobenzene	ND	82	ug/kg	18
1,3-Dichlorobenzene	ND	82	ug/kg	7.4
1,4-Dichlorobenzene	ND	82	ug/kg	8.1
Dichlorodifluoromethane	ND	82	ug/kg	5.6
1,1-Dichloroethane	ND	41	ug/kg	7.5
1,2-Dichloroethane	ND	41	ug/kg	9.6
1,1-Dichloroethene	ND	41	ug/kg	8.5
cis-1,2-Dichloroethene	ND	41	ug/kg	14
trans-1,2-Dichloroethene	ND	41	ug/kg	11
1,2-Dichloropropane	ND	41	ug/kg	7.6
cis-1,3-Dichloropropene	ND	41	ug/kg	5.7
trans-1,3-Dichloropropene	ND	41	ug/kg	5.6
Ethylbenzene	ND	41	ug/kg	7.0
2-Hexanone	ND	2100	ug/kg	25
Isopropylbenzene	ND	210	ug/kg	5.3
Methyl acetate	ND	990	ug/kg	54
Methylene chloride	ND	210	ug/kg	100
Methylcyclohexane	ND	990	ug/kg	5.9
4-Methyl-2-pentanone	ND	2100	ug/kg	11
Methyl tert-butyl ether	ND	210	ug/kg	10
Styrene	ND	41	ug/kg	29

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-483

GC/MS Volatiles

Lot-Sample #....: A5G130319-075 Work Order #....: HFEN21AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	82	ug/kg	8.4
Tetrachloroethene	ND	41	ug/kg	9.3
Toluene	ND	82	ug/kg	9.4
1,2,4-Trichloro- benzene	ND	210	ug/kg	12
1,1,1-Trichloroethane	ND	41	ug/kg	9.8
1,1,2-Trichloroethane	ND	41	ug/kg	10
Trichloroethene	ND	41	ug/kg	12
Trichlorofluoromethane	ND	82	ug/kg	8.5
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	210	ug/kg	10
Vinyl chloride	ND	82	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	74	(59 - 138)		
1,2-Dichloroethane-d4	88	(61 - 130)		
Toluene-d8	90	(60 - 143)		
4-Bromofluorobenzene	86	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-484

GC/MS Volatiles

Lot-Sample #....: A5G130319-076 Work Order #....: HFEN31AC Matrix.....: SO
 Date Sampled....: 07/12/05 09:42 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/21/05
 Prep Batch #....: 5202495
 Dilution Factor: 0.95
 % Moisture.....: 2.6 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	350 J,B	570	ug/kg	94
Benzene	ND	38	ug/kg	6.1
Bromodichloromethane	ND	76	ug/kg	11
Bromoform	ND	76	ug/kg	12
Bromomethane	ND	190	ug/kg	24
2-Butanone	ND	570	ug/kg	47
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	38	ug/kg	11
Chlorobenzene	ND	38	ug/kg	6.0
Chloroethane	ND	190	ug/kg	62
Chloroform	ND	38	ug/kg	11
Chloromethane	5.4 J,B	190	ug/kg	4.9
Cyclohexane	ND	910	ug/kg	7.3
Dibromochloromethane	ND	38	ug/kg	6.6
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	57
1,2-Dibromoethane	ND	190	ug/kg	9.4
1,2-Dichlorobenzene	ND	76	ug/kg	16
1,3-Dichlorobenzene	ND	76	ug/kg	6.8
1,4-Dichlorobenzene	ND	76	ug/kg	7.5
Dichlorodifluoromethane	ND	76	ug/kg	5.1
1,1-Dichloroethane	ND	38	ug/kg	6.9
1,2-Dichloroethane	ND	38	ug/kg	8.8
1,1-Dichloroethene	ND	38	ug/kg	7.9
cis-1,2-Dichloroethene	ND	38	ug/kg	13
trans-1,2-Dichloroethene	ND	38	ug/kg	10
1,2-Dichloropropane	ND	38	ug/kg	7.0
cis-1,3-Dichloropropene	ND	38	ug/kg	5.2
trans-1,3-Dichloropropene	ND	38	ug/kg	5.1
Ethylbenzene	ND	38	ug/kg	6.5
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.8
Methyl acetate	ND	910	ug/kg	49
Methylene chloride	ND	190	ug/kg	94
Methylcyclohexane	ND	910	ug/kg	5.4
4-Methyl-2-pentanone	ND	1900	ug/kg	10
Methyl tert-butyl ether	ND	190	ug/kg	9.5
Styrene	ND	38	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-484

GC/MS Volatiles

Lot-Sample #....: A5G130319-076 Work Order #....: HFEN31AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	76	ug/kg	7.8
Tetrachloroethene	ND	38	ug/kg	8.6
Toluene	ND	76	ug/kg	8.6
1,2,4-Trichloro- benzene	ND	190	ug/kg	11
1,1,1-Trichloroethane	ND	38	ug/kg	9.0
1,1,2-Trichloroethane	ND	38	ug/kg	9.4
Trichloroethene	ND	38	ug/kg	11
Trichlorofluoromethane	ND	76	ug/kg	7.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.5
Vinyl chloride	ND	76	ug/kg	15
Xylenes (total)	ND	110	ug/kg	14
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	71	(59 - 138)		
1,2-Dichloroethane-d4	87	(61 - 130)		
Toluene-d8	89	(60 - 143)		
4-Bromofluorobenzene	83	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-485

GC/MS Volatiles

Lot-Sample #....: A5G130319-077 Work Order #....: HFEN41AC Matrix.....: SO
 Date Sampled....: 07/12/05 09:45 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/21/05
 Prep Batch #....: 5202495
 Dilution Factor: 0.95
 % Moisture.....: 4.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	370 J,B	570	ug/kg	94
Benzene	ND	38	ug/kg	6.1
Bromodichloromethane	ND	76	ug/kg	11
Bromoform	ND	76	ug/kg	12
Bromomethane	ND	190	ug/kg	24
2-Butanone	ND	570	ug/kg	47
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	38	ug/kg	11
Chlorobenzene	ND	38	ug/kg	6.0
Chloroethane	ND	190	ug/kg	62
Chloroform	ND	38	ug/kg	11
Chloromethane	ND	190	ug/kg	4.9
Cyclohexane	ND	910	ug/kg	7.3
Dibromochloromethane	ND	38	ug/kg	6.6
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	57
1,2-Dibromoethane	ND	190	ug/kg	9.4
1,2-Dichlorobenzene	ND	76	ug/kg	16
1,3-Dichlorobenzene	ND	76	ug/kg	6.8
1,4-Dichlorobenzene	ND	76	ug/kg	7.5
Dichlorodifluoromethane	ND	76	ug/kg	5.1
1,1-Dichloroethane	ND	38	ug/kg	6.9
1,2-Dichloroethane	ND	38	ug/kg	8.8
1,1-Dichloroethene	ND	38	ug/kg	7.9
cis-1,2-Dichloroethene	ND	38	ug/kg	13
trans-1,2-Dichloroethene	ND	38	ug/kg	10
1,2-Dichloropropane	ND	38	ug/kg	7.0
cis-1,3-Dichloropropene	ND	38	ug/kg	5.2
trans-1,3-Dichloropropene	ND	38	ug/kg	5.1
Ethylbenzene	ND	38	ug/kg	6.5
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.8
Methyl acetate	ND	910	ug/kg	49
Methylene chloride	ND	190	ug/kg	94
Methylcyclohexane	ND	910	ug/kg	5.4
4-Methyl-2-pentanone	ND	1900	ug/kg	10
Methyl tert-butyl ether	ND	190	ug/kg	9.5
Styrene	ND	38	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-485

GC/MS Volatiles

Lot-Sample #....: A5G130319-077 Work Order #....: HFEN41AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	76	ug/kg	7.8
Tetrachloroethene	ND	38	ug/kg	8.6
Toluene	ND	76	ug/kg	8.6
1,2,4-Trichloro- benzene	ND	190	ug/kg	11
1,1,1-Trichloroethane	ND	38	ug/kg	9.0
1,1,2-Trichloroethane	ND	38	ug/kg	9.4
Trichloroethene	ND	38	ug/kg	11
Trichlorofluoromethane	ND	76	ug/kg	7.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.5
Vinyl chloride	ND	76	ug/kg	15
Xylenes (total)	ND	110	ug/kg	14
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	77	(59 - 138)		
1,2-Dichloroethane-d4	92	(61 - 130)		
Toluene-d8	92	(60 - 143)		
4-Bromofluorobenzene	90	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-486

GC/MS Volatiles

Lot-Sample #....: A5G130319-078 Work Order #....: HFEN51AC Matrix.....: SO
 Date Sampled....: 07/12/05 09:50 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/21/05
 Prep Batch #....: 5202495
 Dilution Factor: 1.02
 % Moisture.....: 1.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	360 J,B	610	ug/kg	100
Benzene	ND	41	ug/kg	6.5
Bromodichloromethane	ND	82	ug/kg	12
Bromoform	ND	82	ug/kg	13
Bromomethane	ND	200	ug/kg	26
2-Butanone	ND	610	ug/kg	50
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	41	ug/kg	12
Chlorobenzene	ND	41	ug/kg	6.4
Chloroethane	ND	200	ug/kg	66
Chloroform	ND	41	ug/kg	12
Chloromethane	6.6 J,B	200	ug/kg	5.3
Cyclohexane	ND	980	ug/kg	7.9
Dibromochloromethane	ND	41	ug/kg	7.0
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	61
1,2-Dibromoethane	ND	200	ug/kg	10
1,2-Dichlorobenzene	ND	82	ug/kg	17
1,3-Dichlorobenzene	ND	82	ug/kg	7.3
1,4-Dichlorobenzene	ND	82	ug/kg	8.1
Dichlorodifluoromethane	ND	82	ug/kg	5.5
1,1-Dichloroethane	ND	41	ug/kg	7.4
1,2-Dichloroethane	ND	41	ug/kg	9.5
1,1-Dichloroethene	ND	41	ug/kg	8.5
cis-1,2-Dichloroethene	ND	41	ug/kg	14
trans-1,2-Dichloroethene	ND	41	ug/kg	11
1,2-Dichloropropane	ND	41	ug/kg	7.5
cis-1,3-Dichloropropene	ND	41	ug/kg	5.6
trans-1,3-Dichloropropene	ND	41	ug/kg	5.5
Ethylbenzene	ND	41	ug/kg	6.9
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.2
Methyl acetate	ND	980	ug/kg	53
Methylene chloride	ND	200	ug/kg	100
Methylcyclohexane	ND	980	ug/kg	5.8
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	41	ug/kg	29

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-486

GC/MS Volatiles

Lot-Sample #....: A5G130319-078 Work Order #....: HFEN51AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	82	ug/kg	8.4
Tetrachloroethene	ND	41	ug/kg	9.2
Toluene	ND	82	ug/kg	9.3
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	41	ug/kg	9.7
1,1,2-Trichloroethane	ND	41	ug/kg	10
Trichloroethene	29 J	41	ug/kg	12
Trichlorofluoromethane	ND	82	ug/kg	8.5
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	82	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	76	(59 - 138)		
1,2-Dichloroethane-d4	91	(61 - 130)		
Toluene-d8	93	(60 - 143)		
4-Bromofluorobenzene	88	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-487

GC/MS Volatiles

Lot-Sample #....: A5G130319-079 Work Order #....: HFEN71AC Matrix.....: SO
 Date Sampled....: 07/12/05 09:52 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/21/05
 Prep Batch #....: 5203323
 Dilution Factor: 0.99
 % Moisture.....: 2.3 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	280 J,B	590	ug/kg	98
Benzene	ND	40	ug/kg	6.3
Bromodichloromethane	ND	79	ug/kg	12
Bromoform	ND	79	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	590	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.2
Chloroethane	ND	200	ug/kg	64
Chloroform	ND	40	ug/kg	12
Chloromethane	ND	200	ug/kg	5.1
Cyclohexane	ND	950	ug/kg	7.6
Dibromochloromethane	ND	40	ug/kg	6.8
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	59
1,2-Dibromoethane	ND	200	ug/kg	9.8
1,2-Dichlorobenzene	ND	79	ug/kg	17
1,3-Dichlorobenzene	ND	79	ug/kg	7.1
1,4-Dichlorobenzene	ND	79	ug/kg	7.8
Dichlorodifluoromethane	ND	79	ug/kg	5.3
1,1-Dichloroethane	ND	40	ug/kg	7.2
1,2-Dichloroethane	ND	40	ug/kg	9.2
1,1-Dichloroethene	ND	40	ug/kg	8.2
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.3
cis-1,3-Dichloropropene	ND	40	ug/kg	5.4
trans-1,3-Dichloropropene	ND	40	ug/kg	5.3
Ethylbenzene	ND	40	ug/kg	6.7
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.0
Methyl acetate	ND	950	ug/kg	51
Methylene chloride	ND	200	ug/kg	98
Methylcyclohexane	ND	950	ug/kg	5.6
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	9.9
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-487

GC/MS Volatiles

Lot-Sample #....: A5G130319-079 Work Order #....: HFEN71AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	79	ug/kg	8.1
Tetrachloroethene	ND	40	ug/kg	8.9
Toluene	ND	79	ug/kg	9.0
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.4
1,1,2-Trichloroethane	ND	40	ug/kg	9.8
Trichloroethene	30 J	40	ug/kg	12
Trichlorofluoromethane	ND	79	ug/kg	8.2
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	9.9
Vinyl chloride	ND	79	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	79	(59 - 138)		
1,2-Dichloroethane-d4	83	(61 - 130)		
Toluene-d8	91	(60 - 143)		
4-Bromofluorobenzene	82	(47 - 158)		

NOTE(S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-488

GC/MS Volatiles

Lot-Sample #....: A5G130319-080 Work Order #....: HFEN81AC Matrix.....: SO
 Date Sampled...: 07/12/05 09:55 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/21/05
 Prep Batch #....: 5203323
 Dilution Factor: 1
 % Moisture.....: 8.9 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	290 J,B	600	ug/kg	99
Benzene	ND	40	ug/kg	6.4
Bromodichloromethane	ND	80	ug/kg	12
Bromoform	ND	80	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	600	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.3
Chloroethane	ND	200	ug/kg	65
Chloroform	ND	40	ug/kg	12
Chloromethane	8.2 J,B	200	ug/kg	5.2
Cyclohexane	ND	960	ug/kg	7.7
Dibromochloromethane	ND	40	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	60
1,2-Dibromoethane	ND	200	ug/kg	9.9
1,2-Dichlorobenzene	ND	80	ug/kg	17
1,3-Dichlorobenzene	ND	80	ug/kg	7.2
1,4-Dichlorobenzene	ND	80	ug/kg	7.9
Dichlorodifluoromethane	ND	80	ug/kg	5.4
1,1-Dichloroethane	ND	40	ug/kg	7.3
1,2-Dichloroethane	ND	40	ug/kg	9.3
1,1-Dichloroethene	ND	40	ug/kg	8.3
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.4
cis-1,3-Dichloropropene	ND	40	ug/kg	5.5
trans-1,3-Dichloropropene	ND	40	ug/kg	5.4
Ethylbenzene	ND	40	ug/kg	6.8
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.1
Methyl acetate	ND	960	ug/kg	52
Methylene chloride	ND	200	ug/kg	99
Methylcyclohexane	ND	960	ug/kg	5.7
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-488

GC/MS Volatiles

Lot-Sample #....: A5G130319-080 Work Order #....: HFEN81AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	8.2
Tetrachloroethene	ND	40	ug/kg	9.0
Toluene	ND	80	ug/kg	9.1
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.5
1,1,2-Trichloroethane	ND	40	ug/kg	9.9
Trichloroethene	16 J	40	ug/kg	12
Trichlorofluoromethane	ND	80	ug/kg	8.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	80	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	85	(59 - 138)		
1,2-Dichloroethane-d4	91	(61 - 130)		
Toluene-d8	100	(60 - 143)		
4-Bromofluorobenzene	91	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-489

GC/MS Volatiles

Lot-Sample #....: A5G130319-081 Work Order #....: HFEPAlAC Matrix.....: SO
 Date Sampled....: 07/12/05 09:57 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/21/05
 Prep Batch #....: 5203323
 Dilution Factor: 0.99
 % Moisture.....: 2.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	340 J,B	590	ug/kg	98
Benzene	ND	40	ug/kg	6.3
Bromodichloromethane	ND	79	ug/kg	12
Bromoform	ND	79	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	590	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.2
Chloroethane	ND	200	ug/kg	64
Chloroform	ND	40	ug/kg	12
Chloromethane	7.0 J,B	200	ug/kg	5.1
Cyclohexane	ND	950	ug/kg	7.6
Dibromochloromethane	ND	40	ug/kg	6.8
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	59
1,2-Dibromoethane	ND	200	ug/kg	9.8
1,2-Dichlorobenzene	ND	79	ug/kg	17
1,3-Dichlorobenzene	ND	79	ug/kg	7.1
1,4-Dichlorobenzene	ND	79	ug/kg	7.8
Dichlorodifluoromethane	ND	79	ug/kg	5.3
1,1-Dichloroethane	ND	40	ug/kg	7.2
1,2-Dichloroethane	ND	40	ug/kg	9.2
1,1-Dichloroethene	ND	40	ug/kg	8.2
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.3
cis-1,3-Dichloropropene	ND	40	ug/kg	5.4
trans-1,3-Dichloropropene	ND	40	ug/kg	5.3
Ethylbenzene	ND	40	ug/kg	6.7
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.0
Methyl acetate	ND	950	ug/kg	51
Methylene chloride	ND	200	ug/kg	98
Methylcyclohexane	ND	950	ug/kg	5.6
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	9.9
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-489

GC/MS Volatiles

Lot-Sample #....: A5G130319-081 Work Order #....: HFEP1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	79	ug/kg	8.1
Tetrachloroethene	ND	40	ug/kg	8.9
Toluene	ND	79	ug/kg	9.0
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.4
1,1,2-Trichloroethane	ND	40	ug/kg	9.8
Trichloroethene	21 J	40	ug/kg	12
Trichlorofluoromethane	ND	79	ug/kg	8.2
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	9.9
Vinyl chloride	ND	79	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	76	(59 - 138)		
1,2-Dichloroethane-d4	82	(61 - 130)		
Toluene-d8	92	(60 - 143)		
4-Bromofluorobenzene	81	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-490

GC/MS Volatiles

Lot-Sample #....: A5G130319-082 Work Order #....: HFEPCLAC Matrix.....: SO
 Date Sampled....: 07/12/05 10:00 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/21/05
 Prep Batch #....: 5203323
 Dilution Factor: 1.03
 % Moisture.....: 2.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	310 J,B	620	ug/kg	100
Benzene	ND	41	ug/kg	6.6
Bromodichloromethane	ND	82	ug/kg	12
Bromoform	ND	82	ug/kg	13
Bromomethane	ND	210	ug/kg	26
2-Butanone	ND	620	ug/kg	50
Carbon disulfide	ND	210	ug/kg	21
Carbon tetrachloride	ND	41	ug/kg	12
Chlorobenzene	ND	41	ug/kg	6.5
Chloroethane	ND	210	ug/kg	67
Chloroform	ND	41	ug/kg	12
Chloromethane	8.2 J,B	210	ug/kg	5.4
Cyclohexane	ND	990	ug/kg	7.9
Dibromochloromethane	ND	41	ug/kg	7.1
1,2-Dibromo-3-chloro- propane	ND	210	ug/kg	62
1,2-Dibromoethane	ND	210	ug/kg	10
1,2-Dichlorobenzene	ND	82	ug/kg	18
1,3-Dichlorobenzene	ND	82	ug/kg	7.4
1,4-Dichlorobenzene	ND	82	ug/kg	8.1
Dichlorodifluoromethane	ND	82	ug/kg	5.6
1,1-Dichloroethane	ND	41	ug/kg	7.5
1,2-Dichloroethane	ND	41	ug/kg	9.6
1,1-Dichloroethene	ND	41	ug/kg	8.5
cis-1,2-Dichloroethene	ND	41	ug/kg	14
trans-1,2-Dichloroethene	ND	41	ug/kg	11
1,2-Dichloropropane	ND	41	ug/kg	7.6
cis-1,3-Dichloropropene	ND	41	ug/kg	5.7
trans-1,3-Dichloropropene	ND	41	ug/kg	5.6
Ethylbenzene	ND	41	ug/kg	7.0
2-Hexanone	ND	2100	ug/kg	25
Isopropylbenzene	ND	210	ug/kg	5.3
Methyl acetate	ND	990	ug/kg	54
Methylene chloride	ND	210	ug/kg	100
Methylcyclohexane	ND	990	ug/kg	5.9
4-Methyl-2-pentanone	ND	2100	ug/kg	11
Methyl tert-butyl ether	ND	210	ug/kg	10
Styrene	ND	41	ug/kg	29

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-490

GC/MS Volatiles

Lot-Sample #....: A5G130319-082 Work Order #....: HFEP1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	82	ug/kg	8.4
Tetrachloroethene	ND	41	ug/kg	9.3
Toluene	ND	82	ug/kg	9.4
1,2,4-Trichloro- benzene	ND	210	ug/kg	12
1,1,1-Trichloroethane	ND	41	ug/kg	9.8
1,1,2-Trichloroethane	ND	41	ug/kg	10
Trichloroethene	ND	41	ug/kg	12
Trichlorofluoromethane	ND	82	ug/kg	8.5
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	210	ug/kg	10
Vinyl chloride	ND	82	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	78	(59 - 138)		
1,2-Dichloroethane-d4	87	(61 - 130)		
Toluene-d8	92	(60 - 143)		
4-Bromofluorobenzene	84	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-491

GC/MS Volatiles

Lot-Sample #....: A5G130319-083 Work Order #....: HFEPD1AC Matrix.....: SO
 Date Sampled....: 07/12/05 11:05 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/22/05
 Prep Batch #....: 5203323
 Dilution Factor: 1
 % Moisture.....: 3.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	320 J,B	600	ug/kg	99
Benzene	ND	40	ug/kg	6.4
Bromodichloromethane	ND	80	ug/kg	12
Bromoform	ND	80	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	600	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.3
Chloroethane	ND	200	ug/kg	65
Chloroform	ND	40	ug/kg	12
Chloromethane	ND	200	ug/kg	5.2
Cyclohexane	ND	960	ug/kg	7.7
Dibromochloromethane	ND	40	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	60
1,2-Dibromoethane	ND	200	ug/kg	9.9
1,2-Dichlorobenzene	ND	80	ug/kg	17
1,3-Dichlorobenzene	ND	80	ug/kg	7.2
1,4-Dichlorobenzene	ND	80	ug/kg	7.9
Dichlorodifluoromethane	ND	80	ug/kg	5.4
1,1-Dichloroethane	ND	40	ug/kg	7.3
1,2-Dichloroethane	ND	40	ug/kg	9.3
1,1-Dichloroethene	ND	40	ug/kg	8.3
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.4
cis-1,3-Dichloropropene	ND	40	ug/kg	5.5
trans-1,3-Dichloropropene	ND	40	ug/kg	5.4
Ethylbenzene	ND	40	ug/kg	6.8
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.1
Methyl acetate	ND	960	ug/kg	52
Methylene chloride	ND	200	ug/kg	99
Methylcyclohexane	6.3 J	960	ug/kg	5.7
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-491

GC/MS Volatiles

Lot-Sample #....: A5G130319-083 Work Order #....: HFEPD1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	8.2
Tetrachloroethene	ND	40	ug/kg	9.0
Toluene	ND	80	ug/kg	9.1
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.5
1,1,2-Trichloroethane	ND	40	ug/kg	9.9
Trichloroethene	76	40	ug/kg	12
Trichlorofluoromethane	ND	80	ug/kg	8.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	80	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	81	(59 - 138)
1,2-Dichloroethane-d4	88	(61 - 130)
Toluene-d8	100	(60 - 143)
4-Bromofluorobenzene	92	(47 - 158)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-492

GC/MS Volatiles

Lot-Sample #....: A5G130319-084 Work Order #....: HFEPE1AC Matrix.....: SO
 Date Sampled....: 07/12/05 11:07 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/22/05
 Prep Batch #....: 5203323
 Dilution Factor: 0.95
 % Moisture.....: 1.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	270 J,B	570	ug/kg	94
Benzene	ND	38	ug/kg	6.1
Bromodichloromethane	ND	76	ug/kg	11
Bromoform	ND	76	ug/kg	12
Bromomethane	ND	190	ug/kg	24
2-Butanone	ND	570	ug/kg	47
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	38	ug/kg	11
Chlorobenzene	ND	38	ug/kg	6.0
Chloroethane	ND	190	ug/kg	62
Chloroform	ND	38	ug/kg	11
Chloromethane	6.0 J,B	190	ug/kg	4.9
Cyclohexane	ND	910	ug/kg	7.3
Dibromochloromethane	ND	38	ug/kg	6.6
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	57
1,2-Dibromoethane	ND	190	ug/kg	9.4
1,2-Dichlorobenzene	ND	76	ug/kg	16
1,3-Dichlorobenzene	ND	76	ug/kg	6.8
1,4-Dichlorobenzene	ND	76	ug/kg	7.5
Dichlorodifluoromethane	ND	76	ug/kg	5.1
1,1-Dichloroethane	ND	38	ug/kg	6.9
1,2-Dichloroethane	ND	38	ug/kg	8.8
1,1-Dichloroethene	ND	38	ug/kg	7.9
cis-1,2-Dichloroethene	ND	38	ug/kg	13
trans-1,2-Dichloroethene	ND	38	ug/kg	10
1,2-Dichloropropane	ND	38	ug/kg	7.0
cis-1,3-Dichloropropene	ND	38	ug/kg	5.2
trans-1,3-Dichloropropene	ND	38	ug/kg	5.1
Ethylbenzene	ND	38	ug/kg	6.5
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.8
Methyl acetate	ND	910	ug/kg	49
Methylene chloride	ND	190	ug/kg	94
Methylcyclohexane	ND	910	ug/kg	5.4
4-Methyl-2-pentanone	ND	1900	ug/kg	10
Methyl tert-butyl ether	ND	190	ug/kg	9.5
Styrene	ND	38	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-492

GC/MS Volatiles

Lot-Sample #....: A5G130319-084 Work Order #....: HFEPE1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	76	ug/kg	7.8
Tetrachloroethene	ND	38	ug/kg	8.6
Toluene	ND	76	ug/kg	8.6
1,2,4-Trichloro- benzene	ND	190	ug/kg	11
1,1,1-Trichloroethane	ND	38	ug/kg	9.0
1,1,2-Trichloroethane	ND	38	ug/kg	9.4
Trichloroethene	ND	38	ug/kg	11
Trichlorofluoromethane	ND	76	ug/kg	7.9
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.5
Vinyl chloride	ND	76	ug/kg	15
Xylenes (total)	ND	110	ug/kg	14
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	78	(59 - 138)		
1,2-Dichloroethane-d4	88	(61 - 130)		
Toluene-d8	95	(60 - 143)		
4-Bromofluorobenzene	89	(47 - 158)		

NOTE(S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-493

GC/MS Volatiles

Lot-Sample #....: A5G130319-085 Work Order #....: HFEPF1AC Matrix.....: SO
 Date Sampled....: 07/12/05 11:10 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/22/05
 Prep Batch #....: 5203323
 Dilution Factor: 0.97
 % Moisture.....: 1.1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	290 J,B	580	ug/kg	96
Benzene	ND	39	ug/kg	6.2
Bromodichloromethane	ND	78	ug/kg	12
Bromoform	ND	78	ug/kg	13
Bromomethane	ND	190	ug/kg	24
2-Butanone	ND	580	ug/kg	48
Carbon disulfide	ND	190	ug/kg	19
Carbon tetrachloride	ND	39	ug/kg	12
Chlorobenzene	ND	39	ug/kg	6.1
Chloroethane	ND	190	ug/kg	63
Chloroform	ND	39	ug/kg	12
Chloromethane	ND	190	ug/kg	5.0
Cyclohexane	ND	930	ug/kg	7.5
Dibromochloromethane	ND	39	ug/kg	6.7
1,2-Dibromo-3-chloro- propane	ND	190	ug/kg	58
1,2-Dibromoethane	ND	190	ug/kg	9.6
1,2-Dichlorobenzene	ND	78	ug/kg	16
1,3-Dichlorobenzene	ND	78	ug/kg	7.0
1,4-Dichlorobenzene	ND	78	ug/kg	7.7
Dichlorodifluoromethane	ND	78	ug/kg	5.2
1,1-Dichloroethane	ND	39	ug/kg	7.1
1,2-Dichloroethane	ND	39	ug/kg	9.0
1,1-Dichloroethene	ND	39	ug/kg	8.1
cis-1,2-Dichloroethene	ND	39	ug/kg	14
trans-1,2-Dichloroethene	ND	39	ug/kg	11
1,2-Dichloropropane	ND	39	ug/kg	7.2
cis-1,3-Dichloropropene	ND	39	ug/kg	5.3
trans-1,3-Dichloropropene	ND	39	ug/kg	5.2
Ethylbenzene	ND	39	ug/kg	6.6
2-Hexanone	ND	1900	ug/kg	23
Isopropylbenzene	ND	190	ug/kg	4.9
Methyl acetate	ND	930	ug/kg	50
Methylene chloride	ND	190	ug/kg	96
Methylcyclohexane	ND	930	ug/kg	5.5
4-Methyl-2-pentanone	ND	1900	ug/kg	11
Methyl tert-butyl ether	ND	190	ug/kg	9.7
Styrene	ND	39	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-493

GC/MS Volatiles

Lot-Sample #....: A5G130319-085 Work Order #....: HFEPF1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	78	ug/kg	8.0
Tetrachloroethene	ND	39	ug/kg	8.7
Toluene	ND	78	ug/kg	8.8
1,2,4-Trichloro- benzene	ND	190	ug/kg	12
1,1,1-Trichloroethane	ND	39	ug/kg	9.2
1,1,2-Trichloroethane	ND	39	ug/kg	9.6
Trichloroethene	ND	39	ug/kg	12
Trichlorofluoromethane	ND	78	ug/kg	8.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	190	ug/kg	9.7
Vinyl chloride	ND	78	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	76	(59 - 138)		
1,2-Dichloroethane-d4	84	(61 - 130)		
Toluene-d8	92	(60 - 143)		
4-Bromofluorobenzene	84	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-494

GC/MS Volatiles

Lot-Sample #....: A5G130319-086 Work Order #....: HFEPG1AC Matrix.....: SO
 Date Sampled....: 07/12/05 11:12 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/22/05
 Prep Batch #....: 5203323
 Dilution Factor: 0.99
 % Moisture.....: 2.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	320 J,B	590	ug/kg	98
Benzene	ND	40	ug/kg	6.3
Bromodichloromethane	ND	79	ug/kg	12
Bromoform	ND	79	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	590	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.2
Chloroethane	ND	200	ug/kg	64
Chloroform	ND	40	ug/kg	12
Chloromethane	ND	200	ug/kg	5.1
Cyclohexane	ND	950	ug/kg	7.6
Dibromochloromethane	ND	40	ug/kg	6.8
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	59
1,2-Dibromoethane	ND	200	ug/kg	9.8
1,2-Dichlorobenzene	ND	79	ug/kg	17
1,3-Dichlorobenzene	ND	79	ug/kg	7.1
1,4-Dichlorobenzene	ND	79	ug/kg	7.8
Dichlorodifluoromethane	ND	79	ug/kg	5.3
1,1-Dichloroethane	ND	40	ug/kg	7.2
1,2-Dichloroethane	ND	40	ug/kg	9.2
1,1-Dichloroethene	ND	40	ug/kg	8.2
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.3
cis-1,3-Dichloropropene	ND	40	ug/kg	5.4
trans-1,3-Dichloropropene	ND	40	ug/kg	5.3
Ethylbenzene	ND	40	ug/kg	6.7
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.0
Methyl acetate	ND	950	ug/kg	51
Methylene chloride	ND	200	ug/kg	98
Methylcyclohexane	ND	950	ug/kg	5.6
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	9.9
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-494

GC/MS Volatiles

Lot-Sample #....: A5G130319-086 Work Order #....: HFEPG1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	79	ug/kg	8.1
Tetrachloroethene	ND	40	ug/kg	8.9
Toluene	ND	79	ug/kg	9.0
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.4
1,1,2-Trichloroethane	ND	40	ug/kg	9.8
Trichloroethene	ND	40	ug/kg	12
Trichlorofluoromethane	ND	79	ug/kg	8.2
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	9.9
Vinyl chloride	ND	79	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	74	(59 - 138)		
1,2-Dichloroethane-d4	85	(61 - 130)		
Toluene-d8	93	(60 - 143)		
4-Bromofluorobenzene	85	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-495

GC/MS Volatiles

Lot-Sample #....: A5G130319-087 Work Order #....: HFEPH1AC Matrix.....: SO
 Date Sampled....: 07/12/05 11:15 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/22/05
 Prep Batch #....: 5203323
 Dilution Factor: 1
 % Moisture.....: 1.5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	310 J,B	600	ug/kg	99
Benzene	ND	40	ug/kg	6.4
Bromodichloromethane	ND	80	ug/kg	12
Bromoform	ND	80	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	600	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.3
Chloroethane	ND	200	ug/kg	65
Chloroform	ND	40	ug/kg	12
Chloromethane	6.2 J,B	200	ug/kg	5.2
Cyclohexane	ND	960	ug/kg	7.7
Dibromochloromethane	ND	40	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	60
1,2-Dibromoethane	ND	200	ug/kg	9.9
1,2-Dichlorobenzene	ND	80	ug/kg	17
1,3-Dichlorobenzene	ND	80	ug/kg	7.2
1,4-Dichlorobenzene	ND	80	ug/kg	7.9
Dichlorodifluoromethane	ND	80	ug/kg	5.4
1,1-Dichloroethane	ND	40	ug/kg	7.3
1,2-Dichloroethane	ND	40	ug/kg	9.3
1,1-Dichloroethene	ND	40	ug/kg	8.3
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.4
cis-1,3-Dichloropropene	ND	40	ug/kg	5.5
trans-1,3-Dichloropropene	ND	40	ug/kg	5.4
Ethylbenzene	ND	40	ug/kg	6.8
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.1
Methyl acetate	ND	960	ug/kg	52
Methylene chloride	ND	200	ug/kg	99
Methylcyclohexane	ND	960	ug/kg	5.7
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-495

GC/MS Volatiles

Lot-Sample #....: A5G130319-087 Work Order #....: HFEPH1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	8.2
Tetrachloroethene	ND	40	ug/kg	9.0
Toluene	ND	80	ug/kg	9.1
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.5
1,1,2-Trichloroethane	ND	40	ug/kg	9.9
Trichloroethene	ND	40	ug/kg	12
Trichlorofluoromethane	ND	80	ug/kg	8.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	80	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	76	(59 - 138)		
1,2-Dichloroethane-d4	81	(61 - 130)		
Toluene-d8	96	(60 - 143)		
4-Bromofluorobenzene	86	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-496

GC/MS Volatiles

Lot-Sample #....: A5G130319-088 Work Order #....: HFEPJ1AC Matrix.....: SO
 Date Sampled....: 07/12/05 11:17 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/22/05
 Prep Batch #....: 5203323
 Dilution Factor: 46.73
 % Moisture.....: 2.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	28000	ug/kg	4600
Benzene	ND	1900	ug/kg	300
Bromodichloromethane	ND	3700	ug/kg	560
Bromoform	ND	3700	ug/kg	610
Bromomethane	ND	9300	ug/kg	1200
2-Butanone	ND	28000	ug/kg	2300
Carbon disulfide	ND	9300	ug/kg	930
Carbon tetrachloride	ND	1900	ug/kg	560
Chlorobenzene	ND	1900	ug/kg	290
Chloroethane	ND	9300	ug/kg	3000
Chloroform	ND	1900	ug/kg	560
Chloromethane	ND	9300	ug/kg	240
Cyclohexane	ND	45000	ug/kg	360
Dibromochloromethane	ND	1900	ug/kg	320
1,2-Dibromo-3-chloro- propane	ND	9300	ug/kg	2800
1,2-Dibromoethane	ND	9300	ug/kg	460
1,2-Dichlorobenzene	ND	3700	ug/kg	790
1,3-Dichlorobenzene	ND	3700	ug/kg	340
1,4-Dichlorobenzene	ND	3700	ug/kg	370
Dichlorodifluoromethane	ND	3700	ug/kg	250
1,1-Dichloroethane	ND	1900	ug/kg	340
1,2-Dichloroethane	ND	1900	ug/kg	430
1,1-Dichloroethene	ND	1900	ug/kg	390
cis-1,2-Dichloroethene	ND	1900	ug/kg	650
trans-1,2-Dichloroethene	ND	1900	ug/kg	510
1,2-Dichloropropane	ND	1900	ug/kg	350
cis-1,3-Dichloropropene	ND	1900	ug/kg	260
trans-1,3-Dichloropropene	ND	1900	ug/kg	250
Ethylbenzene	ND	1900	ug/kg	320
2-Hexanone	ND	93000	ug/kg	1100
Isopropylbenzene	ND	9300	ug/kg	240
Methyl acetate	100000	45000	ug/kg	2400
Methylene chloride	ND	9300	ug/kg	4600
Methylcyclohexane	ND	45000	ug/kg	270
4-Methyl-2-pentanone	ND	93000	ug/kg	510
Methyl tert-butyl ether	ND	9300	ug/kg	470
Styrene	ND	1900	ug/kg	1300

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-496

GC/MS Volatiles

Lot-Sample #....: A5G130319-088 Work Order #....: HFEPJ1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	3700	ug/kg	380
Tetrachloroethene	ND	1900	ug/kg	420
Toluene	ND	3700	ug/kg	430
1,2,4-Trichloro- benzene	ND	9300	ug/kg	560
1,1,1-Trichloroethane	ND	1900	ug/kg	440
1,1,2-Trichloroethane	ND	1900	ug/kg	460
Trichloroethene	ND	1900	ug/kg	560
Trichlorofluoromethane	ND	3700	ug/kg	390
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	9300	ug/kg	470
Vinyl chloride	ND	3700	ug/kg	750
Xylenes (total)	ND	5600	ug/kg	700

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	123 DIL	(59 - 138)
1,2-Dichloroethane-d4	0.0 DIL, *	(61 - 130)
Toluene-d8	200 DIL, *	(60 - 143)
4-Bromofluorobenzene	220 DIL, *	(47 - 158)

NOTE (S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

* Surrogate recovery is outside stated control limits.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-497

GC/MS Volatiles

Lot-Sample #....: A5G130319-089 Work Order #....: HFEPK1AC Matrix.....: SO
 Date Sampled....: 07/12/05 11:20 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/22/05
 Prep Batch #....: 5203323
 Dilution Factor: 3.74
 % Moisture.....: 1.3 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	2200	ug/kg	370
Benzene	ND	150	ug/kg	24
Bromodichloromethane	ND	300	ug/kg	45
Bromoform	ND	300	ug/kg	49
Bromomethane	ND	750	ug/kg	94
2-Butanone	ND	2200	ug/kg	180
Carbon disulfide	ND	750	ug/kg	75
Carbon tetrachloride	ND	150	ug/kg	45
Chlorobenzene	ND	150	ug/kg	24
Chloroethane	ND	750	ug/kg	240
Chloroform	ND	150	ug/kg	45
Chloromethane	ND	750	ug/kg	19
Cyclohexane	ND	3600	ug/kg	29
Dibromochloromethane	ND	150	ug/kg	26
1,2-Dibromo-3-chloro- propane	ND	750	ug/kg	220
1,2-Dibromoethane	ND	750	ug/kg	37
1,2-Dichlorobenzene	ND	300	ug/kg	64
1,3-Dichlorobenzene	ND	300	ug/kg	27
1,4-Dichlorobenzene	ND	300	ug/kg	30
Dichlorodifluoromethane	ND	300	ug/kg	20
1,1-Dichloroethane	ND	150	ug/kg	27
1,2-Dichloroethane	ND	150	ug/kg	35
1,1-Dichloroethene	ND	150	ug/kg	31
cis-1,2-Dichloroethene	ND	150	ug/kg	52
trans-1,2-Dichloroethene	ND	150	ug/kg	41
1,2-Dichloropropane	ND	150	ug/kg	28
cis-1,3-Dichloropropene	ND	150	ug/kg	21
trans-1,3-Dichloropropene	ND	150	ug/kg	20
Ethylbenzene	ND	150	ug/kg	25
2-Hexanone	ND	7500	ug/kg	90
Isopropylbenzene	ND	750	ug/kg	19
Methyl acetate	12000	3600	ug/kg	190
Methylene chloride	ND	750	ug/kg	370
Methylcyclohexane	ND	3600	ug/kg	21
4-Methyl-2-pentanone	ND	7500	ug/kg	41
Methyl tert-butyl ether	ND	750	ug/kg	37
Styrene	ND	150	ug/kg	100

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-497

GC/MS Volatiles

Lot-Sample #....: A5G130319-089 Work Order #....: HFEPK1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	300	ug/kg	31
Tetrachloroethene	ND	150	ug/kg	34
Toluene	ND	300	ug/kg	34
1,2,4-Trichloro- benzene	ND	750	ug/kg	45
1,1,1-Trichloroethane	ND	150	ug/kg	36
1,1,2-Trichloroethane	ND	150	ug/kg	37
Trichloroethene	57 J	150	ug/kg	45
Trichlorofluoromethane	ND	300	ug/kg	31
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	750	ug/kg	37
Vinyl chloride	ND	300	ug/kg	60
Xylenes (total)	ND	450	ug/kg	56

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85 DIL	(59 - 138)
1,2-Dichloroethane-d4	97 DIL	(61 - 130)
Toluene-d8	98 DIL	(60 - 143)
4-Bromofluorobenzene	84 DIL	(47 - 158)

NOTE (S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-498

GC/MS Volatiles

Lot-Sample #....: A5G130319-090 Work Order #....: HFEPL1AC Matrix.....: SO
 Date Sampled....: 07/12/05 11:25 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/22/05
 Prep Batch #....: 5203323
 Dilution Factor: 0.98
 % Moisture.....: 5.0 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	320 J,B	590	ug/kg	97
Benzene	ND	39	ug/kg	6.3
Bromodichloromethane	ND	78	ug/kg	12
Bromoform	ND	78	ug/kg	13
Bromomethane	ND	200	ug/kg	24
2-Butanone	ND	590	ug/kg	48
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	39	ug/kg	12
Chlorobenzene	ND	39	ug/kg	6.2
Chloroethane	ND	200	ug/kg	64
Chloroform	ND	39	ug/kg	12
Chloromethane	5.9 J,B	200	ug/kg	5.1
Cyclohexane	ND	940	ug/kg	7.5
Dibromochloromethane	ND	39	ug/kg	6.8
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	59
1,2-Dibromoethane	ND	200	ug/kg	9.7
1,2-Dichlorobenzene	ND	78	ug/kg	17
1,3-Dichlorobenzene	ND	78	ug/kg	7.1
1,4-Dichlorobenzene	ND	78	ug/kg	7.7
Dichlorodifluoromethane	ND	78	ug/kg	5.3
1,1-Dichloroethane	ND	39	ug/kg	7.2
1,2-Dichloroethane	ND	39	ug/kg	9.1
1,1-Dichloroethene	ND	39	ug/kg	8.1
cis-1,2-Dichloroethene	ND	39	ug/kg	14
trans-1,2-Dichloroethene	ND	39	ug/kg	11
1,2-Dichloropropane	ND	39	ug/kg	7.3
cis-1,3-Dichloropropene	ND	39	ug/kg	5.4
trans-1,3-Dichloropropene	ND	39	ug/kg	5.3
Ethylbenzene	ND	39	ug/kg	6.7
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.0
Methyl acetate	3600	940	ug/kg	51
Methylene chloride	ND	200	ug/kg	97
Methylcyclohexane	ND	940	ug/kg	5.6
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	9.8
Styrene	ND	39	ug/kg	27

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-498

GC/MS Volatiles

Lot-Sample #....: A5G130319-090 Work Order #....: HFEPL1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	78	ug/kg	8.0
Tetrachloroethene	ND	39	ug/kg	8.8
Toluene	ND	78	ug/kg	8.9
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	39	ug/kg	9.3
1,1,2-Trichloroethane	ND	39	ug/kg	9.7
Trichloroethene	27 J	39	ug/kg	12
Trichlorofluoromethane	ND	78	ug/kg	8.1
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	9.8
Vinyl chloride	ND	78	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	66	(59 - 138)		
1,2-Dichloroethane-d4	77	(61 - 130)		
Toluene-d8	89	(60 - 143)		
4-Bromofluorobenzene	81	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-499

GC/MS Volatiles

Lot-Sample #....: A5G130319-091 Work Order #....: HFEPN1AC Matrix.....: SO
 Date Sampled....: 07/12/05 11:27 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/23/05
 Prep Batch #....: 5203323
 Dilution Factor: 25
 % Moisture.....: 3.2 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	15000	ug/kg	2500
Benzene	ND	1000	ug/kg	160
Bromodichloromethane	ND	2000	ug/kg	300
Bromoform	ND	2000	ug/kg	320
Bromomethane	ND	5000	ug/kg	620
2-Butanone	ND	15000	ug/kg	1200
Carbon disulfide	ND	5000	ug/kg	500
Carbon tetrachloride	ND	1000	ug/kg	300
Chlorobenzene	ND	1000	ug/kg	160
Chloroethane	ND	5000	ug/kg	1600
Chloroform	ND	1000	ug/kg	300
Chloromethane	ND	5000	ug/kg	130
Cyclohexane	ND	24000	ug/kg	190
Dibromochloromethane	ND	1000	ug/kg	170
1,2-Dibromo-3-chloro- propane	ND	5000	ug/kg	1500
1,2-Dibromoethane	ND	5000	ug/kg	250
1,2-Dichlorobenzene	ND	2000	ug/kg	420
1,3-Dichlorobenzene	ND	2000	ug/kg	180
1,4-Dichlorobenzene	ND	2000	ug/kg	200
Dichlorodifluoromethane	ND	2000	ug/kg	140
1,1-Dichloroethane	ND	1000	ug/kg	180
1,2-Dichloroethane	ND	1000	ug/kg	230
1,1-Dichloroethene	ND	1000	ug/kg	210
cis-1,2-Dichloroethene	ND	1000	ug/kg	350
trans-1,2-Dichloroethene	ND	1000	ug/kg	280
1,2-Dichloropropane	ND	1000	ug/kg	180
cis-1,3-Dichloropropene	ND	1000	ug/kg	140
trans-1,3-Dichloropropene	ND	1000	ug/kg	140
Ethylbenzene	ND	1000	ug/kg	170
2-Hexanone	ND	50000	ug/kg	600
Isopropylbenzene	ND	5000	ug/kg	130
Methyl acetate	49000	24000	ug/kg	1300
Methylene chloride	ND	5000	ug/kg	2500
Methylcyclohexane	ND	24000	ug/kg	140
4-Methyl-2-pentanone	ND	50000	ug/kg	280
Methyl tert-butyl ether	ND	5000	ug/kg	250
Styrene	ND	1000	ug/kg	700

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-499

GC/MS Volatiles

Lot-Sample #....: A5G130319-091 Work Order #....: HFEPN1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	2000	ug/kg	200
Tetrachloroethene	ND	1000	ug/kg	220
Toluene	ND	2000	ug/kg	230
1,2,4-Trichloro- benzene	ND	5000	ug/kg	300
1,1,1-Trichloroethane	ND	1000	ug/kg	240
1,1,2-Trichloroethane	ND	1000	ug/kg	250
Trichloroethene	ND	1000	ug/kg	300
Trichlorofluoromethane	ND	2000	ug/kg	210
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	5000	ug/kg	250
Vinyl chloride	ND	2000	ug/kg	400
Xylenes (total)	ND	3000	ug/kg	380

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	84 DIL	(59 - 138)
1,2-Dichloroethane-d4	0.0 DIL, *	(61 - 130)
Toluene-d8	146 DIL, *	(60 - 143)
4-Bromofluorobenzene	148 DIL	(47 - 158)

NOTE (S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

* Surrogate recovery is outside stated control limits.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-500

GC/MS Volatiles

Lot-Sample #....: A5G130319-092 Work Order #....: HFEPP1AC Matrix.....: SO
 Date Sampled....: 07/12/05 11:32 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/22/05
 Prep Batch #....: 5203323
 Dilution Factor: 6.06
 % Moisture.....: 3.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	3600	ug/kg	600
Benzene	ND	240	ug/kg	39
Bromodichloromethane	ND	480	ug/kg	73
Bromoform	ND	480	ug/kg	79
Bromomethane	ND	1200	ug/kg	150
2-Butanone	ND	3600	ug/kg	300
Carbon disulfide	ND	1200	ug/kg	120
Carbon tetrachloride	ND	240	ug/kg	73
Chlorobenzene	ND	240	ug/kg	38
Chloroethane	ND	1200	ug/kg	390
Chloroform	ND	240	ug/kg	73
Chloromethane	ND	1200	ug/kg	32
Cyclohexane	ND	5800	ug/kg	47
Dibromochloromethane	ND	240	ug/kg	42
1,2-Dibromo-3-chloro- propane	ND	1200	ug/kg	360
1,2-Dibromoethane	ND	1200	ug/kg	60
1,2-Dichlorobenzene	ND	480	ug/kg	100
1,3-Dichlorobenzene	ND	480	ug/kg	44
1,4-Dichlorobenzene	ND	480	ug/kg	48
Dichlorodifluoromethane	ND	480	ug/kg	33
1,1-Dichloroethane	ND	240	ug/kg	44
1,2-Dichloroethane	ND	240	ug/kg	56
1,1-Dichloroethene	ND	240	ug/kg	50
cis-1,2-Dichloroethene	ND	240	ug/kg	85
trans-1,2-Dichloroethene	ND	240	ug/kg	67
1,2-Dichloropropane	ND	240	ug/kg	45
cis-1,3-Dichloropropene	ND	240	ug/kg	33
trans-1,3-Dichloropropene	ND	240	ug/kg	33
Ethylbenzene	ND	240	ug/kg	41
2-Hexanone	ND	12000	ug/kg	150
Isopropylbenzene	ND	1200	ug/kg	31
Methyl acetate	25000	5800	ug/kg	320
Methylene chloride	ND	1200	ug/kg	600
Methylcyclohexane	ND	5800	ug/kg	35
4-Methyl-2-pentanone	ND	12000	ug/kg	67
Methyl tert-butyl ether	ND	1200	ug/kg	61
Styrene	ND	240	ug/kg	170

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-500

GC/MS Volatiles

Lot-Sample #....: A5G130319-092 Work Order #....: HFEPPIAC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	480	ug/kg	50
Tetrachloroethene	ND	240	ug/kg	55
Toluene	ND	480	ug/kg	55
1,2,4-Trichloro- benzene	ND	1200	ug/kg	73
1,1,1-Trichloroethane	ND	240	ug/kg	58
1,1,2-Trichloroethane	ND	240	ug/kg	60
Trichloroethene	ND	240	ug/kg	73
Trichlorofluoromethane	ND	480	ug/kg	50
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1200	ug/kg	61
Vinyl chloride	ND	480	ug/kg	97
Xylenes (total)	ND	730	ug/kg	91

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	69 DIL	(59 - 138)
1,2-Dichloroethane-d4	95 DIL	(61 - 130)
Toluene-d8	100 DIL	(60 - 143)
4-Bromofluorobenzene	89 DIL	(47 - 158)

NOTE (S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: TB-17360-071205-DCR-501

GC/MS Volatiles

Lot-Sample #....: A5G130319-093 Work Order #....: HFEPRIAC Matrix.....: SQ
 Date Sampled....: 07/12/05 11:35 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/22/05
 Prep Batch #....: 5203323
 Dilution Factor: 1
 % Moisture.....: Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	320 J,B	600	ug/kg	99
Benzene	ND	40	ug/kg	6.4
Bromodichloromethane	ND	80	ug/kg	12
Bromoform	ND	80	ug/kg	13
Bromomethane	ND	200	ug/kg	25
2-Butanone	ND	600	ug/kg	49
Carbon disulfide	ND	200	ug/kg	20
Carbon tetrachloride	ND	40	ug/kg	12
Chlorobenzene	ND	40	ug/kg	6.3
Chloroethane	ND	200	ug/kg	65
Chloroform	ND	40	ug/kg	12
Chloromethane	6.7 J,B	200	ug/kg	5.2
Cyclohexane	ND	960	ug/kg	7.7
Dibromochloromethane	ND	40	ug/kg	6.9
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	60
1,2-Dibromoethane	ND	200	ug/kg	9.9
1,2-Dichlorobenzene	ND	80	ug/kg	17
1,3-Dichlorobenzene	ND	80	ug/kg	7.2
1,4-Dichlorobenzene	ND	80	ug/kg	7.9
Dichlorodifluoromethane	ND	80	ug/kg	5.4
1,1-Dichloroethane	ND	40	ug/kg	7.3
1,2-Dichloroethane	ND	40	ug/kg	9.3
1,1-Dichloroethene	ND	40	ug/kg	8.3
cis-1,2-Dichloroethene	ND	40	ug/kg	14
trans-1,2-Dichloroethene	ND	40	ug/kg	11
1,2-Dichloropropane	ND	40	ug/kg	7.4
cis-1,3-Dichloropropene	ND	40	ug/kg	5.5
trans-1,3-Dichloropropene	ND	40	ug/kg	5.4
Ethylbenzene	ND	40	ug/kg	6.8
2-Hexanone	ND	2000	ug/kg	24
Isopropylbenzene	ND	200	ug/kg	5.1
Methyl acetate	77 J	960	ug/kg	52
Methylene chloride	ND	200	ug/kg	99
Methylcyclohexane	ND	960	ug/kg	5.7
4-Methyl-2-pentanone	ND	2000	ug/kg	11
Methyl tert-butyl ether	ND	200	ug/kg	10
Styrene	ND	40	ug/kg	28

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: TB-17360-071205-DCR-501

GC/MS Volatiles

Lot-Sample #....: A5G130319-093 Work Order #....: HFEPR1AC Matrix.....: SQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	8.2
Tetrachloroethene	ND	40	ug/kg	9.0
Toluene	ND	80	ug/kg	9.1
1,2,4-Trichloro- benzene	ND	200	ug/kg	12
1,1,1-Trichloroethane	ND	40	ug/kg	9.5
1,1,2-Trichloroethane	ND	40	ug/kg	9.9
Trichloroethene	ND	40	ug/kg	12
Trichlorofluoromethane	ND	80	ug/kg	8.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	10
Vinyl chloride	ND	80	ug/kg	16
Xylenes (total)	ND	120	ug/kg	15
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	71	(59 - 138)		
1,2-Dichloroethane-d4	83	(61 - 130)		
Toluene-d8	91	(60 - 143)		
4-Bromofluorobenzene	82	(47 - 158)		

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-409

General Chemistry

Lot-Sample #....: A5G130319-001 Work Order #....: HFEJA Matrix.....: SO
Date Sampled....: 07/11/05 09:55 Date Received...: 07/13/05
% Moisture.....: 4.5

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	95.5	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195095
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-410

General Chemistry

Lot-Sample #...: A5G130319-002 Work Order #...: HFEJJ Matrix.....: SO
Date Sampled...: 07/11/05 09:57 Date Received...: 07/13/05
% Moisture.....: 1.7

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.3	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195095
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-411

General Chemistry

Lot-Sample #....: A5G130319-003 Work Order #....: HFEJL Matrix.....: SO
Date Sampled....: 07/11/05 10:00 Date Received...: 07/13/05
% Moisture.....: 2.4

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.6	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195095
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-412

General Chemistry

Lot-Sample #....: A5G130319-004 Work Order #....: HFEJN Matrix.....: SO
Date Sampled...: 07/11/05 10:02 Date Received...: 07/13/05
% Moisture.....: 1.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.6	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195095
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-413

General Chemistry

Lot-Sample #....: A5G130319-005 Work Order #....: HFEJP Matrix.....: SO
Date Sampled....: 07/11/05 10:05 Date Received...: 07/13/05
% Moisture.....: 2.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.4	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195095
			Dilution Factor: 1	MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-414

General Chemistry

Lot-Sample #....: A5G130319-006 Work Order #....: HFEJR Matrix.....: SO
Date Sampled...: 07/11/05 10:07 Date Received...: 07/13/05
% Moisture.....: 1.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.7	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195095
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-415

General Chemistry

Lot-Sample #....: A5G130319-007 Work Order #....: HFEJT Matrix.....: SO
Date Sampled....: 07/11/05 10:10 Date Received...: 07/13/05
% Moisture.....: 1.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.8	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195095
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-416

General Chemistry

Lot-Sample #...: A5G130319-008 Work Order #...: HFEJV Matrix.....: SO
Date Sampled...: 07/11/05 10:12 Date Received...: 07/13/05
% Moisture.....: 3.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.0	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195095
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-417

General Chemistry

Lot-Sample #....: A5G130319-009 Work Order #....: HFEJ0 Matrix.....: SO
Date Sampled....: 07/11/05 10:15 Date Received...: 07/13/05
% Moisture.....: 2.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195095
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-418

General Chemistry

Lot-Sample #...: A5G130319-010 Work Order #...: HFEJ1 Matrix.....: SO
Date Sampled...: 07/11/05 10:17 Date Received...: 07/13/05
% Moisture.....: 2.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.7	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195095
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-419

General Chemistry

Lot-Sample #....: A5G130319-011 Work Order #....: HFEJ4 Matrix.....: SO
Date Sampled...: 07/11/05 12:25 Date Received...: 07/13/05
% Moisture.....: 3.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.8	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195095
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-420

General Chemistry

Lot-Sample #....: A5G130319-012 Work Order #....: HFEJ6 Matrix.....: SO
Date Sampled...: 07/11/05 12:30 Date Received...: 07/13/05
% Moisture.....: 3.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	96.8	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195095
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-421

General Chemistry

Lot-Sample #....: A5G130319-013 Work Order #....: HFEJ7 Matrix.....: SO
Date Sampled....: 07/11/05 12:32 Date Received...: 07/13/05
% Moisture.....: 2.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195095
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-422

General Chemistry

Lot-Sample #...: A5G130319-014 Work Order #...: HFEJ9 Matrix.....: SO
Date Sampled...: 07/11/05 12:35 Date Received...: 07/13/05
% Moisture.....: 1.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.6	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195095
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-423

General Chemistry

Lot-Sample #....: A5G130319-015 Work Order #....: HFEKA Matrix.....: SO
Date Sampled...: 07/11/05 12:37 Date Received...: 07/13/05
% Moisture.....: 2.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195095
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-424

General Chemistry

Lot-Sample #...: A5G130319-016 Work Order #...: HFEKD Matrix.....: SO
Date Sampled...: 07/11/05 12:40 Date Received...: 07/13/05
% Moisture.....: 2.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.7	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195095
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-425

General Chemistry

Lot-Sample #....: A5G130319-017 Work Order #....: HFEKE Matrix.....: SO
Date Sampled....: 07/11/05 12:42 Date Received...: 07/13/05
% Moisture.....: 4.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	95.7	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195095
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-426

General Chemistry

Lot-Sample #...: A5G130319-018 Work Order #...: HFEKG Matrix.....: SO
Date Sampled...: 07/11/05 12:45 Date Received...: 07/13/05
% Moisture.....: 9.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	91.0	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195095
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-427

General Chemistry

Lot-Sample #....: A5G130319-019 Work Order #....: HFEKH Matrix.....: SO
Date Sampled....: 07/11/05 12:47 Date Received...: 07/13/05
% Moisture.....: 3.6

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.5	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195095
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-428

General Chemistry

Lot-Sample #...: A5G130319-020 Work Order #...: HFEKK Matrix.....: SO
Date Sampled...: 07/11/05 12:50 Date Received...: 07/13/05
% Moisture.....: 2.6

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.4	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195101
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-429

General Chemistry

Lot-Sample #....: A5G130319-021 Work Order #....: HFEKL Matrix.....: SO
Date Sampled....: 07/11/05 12:52 Date Received...: 07/13/05
% Moisture.....: 2.5

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195095
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-430

General Chemistry

Lot-Sample #...: A5G130319-022 Work Order #...: HFEKM Matrix.....: SO
Date Sampled...: 07/11/05 13:15 Date Received...: 07/13/05
% Moisture.....: 2.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.8	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195097
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-431

General Chemistry

Lot-Sample #....: A5G130319-023 Work Order #....: HFEKQ Matrix.....: SO
Date Sampled....: 07/11/05 13:17 Date Received...: 07/13/05
% Moisture.....: 1.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.6	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195097
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-432

General Chemistry

Lot-Sample #....: A5G130319-024 Work Order #....: HFEKR Matrix.....: SO
Date Sampled...: 07/11/05 13:20 Date Received...: 07/13/05
% Moisture.....: 1.1

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.9	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195101
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-433

General Chemistry

Lot-Sample #....: A5G130319-025 Work Order #....: HFEKV Matrix.....: SO
Date Sampled....: 07/11/05 13:22 Date Received...: 07/13/05
% Moisture.....: 1.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	99.0	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195097
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-434

General Chemistry

Lot-Sample #...: A5G130319-026 Work Order #...: HFEKX Matrix.....: SO
Date Sampled...: 07/11/05 13:25 Date Received...: 07/13/05
% Moisture.....: 2.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.1	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195097
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-435

General Chemistry

Lot-Sample #....: A5G130319-027 Work Order #....: HFEK1 Matrix.....: SO
Date Sampled....: 07/11/05 13:27 Date Received...: 07/13/05
% Moisture.....: 1.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.6	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195097
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-436

General Chemistry

Lot-Sample #....: A5G130319-028 Work Order #....: HFEK2 Matrix.....: SO
Date Sampled...: 07/11/05 13:30 Date Received...: 07/13/05
% Moisture.....: 2.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.1	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195097
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-437

General Chemistry

Lot-Sample #....: A5G130319-029 Work Order #....: HFEK5 Matrix.....: SO
Date Sampled....: 07/11/05 13:35 Date Received...: 07/13/05
% Moisture.....: 5.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	94.6	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195097
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-438

General Chemistry

Lot-Sample #....: A5G130319-030 Work Order #....: HFEK6 Matrix.....: SO
Date Sampled...: 07/11/05 13:37 Date Received...: 07/13/05
% Moisture.....: 1.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.5	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195097
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-439

General Chemistry

Lot-Sample #....: A5G130319-031 Work Order #....: HFEK8 Matrix.....: SO
Date Sampled....: 07/11/05 13:40 Date Received...: 07/13/05
% Moisture.....: 2.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.7	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195097
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-440

General Chemistry

Lot-Sample #....: A5G130319-032 Work Order #....: HFEK9 Matrix.....: SO
Date Sampled...: 07/11/05 14:15 Date Received...: 07/13/05
% Moisture.....: 1.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.8	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195097
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-441

General Chemistry

Lot-Sample #....: A5G130319-033 Work Order #....: HFELC Matrix.....: SO
Date Sampled....: 07/11/05 14:20 Date Received...: 07/13/05
% Moisture.....: 5.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	94.4	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195097
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-442

General Chemistry

Lot-Sample #....: A5G130319-034 Work Order #....: HFELG Matrix.....: SO
Date Sampled...: 07/11/05 14:25 Date Received...: 07/13/05
% Moisture.....: 3.4

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.6	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195097
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-443

General Chemistry

Lot-Sample #....: A5G130319-035 Work Order #....: HFELH Matrix.....: SO
Date Sampled....: 07/11/05 14:27 Date Received...: 07/13/05
% Moisture.....: 1.9

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195097
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-444

General Chemistry

Lot-Sample #....: A5G130319-036 Work Order #....: HFELJ Matrix.....: SO
Date Sampled....: 07/11/05 14:30 Date Received...: 07/13/05
% Moisture.....: 1.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.2	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195097
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-445

General Chemistry

Lot-Sample #....: A5G130319-037 Work Order #....: HFELK Matrix.....: SO
Date Sampled....: 07/11/05 14:32 Date Received...: 07/13/05
% Moisture.....: 2.7

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.3	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195097
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-446

General Chemistry

Lot-Sample #....: A5G130319-038 Work Order #....: HFELL Matrix.....: SO
Date Sampled...: 07/11/05 14:35 Date Received...: 07/13/05
% Moisture.....: 3.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	96.8	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195097
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-447

General Chemistry

Lot-Sample #....: A5G130319-039 Work Order #....: HFELN Matrix.....: SO
Date Sampled....: 07/11/05 14:40 Date Received...: 07/13/05
% Moisture.....: 2.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.6	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195097
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-448

General Chemistry

Lot-Sample #....: A5G130319-040 Work Order #....: HFELQ Matrix.....: SO
Date Sampled...: 07/11/05 14:42 Date Received...: 07/13/05
% Moisture.....: 2.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195097
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-449

General Chemistry

Lot-Sample #....: A5G130319-041 Work Order #....: HFELR Matrix.....: SO
Date Sampled....: 07/11/05 14:45 Date Received...: 07/13/05
% Moisture.....: 2.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.8	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195101
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-450

General Chemistry

Lot-Sample #....: A5G130319-042 Work Order #....: HFELV Matrix.....: SO
Date Sampled...: 07/11/05 15:20 Date Received...: 07/13/05
% Moisture.....: 2.7

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.3	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195101
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-451

General Chemistry

Lot-Sample #....: A5G130319-043 Work Order #....: HFEL1 Matrix.....: SO
Date Sampled...: 07/11/05 15:22 Date Received...: 07/13/05
% Moisture.....: 2.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.8	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195101
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-452

General Chemistry

Lot-Sample #...: A5G130319-044 Work Order #...: HFEL3 Matrix.....: SO
Date Sampled...: 07/11/05 15:25 Date Received...: 07/13/05
% Moisture.....: 4.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	96.0	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195101
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-453

General Chemistry

Lot-Sample #....: A5G130319-045 Work Order #....: HFEL5 Matrix.....: SO
Date Sampled....: 07/11/05 15:30 Date Received...: 07/13/05
% Moisture.....: 1.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195101
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-454

General Chemistry

Lot-Sample #...: A5G130319-046 Work Order #...: HFEL6 Matrix.....: SO
Date Sampled...: 07/11/05 15:32 Date Received...: 07/13/05
% Moisture.....: 2.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195101
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-455

General Chemistry

Lot-Sample #....: A5G130319-047 Work Order #....: HFEL9 Matrix.....: SO
Date Sampled....: 07/11/05 15:35 Date Received...: 07/13/05
% Moisture.....: 2.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.4	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195101
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-456

General Chemistry

Lot-Sample #....: A5G130319-048 Work Order #....: HFEMD Matrix.....: SO
Date Sampled...: 07/11/05 15:37 Date Received...: 07/13/05
% Moisture.....: 2.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.9	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195101
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-457

General Chemistry

Lot-Sample #....: A5G130319-049 Work Order #....: HFEME Matrix.....: SO
Date Sampled....: 07/11/05 15:40 Date Received...: 07/13/05
% Moisture.....: 3.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	96.7	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195101
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-458

General Chemistry

Lot-Sample #....: A5G130319-050 Work Order #....: HFEMF Matrix.....: SO
Date Sampled...: 07/11/05 15:42 Date Received...: 07/13/05
% Moisture.....: 2.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.2	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195101
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071105-DCR-459

General Chemistry

Lot-Sample #....: A5G130319-051 Work Order #....: HFEMH Matrix.....: SO
Date Sampled....: 07/11/05 15:45 Date Received...: 07/13/05
% Moisture.....: 1.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.2	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195101
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-460

General Chemistry

Lot-Sample #....: A5G130319-052 Work Order #....: HFEMK Matrix.....: SO
Date Sampled....: 07/12/05 07:55 Date Received...: 07/13/05
% Moisture.....: 4.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	95.2	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195101
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-461

General Chemistry

Lot-Sample #....: A5G130319-053 Work Order #....: HFEMN Matrix.....: SO
Date Sampled....: 07/12/05 07:57 Date Received...: 07/13/05
% Moisture.....: 2.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.6	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195101
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-462

General Chemistry

Lot-Sample #...: A5G130319-054 Work Order #...: HFEMP Matrix.....: SO
Date Sampled...: 07/12/05 08:02 Date Received...: 07/13/05
% Moisture.....: 1.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.4	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195101
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-463

General Chemistry

Lot-Sample #....: A5G130319-055 Work Order #....: HFEMT Matrix.....: SO
Date Sampled....: 07/12/05 08:05 Date Received...: 07/13/05
% Moisture.....: 1.7

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.3	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195101
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-464

General Chemistry

Lot-Sample #....: A5G130319-056 Work Order #....: HFEMV Matrix.....: SO
Date Sampled...: 07/12/05 08:07 Date Received...: 07/13/05
% Moisture.....: 3.9

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.1	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195101
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-465

General Chemistry

Lot-Sample #....: A5G130319-057 Work Order #....: HFEMX Matrix.....: SO
Date Sampled....: 07/12/05 08:10 Date Received...: 07/13/05
% Moisture.....: 3.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	96.8	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195101
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-466

General Chemistry

Lot-Sample #....: A5G130319-058 Work Order #....: HFEM0 Matrix.....: SO
Date Sampled...: 07/12/05 08:12 Date Received...: 07/13/05
% Moisture.....: 3.6

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.4	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195104
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-467

General Chemistry

Lot-Sample #....: A5G130319-059 Work Order #....: HFEM1 Matrix.....: SO
Date Sampled....: 07/12/05 08:15 Date Received...: 07/13/05
% Moisture.....: 3.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	96.1	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195104
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-468

General Chemistry

Lot-Sample #....: A5G130319-060 Work Order #....: HFEM4 Matrix.....: SO
Date Sampled....: 07/12/05 08:17 Date Received...: 07/13/05
% Moisture.....: 3.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	96.7	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195104
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-469

General Chemistry

Lot-Sample #....: A5G130319-061 Work Order #....: HFEM6 Matrix.....: SO
Date Sampled....: 07/12/05 08:20 Date Received...: 07/13/05
% Moisture.....: 3.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.8	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195104
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-470

General Chemistry

Lot-Sample #....: A5G130319-062 Work Order #....: HFEM7 Matrix.....: SO
Date Sampled....: 07/12/05 08:22 Date Received...: 07/13/05
% Moisture.....: 2.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.1	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195104
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-471

General Chemistry

Lot-Sample #....: A5G130319-063 Work Order #....: HFEM9 Matrix.....: SO
Date Sampled....: 07/12/05 09:00 Date Received...: 07/13/05
% Moisture.....: 5.1

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	94.9	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195104
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-472

General Chemistry

Lot-Sample #....: A5G130319-064 Work Order #....: HFENC Matrix.....: SO
Date Sampled...: 07/12/05 09:02 Date Received...: 07/13/05
% Moisture.....: 4.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	96.0	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195104
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-473

General Chemistry

Lot-Sample #....: A5G130319-065 Work Order #....: HFEND Matrix.....: SO
Date Sampled....: 07/12/05 09:05 Date Received...: 07/13/05
% Moisture.....: 2.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	97.8	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195104
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-474

General Chemistry

Lot-Sample #....: A5G130319-066 Work Order #....: HFENF Matrix.....: SO
Date Sampled...: 07/12/05 09:07 Date Received...: 07/13/05
% Moisture.....: 1.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195104
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-475

General Chemistry

Lot-Sample #....: A5G130319-067 Work Order #....: HFENH Matrix.....: SO
Date Sampled....: 07/12/05 09:10 Date Received...: 07/13/05
% Moisture.....: 3.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	96.2	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195104
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-476

General Chemistry

Lot-Sample #...: A5G130319-068 Work Order #...: HFENK Matrix.....: SO
Date Sampled...: 07/12/05 09:12 Date Received...: 07/13/05
% Moisture.....: 3.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.0	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195104
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-477

General Chemistry

Lot-Sample #....: A5G130319-069 Work Order #....: HFENM Matrix.....: SO
Date Sampled....: 07/12/05 09:15 Date Received...: 07/13/05
% Moisture.....: 3.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.0	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195104
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-478

General Chemistry

Lot-Sample #....: A5G130319-070 Work Order #....: HFENP Matrix.....: SO
Date Sampled....: 07/12/05 09:20 Date Received...: 07/13/05
% Moisture.....: 2.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195104
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-479

General Chemistry

Lot-Sample #....: A5G130319-071 Work Order #....: HFENR Matrix.....: SO
Date Sampled....: 07/12/05 09:22 Date Received...: 07/13/05
% Moisture.....: 3.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	96.4	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195104
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-480

General Chemistry

Lot-Sample #....: A5G130319-072 Work Order #....: HFENV Matrix.....: SO
Date Sampled...: 07/12/05 09:25 Date Received...: 07/13/05
% Moisture.....: 4.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	95.7	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195104
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-481

General Chemistry

Lot-Sample #....: A5G130319-073 Work Order #....: HFENX Matrix.....: SO
Date Sampled...: 07/12/05 09:35 Date Received...: 07/13/05
% Moisture.....: 5.1

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	94.9	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195104
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-482

General Chemistry

Lot-Sample #....: A5G130319-074 Work Order #....: HFEN0 Matrix.....: SO
Date Sampled....: 07/12/05 09:37 Date Received...: 07/13/05
% Moisture.....: 3.1

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	96.9	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195104
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-483

General Chemistry

Lot-Sample #....: A5G130319-075 Work Order #....: HFEN2 Matrix.....: SO
Date Sampled....: 07/12/05 09:40 Date Received...: 07/13/05
% Moisture.....: 2.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.4	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195104
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-484

General Chemistry

Lot-Sample #....: A5G130319-076 Work Order #....: HFEN3 Matrix.....: SO
Date Sampled...: 07/12/05 09:42 Date Received...: 07/13/05
% Moisture.....: 2.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.4	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195104
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-485

General Chemistry

Lot-Sample #....: A5G130319-077 Work Order #....: HFEN4 Matrix.....: SO
Date Sampled....: 07/12/05 09:45 Date Received...: 07/13/05
% Moisture.....: 4.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	95.8	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195104
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-486

General Chemistry

Lot-Sample #....: A5G130319-078 Work Order #....: HFEN5 Matrix.....: SO
Date Sampled....: 07/12/05 09:50 Date Received...: 07/13/05
% Moisture.....: 1.9

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195106
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-487

General Chemistry

Lot-Sample #....: A5G130319-079 Work Order #....: HFEN7 Matrix.....: SO
Date Sampled....: 07/12/05 09:52 Date Received...: 07/13/05
% Moisture.....: 2.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.7	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195106
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-488

General Chemistry

Lot-Sample #...: A5G130319-080 Work Order #...: HFEN8 Matrix.....: SO
Date Sampled...: 07/12/05 09:55 Date Received...: 07/13/05
% Moisture.....: 8.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	91.1	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195106
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-489

General Chemistry

Lot-Sample #....: A5G130319-081 Work Order #....: HFEPA Matrix.....: SO
Date Sampled....: 07/12/05 09:57 Date Received...: 07/13/05
% Moisture.....: 2.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195106
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-490

General Chemistry

Lot-Sample #...: A5G130319-082 Work Order #...: HFEPG Matrix.....: SO
Date Sampled...: 07/12/05 10:00 Date Received...: 07/13/05
% Moisture.....: 2.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.1	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195106
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-491

General Chemistry

Lot-Sample #....: A5G130319-083 Work Order #....: HFEPD Matrix.....: SO
Date Sampled....: 07/12/05 11:05 Date Received...: 07/13/05
% Moisture.....: 3.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	96.5	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195106
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-492

General Chemistry

Lot-Sample #....: A5G130319-084 Work Order #....: HFEPE Matrix.....: SO
Date Sampled...: 07/12/05 11:07 Date Received...: 07/13/05
% Moisture.....: 1.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.2	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195106
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-493

General Chemistry

Lot-Sample #....: A5G130319-085 Work Order #....: HFEPF Matrix.....: SO
Date Sampled....: 07/12/05 11:10 Date Received...: 07/13/05
% Moisture.....: 1.1

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.9	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195106
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-494

General Chemistry

Lot-Sample #...: A5G130319-086 Work Order #...: HFEPG Matrix.....: SO
Date Sampled...: 07/12/05 11:12 Date Received...: 07/13/05
% Moisture.....: 2.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.5	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195106
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-495

General Chemistry

Lot-Sample #....: A5G130319-087 Work Order #....: HFEPH Matrix.....: SO
Date Sampled....: 07/12/05 11:15 Date Received...: 07/13/05
% Moisture.....: 1.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.5	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195106
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-496

General Chemistry

Lot-Sample #....: A5G130319-088 Work Order #....: HFEPJ Matrix.....: SO
Date Sampled...: 07/12/05 11:17 Date Received...: 07/13/05
% Moisture.....: 2.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.0	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195106
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-497

General Chemistry

Lot-Sample #....: A5G130319-089 Work Order #....: HFEPK Matrix.....: SO
Date Sampled....: 07/12/05 11:20 Date Received...: 07/13/05
% Moisture.....: 1.3

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	98.7	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195106
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-498

General Chemistry

Lot-Sample #...: A5G130319-090 Work Order #...: HFEPL Matrix.....: SO
Date Sampled...: 07/12/05 11:25 Date Received...: 07/13/05
% Moisture.....: 5.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	95.0	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195106
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-499

General Chemistry

Lot-Sample #....: A5G130319-091 Work Order #....: HFEPN Matrix.....: SO
Date Sampled....: 07/12/05 11:27 Date Received...: 07/13/05
% Moisture.....: 3.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	96.8	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195106
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: SO-17360-071205-DCR-500

General Chemistry

Lot-Sample #....: A5G130319-092 Work Order #....: HFEPP Matrix.....: SO
Date Sampled...: 07/12/05 11:32 Date Received...: 07/13/05
% Moisture.....: 3.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	96.2	10.0	%	MCAWW 160.3 MOD	07/13-07/14/05	5195106
		Dilution Factor: 1		MDL.....: 10.0		



STL

QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A5G130319
MB Lot-Sample #: A5G190000-616

Work Order #...: HFTKJ1AA

Matrix.....: SOLID

Analysis Date...: 07/18/05
Dilution Factor: 1

Prep Date.....: 07/14/05

Prep Batch #...: 5200616

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Acetone	340 J	600	ug/kg		SW846 8260B
Benzene	ND	40	ug/kg		SW846 8260B
Bromodichloromethane	ND	80	ug/kg		SW846 8260B
Bromoform	ND	80	ug/kg		SW846 8260B
Bromomethane	60 J	200	ug/kg		SW846 8260B
2-Butanone	ND	600	ug/kg		SW846 8260B
Carbon disulfide	ND	200	ug/kg		SW846 8260B
Carbon tetrachloride	ND	40	ug/kg		SW846 8260B
Chlorobenzene	ND	40	ug/kg		SW846 8260B
Chloroethane	ND	200	ug/kg		SW846 8260B
Chloroform	ND	40	ug/kg		SW846 8260B
Chloromethane	14 J	200	ug/kg		SW846 8260B
Cyclohexane	ND	960	ug/kg		SW846 8260B
Dibromochloromethane	ND	40	ug/kg		SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	200	ug/kg		SW846 8260B
1,2-Dibromoethane	ND	200	ug/kg		SW846 8260B
1,2-Dichlorobenzene	ND	80	ug/kg		SW846 8260B
1,3-Dichlorobenzene	ND	80	ug/kg		SW846 8260B
1,4-Dichlorobenzene	ND	80	ug/kg		SW846 8260B
Dichlorodifluoromethane	ND	80	ug/kg		SW846 8260B
1,1-Dichloroethane	ND	40	ug/kg		SW846 8260B
1,2-Dichloroethane	ND	40	ug/kg		SW846 8260B
1,1-Dichloroethene	ND	40	ug/kg		SW846 8260B
cis-1,2-Dichloroethene	ND	40	ug/kg		SW846 8260B
trans-1,2-Dichloroethene	ND	40	ug/kg		SW846 8260B
1,2-Dichloropropane	ND	40	ug/kg		SW846 8260B
cis-1,3-Dichloropropene	ND	40	ug/kg		SW846 8260B
trans-1,3-Dichloropropene	ND	40	ug/kg		SW846 8260B
Ethylbenzene	ND	40	ug/kg		SW846 8260B
2-Hexanone	ND	2000	ug/kg		SW846 8260B
Isopropylbenzene	ND	200	ug/kg		SW846 8260B
Methyl acetate	ND	960	ug/kg		SW846 8260B
Methylene chloride	ND	200	ug/kg		SW846 8260B
Methylcyclohexane	ND	960	ug/kg		SW846 8260B
4-Methyl-2-pentanone	ND	2000	ug/kg		SW846 8260B
Methyl tert-butyl ether	ND	200	ug/kg		SW846 8260B
Styrene	ND	40	ug/kg		SW846 8260B
1,1,2,2-Tetrachloroethane	ND	80	ug/kg		SW846 8260B
Tetrachloroethene	ND	40	ug/kg		SW846 8260B
Toluene	ND	80	ug/kg		SW846 8260B

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GC/MS Volatiles

Client Lot #....: A5G130319

Work Order #....: HFTKJ1AA

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2,4-Trichloro- benzene	ND	200	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	40	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	40	ug/kg	SW846 8260B
Trichloroethene	ND	40	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	80	ug/kg	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	SW846 8260B
Vinyl chloride	ND	80	ug/kg	SW846 8260B
Xylenes (total)	ND	120	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(59 - 138)
1,2-Dichloroethane-d4	114	(61 - 130)
Toluene-d8	118	(60 - 143)
4-Bromofluorobenzene	114	(47 - 158)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A5G130319
MB Lot-Sample #: A5G190000-671

Work Order #....: HFTTP1AA

Matrix.....: SOLID

Analysis Date...: 07/18/05
Dilution Factor: 1

Prep Date.....: 07/14/05

Prep Batch #....: 5200671

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	320 J	600	ug/kg	SW846 8260B
Benzene	ND	40	ug/kg	SW846 8260B
Bromodichloromethane	ND	80	ug/kg	SW846 8260B
Bromoform	ND	80	ug/kg	SW846 8260B
Bromomethane	ND	200	ug/kg	SW846 8260B
2-Butanone	ND	600	ug/kg	SW846 8260B
Carbon disulfide	ND	200	ug/kg	SW846 8260B
Carbon tetrachloride	ND	40	ug/kg	SW846 8260B
Chlorobenzene	ND	40	ug/kg	SW846 8260B
Chloroethane	ND	200	ug/kg	SW846 8260B
Chloroform	ND	40	ug/kg	SW846 8260B
Chloromethane	ND	200	ug/kg	SW846 8260B
Cyclohexane	ND	960	ug/kg	SW846 8260B
Dibromochloromethane	ND	40	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	200	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	200	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	80	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	80	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	80	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	80	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	40	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	40	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	40	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	40	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	40	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	40	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	40	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	40	ug/kg	SW846 8260B
Ethylbenzene	ND	40	ug/kg	SW846 8260B
2-Hexanone	ND	2000	ug/kg	SW846 8260B
Isopropylbenzene	ND	200	ug/kg	SW846 8260B
Methyl acetate	ND	960	ug/kg	SW846 8260B
Methylene chloride	ND	200	ug/kg	SW846 8260B
Methylcyclohexane	ND	960	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	2000	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	200	ug/kg	SW846 8260B
Styrene	ND	40	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	SW846 8260B
Tetrachloroethene	ND	40	ug/kg	SW846 8260B
Toluene	ND	80	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A5G130319

Work Order #....: HFTTP1AA

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2,4-Trichloro- benzene	ND	200	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	40	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	40	ug/kg	SW846 8260B
Trichloroethene	ND	40	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	80	ug/kg	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	SW846 8260B
Vinyl chloride	ND	80	ug/kg	SW846 8260B
Xylenes (total)	ND	120	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(59 - 138)
1,2-Dichloroethane-d4	88	(61 - 130)
Toluene-d8	90	(60 - 143)
4-Bromofluorobenzene	93	(47 - 158)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

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GC/MS Volatiles

Client Lot #...: A5G130319
MB Lot-Sample #: A5G200000-491

Work Order #...: HFWWA1AA

Matrix.....: SOLID

Analysis Date...: 07/19/05
Dilution Factor: 1

Prep Date.....: 07/14/05

Prep Batch #...: 5201491

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Acetone	410 J	600	ug/kg	SW846	8260B
Benzene	ND	40	ug/kg	SW846	8260B
Bromodichloromethane	ND	80	ug/kg	SW846	8260B
Bromoform	ND	80	ug/kg	SW846	8260B
Bromomethane	31 J	200	ug/kg	SW846	8260B
2-Butanone	ND	600	ug/kg	SW846	8260B
Carbon disulfide	ND	200	ug/kg	SW846	8260B
Carbon tetrachloride	ND	40	ug/kg	SW846	8260B
Chlorobenzene	ND	40	ug/kg	SW846	8260B
Chloroethane	ND	200	ug/kg	SW846	8260B
Chloroform	ND	40	ug/kg	SW846	8260B
Chloromethane	9.4 J	200	ug/kg	SW846	8260B
Cyclohexane	ND	960	ug/kg	SW846	8260B
Dibromochloromethane	ND	40	ug/kg	SW846	8260B
1,2-Dibromo-3-chloro-propane	ND	200	ug/kg	SW846	8260B
1,2-Dibromoethane	ND	200	ug/kg	SW846	8260B
1,2-Dichlorobenzene	ND	80	ug/kg	SW846	8260B
1,3-Dichlorobenzene	ND	80	ug/kg	SW846	8260B
1,4-Dichlorobenzene	ND	80	ug/kg	SW846	8260B
Dichlorodifluoromethane	ND	80	ug/kg	SW846	8260B
1,1-Dichloroethane	ND	40	ug/kg	SW846	8260B
1,2-Dichloroethane	ND	40	ug/kg	SW846	8260B
1,1-Dichloroethene	ND	40	ug/kg	SW846	8260B
cis-1,2-Dichloroethene	ND	40	ug/kg	SW846	8260B
trans-1,2-Dichloroethene	ND	40	ug/kg	SW846	8260B
1,2-Dichloropropane	ND	40	ug/kg	SW846	8260B
cis-1,3-Dichloropropene	ND	40	ug/kg	SW846	8260B
trans-1,3-Dichloropropene	ND	40	ug/kg	SW846	8260B
Ethylbenzene	ND	40	ug/kg	SW846	8260B
2-Hexanone	ND	2000	ug/kg	SW846	8260B
Isopropylbenzene	ND	200	ug/kg	SW846	8260B
Methyl acetate	ND	960	ug/kg	SW846	8260B
Methylene chloride	ND	200	ug/kg	SW846	8260B
Methylcyclohexane	ND	960	ug/kg	SW846	8260B
4-Methyl-2-pentanone	ND	2000	ug/kg	SW846	8260B
Methyl tert-butyl ether	ND	200	ug/kg	SW846	8260B
Styrene	ND	40	ug/kg	SW846	8260B
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	SW846	8260B
Tetrachloroethene	ND	40	ug/kg	SW846	8260B
Toluene	ND	80	ug/kg	SW846	8260B

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GC/MS Volatiles

Client Lot #....: A5G130319

Work Order #....: HFWWA1AA

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2,4-Trichloro- benzene	ND	200	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	40	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	40	ug/kg	SW846 8260B
Trichloroethene	ND	40	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	80	ug/kg	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	SW846 8260B
Vinyl chloride	ND	80	ug/kg	SW846 8260B
Xylenes (total)	ND	120	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(59 - 138)
1,2-Dichloroethane-d4	104	(61 - 130)
Toluene-d8	106	(60 - 143)
4-Bromofluorobenzene	106	(47 - 158)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A5G130319
MB Lot-Sample #: A5G210000-495

Work Order #....: HF1571AA

Matrix.....: SOLID

Analysis Date...: 07/20/05
Dilution Factor: 1

Prep Date.....: 07/14/05

Prep Batch #....: 5202495

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	330 J	600	ug/kg	SW846 8260B
Benzene	ND	40	ug/kg	SW846 8260B
Bromodichloromethane	ND	80	ug/kg	SW846 8260B
Bromoform	ND	80	ug/kg	SW846 8260B
Bromomethane	51 J	200	ug/kg	SW846 8260B
2-Butanone	ND	600	ug/kg	SW846 8260B
Carbon disulfide	ND	200	ug/kg	SW846 8260B
Carbon tetrachloride	ND	40	ug/kg	SW846 8260B
Chlorobenzene	ND	40	ug/kg	SW846 8260B
Chloroethane	ND	200	ug/kg	SW846 8260B
Chloroform	ND	40	ug/kg	SW846 8260B
Chloromethane	8.8 J	200	ug/kg	SW846 8260B
Cyclohexane	ND	960	ug/kg	SW846 8260B
Dibromochloromethane	ND	40	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	200	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	200	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	80	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	80	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	80	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	80	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	40	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	40	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	40	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	40	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	40	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	40	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	40	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	40	ug/kg	SW846 8260B
Ethylbenzene	ND	40	ug/kg	SW846 8260B
2-Hexanone	ND	2000	ug/kg	SW846 8260B
Isopropylbenzene	ND	200	ug/kg	SW846 8260B
Methyl acetate	ND	960	ug/kg	SW846 8260B
Methylene chloride	ND	200	ug/kg	SW846 8260B
Methylcyclohexane	ND	960	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	2000	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	200	ug/kg	SW846 8260B
Styrene	ND	40	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	80	ug/kg	SW846 8260B
Tetrachloroethene	ND	40	ug/kg	SW846 8260B
Toluene	ND	80	ug/kg	SW846 8260B

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GC/MS Volatiles

Client Lot #....: A5G130319

Work Order #....: HF1571AA

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2,4-Trichloro- benzene	ND	200	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	40	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	40	ug/kg	SW846 8260B
Trichloroethene	ND	40	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	80	ug/kg	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	SW846 8260B
Vinyl chloride	ND	80	ug/kg	SW846 8260B
Xylenes (total)	ND	120	ug/kg	SW846 8260B
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Dibromofluoromethane	93	(59 - 138)		
1,2-Dichloroethane-d4	105	(61 - 130)		
Toluene-d8	109	(60 - 143)		
4-Bromofluorobenzene	104	(47 - 158)		

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

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GC/MS Volatiles

Client Lot #...: A5G130319
MB Lot-Sample #: A5G220000-323

Work Order #...: HF4AE1AA

Matrix.....: SOLID

Prep Date.....: 07/14/05

Analysis Date...: 07/21/05

Prep Batch #...: 5203323

Dilution Factor: 1

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Acetone	320 J	600	ug/kg		SW846 8260B
Benzene	ND	40	ug/kg		SW846 8260B
Bromodichloromethane	ND	80	ug/kg		SW846 8260B
Bromoform	ND	80	ug/kg		SW846 8260B
Bromomethane	ND	200	ug/kg		SW846 8260B
2-Butanone	ND	600	ug/kg		SW846 8260B
Carbon disulfide	ND	200	ug/kg		SW846 8260B
Carbon tetrachloride	ND	40	ug/kg		SW846 8260B
Chlorobenzene	ND	40	ug/kg		SW846 8260B
Chloroethane	ND	200	ug/kg		SW846 8260B
Chloroform	ND	40	ug/kg		SW846 8260B
Chloromethane	11 J	200	ug/kg		SW846 8260B
Cyclohexane	ND	960	ug/kg		SW846 8260B
Dibromochloromethane	ND	40	ug/kg		SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	200	ug/kg		SW846 8260B
1,2-Dibromoethane	ND	200	ug/kg		SW846 8260B
1,2-Dichlorobenzene	ND	80	ug/kg		SW846 8260B
1,3-Dichlorobenzene	ND	80	ug/kg		SW846 8260B
1,4-Dichlorobenzene	ND	80	ug/kg		SW846 8260B
Dichlorodifluoromethane	ND	80	ug/kg		SW846 8260B
1,1-Dichloroethane	ND	40	ug/kg		SW846 8260B
1,2-Dichloroethane	ND	40	ug/kg		SW846 8260B
1,1-Dichloroethene	ND	40	ug/kg		SW846 8260B
cis-1,2-Dichloroethene	ND	40	ug/kg		SW846 8260B
trans-1,2-Dichloroethene	ND	40	ug/kg		SW846 8260B
1,2-Dichloropropane	ND	40	ug/kg		SW846 8260B
cis-1,3-Dichloropropene	ND	40	ug/kg		SW846 8260B
trans-1,3-Dichloropropene	ND	40	ug/kg		SW846 8260B
Ethylbenzene	ND	40	ug/kg		SW846 8260B
2-Hexanone	ND	2000	ug/kg		SW846 8260B
Isopropylbenzene	ND	200	ug/kg		SW846 8260B
Methyl acetate	ND	960	ug/kg		SW846 8260B
Methylene chloride	ND	200	ug/kg		SW846 8260B
Methylcyclohexane	ND	960	ug/kg		SW846 8260B
4-Methyl-2-pentanone	ND	2000	ug/kg		SW846 8260B
Methyl tert-butyl ether	ND	200	ug/kg		SW846 8260B
Styrene	ND	40	ug/kg		SW846 8260B
1,1,2,2-Tetrachloroethane	ND	80	ug/kg		SW846 8260B
Tetrachloroethene	ND	40	ug/kg		SW846 8260B
Toluene	ND	80	ug/kg		SW846 8260B

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GC/MS Volatiles

Client Lot #....: A5G130319

Work Order #....: HF4AE1AA

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2,4-Trichloro- benzene	ND	200	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	40	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	40	ug/kg	SW846 8260B
Trichloroethene	ND	40	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	80	ug/kg	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	200	ug/kg	SW846 8260B
Vinyl chloride	ND	80	ug/kg	SW846 8260B
Xylenes (total)	ND	120	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(59 - 138)
1,2-Dichloroethane-d4	94	(61 - 130)
Toluene-d8	102	(60 - 143)
4-Bromofluorobenzene	93	(47 - 158)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFTKJ1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A5G190000-616 HFTKJ1AD-LCSD
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200616
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acetone	200	480 a	ug/kg	238		SW846 8260B
	200	530 a	ug/kg	266	11	SW846 8260B
Benzene	200	190	ug/kg	96		SW846 8260B
	200	200	ug/kg	102	6.7	SW846 8260B
Bromodichloromethane	200	150	ug/kg	75		SW846 8260B
	200	140 a	ug/kg	69	8.0	SW846 8260B
Bromoform	200	170	ug/kg	87		SW846 8260B
	200	160	ug/kg	82	5.8	SW846 8260B
Bromomethane	200	190	ug/kg	97		SW846 8260B
	200	160	ug/kg	81	18	SW846 8260B
2-Butanone	200	310	ug/kg	153		SW846 8260B
	200	330	ug/kg	164	7.0	SW846 8260B
Carbon disulfide	200	170	ug/kg	85		SW846 8260B
	200	180	ug/kg	88	3.8	SW846 8260B
Carbon tetrachloride	200	130	ug/kg	64		SW846 8260B
	200	130	ug/kg	66	2.5	SW846 8260B
Chlorobenzene	200	190	ug/kg	97		SW846 8260B
	200	190	ug/kg	96	1.3	SW846 8260B
Chloroethane	200	98	ug/kg	49		SW846 8260B
	200	96	ug/kg	48	2.6	SW846 8260B
Chloroform	200	190	ug/kg	96		SW846 8260B
	200	210	ug/kg	103	7.1	SW846 8260B
Chloromethane	200	190	ug/kg	94		SW846 8260B
	200	190	ug/kg	97	3.3	SW846 8260B
Dibromochloromethane	200	150	ug/kg	77		SW846 8260B
	200	140	ug/kg	70	9.6	SW846 8260B
1,1-Dichloroethane	200	190	ug/kg	94		SW846 8260B
	200	210	ug/kg	105	11	SW846 8260B
1,2-Dichloroethane	200	200	ug/kg	99		SW846 8260B
	200	210	ug/kg	104	4.3	SW846 8260B
1,1-Dichloroethene	200	190	ug/kg	96		SW846 8260B
	200	200	ug/kg	102	5.5	SW846 8260B
cis-1,2-Dichloroethene	200	170	ug/kg	87		SW846 8260B
	200	190	ug/kg	93	7.1	SW846 8260B
trans-1,2-Dichloroethene	200	190	ug/kg	93		SW846 8260B
	200	200	ug/kg	101	8.9	SW846 8260B
1,2-Dichloropropane	200	190	ug/kg	97		SW846 8260B
	200	200	ug/kg	101	4.6	SW846 8260B
cis-1,3-Dichloropropene	200	140	ug/kg	72		SW846 8260B
	200	150	ug/kg	75	4.6	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFTKJ1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A5G190000-616 HFTKJ1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
trans-1,3-Dichloropropene	200	130 a	ug/kg	65		SW846 8260B
	200	140	ug/kg	69	6.8	SW846 8260B
Ethylbenzene	200	190	ug/kg	93		SW846 8260B
	200	190	ug/kg	97	4.2	SW846 8260B
2-Hexanone	200	150	ug/kg	74		SW846 8260B
	200	160	ug/kg	78	5.2	SW846 8260B
Methylene chloride	200	240	ug/kg	121		SW846 8260B
	200	250	ug/kg	124	2.7	SW846 8260B
4-Methyl-2-pentanone	200	160	ug/kg	81		SW846 8260B
	200	180	ug/kg	89	8.8	SW846 8260B
Methyl tert-butyl ether	200	160	ug/kg	82		SW846 8260B
	200	180	ug/kg	91	11	SW846 8260B
Styrene	200	170	ug/kg	86		SW846 8260B
	200	180	ug/kg	90	3.5	SW846 8260B
1,1,2,2-Tetrachloroethane	200	180	ug/kg	92		SW846 8260B
	200	200	ug/kg	99	7.3	SW846 8260B
Tetrachloroethene	200	190	ug/kg	97		SW846 8260B
	200	190	ug/kg	97	0.55	SW846 8260B
Toluene	200	200	ug/kg	98		SW846 8260B
	200	200	ug/kg	101	2.6	SW846 8260B
1,1,1-Trichloroethane	200	180	ug/kg	88		SW846 8260B
	200	180	ug/kg	89	0.95	SW846 8260B
1,1,2-Trichloroethane	200	200	ug/kg	98		SW846 8260B
	200	200	ug/kg	101	2.2	SW846 8260B
Trichloroethene	200	190	ug/kg	94		SW846 8260B
	200	210	ug/kg	103	9.2	SW846 8260B
Vinyl chloride	200	180	ug/kg	91		SW846 8260B
	200	210	ug/kg	104	13	SW846 8260B
Xylenes (total)	600	550	ug/kg	91		SW846 8260B
	600	580	ug/kg	96	5.2	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(59 - 138)
	106	(59 - 138)
1,2-Dichloroethane-d4	104	(61 - 130)
	115	(61 - 130)
Toluene-d8	110	(60 - 143)
	111	(60 - 143)
4-Bromofluorobenzene	111	(47 - 158)
	112	(47 - 158)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFTKJ1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A5G190000-616 HFTKJ1AD-LCSD
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200616
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	238 a	(58 - 130)			SW846 8260B
	266 a	(58 - 130)	11	(0-30)	SW846 8260B
Benzene	96	(75 - 129)			SW846 8260B
	102	(75 - 129)	6.7	(0-20)	SW846 8260B
Bromodichloromethane	75	(72 - 125)			SW846 8260B
	69 a	(72 - 125)	8.0	(0-30)	SW846 8260B
Bromoform	87	(43 - 149)			SW846 8260B
	82	(43 - 149)	5.8	(0-30)	SW846 8260B
Bromomethane	97	(24 - 152)			SW846 8260B
	81	(24 - 152)	18	(0-30)	SW846 8260B
2-Butanone	153	(27 - 200)			SW846 8260B
	164	(27 - 200)	7.0	(0-46)	SW846 8260B
Carbon disulfide	85	(50 - 137)			SW846 8260B
	88	(50 - 137)	3.8	(0-30)	SW846 8260B
Carbon tetrachloride	64	(57 - 137)			SW846 8260B
	66	(57 - 137)	2.5	(0-30)	SW846 8260B
Chlorobenzene	97	(75 - 127)			SW846 8260B
	96	(75 - 127)	1.3	(0-22)	SW846 8260B
Chloroethane	49	(31 - 144)			SW846 8260B
	48	(31 - 144)	2.6	(0-30)	SW846 8260B
Chloroform	96	(73 - 115)			SW846 8260B
	103	(73 - 115)	7.1	(0-30)	SW846 8260B
Chloromethane	94	(15 - 136)			SW846 8260B
	97	(15 - 136)	3.3	(0-30)	SW846 8260B
Dibromochloromethane	77	(49 - 135)			SW846 8260B
	70	(49 - 135)	9.6	(0-30)	SW846 8260B
1,1-Dichloroethane	94	(77 - 119)			SW846 8260B
	105	(77 - 119)	11	(0-30)	SW846 8260B
1,2-Dichloroethane	99	(78 - 121)			SW846 8260B
	104	(78 - 121)	4.3	(0-30)	SW846 8260B
1,1-Dichloroethene	96	(55 - 142)			SW846 8260B
	102	(55 - 142)	5.5	(0-27)	SW846 8260B
cis-1,2-Dichloroethene	87	(77 - 114)			SW846 8260B
	93	(77 - 114)	7.1	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	93	(68 - 117)			SW846 8260B
	101	(68 - 117)	8.9	(0-30)	SW846 8260B
1,2-Dichloropropane	97	(78 - 116)			SW846 8260B
	101	(78 - 116)	4.6	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	72	(71 - 125)			SW846 8260B
	75	(71 - 125)	4.6	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFTKJ1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A5G190000-616 HFTKJ1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
trans-1,3-Dichloropropene	65 a	(67 - 125)			SW846 8260B
	69	(67 - 125)	6.8	(0-30)	SW846 8260B
Ethylbenzene	93	(79 - 114)			SW846 8260B
	97	(79 - 114)	4.2	(0-30)	SW846 8260B
2-Hexanone	74	(29 - 200)			SW846 8260B
	78	(29 - 200)	5.2	(0-41)	SW846 8260B
Methylene chloride	121	(58 - 130)			SW846 8260B
	124	(58 - 130)	2.7	(0-30)	SW846 8260B
4-Methyl-2-pentanone	81	(68 - 142)			SW846 8260B
	89	(68 - 142)	8.8	(0-60)	SW846 8260B
Methyl tert-butyl ether	82	(70 - 130)			SW846 8260B
	91	(70 - 130)	11	(0-30)	SW846 8260B
Styrene	86	(80 - 114)			SW846 8260B
	90	(80 - 114)	3.5	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	92	(70 - 133)			SW846 8260B
	99	(70 - 133)	7.3	(0-30)	SW846 8260B
Tetrachloroethene	97	(72 - 120)			SW846 8260B
	97	(72 - 120)	0.55	(0-30)	SW846 8260B
Toluene	98	(71 - 130)			SW846 8260B
	101	(71 - 130)	2.6	(0-24)	SW846 8260B
1,1,1-Trichloroethane	88	(67 - 123)			SW846 8260B
	89	(67 - 123)	0.95	(0-30)	SW846 8260B
1,1,2-Trichloroethane	98	(82 - 116)			SW846 8260B
	101	(82 - 116)	2.2	(0-30)	SW846 8260B
Trichloroethene	94	(70 - 131)			SW846 8260B
	103	(70 - 131)	9.2	(0-23)	SW846 8260B
Vinyl chloride	91	(24 - 152)			SW846 8260B
	104	(24 - 152)	13	(0-30)	SW846 8260B
Xylenes (total)	91	(80 - 114)			SW846 8260B
	96	(80 - 114)	5.2	(0-30)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(59 - 138)
	106	(59 - 138)
1,2-Dichloroethane-d4	104	(61 - 130)
	115	(61 - 130)
Toluene-d8	110	(60 - 143)
	111	(60 - 143)
4-Bromofluorobenzene	111	(47 - 158)
	112	(47 - 158)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFTTP1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A5G190000-671 HFTTP1AD-LCSD
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200671
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acetone	200	410 a	ug/kg	203		SW846 8260B
	200	400 a	ug/kg	199	2.0	SW846 8260B
Benzene	200	200	ug/kg	101		SW846 8260B
	200	190	ug/kg	95	6.0	SW846 8260B
Bromodichloromethane	200	160	ug/kg	81		SW846 8260B
	200	150	ug/kg	74	8.8	SW846 8260B
Bromoform	200	170	ug/kg	86		SW846 8260B
	200	150	ug/kg	75	14	SW846 8260B
Bromomethane	200	260	ug/kg	132		SW846 8260B
	200	220	ug/kg	110	18	SW846 8260B
2-Butanone	200	130	ug/kg	64		SW846 8260B
	200	230 p	ug/kg	117	58	SW846 8260B
Carbon disulfide	200	160	ug/kg	81		SW846 8260B
	200	160	ug/kg	80	2.2	SW846 8260B
Carbon tetrachloride	200	170	ug/kg	87		SW846 8260B
	200	160	ug/kg	81	6.8	SW846 8260B
Chlorobenzene	200	200	ug/kg	100		SW846 8260B
	200	200	ug/kg	101	0.95	SW846 8260B
Chloroethane	200	180	ug/kg	88		SW846 8260B
	200	150	ug/kg	73	19	SW846 8260B
Chloroform	200	190	ug/kg	94		SW846 8260B
	200	190	ug/kg	95	0.50	SW846 8260B
Chloromethane	200	150	ug/kg	76		SW846 8260B
	200	130	ug/kg	64	17	SW846 8260B
Dibromochloromethane	200	140	ug/kg	68		SW846 8260B
	200	120	ug/kg	60	12	SW846 8260B
1,1-Dichloroethane	200	200	ug/kg	102		SW846 8260B
	200	190	ug/kg	95	7.0	SW846 8260B
1,2-Dichloroethane	200	190	ug/kg	94		SW846 8260B
	200	180	ug/kg	92	2.4	SW846 8260B
1,1-Dichloroethene	200	200	ug/kg	100		SW846 8260B
	200	190	ug/kg	96	4.7	SW846 8260B
cis-1,2-Dichloroethene	200	180	ug/kg	91		SW846 8260B
	200	180	ug/kg	91	0.42	SW846 8260B
trans-1,2-Dichloroethene	200	190	ug/kg	94		SW846 8260B
	200	190	ug/kg	93	1.1	SW846 8260B
1,2-Dichloropropane	200	190	ug/kg	94		SW846 8260B
	200	190	ug/kg	96	1.4	SW846 8260B
cis-1,3-Dichloropropene	200	180	ug/kg	90		SW846 8260B
	200	160	ug/kg	82	9.1	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFTTP1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A5G190000-671 HFTTP1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
trans-1,3-Dichloropropene	200	170	ug/kg	86		SW846 8260B
	200	170	ug/kg	83	3.7	SW846 8260B
Ethylbenzene	200	200	ug/kg	98		SW846 8260B
	200	200	ug/kg	99	1.5	SW846 8260B
2-Hexanone	200	120	ug/kg	61		SW846 8260B
	200	110	ug/kg	54	13	SW846 8260B
Methylene chloride	200	250	ug/kg	125		SW846 8260B
	200	240	ug/kg	120	4.0	SW846 8260B
4-Methyl-2-pentanone	200	150	ug/kg	77		SW846 8260B
	200	140	ug/kg	72	6.4	SW846 8260B
Methyl tert-butyl ether	200	190	ug/kg	95		SW846 8260B
	200	190	ug/kg	93	1.4	SW846 8260B
Styrene	200	190	ug/kg	97		SW846 8260B
	200	190	ug/kg	93	3.6	SW846 8260B
1,1,2,2-Tetrachloroethane	200	190	ug/kg	96		SW846 8260B
	200	190	ug/kg	97	2.0	SW846 8260B
Tetrachloroethene	200	210	ug/kg	104		SW846 8260B
	200	200	ug/kg	100	3.8	SW846 8260B
Toluene	200	190	ug/kg	96		SW846 8260B
	200	200	ug/kg	99	2.4	SW846 8260B
1,1,1-Trichloroethane	200	180	ug/kg	88		SW846 8260B
	200	170	ug/kg	87	1.0	SW846 8260B
1,1,2-Trichloroethane	200	200	ug/kg	98		SW846 8260B
	200	190	ug/kg	94	4.9	SW846 8260B
Trichloroethene	200	200	ug/kg	100		SW846 8260B
	200	190	ug/kg	97	3.0	SW846 8260B
Vinyl chloride	200	170	ug/kg	87		SW846 8260B
	200	160	ug/kg	82	5.3	SW846 8260B
Xylenes (total)	600	600	ug/kg	100		SW846 8260B
	600	600	ug/kg	99	0.25	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(59 - 138)
	88	(59 - 138)
1,2-Dichloroethane-d4	85	(61 - 130)
	86	(61 - 130)
Toluene-d8	89	(60 - 143)
	93	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)
	90	(47 - 158)

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A5G130319 Work Order #...: HFTTP1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A5G190000-671 HFTTP1AD-LCSD

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

- a Spiked analyte recovery is outside stated control limits.
- p Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFTTP1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A5G190000-671 HFTTP1AD-LCSD
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200671
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	203 a	(58 - 130)			SW846 8260B
	199 a	(58 - 130)	2.0	(0-30)	SW846 8260B
Benzene	101	(75 - 129)			SW846 8260B
	95	(75 - 129)	6.0	(0-20)	SW846 8260B
Bromodichloromethane	81	(72 - 125)			SW846 8260B
	74	(72 - 125)	8.8	(0-30)	SW846 8260B
Bromoform	86	(43 - 149)			SW846 8260B
	75	(43 - 149)	14	(0-30)	SW846 8260B
Bromomethane	132	(24 - 152)			SW846 8260B
	110	(24 - 152)	18	(0-30)	SW846 8260B
2-Butanone	64	(27 - 200)			SW846 8260B
	117 p	(27 - 200)	58	(0-46)	SW846 8260B
Carbon disulfide	81	(50 - 137)			SW846 8260B
	80	(50 - 137)	2.2	(0-30)	SW846 8260B
Carbon tetrachloride	87	(57 - 137)			SW846 8260B
	81	(57 - 137)	6.8	(0-30)	SW846 8260B
Chlorobenzene	100	(75 - 127)			SW846 8260B
	101	(75 - 127)	0.95	(0-22)	SW846 8260B
Chloroethane	88	(31 - 144)			SW846 8260B
	73	(31 - 144)	19	(0-30)	SW846 8260B
Chloroform	94	(73 - 115)			SW846 8260B
	95	(73 - 115)	0.50	(0-30)	SW846 8260B
Chloromethane	76	(15 - 136)			SW846 8260B
	64	(15 - 136)	17	(0-30)	SW846 8260B
Dibromochloromethane	68	(49 - 135)			SW846 8260B
	60	(49 - 135)	12	(0-30)	SW846 8260B
1,1-Dichloroethane	102	(77 - 119)			SW846 8260B
	95	(77 - 119)	7.0	(0-30)	SW846 8260B
1,2-Dichloroethane	94	(78 - 121)			SW846 8260B
	92	(78 - 121)	2.4	(0-30)	SW846 8260B
1,1-Dichloroethene	100	(55 - 142)			SW846 8260B
	96	(55 - 142)	4.7	(0-27)	SW846 8260B
cis-1,2-Dichloroethene	91	(77 - 114)			SW846 8260B
	91	(77 - 114)	0.42	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	94	(68 - 117)			SW846 8260B
	93	(68 - 117)	1.1	(0-30)	SW846 8260B
1,2-Dichloropropane	94	(78 - 116)			SW846 8260B
	96	(78 - 116)	1.4	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	90	(71 - 125)			SW846 8260B
	82	(71 - 125)	9.1	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A5G130319 Work Order #...: HFTTP1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A5G190000-671 HFTTP1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
trans-1,3-Dichloropropene	86	(67 - 125)			SW846 8260B
	83	(67 - 125)	3.7	(0-30)	SW846 8260B
Ethylbenzene	98	(79 - 114)			SW846 8260B
	99	(79 - 114)	1.5	(0-30)	SW846 8260B
2-Hexanone	61	(29 - 200)			SW846 8260B
	54	(29 - 200)	13	(0-41)	SW846 8260B
Methylene chloride	125	(58 - 130)			SW846 8260B
	120	(58 - 130)	4.0	(0-30)	SW846 8260B
4-Methyl-2-pentanone	77	(68 - 142)			SW846 8260B
	72	(68 - 142)	6.4	(0-60)	SW846 8260B
Methyl tert-butyl ether	95	(70 - 130)			SW846 8260B
	93	(70 - 130)	1.4	(0-30)	SW846 8260B
Styrene	97	(80 - 114)			SW846 8260B
	93	(80 - 114)	3.6	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	96	(70 - 133)			SW846 8260B
	97	(70 - 133)	2.0	(0-30)	SW846 8260B
Tetrachloroethene	104	(72 - 120)			SW846 8260B
	100	(72 - 120)	3.8	(0-30)	SW846 8260B
Toluene	96	(71 - 130)			SW846 8260B
	99	(71 - 130)	2.4	(0-24)	SW846 8260B
1,1,1-Trichloroethane	88	(67 - 123)			SW846 8260B
	87	(67 - 123)	1.0	(0-30)	SW846 8260B
1,1,2-Trichloroethane	98	(82 - 116)			SW846 8260B
	94	(82 - 116)	4.9	(0-30)	SW846 8260B
Trichloroethene	100	(70 - 131)			SW846 8260B
	97	(70 - 131)	3.0	(0-23)	SW846 8260B
Vinyl chloride	87	(24 - 152)			SW846 8260B
	82	(24 - 152)	5.3	(0-30)	SW846 8260B
Xylenes (total)	100	(80 - 114)			SW846 8260B
	99	(80 - 114)	0.25	(0-30)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(59 - 138)
	88	(59 - 138)
1,2-Dichloroethane-d4	85	(61 - 130)
	86	(61 - 130)
Toluene-d8	89	(60 - 143)
	93	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)
	90	(47 - 158)

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFTTP1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A5G190000-671 HFTTP1AD-LCSD

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFWWA1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A5G200000-491 HFWWA1AD-LCSD
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5201491
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acetone	200	600 a	ug/kg	300		SW846 8260B
	200	600 a	ug/kg	301	0.56	SW846 8260B
Benzene	200	190	ug/kg	95		SW846 8260B
	200	190	ug/kg	97	1.8	SW846 8260B
Bromodichloromethane	200	140 a	ug/kg	71		SW846 8260B
	200	130 a	ug/kg	63	12	SW846 8260B
Bromoform	200	160	ug/kg	82		SW846 8260B
	200	140	ug/kg	72	12	SW846 8260B
Bromomethane	200	140	ug/kg	69		SW846 8260B
	200	120	ug/kg	62	12	SW846 8260B
2-Butanone	200	160	ug/kg	78		SW846 8260B
	200	130	ug/kg	64	19	SW846 8260B
Carbon disulfide	200	160	ug/kg	82		SW846 8260B
	200	160	ug/kg	79	3.7	SW846 8260B
Carbon tetrachloride	200	130	ug/kg	67		SW846 8260B
	200	120	ug/kg	61	8.1	SW846 8260B
Chlorobenzene	200	190	ug/kg	95		SW846 8260B
	200	190	ug/kg	93	1.9	SW846 8260B
Chloroethane	200	94	ug/kg	47		SW846 8260B
	200	94	ug/kg	47	0.19	SW846 8260B
Chloroform	200	200	ug/kg	98		SW846 8260B
	200	190	ug/kg	96	1.8	SW846 8260B
Chloromethane	200	180	ug/kg	88		SW846 8260B
	200	180	ug/kg	88	0.76	SW846 8260B
Dibromochloromethane	200	130	ug/kg	67		SW846 8260B
	200	120	ug/kg	60	11	SW846 8260B
1,1-Dichloroethane	200	190	ug/kg	97		SW846 8260B
	200	190	ug/kg	97	0.53	SW846 8260B
1,2-Dichloroethane	200	200	ug/kg	99		SW846 8260B
	200	210	ug/kg	103	4.4	SW846 8260B
1,1-Dichloroethene	200	180	ug/kg	90		SW846 8260B
	200	190	ug/kg	96	6.8	SW846 8260B
cis-1,2-Dichloroethene	200	180	ug/kg	89		SW846 8260B
	200	180	ug/kg	88	1.6	SW846 8260B
trans-1,2-Dichloroethene	200	190	ug/kg	95		SW846 8260B
	200	200	ug/kg	98	2.3	SW846 8260B
1,2-Dichloropropane	200	200	ug/kg	98		SW846 8260B
	200	200	ug/kg	98	0.27	SW846 8260B
cis-1,3-Dichloropropene	200	150	ug/kg	74		SW846 8260B
	200	150	ug/kg	73	1.5	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFWWA1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A5G200000-491 HFWWA1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
trans-1,3-Dichloropropene	200	140	ug/kg	70		SW846 8260B
	200	140	ug/kg	68	3.4	SW846 8260B
Ethylbenzene	200	190	ug/kg	97		SW846 8260B
	200	190	ug/kg	96	0.98	SW846 8260B
2-Hexanone	200	170	ug/kg	87		SW846 8260B
	200	170	ug/kg	83	4.2	SW846 8260B
Methylene chloride	200	280 a	ug/kg	141		SW846 8260B
	200	290 a	ug/kg	144	2.0	SW846 8260B
4-Methyl-2-pentanone	200	180	ug/kg	92		SW846 8260B
	200	180	ug/kg	90	2.5	SW846 8260B
Methyl tert-butyl ether	200	180	ug/kg	90		SW846 8260B
	200	180	ug/kg	88	2.9	SW846 8260B
Styrene	200	180	ug/kg	91		SW846 8260B
	200	180	ug/kg	88	3.2	SW846 8260B
1,1,2,2-Tetrachloroethane	200	200	ug/kg	101		SW846 8260B
	200	190	ug/kg	96	5.2	SW846 8260B
Tetrachloroethene	200	200	ug/kg	100		SW846 8260B
	200	190	ug/kg	93	7.0	SW846 8260B
Toluene	200	200	ug/kg	98		SW846 8260B
	200	200	ug/kg	99	0.12	SW846 8260B
1,1,1-Trichloroethane	200	170	ug/kg	86		SW846 8260B
	200	170	ug/kg	86	0.070	SW846 8260B
1,1,2-Trichloroethane	200	190	ug/kg	95		SW846 8260B
	200	190	ug/kg	96	0.99	SW846 8260B
Trichloroethene	200	200	ug/kg	98		SW846 8260B
	200	190	ug/kg	95	4.0	SW846 8260B
Vinyl chloride	200	180	ug/kg	91		SW846 8260B
	200	200	ug/kg	98	7.3	SW846 8260B
Xylenes (total)	600	570	ug/kg	94		SW846 8260B
	600	550	ug/kg	92	2.9	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(59 - 138)
	101	(59 - 138)
1,2-Dichloroethane-d4	105	(61 - 130)
	109	(61 - 130)
Toluene-d8	104	(60 - 143)
	109	(60 - 143)
4-Bromofluorobenzene	108	(47 - 158)
	110	(47 - 158)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFWWA1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A5G200000-491 HFWWA1AD-LCSD
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5201491
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	300 a	(58 - 130)			SW846 8260B
	301 a	(58 - 130)	0.56	(0-30)	SW846 8260B
Benzene	95	(75 - 129)			SW846 8260B
	97	(75 - 129)	1.8	(0-20)	SW846 8260B
Bromodichloromethane	71 a	(72 - 125)			SW846 8260B
	63 a	(72 - 125)	12	(0-30)	SW846 8260B
Bromoform	82	(43 - 149)			SW846 8260B
	72	(43 - 149)	12	(0-30)	SW846 8260B
Bromomethane	69	(24 - 152)			SW846 8260B
	62	(24 - 152)	12	(0-30)	SW846 8260B
2-Butanone	78	(27 - 200)			SW846 8260B
	64	(27 - 200)	19	(0-46)	SW846 8260B
Carbon disulfide	82	(50 - 137)			SW846 8260B
	79	(50 - 137)	3.7	(0-30)	SW846 8260B
Carbon tetrachloride	67	(57 - 137)			SW846 8260B
	61	(57 - 137)	8.1	(0-30)	SW846 8260B
Chlorobenzene	95	(75 - 127)			SW846 8260B
	93	(75 - 127)	1.9	(0-22)	SW846 8260B
Chloroethane	47	(31 - 144)			SW846 8260B
	47	(31 - 144)	0.19	(0-30)	SW846 8260B
Chloroform	98	(73 - 115)			SW846 8260B
	96	(73 - 115)	1.8	(0-30)	SW846 8260B
Chloromethane	88	(15 - 136)			SW846 8260B
	88	(15 - 136)	0.76	(0-30)	SW846 8260B
Dibromochloromethane	67	(49 - 135)			SW846 8260B
	60	(49 - 135)	11	(0-30)	SW846 8260B
1,1-Dichloroethane	97	(77 - 119)			SW846 8260B
	97	(77 - 119)	0.53	(0-30)	SW846 8260B
1,2-Dichloroethane	99	(78 - 121)			SW846 8260B
	103	(78 - 121)	4.4	(0-30)	SW846 8260B
1,1-Dichloroethene	90	(55 - 142)			SW846 8260B
	96	(55 - 142)	6.8	(0-27)	SW846 8260B
cis-1,2-Dichloroethene	89	(77 - 114)			SW846 8260B
	88	(77 - 114)	1.6	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	95	(68 - 117)			SW846 8260B
	98	(68 - 117)	2.3	(0-30)	SW846 8260B
1,2-Dichloropropane	98	(78 - 116)			SW846 8260B
	98	(78 - 116)	0.27	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	74	(71 - 125)			SW846 8260B
	73	(71 - 125)	1.5	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFWWA1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A5G200000-491 HFWWA1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
trans-1,3-Dichloropropene	70	(67 - 125)			SW846 8260B
	68	(67 - 125)	3.4	(0-30)	SW846 8260B
Ethylbenzene	97	(79 - 114)			SW846 8260B
	96	(79 - 114)	0.98	(0-30)	SW846 8260B
2-Hexanone	87	(29 - 200)			SW846 8260B
	83	(29 - 200)	4.2	(0-41)	SW846 8260B
Methylene chloride	141 a	(58 - 130)			SW846 8260B
	144 a	(58 - 130)	2.0	(0-30)	SW846 8260B
4-Methyl-2-pentanone	92	(68 - 142)			SW846 8260B
	90	(68 - 142)	2.5	(0-60)	SW846 8260B
Methyl tert-butyl ether	90	(70 - 130)			SW846 8260B
	88	(70 - 130)	2.9	(0-30)	SW846 8260B
Styrene	91	(80 - 114)			SW846 8260B
	88	(80 - 114)	3.2	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	101	(70 - 133)			SW846 8260B
	96	(70 - 133)	5.2	(0-30)	SW846 8260B
Tetrachloroethene	100	(72 - 120)			SW846 8260B
	93	(72 - 120)	7.0	(0-30)	SW846 8260B
Toluene	98	(71 - 130)			SW846 8260B
	99	(71 - 130)	0.12	(0-24)	SW846 8260B
1,1,1-Trichloroethane	86	(67 - 123)			SW846 8260B
	86	(67 - 123)	0.070	(0-30)	SW846 8260B
1,1,2-Trichloroethane	95	(82 - 116)			SW846 8260B
	96	(82 - 116)	0.99	(0-30)	SW846 8260B
Trichloroethene	98	(70 - 131)			SW846 8260B
	95	(70 - 131)	4.0	(0-23)	SW846 8260B
Vinyl chloride	91	(24 - 152)			SW846 8260B
	98	(24 - 152)	7.3	(0-30)	SW846 8260B
Xylenes (total)	94	(80 - 114)			SW846 8260B
	92	(80 - 114)	2.9	(0-30)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(59 - 138)
	101	(59 - 138)
1,2-Dichloroethane-d4	105	(61 - 130)
	109	(61 - 130)
Toluene-d8	104	(60 - 143)
	109	(60 - 143)
4-Bromofluorobenzene	108	(47 - 158)
	110	(47 - 158)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HF1571AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A5G210000-495 HF1571AD-LCSD
 Prep Date.....: 07/14/05 Analysis Date...: 07/20/05
 Prep Batch #....: 5202495
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acetone	200	520 a	ug/kg	259		SW846 8260B
	200	490 a	ug/kg	246	5.3	SW846 8260B
Benzene	200	200	ug/kg	98		SW846 8260B
	200	190	ug/kg	97	0.70	SW846 8260B
Bromodichloromethane	200	150	ug/kg	74		SW846 8260B
	200	120 a	ug/kg	62	18	SW846 8260B
Bromoform	200	170	ug/kg	84		SW846 8260B
	200	150	ug/kg	73	14	SW846 8260B
Bromomethane	200	220	ug/kg	111		SW846 8260B
	200	150 p	ug/kg	73	41	SW846 8260B
2-Butanone	200	130	ug/kg	63		SW846 8260B
	200	130	ug/kg	65	3.2	SW846 8260B
Carbon disulfide	200	160	ug/kg	80		SW846 8260B
	200	150	ug/kg	77	3.8	SW846 8260B
Carbon tetrachloride	200	140	ug/kg	72		SW846 8260B
	200	130	ug/kg	64	12	SW846 8260B
Chlorobenzene	200	200	ug/kg	98		SW846 8260B
	200	190	ug/kg	94	4.2	SW846 8260B
Chloroethane	200	110	ug/kg	56		SW846 8260B
	200	91	ug/kg	46	20	SW846 8260B
Chloroform	200	200	ug/kg	100		SW846 8260B
	200	190	ug/kg	95	5.4	SW846 8260B
Chloromethane	200	160	ug/kg	78		SW846 8260B
	200	170	ug/kg	86	9.2	SW846 8260B
Dibromochloromethane	200	140	ug/kg	69		SW846 8260B
	200	120	ug/kg	61	12	SW846 8260B
1,1-Dichloroethane	200	200	ug/kg	101		SW846 8260B
	200	190	ug/kg	97	4.6	SW846 8260B
1,2-Dichloroethane	200	200	ug/kg	98		SW846 8260B
	200	190	ug/kg	97	1.0	SW846 8260B
1,1-Dichloroethene	200	190	ug/kg	93		SW846 8260B
	200	190	ug/kg	95	1.5	SW846 8260B
cis-1,2-Dichloroethene	200	180	ug/kg	89		SW846 8260B
	200	170	ug/kg	87	1.7	SW846 8260B
trans-1,2-Dichloroethene	200	200	ug/kg	98		SW846 8260B
	200	190	ug/kg	95	3.0	SW846 8260B
1,2-Dichloropropane	200	200	ug/kg	98		SW846 8260B
	200	200	ug/kg	98	0.65	SW846 8260B
cis-1,3-Dichloropropene	200	130 a	ug/kg	66		SW846 8260B
	200	130 a	ug/kg	66	0.54	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HF1571AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A5G210000-495 HF1571AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
trans-1,3-Dichloropropene	200	130 a	ug/kg	63		SW846 8260B
	200	120 a	ug/kg	62	1.7	SW846 8260B
Ethylbenzene	200	200	ug/kg	98		SW846 8260B
	200	190	ug/kg	94	5.1	SW846 8260B
2-Hexanone	200	160	ug/kg	82		SW846 8260B
	200	160	ug/kg	80	2.3	SW846 8260B
Methylene chloride	200	230	ug/kg	114		SW846 8260B
	200	230	ug/kg	113	1.1	SW846 8260B
4-Methyl-2-pentanone	200	170	ug/kg	86		SW846 8260B
	200	170	ug/kg	86	0.040	SW846 8260B
Methyl tert-butyl ether	200	170	ug/kg	86		SW846 8260B
	200	180	ug/kg	89	3.6	SW846 8260B
Styrene	200	180	ug/kg	92		SW846 8260B
	200	170	ug/kg	87	6.1	SW846 8260B
1,1,2,2-Tetrachloroethane	200	190	ug/kg	95		SW846 8260B
	200	170	ug/kg	86	9.9	SW846 8260B
Tetrachloroethene	200	200	ug/kg	99		SW846 8260B
	200	190	ug/kg	94	5.1	SW846 8260B
Toluene	200	210	ug/kg	105		SW846 8260B
	200	200	ug/kg	99	6.4	SW846 8260B
1,1,1-Trichloroethane	200	190	ug/kg	95		SW846 8260B
	200	170	ug/kg	87	8.2	SW846 8260B
1,1,2-Trichloroethane	200	200	ug/kg	100		SW846 8260B
	200	200	ug/kg	98	2.3	SW846 8260B
Trichloroethene	200	190	ug/kg	97		SW846 8260B
	200	190	ug/kg	96	0.77	SW846 8260B
Vinyl chloride	200	180	ug/kg	90		SW846 8260B
	200	180	ug/kg	92	2.4	SW846 8260B
Xylenes (total)	600	580	ug/kg	96		SW846 8260B
	600	550	ug/kg	92	4.4	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	105	(59 - 138)
	96	(59 - 138)
1,2-Dichloroethane-d4	107	(61 - 130)
	105	(61 - 130)
Toluene-d8	114	(60 - 143)
	109	(60 - 143)
4-Bromofluorobenzene	112	(47 - 158)
	106	(47 - 158)

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A5G130319 Work Order #...: HF1571AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A5G210000-495 HF1571AD-LCSD

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

- a Spiked analyte recovery is outside stated control limits.
- p Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HF1571AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A5G210000-495 HF1571AD-LCSD
 Prep Date.....: 07/14/05 Analysis Date...: 07/20/05
 Prep Batch #....: 5202495
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	259 a	(58 - 130)			SW846 8260B
	246 a	(58 - 130)	5.3	(0-30)	SW846 8260B
Benzene	98	(75 - 129)			SW846 8260B
	97	(75 - 129)	0.70	(0-20)	SW846 8260B
Bromodichloromethane	74	(72 - 125)			SW846 8260B
	62 a	(72 - 125)	18	(0-30)	SW846 8260B
Bromoform	84	(43 - 149)			SW846 8260B
	73	(43 - 149)	14	(0-30)	SW846 8260B
Bromomethane	111	(24 - 152)			SW846 8260B
	73 p	(24 - 152)	41	(0-30)	SW846 8260B
2-Butanone	63	(27 - 200)			SW846 8260B
	65	(27 - 200)	3.2	(0-46)	SW846 8260B
Carbon disulfide	80	(50 - 137)			SW846 8260B
	77	(50 - 137)	3.8	(0-30)	SW846 8260B
Carbon tetrachloride	72	(57 - 137)			SW846 8260B
	64	(57 - 137)	12	(0-30)	SW846 8260B
Chlorobenzene	98	(75 - 127)			SW846 8260B
	94	(75 - 127)	4.2	(0-22)	SW846 8260B
Chloroethane	56	(31 - 144)			SW846 8260B
	46	(31 - 144)	20	(0-30)	SW846 8260B
Chloroform	100	(73 - 115)			SW846 8260B
	95	(73 - 115)	5.4	(0-30)	SW846 8260B
Chloromethane	78	(15 - 136)			SW846 8260B
	86	(15 - 136)	9.2	(0-30)	SW846 8260B
Dibromochloromethane	69	(49 - 135)			SW846 8260B
	61	(49 - 135)	12	(0-30)	SW846 8260B
1,1-Dichloroethane	101	(77 - 119)			SW846 8260B
	97	(77 - 119)	4.6	(0-30)	SW846 8260B
1,2-Dichloroethane	98	(78 - 121)			SW846 8260B
	97	(78 - 121)	1.0	(0-30)	SW846 8260B
1,1-Dichloroethene	93	(55 - 142)			SW846 8260B
	95	(55 - 142)	1.5	(0-27)	SW846 8260B
cis-1,2-Dichloroethene	89	(77 - 114)			SW846 8260B
	87	(77 - 114)	1.7	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	98	(68 - 117)			SW846 8260B
	95	(68 - 117)	3.0	(0-30)	SW846 8260B
1,2-Dichloropropane	98	(78 - 116)			SW846 8260B
	98	(78 - 116)	0.65	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	66 a	(71 - 125)			SW846 8260B
	66 a	(71 - 125)	0.54	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HF1571AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A5G210000-495 HF1571AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
trans-1,3-Dichloropropene	63 a	(67 - 125)			SW846 8260B
	62 a	(67 - 125)	1.7	(0-30)	SW846 8260B
Ethylbenzene	98	(79 - 114)			SW846 8260B
	94	(79 - 114)	5.1	(0-30)	SW846 8260B
2-Hexanone	82	(29 - 200)			SW846 8260B
	80	(29 - 200)	2.3	(0-41)	SW846 8260B
Methylene chloride	114	(58 - 130)			SW846 8260B
	113	(58 - 130)	1.1	(0-30)	SW846 8260B
4-Methyl-2-pentanone	86	(68 - 142)			SW846 8260B
	86	(68 - 142)	0.040	(0-60)	SW846 8260B
Methyl tert-butyl ether	86	(70 - 130)			SW846 8260B
	89	(70 - 130)	3.6	(0-30)	SW846 8260B
Styrene	92	(80 - 114)			SW846 8260B
	87	(80 - 114)	6.1	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	95	(70 - 133)			SW846 8260B
	86	(70 - 133)	9.9	(0-30)	SW846 8260B
Tetrachloroethene	99	(72 - 120)			SW846 8260B
	94	(72 - 120)	5.1	(0-30)	SW846 8260B
Toluene	105	(71 - 130)			SW846 8260B
	99	(71 - 130)	6.4	(0-24)	SW846 8260B
1,1,1-Trichloroethane	95	(67 - 123)			SW846 8260B
	87	(67 - 123)	8.2	(0-30)	SW846 8260B
1,1,2-Trichloroethane	100	(82 - 116)			SW846 8260B
	98	(82 - 116)	2.3	(0-30)	SW846 8260B
Trichloroethene	97	(70 - 131)			SW846 8260B
	96	(70 - 131)	0.77	(0-23)	SW846 8260B
Vinyl chloride	90	(24 - 152)			SW846 8260B
	92	(24 - 152)	2.4	(0-30)	SW846 8260B
Xylenes (total)	96	(80 - 114)			SW846 8260B
	92	(80 - 114)	4.4	(0-30)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	105	(59 - 138)
	96	(59 - 138)
1,2-Dichloroethane-d4	107	(61 - 130)
	105	(61 - 130)
Toluene-d8	114	(60 - 143)
	109	(60 - 143)
4-Bromofluorobenzene	112	(47 - 158)
	106	(47 - 158)

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HF1571AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A5G210000-495 HF1571AD-LCSD

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HF4AE1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A5G220000-323 HF4AE1AD-LCSD
 Prep Date.....: 07/14/05 Analysis Date...: 07/21/05
 Prep Batch #....: 5203323
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acetone	200	470 a	ug/kg	236		SW846 8260B
	200	510 a	ug/kg	256	8.1	SW846 8260B
Benzene	200	190	ug/kg	96		SW846 8260B
	200	190	ug/kg	95	1.8	SW846 8260B
Bromodichloromethane	200	150	ug/kg	73		SW846 8260B
	200	120 a	ug/kg	62	17	SW846 8260B
Bromoform	200	180	ug/kg	92		SW846 8260B
	200	150	ug/kg	77	18	SW846 8260B
Bromomethane	200	240	ug/kg	118		SW846 8260B
	200	140 p	ug/kg	72	48	SW846 8260B
2-Butanone	200	140	ug/kg	69		SW846 8260B
	200	320 p	ug/kg	158	79	SW846 8260B
Carbon disulfide	200	170	ug/kg	83		SW846 8260B
	200	150	ug/kg	76	8.9	SW846 8260B
Carbon tetrachloride	200	160	ug/kg	81		SW846 8260B
	200	120	ug/kg	62	28	SW846 8260B
Chlorobenzene	200	200	ug/kg	100		SW846 8260B
	200	190	ug/kg	93	6.7	SW846 8260B
Chloroethane	200	140	ug/kg	69		SW846 8260B
	200	100	ug/kg	52	28	SW846 8260B
Chloroform	200	200	ug/kg	98		SW846 8260B
	200	190	ug/kg	95	3.3	SW846 8260B
Chloromethane	200	160	ug/kg	82		SW846 8260B
	200	160	ug/kg	82	0.60	SW846 8260B
Dibromochloromethane	200	150	ug/kg	76		SW846 8260B
	200	130	ug/kg	67	13	SW846 8260B
1,1-Dichloroethane	200	200	ug/kg	101		SW846 8260B
	200	190	ug/kg	97	4.2	SW846 8260B
1,2-Dichloroethane	200	190	ug/kg	94		SW846 8260B
	200	190	ug/kg	96	2.0	SW846 8260B
1,1-Dichloroethene	200	210	ug/kg	106		SW846 8260B
	200	200	ug/kg	98	7.8	SW846 8260B
cis-1,2-Dichloroethene	200	180	ug/kg	89		SW846 8260B
	200	170	ug/kg	87	2.2	SW846 8260B
trans-1,2-Dichloroethene	200	190	ug/kg	95		SW846 8260B
	200	190	ug/kg	96	0.87	SW846 8260B
1,2-Dichloropropane	200	200	ug/kg	98		SW846 8260B
	200	180	ug/kg	92	7.0	SW846 8260B
cis-1,3-Dichloropropene	200	150	ug/kg	73		SW846 8260B
	200	140 a	ug/kg	69	5.3	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HF4AE1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A5G220000-323 HF4AE1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
trans-1,3-Dichloropropene	200	140	ug/kg	72		SW846 8260B
	200	140	ug/kg	70	3.2	SW846 8260B
Ethylbenzene	200	190	ug/kg	95		SW846 8260B
	200	180	ug/kg	92	3.2	SW846 8260B
2-Hexanone	200	170	ug/kg	84		SW846 8260B
	200	150	ug/kg	76	10	SW846 8260B
Methylene chloride	200	260	ug/kg	128		SW846 8260B
	200	260	ug/kg	128	0.29	SW846 8260B
4-Methyl-2-pentanone	200	180	ug/kg	88		SW846 8260B
	200	170	ug/kg	83	5.2	SW846 8260B
Methyl tert-butyl ether	200	170	ug/kg	87		SW846 8260B
	200	180	ug/kg	89	2.8	SW846 8260B
Styrene	200	170	ug/kg	86		SW846 8260B
	200	170	ug/kg	87	0.32	SW846 8260B
1,1,2,2-Tetrachloroethane	200	200	ug/kg	98		SW846 8260B
	200	190	ug/kg	96	1.9	SW846 8260B
Tetrachloroethene	200	210	ug/kg	104		SW846 8260B
	200	210	ug/kg	106	1.8	SW846 8260B
Toluene	200	200	ug/kg	102		SW846 8260B
	200	200	ug/kg	100	2.6	SW846 8260B
1,1,1-Trichloroethane	200	180	ug/kg	91		SW846 8260B
	200	170	ug/kg	84	7.9	SW846 8260B
1,1,2-Trichloroethane	200	200	ug/kg	98		SW846 8260B
	200	190	ug/kg	96	2.1	SW846 8260B
Trichloroethene	200	210	ug/kg	105		SW846 8260B
	200	200	ug/kg	102	3.0	SW846 8260B
Vinyl chloride	200	190	ug/kg	96		SW846 8260B
	200	180	ug/kg	89	7.7	SW846 8260B
Xylenes (total)	600	550	ug/kg	91		SW846 8260B
	600	530	ug/kg	89	2.6	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(59 - 138)
	93	(59 - 138)
1,2-Dichloroethane-d4	93	(61 - 130)
	97	(61 - 130)
Toluene-d8	103	(60 - 143)
	103	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)
	96	(47 - 158)

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A5G130319 Work Order #...: HF4AE1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A5G220000-323 HF4AE1AD-LCSD

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

- a Spiked analyte recovery is outside stated control limits.
- p Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HF4AE1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A5G220000-323 HF4AE1AD-LCSD
 Prep Date.....: 07/14/05 Analysis Date...: 07/21/05
 Prep Batch #....: 5203323
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	236 a	(58 - 130)			SW846 8260B
	256 a	(58 - 130)	8.1	(0-30)	SW846 8260B
Benzene	96	(75 - 129)			SW846 8260B
	95	(75 - 129)	1.8	(0-20)	SW846 8260B
Bromodichloromethane	73	(72 - 125)			SW846 8260B
	62 a	(72 - 125)	17	(0-30)	SW846 8260B
Bromoform	92	(43 - 149)			SW846 8260B
	77	(43 - 149)	18	(0-30)	SW846 8260B
Bromomethane	118	(24 - 152)			SW846 8260B
	72 p	(24 - 152)	48	(0-30)	SW846 8260B
2-Butanone	69	(27 - 200)			SW846 8260B
	158 p	(27 - 200)	79	(0-46)	SW846 8260B
Carbon disulfide	83	(50 - 137)			SW846 8260B
	76	(50 - 137)	8.9	(0-30)	SW846 8260B
Carbon tetrachloride	81	(57 - 137)			SW846 8260B
	62	(57 - 137)	28	(0-30)	SW846 8260B
Chlorobenzene	100	(75 - 127)			SW846 8260B
	93	(75 - 127)	6.7	(0-22)	SW846 8260B
Chloroethane	69	(31 - 144)			SW846 8260B
	52	(31 - 144)	28	(0-30)	SW846 8260B
Chloroform	98	(73 - 115)			SW846 8260B
	95	(73 - 115)	3.3	(0-30)	SW846 8260B
Chloromethane	82	(15 - 136)			SW846 8260B
	82	(15 - 136)	0.60	(0-30)	SW846 8260B
Dibromochloromethane	76	(49 - 135)			SW846 8260B
	67	(49 - 135)	13	(0-30)	SW846 8260B
1,1-Dichloroethane	101	(77 - 119)			SW846 8260B
	97	(77 - 119)	4.2	(0-30)	SW846 8260B
1,2-Dichloroethane	94	(78 - 121)			SW846 8260B
	96	(78 - 121)	2.0	(0-30)	SW846 8260B
1,1-Dichloroethene	106	(55 - 142)			SW846 8260B
	98	(55 - 142)	7.8	(0-27)	SW846 8260B
cis-1,2-Dichloroethene	89	(77 - 114)			SW846 8260B
	87	(77 - 114)	2.2	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	95	(68 - 117)			SW846 8260B
	96	(68 - 117)	0.87	(0-30)	SW846 8260B
1,2-Dichloropropane	98	(78 - 116)			SW846 8260B
	92	(78 - 116)	7.0	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	73	(71 - 125)			SW846 8260B
	69 a	(71 - 125)	5.3	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HF4AE1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A5G220000-323 HF4AE1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
trans-1,3-Dichloropropene	72	(67 - 125)			SW846 8260B
	70	(67 - 125)	3.2	(0-30)	SW846 8260B
Ethylbenzene	95	(79 - 114)			SW846 8260B
	92	(79 - 114)	3.2	(0-30)	SW846 8260B
2-Hexanone	84	(29 - 200)			SW846 8260B
	76	(29 - 200)	10	(0-41)	SW846 8260B
Methylene chloride	128	(58 - 130)			SW846 8260B
	128	(58 - 130)	0.29	(0-30)	SW846 8260B
4-Methyl-2-pentanone	88	(68 - 142)			SW846 8260B
	83	(68 - 142)	5.2	(0-60)	SW846 8260B
Methyl tert-butyl ether	87	(70 - 130)			SW846 8260B
	89	(70 - 130)	2.8	(0-30)	SW846 8260B
Styrene	86	(80 - 114)			SW846 8260B
	87	(80 - 114)	0.32	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	98	(70 - 133)			SW846 8260B
	96	(70 - 133)	1.9	(0-30)	SW846 8260B
Tetrachloroethene	104	(72 - 120)			SW846 8260B
	106	(72 - 120)	1.8	(0-30)	SW846 8260B
Toluene	102	(71 - 130)			SW846 8260B
	100	(71 - 130)	2.6	(0-24)	SW846 8260B
1,1,1-Trichloroethane	91	(67 - 123)			SW846 8260B
	84	(67 - 123)	7.9	(0-30)	SW846 8260B
1,1,2-Trichloroethane	98	(82 - 116)			SW846 8260B
	96	(82 - 116)	2.1	(0-30)	SW846 8260B
Trichloroethene	105	(70 - 131)			SW846 8260B
	102	(70 - 131)	3.0	(0-23)	SW846 8260B
Vinyl chloride	96	(24 - 152)			SW846 8260B
	89	(24 - 152)	7.7	(0-30)	SW846 8260B
Xylenes (total)	91	(80 - 114)			SW846 8260B
	89	(80 - 114)	2.6	(0-30)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(59 - 138)
	93	(59 - 138)
1,2-Dichloroethane-d4	93	(61 - 130)
	97	(61 - 130)
Toluene-d8	103	(60 - 143)
	103	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)
	96	(47 - 158)

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HF4AE1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A5G220000-323 HF4AE1AD-LCSD

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFEJ11AD-MS Matrix.....: SO
 MS Lot-Sample #: A5G130319-010 HFEJ11AE-MSD
 Date Sampled...: 07/11/05 10:17 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200616
 Dilution Factor: 1.01

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acetone	330	200	520	ug/kg	94		SW846 8260B
	330	170	540	ug/kg	121	2.5	SW846 8260B
Benzene	ND	200	170	ug/kg	86		SW846 8260B
	ND	170	150	ug/kg	89	14	SW846 8260B
Bromodichloromethane	ND	200	82	ug/kg	41 a		SW846 8260B
	ND	170	78	ug/kg	46 a	4.9	SW846 8260B
Bromoform	ND	200	130	ug/kg	66		SW846 8260B
	ND	170	130	ug/kg	77	3.0	SW846 8260B
Bromomethane	ND	200	100	ug/kg	51		SW846 8260B
	ND	170	87	ug/kg	52	17	SW846 8260B
2-Butanone	ND	200	340	ug/kg	168		SW846 8260B
	ND	170	320	ug/kg	192	5.1	SW846 8260B
Carbon disulfide	ND	200	130	ug/kg	65		SW846 8260B
	ND	170	110	ug/kg	67	14	SW846 8260B
Carbon tetrachloride	ND	200	75	ug/kg	37		SW846 8260B
	ND	170	72	ug/kg	43	4.3	SW846 8260B
Chlorobenzene	ND	200	170	ug/kg	85		SW846 8260B
	ND	170	150	ug/kg	90	12	SW846 8260B
Chloroethane	ND	200	90	ug/kg	45		SW846 8260B
	ND	170	81	ug/kg	48	11	SW846 8260B
Chloroform	ND	200	160	ug/kg	81		SW846 8260B
	ND	170	150	ug/kg	88	10	SW846 8260B
Chloromethane	10	200	160	ug/kg	75		SW846 8260B
	10	170	150	ug/kg	81	10	SW846 8260B
Dibromochloromethane	ND	200	95	ug/kg	47		SW846 8260B
	ND	170	88	ug/kg	52	7.8	SW846 8260B
1,1-Dichloroethane	ND	200	160	ug/kg	81		SW846 8260B
	ND	170	150	ug/kg	88	10	SW846 8260B
1,2-Dichloroethane	ND	200	180	ug/kg	90		SW846 8260B
	ND	170	160	ug/kg	93	15	SW846 8260B
1,1-Dichloroethene	ND	200	170	ug/kg	85		SW846 8260B
	ND	170	150	ug/kg	87	16	SW846 8260B
cis-1,2-Dichloroethene	ND	200	160	ug/kg	78		SW846 8260B
	ND	170	140	ug/kg	83	12	SW846 8260B
trans-1,2-Dichloroethene	ND	200	170	ug/kg	84		SW846 8260B
	ND	170	150	ug/kg	87	15	SW846 8260B
1,2-Dichloropropane	ND	200	170	ug/kg	84		SW846 8260B
	ND	170	150	ug/kg	89	13	SW846 8260B
cis-1,3-Dichloropropene	ND	200	130	ug/kg	62		SW846 8260B
	ND	170	110	ug/kg	67	12	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFEJ11AD-MS Matrix.....: SO
MS Lot-Sample #: A5G130319-010 HFEJ11AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
trans-1,3-Dichloropropene	ND	200	120	ug/kg	60		SW846 8260B
	ND	170	110	ug/kg	63	13	SW846 8260B
Ethylbenzene	ND	200	170	ug/kg	83		SW846 8260B
	ND	170	150	ug/kg	87	14	SW846 8260B
2-Hexanone	ND	200	140	ug/kg	70		SW846 8260B
	ND	170	120	ug/kg	73	15	SW846 8260B
Methylene chloride	ND	200	180	ug/kg	89		SW846 8260B
	ND	170	170	ug/kg	99	7.6	SW846 8260B
4-Methyl-2-pentanone	ND	200	150	ug/kg	74		SW846 8260B
	ND	170	130	ug/kg	77	14	SW846 8260B
Methyl tert-butyl ether	ND	200	150	ug/kg	72		SW846 8260B
	ND	170	130	ug/kg	80	7.9	SW846 8260B
Styrene	ND	200	150	ug/kg	75		SW846 8260B
	ND	170	130	ug/kg	78	15	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	200	150	ug/kg	75		SW846 8260B
	ND	170	130	ug/kg	79	14	SW846 8260B
Tetrachloroethene	ND	200	160	ug/kg	80		SW846 8260B
	ND	170	150	ug/kg	92	4.3	SW846 8260B
Toluene	ND	200	180	ug/kg	88		SW846 8260B
	ND	170	160	ug/kg	93	13	SW846 8260B
1,1,1-Trichloroethane	ND	200	130	ug/kg	63		SW846 8260B
	ND	170	110	ug/kg	67	12	SW846 8260B
1,1,2-Trichloroethane	ND	200	170	ug/kg	85		SW846 8260B
	ND	170	160	ug/kg	93	9.4	SW846 8260B
Trichloroethene	ND	200	230	ug/kg	109		SW846 8260B
	ND	170	170	ug/kg	95 p	31	SW846 8260B
Vinyl chloride	ND	200	180	ug/kg	87		SW846 8260B
	ND	170	150	ug/kg	87	19	SW846 8260B
Xylenes (total)	ND	610	490	ug/kg	81		SW846 8260B
	ND	500	410	ug/kg	82	17	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(59 - 138)
	83	(59 - 138)
1,2-Dichloroethane-d4	99	(61 - 130)
	103	(61 - 130)
Toluene-d8	99	(60 - 143)
	104	(60 - 143)
4-Bromofluorobenzene	101	(47 - 158)
	100	(47 - 158)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A5G130319 Work Order #...: HFEJ11AD-MS Matrix.....: SO
MS Lot-Sample #: A5G130319-010 HFEJ11AE-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

- a Spiked analyte recovery is outside stated control limits.
- p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFEJ11AD-MS Matrix.....: SO
 MS Lot-Sample #: A5G130319-010 HFEJ11AE-MSD
 Date Sampled...: 07/11/05 10:17 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/18/05
 Prep Batch #....: 5200616
 Dilution Factor: 1.01

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	94	(10 - 200)			SW846 8260B
	121	(10 - 200)	2.5	(0-66)	SW846 8260B
Benzene	86	(55 - 138)			SW846 8260B
	89	(55 - 138)	14	(0-20)	SW846 8260B
Bromodichloromethane	41 a	(47 - 131)			SW846 8260B
	46 a	(47 - 131)	4.9	(0-51)	SW846 8260B
Bromoform	66	(26 - 141)			SW846 8260B
	77	(26 - 141)	3.0	(0-64)	SW846 8260B
Bromomethane	51	(15 - 152)			SW846 8260B
	52	(15 - 152)	17	(0-72)	SW846 8260B
2-Butanone	168	(21 - 195)			SW846 8260B
	192	(21 - 195)	5.1	(0-60)	SW846 8260B
Carbon disulfide	65	(27 - 149)			SW846 8260B
	67	(27 - 149)	14	(0-73)	SW846 8260B
Carbon tetrachloride	37	(32 - 143)			SW846 8260B
	43	(32 - 143)	4.3	(0-68)	SW846 8260B
Chlorobenzene	85	(49 - 139)			SW846 8260B
	90	(49 - 139)	12	(0-22)	SW846 8260B
Chloroethane	45	(32 - 140)			SW846 8260B
	48	(32 - 140)	11	(0-66)	SW846 8260B
Chloroform	81	(59 - 128)			SW846 8260B
	88	(59 - 128)	10	(0-46)	SW846 8260B
Chloromethane	75	(28 - 130)			SW846 8260B
	81	(28 - 130)	10	(0-81)	SW846 8260B
Dibromochloromethane	47	(44 - 135)			SW846 8260B
	52	(44 - 135)	7.8	(0-61)	SW846 8260B
1,1-Dichloroethane	81	(56 - 130)			SW846 8260B
	88	(56 - 130)	10	(0-54)	SW846 8260B
1,2-Dichloroethane	90	(56 - 126)			SW846 8260B
	93	(56 - 126)	15	(0-38)	SW846 8260B
1,1-Dichloroethene	85	(43 - 147)			SW846 8260B
	87	(43 - 147)	16	(0-27)	SW846 8260B
cis-1,2-Dichloroethene	78	(48 - 127)			SW846 8260B
	83	(48 - 127)	12	(0-52)	SW846 8260B
trans-1,2-Dichloroethene	84	(47 - 127)			SW846 8260B
	87	(47 - 127)	15	(0-58)	SW846 8260B
1,2-Dichloropropane	84	(54 - 125)			SW846 8260B
	89	(54 - 125)	13	(0-43)	SW846 8260B
cis-1,3-Dichloropropene	62	(30 - 138)			SW846 8260B
	67	(30 - 138)	12	(0-49)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A5G130319
MS Lot-Sample #: A5G130319-010

Work Order #...: HFEJ11AD-MS
HFEJ11AE-MSD

Matrix.....: SO

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
trans-1,3-Dichloropropene	60	(34 - 134)			SW846 8260B
	63	(34 - 134)	13	(0-57)	SW846 8260B
Ethylbenzene	83	(36 - 133)			SW846 8260B
	87	(36 - 133)	14	(0-72)	SW846 8260B
2-Hexanone	70	(20 - 190)			SW846 8260B
	73	(20 - 190)	15	(0-70)	SW846 8260B
Methylene chloride	89	(45 - 129)			SW846 8260B
	99	(45 - 129)	7.6	(0-49)	SW846 8260B
4-Methyl-2-pentanone	74	(42 - 143)			SW846 8260B
	77	(42 - 143)	14	(0-60)	SW846 8260B
Methyl tert-butyl ether	72	(70 - 130)			SW846 8260B
	80	(70 - 130)	7.9	(0-30)	SW846 8260B
Styrene	75	(23 - 136)			SW846 8260B
	78	(23 - 136)	15	(0-65)	SW846 8260B
1,1,2,2-Tetrachloroethane	75	(33 - 162)			SW846 8260B
	79	(33 - 162)	14	(0-90)	SW846 8260B
Tetrachloroethene	80	(31 - 137)			SW846 8260B
	92	(31 - 137)	4.3	(0-81)	SW846 8260B
Toluene	88	(46 - 147)			SW846 8260B
	93	(46 - 147)	13	(0-24)	SW846 8260B
1,1,1-Trichloroethane	63	(48 - 132)			SW846 8260B
	67	(48 - 132)	12	(0-57)	SW846 8260B
1,1,2-Trichloroethane	85	(58 - 128)			SW846 8260B
	93	(58 - 128)	9.4	(0-52)	SW846 8260B
Trichloroethene	109	(46 - 143)			SW846 8260B
	95 p	(46 - 143)	31	(0-23)	SW846 8260B
Vinyl chloride	87	(30 - 136)			SW846 8260B
	87	(30 - 136)	19	(0-80)	SW846 8260B
Xylenes (total)	81	(33 - 135)			SW846 8260B
	82	(33 - 135)	17	(0-78)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(59 - 138)
	83	(59 - 138)
1,2-Dichloroethane-d4	99	(61 - 130)
	103	(61 - 130)
Toluene-d8	99	(60 - 143)
	104	(60 - 143)
4-Bromofluorobenzene	101	(47 - 158)
	100	(47 - 158)

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFEJ11AD-MS Matrix.....: SO
MS Lot-Sample #: A5G130319-010 HFEJ11AE-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

- a Spiked analyte recovery is outside stated control limits.
- p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFEK91AG-MS Matrix.....: SO
 MS Lot-Sample #: A5G130319-032 HFEK91AH-MSD
 Date Sampled...: 07/11/05 14:15 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5200671
 Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acetone	370	180	500	ug/kg	71		SW846 8260B
	370	200	470	ug/kg	46	6.9	SW846 8260B
Benzene	8.7	180	180	ug/kg	94		SW846 8260B
	8.7	200	200	ug/kg	93	11	SW846 8260B
Bromodichloromethane	ND	180	110	ug/kg	62		SW846 8260B
	ND	200	120	ug/kg	61	10	SW846 8260B
Bromoform	ND	180	120	ug/kg	68		SW846 8260B
	ND	200	130	ug/kg	64	5.9	SW846 8260B
Bromomethane	ND	180	200	ug/kg	109		SW846 8260B
	ND	200	200	ug/kg	97	1.3	SW846 8260B
2-Butanone	ND	180	100	ug/kg	57		SW846 8260B
	ND	200	100	ug/kg	50	0.73	SW846 8260B
Carbon disulfide	ND	180	130	ug/kg	70		SW846 8260B
	ND	200	150	ug/kg	69	9.5	SW846 8260B
Carbon tetrachloride	ND	180	120	ug/kg	66		SW846 8260B
	ND	200	120	ug/kg	61	4.5	SW846 8260B
Chlorobenzene	ND	180	170	ug/kg	92		SW846 8260B
	ND	200	190	ug/kg	92	13	SW846 8260B
Chloroethane	ND	180	120	ug/kg	66		SW846 8260B
	ND	200	140	ug/kg	71	20	SW846 8260B
Chloroform	ND	180	170	ug/kg	94		SW846 8260B
	ND	200	180	ug/kg	89	7.7	SW846 8260B
Chloromethane	ND	180	120	ug/kg	66		SW846 8260B
	ND	200	130	ug/kg	63	7.9	SW846 8260B
Dibromochloromethane	ND	180	77	ug/kg	43 a		SW846 8260B
	ND	200	89	ug/kg	44	15	SW846 8260B
1,1-Dichloroethane	ND	180	170	ug/kg	95		SW846 8260B
	ND	200	180	ug/kg	89	6.2	SW846 8260B
1,2-Dichloroethane	ND	180	160	ug/kg	88		SW846 8260B
	ND	200	170	ug/kg	84	7.2	SW846 8260B
1,1-Dichloroethene	ND	180	180	ug/kg	98		SW846 8260B
	ND	200	180	ug/kg	90	4.0	SW846 8260B
cis-1,2-Dichloroethene	ND	180	160	ug/kg	91		SW846 8260B
	ND	200	170	ug/kg	85	5.2	SW846 8260B
trans-1,2-Dichloroethene	ND	180	170	ug/kg	92		SW846 8260B
	ND	200	180	ug/kg	88	8.2	SW846 8260B
1,2-Dichloropropane	ND	180	170	ug/kg	93		SW846 8260B
	ND	200	190	ug/kg	91	9.8	SW846 8260B
cis-1,3-Dichloropropene	ND	180	130	ug/kg	73		SW846 8260B
	ND	200	150	ug/kg	72	11	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFEK91AG-MS Matrix.....: SO
 MS Lot-Sample #: A5G130319-032 HFEK91AH-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
trans-1,3-Dichloropropene	ND	180	120	ug/kg	67		SW846 8260B
	ND	200	130	ug/kg	65	10	SW846 8260B
Ethylbenzene	22	180	210	ug/kg	106		SW846 8260B
	22	200	210	ug/kg	94	0.19	SW846 8260B
2-Hexanone	ND	180	100	ug/kg	55		SW846 8260B
	ND	200	97	ug/kg	48	2.7	SW846 8260B
Methylene chloride	ND	180	180	ug/kg	100		SW846 8260B
	ND	200	200	ug/kg	96	8.1	SW846 8260B
4-Methyl-2-pentanone	ND	180	140	ug/kg	77		SW846 8260B
	ND	200	150	ug/kg	72	5.6	SW846 8260B
Methyl tert-butyl ether	ND	180	170	ug/kg	97		SW846 8260B
	ND	200	190	ug/kg	92	6.9	SW846 8260B
Styrene	ND	180	170	ug/kg	96		SW846 8260B
	ND	200	180	ug/kg	88	3.8	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	180	160	ug/kg	89		SW846 8260B
	ND	200	170	ug/kg	85	8.5	SW846 8260B
Tetrachloroethene	ND	180	180	ug/kg	98		SW846 8260B
	ND	200	190	ug/kg	93	6.9	SW846 8260B
Toluene	76	180	260	ug/kg	104		SW846 8260B
	76	200	270	ug/kg	94	1.5	SW846 8260B
1,1,1-Trichloroethane	ND	180	140	ug/kg	77		SW846 8260B
	ND	200	160	ug/kg	78	14	SW846 8260B
1,1,2-Trichloroethane	ND	180	180	ug/kg	98		SW846 8260B
	ND	200	180	ug/kg	89	2.2	SW846 8260B
Trichloroethene	2200	180	3200	ug/kg	594 a		SW846 8260B
	2200	200	2200	ug/kg	37 a,p	36	SW846 8260B
Vinyl chloride	ND	180	170	ug/kg	95		SW846 8260B
	ND	200	180	ug/kg	87	3.9	SW846 8260B
Xylenes (total)	190	540	850	ug/kg	123		SW846 8260B
	190	610	750	ug/kg	92	12	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(59 - 138)
	85	(59 - 138)
1,2-Dichloroethane-d4	87	(61 - 130)
	82	(61 - 130)
Toluene-d8	92	(60 - 143)
	86	(60 - 143)
4-Bromofluorobenzene	95	(47 - 158)
	85	(47 - 158)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A5G130319 Work Order #...: HFEK91AG-MS Matrix.....: SO
MS Lot-Sample #: A5G130319-032 HFEK91AH-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFEK91AG-MS Matrix.....: SO
 MS Lot-Sample #: A5G130319-032 HFEK91AH-MSD
 Date Sampled...: 07/11/05 14:15 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/19/05
 Prep Batch #....: 5200671
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	71	(10 - 200)			SW846 8260B
	46	(10 - 200)	6.9	(0-66)	SW846 8260B
Benzene	94	(55 - 138)			SW846 8260B
	93	(55 - 138)	11	(0-20)	SW846 8260B
Bromodichloromethane	62	(47 - 131)			SW846 8260B
	61	(47 - 131)	10	(0-51)	SW846 8260B
Bromoform	68	(26 - 141)			SW846 8260B
	64	(26 - 141)	5.9	(0-64)	SW846 8260B
Bromomethane	109	(15 - 152)			SW846 8260B
	97	(15 - 152)	1.3	(0-72)	SW846 8260B
2-Butanone	57	(21 - 195)			SW846 8260B
	50	(21 - 195)	0.73	(0-60)	SW846 8260B
Carbon disulfide	70	(27 - 149)			SW846 8260B
	69	(27 - 149)	9.5	(0-73)	SW846 8260B
Carbon tetrachloride	66	(32 - 143)			SW846 8260B
	61	(32 - 143)	4.5	(0-68)	SW846 8260B
Chlorobenzene	92	(49 - 139)			SW846 8260B
	92	(49 - 139)	13	(0-22)	SW846 8260B
Chloroethane	66	(32 - 140)			SW846 8260B
	71	(32 - 140)	20	(0-66)	SW846 8260B
Chloroform	94	(59 - 128)			SW846 8260B
	89	(59 - 128)	7.7	(0-46)	SW846 8260B
Chloromethane	66	(28 - 130)			SW846 8260B
	63	(28 - 130)	7.9	(0-81)	SW846 8260B
Dibromochloromethane	43 a	(44 - 135)			SW846 8260B
	44	(44 - 135)	15	(0-61)	SW846 8260B
1,1-Dichloroethane	95	(56 - 130)			SW846 8260B
	89	(56 - 130)	6.2	(0-54)	SW846 8260B
1,2-Dichloroethane	88	(56 - 126)			SW846 8260B
	84	(56 - 126)	7.2	(0-38)	SW846 8260B
1,1-Dichloroethene	98	(43 - 147)			SW846 8260B
	90	(43 - 147)	4.0	(0-27)	SW846 8260B
cis-1,2-Dichloroethene	91	(48 - 127)			SW846 8260B
	85	(48 - 127)	5.2	(0-52)	SW846 8260B
trans-1,2-Dichloroethene	92	(47 - 127)			SW846 8260B
	88	(47 - 127)	8.2	(0-58)	SW846 8260B
1,2-Dichloropropane	93	(54 - 125)			SW846 8260B
	91	(54 - 125)	9.8	(0-43)	SW846 8260B
cis-1,3-Dichloropropene	73	(30 - 138)			SW846 8260B
	72	(30 - 138)	11	(0-49)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFEK91AG-MS Matrix.....: SO
MS Lot-Sample #: A5G130319-032 HFEK91AH-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
trans-1,3-Dichloropropene	67	(34 - 134)			SW846 8260B
	65	(34 - 134)	10	(0-57)	SW846 8260B
Ethylbenzene	106	(36 - 133)			SW846 8260B
	94	(36 - 133)	0.19	(0-72)	SW846 8260B
2-Hexanone	55	(20 - 190)			SW846 8260B
	48	(20 - 190)	2.7	(0-70)	SW846 8260B
Methylene chloride	100	(45 - 129)			SW846 8260B
	96	(45 - 129)	8.1	(0-49)	SW846 8260B
4-Methyl-2-pentanone	77	(42 - 143)			SW846 8260B
	72	(42 - 143)	5.6	(0-60)	SW846 8260B
Methyl tert-butyl ether	97	(70 - 130)			SW846 8260B
	92	(70 - 130)	6.9	(0-30)	SW846 8260B
Styrene	96	(23 - 136)			SW846 8260B
	88	(23 - 136)	3.8	(0-65)	SW846 8260B
1,1,2,2-Tetrachloroethane	89	(33 - 162)			SW846 8260B
	85	(33 - 162)	8.5	(0-90)	SW846 8260B
Tetrachloroethene	98	(31 - 137)			SW846 8260B
	93	(31 - 137)	6.9	(0-81)	SW846 8260B
Toluene	104	(46 - 147)			SW846 8260B
	94	(46 - 147)	1.5	(0-24)	SW846 8260B
1,1,1-Trichloroethane	77	(48 - 132)			SW846 8260B
	78	(48 - 132)	14	(0-57)	SW846 8260B
1,1,2-Trichloroethane	98	(58 - 128)			SW846 8260B
	89	(58 - 128)	2.2	(0-52)	SW846 8260B
Trichloroethene	594 a	(46 - 143)			SW846 8260B
	37 a,p	(46 - 143)	36	(0-23)	SW846 8260B
Vinyl chloride	95	(30 - 136)			SW846 8260B
	87	(30 - 136)	3.9	(0-80)	SW846 8260B
Xylenes (total)	123	(33 - 135)			SW846 8260B
	92	(33 - 135)	12	(0-78)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(59 - 138)
	85	(59 - 138)
1,2-Dichloroethane-d4	87	(61 - 130)
	82	(61 - 130)
Toluene-d8	92	(60 - 143)
	86	(60 - 143)
4-Bromofluorobenzene	95	(47 - 158)
	85	(47 - 158)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFEK91AG-MS Matrix.....: SO
MS Lot-Sample #: A5G130319-032 HFEK91AH-MSD

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

- a Spiked analyte recovery is outside stated control limits.
- p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFENM1AD-MS Matrix.....: SO
 MS Lot-Sample #: A5G130319-069 HFENM1AE-MSD
 Date Sampled...: 07/12/05 09:15 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/21/05
 Prep Batch #....: 5202495
 Dilution Factor: 1.02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acetone	470	200	510	ug/kg	17		SW846 8260B
	470	210	480	ug/kg	0.74 a	6.9	SW846 8260B
Benzene	ND	200	180	ug/kg	86		SW846 8260B
	ND	210	180	ug/kg	87	4.0	SW846 8260B
Bromodichloromethane	ND	200	92	ug/kg	45 a		SW846 8260B
	ND	210	98	ug/kg	47	6.3	SW846 8260B
Bromoform	ND	200	130	ug/kg	66		SW846 8260B
	ND	210	140	ug/kg	67	5.3	SW846 8260B
Bromomethane	ND	200	98	ug/kg	48		SW846 8260B
	ND	210	100	ug/kg	48	3.9	SW846 8260B
2-Butanone	ND	200	340	ug/kg	167		SW846 8260B
	ND	210	330	ug/kg	155	4.7	SW846 8260B
Carbon disulfide	ND	200	130	ug/kg	66		SW846 8260B
	ND	210	130	ug/kg	63	1.5	SW846 8260B
Carbon tetrachloride	ND	200	85	ug/kg	42		SW846 8260B
	ND	210	96	ug/kg	45	11	SW846 8260B
Chlorobenzene	ND	200	170	ug/kg	83		SW846 8260B
	ND	210	180	ug/kg	84	4.4	SW846 8260B
Chloroethane	ND	200	87	ug/kg	42		SW846 8260B
	ND	210	89	ug/kg	42	2.9	SW846 8260B
Chloroform	ND	200	170	ug/kg	84		SW846 8260B
	ND	210	180	ug/kg	84	3.0	SW846 8260B
Chloromethane	8.0	200	160	ug/kg	74		SW846 8260B
	8.0	210	160	ug/kg	73	2.6	SW846 8260B
Dibromochloromethane	ND	200	99	ug/kg	48		SW846 8260B
	ND	210	100	ug/kg	50	5.8	SW846 8260B
1,1-Dichloroethane	ND	200	170	ug/kg	85		SW846 8260B
	ND	210	180	ug/kg	86	3.8	SW846 8260B
1,2-Dichloroethane	ND	200	180	ug/kg	89		SW846 8260B
	ND	210	180	ug/kg	87	0.60	SW846 8260B
1,1-Dichloroethene	ND	200	170	ug/kg	81		SW846 8260B
	ND	210	170	ug/kg	79	0.51	SW846 8260B
cis-1,2-Dichloroethene	ND	200	170	ug/kg	81		SW846 8260B
	ND	210	170	ug/kg	79	0.95	SW846 8260B
trans-1,2-Dichloroethene	ND	200	170	ug/kg	83		SW846 8260B
	ND	210	180	ug/kg	83	3.4	SW846 8260B
1,2-Dichloropropane	ND	200	180	ug/kg	89		SW846 8260B
	ND	210	180	ug/kg	87	0.85	SW846 8260B
cis-1,3-Dichloropropene	ND	200	140	ug/kg	67		SW846 8260B
	ND	210	140	ug/kg	64	0.98	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFENM1AD-MS Matrix.....: SO
MS Lot-Sample #: A5G130319-069 HFENM1AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
trans-1,3-Dichloropropene	ND	200	120	ug/kg	59		SW846 8260B
	ND	210	140	ug/kg	65	13	SW846 8260B
Ethylbenzene	ND	200	170	ug/kg	82		SW846 8260B
	ND	210	180	ug/kg	85	6.9	SW846 8260B
2-Hexanone	ND	200	130	ug/kg	63		SW846 8260B
	ND	210	140	ug/kg	67	9.3	SW846 8260B
Methylene chloride	ND	200	180	ug/kg	89		SW846 8260B
	ND	210	180	ug/kg	86	0.70	SW846 8260B
4-Methyl-2-pentanone	ND	200	140	ug/kg	70		SW846 8260B
	ND	210	140	ug/kg	67	1.8	SW846 8260B
Methyl tert-butyl ether	ND	200	160	ug/kg	78		SW846 8260B
	ND	210	160	ug/kg	74	1.0	SW846 8260B
Styrene	ND	200	150	ug/kg	73		SW846 8260B
	ND	210	150	ug/kg	73	4.1	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	200	150	ug/kg	75		SW846 8260B
	ND	210	150	ug/kg	72	1.1	SW846 8260B
Tetrachloroethene	ND	200	170	ug/kg	83		SW846 8260B
	ND	210	180	ug/kg	86	6.7	SW846 8260B
Toluene	ND	200	180	ug/kg	89		SW846 8260B
	ND	210	200	ug/kg	93	8.2	SW846 8260B
1,1,1-Trichloroethane	ND	200	140	ug/kg	71		SW846 8260B
	ND	210	150	ug/kg	72	4.4	SW846 8260B
1,1,2-Trichloroethane	ND	200	180	ug/kg	86		SW846 8260B
	ND	210	180	ug/kg	87	3.6	SW846 8260B
Trichloroethene	100	200	240	ug/kg	67		SW846 8260B
	100	210	490	ug/kg	185	69	SW846 8260B
	Qualifiers: a,p						
Vinyl chloride	ND	200	180	ug/kg	87		SW846 8260B
	ND	210	190	ug/kg	91	7.8	SW846 8260B
Xylenes (total)	ND	610	480	ug/kg	79		SW846 8260B
	ND	630	510	ug/kg	80	4.3	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	82	(59 - 138)
	78	(59 - 138)
1,2-Dichloroethane-d4	94	(61 - 130)
	90	(61 - 130)
Toluene-d8	93	(60 - 143)
	92	(60 - 143)
4-Bromofluorobenzene	90	(47 - 158)
	88	(47 - 158)

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A5G130319 Work Order #...: HFENM1AD-MS Matrix.....: SO
MS Lot-Sample #: A5G130319-069 HFENM1AE-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

- a Spiked analyte recovery is outside stated control limits.
- p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A5G130319 Work Order #....: HFENM1AD-MS Matrix.....: SO
 MS Lot-Sample #: A5G130319-069 HFENM1AE-MSD
 Date Sampled...: 07/12/05 09:15 Date Received...: 07/13/05
 Prep Date.....: 07/14/05 Analysis Date...: 07/21/05
 Prep Batch #....: 5202495
 Dilution Factor: 1.02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	17 0.74 a	(10 - 200) (10 - 200)	6.9	(0-66)	SW846 8260B
Benzene	86 87	(55 - 138) (55 - 138)	4.0	(0-20)	SW846 8260B
Bromodichloromethane	45 a 47	(47 - 131) (47 - 131)	6.3	(0-51)	SW846 8260B
Bromoform	66 67	(26 - 141) (26 - 141)	5.3	(0-64)	SW846 8260B
Bromomethane	48 48	(15 - 152) (15 - 152)	3.9	(0-72)	SW846 8260B
2-Butanone	167 155	(21 - 195) (21 - 195)	4.7	(0-60)	SW846 8260B
Carbon disulfide	66 63	(27 - 149) (27 - 149)	1.5	(0-73)	SW846 8260B
Carbon tetrachloride	42 45	(32 - 143) (32 - 143)	11	(0-68)	SW846 8260B
Chlorobenzene	83 84	(49 - 139) (49 - 139)	4.4	(0-22)	SW846 8260B
Chloroethane	42 42	(32 - 140) (32 - 140)	2.9	(0-66)	SW846 8260B
Chloroform	84 84	(59 - 128) (59 - 128)	3.0	(0-46)	SW846 8260B
Chloromethane	74 73	(28 - 130) (28 - 130)	2.6	(0-81)	SW846 8260B
Dibromochloromethane	48 50	(44 - 135) (44 - 135)	5.8	(0-61)	SW846 8260B
1,1-Dichloroethane	85 86	(56 - 130) (56 - 130)	3.8	(0-54)	SW846 8260B
1,2-Dichloroethane	89 87	(56 - 126) (56 - 126)	0.60	(0-38)	SW846 8260B
1,1-Dichloroethene	81 79	(43 - 147) (43 - 147)	0.51	(0-27)	SW846 8260B
cis-1,2-Dichloroethene	81 79	(48 - 127) (48 - 127)	0.95	(0-52)	SW846 8260B
trans-1,2-Dichloroethene	83 83	(47 - 127) (47 - 127)	3.4	(0-58)	SW846 8260B
1,2-Dichloropropane	89 87	(54 - 125) (54 - 125)	0.85	(0-43)	SW846 8260B
cis-1,3-Dichloropropene	67 64	(30 - 138) (30 - 138)	0.98	(0-49)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A5G130319 Work Order #...: HFENM1AD-MS Matrix.....: SO
MS Lot-Sample #: A5G130319-069 HFENM1AE-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
trans-1,3-Dichloropropene	59	(34 - 134)			SW846 8260B
	65	(34 - 134)	13	(0-57)	SW846 8260B
Ethylbenzene	82	(36 - 133)			SW846 8260B
	85	(36 - 133)	6.9	(0-72)	SW846 8260B
2-Hexanone	63	(20 - 190)			SW846 8260B
	67	(20 - 190)	9.3	(0-70)	SW846 8260B
Methylene chloride	89	(45 - 129)			SW846 8260B
	86	(45 - 129)	0.70	(0-49)	SW846 8260B
4-Methyl-2-pentanone	70	(42 - 143)			SW846 8260B
	67	(42 - 143)	1.8	(0-60)	SW846 8260B
Methyl tert-butyl ether	78	(70 - 130)			SW846 8260B
	74	(70 - 130)	1.0	(0-30)	SW846 8260B
Styrene	73	(23 - 136)			SW846 8260B
	73	(23 - 136)	4.1	(0-65)	SW846 8260B
1,1,2,2-Tetrachloroethane	75	(33 - 162)			SW846 8260B
	72	(33 - 162)	1.1	(0-90)	SW846 8260B
Tetrachloroethene	83	(31 - 137)			SW846 8260B
	86	(31 - 137)	6.7	(0-81)	SW846 8260B
Toluene	89	(46 - 147)			SW846 8260B
	93	(46 - 147)	8.2	(0-24)	SW846 8260B
1,1,1-Trichloroethane	71	(48 - 132)			SW846 8260B
	72	(48 - 132)	4.4	(0-57)	SW846 8260B
1,1,2-Trichloroethane	86	(58 - 128)			SW846 8260B
	87	(58 - 128)	3.6	(0-52)	SW846 8260B
Trichloroethene	67	(46 - 143)			SW846 8260B
	185 a,p	(46 - 143)	69	(0-23)	SW846 8260B
Vinyl chloride	87	(30 - 136)			SW846 8260B
	91	(30 - 136)	7.8	(0-80)	SW846 8260B
Xylenes (total)	79	(33 - 135)			SW846 8260B
	80	(33 - 135)	4.3	(0-78)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	82	(59 - 138)
	78	(59 - 138)
1,2-Dichloroethane-d4	94	(61 - 130)
	90	(61 - 130)
Toluene-d8	93	(60 - 143)
	92	(60 - 143)
4-Bromofluorobenzene	90	(47 - 158)
	88	(47 - 158)

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A5G130319 Work Order #...: HFENM1AD-MS Matrix.....: SO
MS Lot-Sample #: A5G130319-069 HFENM1AE-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A5G130319

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	ND	Work Order #: HFFLA1AA 10.0	%	MB Lot-Sample #: A5G140000-095 MCAWW 160.3 MOD	07/13-07/14/05	5195095
		Dilution Factor: 1				
Percent Solids	ND	Work Order #: HFFK11AA 10.0	%	MB Lot-Sample #: A5G140000-097 MCAWW 160.3 MOD	07/13-07/14/05	5195097
		Dilution Factor: 1				
Percent Solids	ND	Work Order #: HFFLD1AA 10.0	%	MB Lot-Sample #: A5G140000-101 MCAWW 160.3 MOD	07/13-07/14/05	5195101
		Dilution Factor: 1				
Percent Solids	ND	Work Order #: HFFLE1AA 10.0	%	MB Lot-Sample #: A5G140000-104 MCAWW 160.3 MOD	07/13-07/14/05	5195104
		Dilution Factor: 1				
Percent Solids	ND	Work Order #: HFFLF1AA 10.0	%	MB Lot-Sample #: A5G140000-106 MCAWW 160.3 MOD	07/13-07/14/05	5195106
		Dilution Factor: 1				

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A5G130319

Work Order #....: HFEJ1-SMP
HFEJ1-DUP

Matrix.....: SO

Date Sampled....: 07/11/05 10:17 Date Received...: 07/13/05

% Moisture.....: 2.4

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.7	97.8	%	0.16	(0-20)	SD Lot-Sample #: A5G130319-010 MCAWW 160.3 MOD	07/13-07/14/05	5195095

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A5G130319

Work Order #....: HFEKL-SMP
HFEKL-DUP

Matrix.....: SO

Date Sampled....: 07/11/05 12:52 Date Received...: 07/13/05

% Moisture.....: 2.5

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.5	97.9	%	0.33	(0-20)	SD Lot-Sample #: A5G130319-021 MCAWW 160.3 MOD	07/13-07/14/05	5195095
Dilution Factor: 1								

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A5G130319

Work Order #....: HFEK9-SMP
HFEK9-DUP

Matrix.....: SO

Date Sampled....: 07/11/05 14:15 Date Received...: 07/13/05

% Moisture.....: 1.2

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.8	95.1	%	3.9	(0-20)	MCAWW 160.3 MOD	07/13-07/14/05	5195097

SD Lot-Sample #: A5G130319-032
Dilution Factor: 1

Matrix.....: SOLID

% Moisture.....: 36

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A5G130319 Work Order #....: HFEMT-SMP Matrix.....: SO

HFEMT-DUP

Date Sampled....: 07/12/05 08:05 Date Received...: 07/13/05

% Moisture.....: 1.7

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	98.3	98.2	%	0.081	(0-20)	SD Lot-Sample #: A5G130319-055 MCAWW 160.3 MOD	07/13-07/14/05	5195101

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A5G130319

Work Order #....: HFEMX-SMP
HFEMX-DUP

Matrix.....: SO

Date Sampled...: 07/12/05 08:10

Date Received...: 07/13/05

% Moisture.....: 3.2

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	96.8	96.1	%	0.77	(0-20)	SD Lot-Sample #: A5G130319-057 MCAWW 160.3 MOD	07/13-07/14/05	5195101
Dilution Factor: 1								

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A5G130319

Work Order #....: HFENM-SMP
HFENM-DUP

Matrix.....: SO

Date Sampled....: 07/12/05 09:15 Date Received...: 07/13/05

% Moisture.....: 3.0

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	97.0	97.5	%	0.48	(0-20)	SD Lot-Sample #: A5G130319-069 MCAWW 160.3 MOD	07/13-07/14/05	5195104

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A5G130319

Work Order #....: HFEN0-SMP
HFEN0-DUP

Matrix.....: SO

Date Sampled....: 07/12/05 09:37 Date Received...: 07/13/05

% Moisture.....: 3.1

PARAM RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids					SD Lot-Sample #: A5G130319-074		
96.9	97.4	%	0.58	(0-20)	MCAWW 160.3 MOD	07/13-07/14/05	5195104

Dilution Factor: 1

C

Date Received..: 07/13/05

% Moisture.....: 10

STL North Canton

(

Matrix.....: SOLID

% Moisture.....: 5.8

Dilution Factor: 1

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Client Information:

Company: CPLA	Report To: Kathy Shaw
Address: 19996 Skelton	Copy To: Bryant Miller
Plymouth, MI	Invoice To: Charles Kuntz
	P.O.:
Phone: 734 453-5123	Project Name: GM-Grand Rapids
Fax: 734 453-5201	Project Number: 173600-10
Email:	

PAGE 1 OF 2

Laboratory: STL - North Canton
Laboratory Location: North Canton, OH
Laboratory Contact: Denise Hefeker
Requested Due Date: TAT: 2wK
QA/QC Requirements:

ID# Nº 01287
SSOW Ref. Code: E030005

Sample Identification:

Valid Matrix Codes:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other: MeOH	Analysis and Method	Remarks/Lab ID
WG Groundwater WB Borehole Water WS Surface Water SO Soil SE Sediment See Back for Additional Codes												
50-173600-071105-DCN-409	50	7-11-05	955	2	1						TCL VOCs	
-410			957	2	1							
-411			1000	2	1							
-412			1002	2	1							
-413			1005	2	1							
-414			1007	2	1							
-415			1010	2	1							
-416			1012	2	1							
-417			1015	2	1							
-418			1017	5	2							
-419			1225	2	1							
-420			1230	2	1							
-421			1232	2	1							
-422			1235	2	1							
-423			1237	2	1							

TOTAL NUMBER OF CONTAINERS

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
2	2	STL/CNA	7-12-05	1630	David C. Hruska	7-13-05	9:30
IRBILL NO. 674106473760							
Sample Condition 3771							
Temp in °C							
Received on Ice	Y/N						
Sealed Cooler	Y/N						
Samples Intact	Y/N						

Additional Comments:

END OF BATCH

Sampler Name: David C. Hruska
Sampler Signature: <i>[Signature]</i>
Date: 7-12-05

Client Information:

Company: CPA	Report To: K. Shaw
Address: 1996 Sheldon	Copy To: B.M. Miller
Plymouth, MI	Invoice To: D. Stewart
	P.O.:
Site: 734 453-5123	Project Name: GM-G-Deposits
Cell: 734 453-5123	Project Number: 17340-13
Mail:	

PAGE 2 OF 7

Laboratory: STL-N. Canton
Laboratory Location: N. Canton OH
Laboratory Contact: D. Heckler
Requested Due Date:
QA/QC Requirements:
TAT: 2 wk

ID # **Nº 01288**

SSOW Ref. Code: **E030005**

Sample Identification:

Valid Matrix Codes:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other: M=OH	Analysis and Method	Remarks/Lab ID
WG: Groundwater WB: Borehole Water WS: Surface Water SO: Soil SE: Sediment See Back for Additional Codes												
58-173 6007105-DCR-429	58	7-11-05	1240	2							TCL VOCs	
-425			1242	2								
-426			1245	2								
-427			1247	2								
-428			1250	2								
-429			1252	2								
-430			1315	2								
-431			1317	2								
-432			1320	2								
-433			1322	2								
-434			1325	2								
-435			1327	2								
-436			1330	2								
-437			1335	2								
-438			1337	2								

TOTAL NUMBER OF CONTAINERS

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
FED EX	2	CPA	7-12-05	1630	David C. Pines	7/13/05	9:32

Sample Condition

Temp in C	
Received on Ice	Y/N
Cooled Cooler	Y/N
Samples Intact	Y/N

Additional Comments:

END OF BATCH

Sampler Name: David C. Pines
Sampler Signature: [Signature]
Date: 7-12-05

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Client Information:

Company: CH2A	Report To: L. Shaws
Address: 14496 Sheldon	Copy To: B. M. 114
Phychem-IL, MS	Invoice To: D. Stewart
P.O.:	
Job: 7344535123	Project Name: CH2A-0-Rep. 0
C: 7344535201	Project Number: 173600-10
Mail:	

PAGE 3 OF 7

Laboratory: STL-N. Canton
Laboratory Location: N. Canton, OH
Laboratory Contact: D. Hecker
Requested Due Date:
QA/QC Requirements:
TAT: 2.5K

ID #	No 01289
SSON Ref Code:	E030005

Sample Identification:

Sample Identification	Valid Matrix Codes: W/G Groundwater W/B Borehole Water W/S Surface Water S/O Soil S/F Sediment See Back for Additional Codes	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	Preservative				Other: meOH	Analysis and Method	Remarks/Lab ID	
							HCl	H2SO4	HNO3	NaOH				
SO-173606-071105-De2-439		50	7-11-05	1340	2						meOH	TCL VOCs		
	-440			1415	2									
	-444			1420	2									
	-442			1425	2									
	-443			1427	2									
	-444			1430	2									
	-445			1432	2									
	-446			1435	2									
	-447			1440	2									
	-448			1442	2									
	-449			1445	2									
	-450			1520	2									
	-451			1522	2									
	-452			1535	2									
	-453			1530	2									

TOTAL NUMBER OF CONTAINERS

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
FEDEX	2	CH2A	7/20/05	1630	David C. Evans	7/20/05	9:38

IRBILL NO.

Sample Condition	

Additional Comments:

END OF BATCH

emp in C	Y / N
ceived on Ice	Y / N
aled Cooler	Y / N
amples Intact	Y / N

Sample Name: David C. Evans
Sampler Signature: [Signature]
Date: 7-12-05

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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Client Information:

Company: <u>CPA</u>	Report To: <u>K. Shaw</u>
Address: <u>14496 Skeldar</u>	Copy To: <u>B. Miller</u>
<u>Plymouth, MI</u>	Invoice To: <u>D. Stewart</u>
	P.O.:
Phone: <u>734 453 5123</u>	Project Name: <u>GM-Cor Rapids</u>
Fax: <u>734 453 5201</u>	Project Number: <u>17360-10</u>
Email:	

PAGE 6 OF 7

Laboratory: <u>STP-N. Canton</u>
Laboratory Location: <u>N. Canton, OH</u>
Laboratory Contact: <u>D. Heckler</u>
Requested Due Date:
QA/QC Requirements:
TAT: <u>2 wks</u>

ID # Nº 01283

SSOW Ref. Code: E030005

Sample Identification:

Valid Matrix Codes: W/G Groundwater W/B Borehole Water W/S Surface Water SO Soil SE Sediment See Back for Additional Codes	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other: <u>MeOH</u>	Analysis and Method	Remarks/Lab ID
SO-17360-071205-DCR-489	50	7-12-05	942	2	1							
-485	1		945	2	1							
-486			950	2	1							
-487			952	2	1							
-488	✓	✓	955	2	1							
-489			957	2	1							
-490			1000	2	1							
-491			1105	2	1							
-492			1107	2	1							
-493	✓	✓	1110	2	1							
-494			1112	2	1							
-495			1115	2	1							
-496			1117	2	1							
-497			1120	2	1							
-498	✓	✓	1125	2	1							

TOTAL NUMBER OF CONTAINERS

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
<u>FOB</u>	<u>2</u>	<u>ALCANA</u>	<u>7-12-05</u>	<u>1630</u>	<u>Wanda Miller</u>	<u>7/18/05</u>	<u>9:30</u>
IRBIL NO.							

Sample Condition

Temp in °C	Y/N
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

Additional Comments:

END OF BATCH-1

Sampler Name: <u>David C. Buser</u>
Sampler Signature: <u>[Signature]</u>
Date: <u>7-12-05</u>

STL Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: AJ130319

Client: CEA

Project: Sand Rapids

Quote#: _____

Cooler Received on: 7/13/05

Opened on: 7/13/05

by: Diana Mites
 (Signature)

Fedx ☒ Client Drop Off ☐ UPS ☐ DHL ☐ FAS ☐ Other: _____

STL Cooler No# back Foam Box ☐ Client Cooler ☐ Other ☒

1. Were custody seals on the outside of the cooler? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒

If YES, Quantity _____

Were the custody seals signed and dated?

Yes ☒ No ☐ NA ☐

2. Shipper's packing slip attached to this form?

Yes ☒ No ☐ NA ☐

3. Did custody papers accompany the samples? Yes ☐ No ☒

Relinquished by client? Yes ☐ No ☒

4. Did you sign the custody papers in the appropriate place?

Yes ☒ No ☐

5. Packing material used: Bubble Wrap ☒ Foam ☒ None ☐

Other: _____

6. Cooler temperature upon receipt _____ °C (see back of form for multiple coolers/temp)

METHOD: Temp Vial ☐ Coolant & Sample ☐ Against Bottles ☐ IR ☒ ICE/H₂O Slurry ☐

COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐

7. Did all bottles arrive in good condition (Unbroken)?

Yes ☒ No ☐

8. Could all bottle labels and/or tags be reconciled with the COC?

Yes ☒ No ☐

9. Were samples at the correct pH? (record below/on back)

Yes ☐ No ☐ NA ☒

10. Were correct bottles used for the tests indicated?

Yes ☒ No ☐

11. Were air bubbles >6 mm in any VOA vials?

Yes ☐ No ☐ NA ☒

12. Sufficient quantity received to perform indicated analyses?

Yes ☒ No ☐

Contacted PM _____ Date: _____ by: _____ via Voice Mail ☐ Verbal ☐ Other ☐

Concerning: _____

1. CHAIN OF CUSTODY

The following discrepancies occurred:

2. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). Nitric Acid Lot # 051105-HNO₃; Sulfuric Acid Lot # 102804-H₂SO₄; Sodium Hydroxide Lot # -041305 -NaOH; Hydrochloric Acid Lot # 100504-HCl; Sodium Hydroxide and Zinc Acetate Lot # 071604-CH₃COO₂ZN/NaOH

Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

Client ID	pH	Date	Initials

STL Cooler Receipt Form/Narrative North Canton Facility			
<u>Client ID</u>	<u>pH</u>	<u>Date</u>	<u>Initials</u>
<u>Cooler</u>	<u>Temp</u>	<u>Method</u>	<u>Coolant</u>
M = 117 M = 041	3.6 °C 2.7 °C	IR I	ICE I
<u>Discrepancies Cont.</u>			

END OF REPORT

ATTACHMENT C

DATA VALIDATION MEMORANDUMS



**CONESTOGA-ROVERS
& ASSOCIATES**

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MEMORANDUM

TO: Gary Klepper REF. NO.: 17360-09
FROM: Kathy Shaw /tl/44/Det *[initials]* DATE: October 20, 2004
RE: Data Quality Assessment and Validation
Investigative Soil Borings
GM Grand Rapids Site – Grand Rapids, Michigan

The following details a quality assessment and validation of the analytical data resulting from the July 14 and 15, 2004, collection of 55 soil samples from the GM Grand Rapids Site in Grand Rapids, Michigan. The sample summary detailing sample identification, sample location, and analytical parameters is presented in Table 1. Sample analysis was completed at Severn Trent Laboratories, Inc in North Canton, Ohio (STL) in accordance with Method 8260B, SW-846, from "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", 3rd Edition and Promulgated Updates, November 1986. The quality control criteria used to assess the data were established by the methods and the quality assurance project plan (QAPP).¹

Sample Quantitation

The laboratory reported detected concentrations of volatile organic compounds (VOC), below the laboratory's report limit (RL) but above the laboratory's method detection limit (MDL). The laboratory flagged these sample concentrations with a "J". These concentrations should be qualified as estimated (J) values unless otherwise qualified in this memorandum.

Holding Time Period and Sample Analysis

The holding time periods for VOC analysis is 48 hours until sample preservation and 14 days from sample collection until completion of analysis. The samples, as indicated by the sample collection, extraction and analysis dates on the chain-of-custody forms and analytical reports provided by STL, were prepared and analyzed within the required holding time periods.

Method Blank Samples

Contamination of samples contributed by laboratory conditions or procedures was monitored by concurrent preparation and analysis of method blank samples. The samples presented in Table 2 should be qualified due to laboratory contamination. The remaining method blank samples were reported to be free from detectable levels of target analytes, indicating no additional laboratory-attributable contamination occurred.

¹ Application of quality assurance criteria was consistent with "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", EPA-540/R-99/008, October 1999.

Laboratory Control Sample / Laboratory Control Sample Duplicate Analysis

The laboratory control sample and laboratory control sample duplicate (LCS/LCSD) analyses serve as a monitor of the overall performance in all steps of the sample analysis. The LCS percent recoveries were within the laboratory control limits, indicating that an acceptable level of overall performance was achieved.

Laboratory precision was verified by the relative percent difference (RPD) of the LCS/LCSD when a matrix spike/matrix spike duplicate was not analyzed. The RPDs were within the laboratory control limits, indicating that an acceptable level of overall laboratory precision was achieved.

Surrogate Compound Percent Recoveries (Surrogate Recoveries)

Individual sample performance for the organic analyses was monitored by assessing the results of surrogate compound percent recoveries. The surrogate recovery acceptance criteria was met for all samples.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used with the qualifications noted.

TABLE 1

**SAMPLE SUMMARY
GM GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN**

<i>Sample Identification</i>	<i>Sample Location</i>	<i>Sample Depth ft-bgs</i>	<i>Matrix</i>	<i>Parameter</i>
CRA SDG: G-13				
	STL Lot No.: A4G150200			
S-17360-071404-DCR-078	SB3-04	0'-2'	Soil	TCL VOC
S-17360-071404-DCR-079	SB3-04	2'-4'	Soil	TCL VOC
S-17360-071404-DCR-080	SB3-04	4'-6'	Soil	TCL VOC
S-17360-071404-DCR-081	SB3-04	6'-8'	Soil	TCL VOC
S-17360-071404-DCR-082	SB3-04	8'-10'	Soil	TCL VOC
S-17360-071404-DCR-083	SB3-04	10'-12'	Soil	TCL VOC
S-17360-071404-DCR-084	SB3-04	12'-14'	Soil	TCL VOC
S-17360-071404-DCR-085	SB3-04	14'-16'	Soil	TCL VOC
S-17360-071404-DCR-086	SB3-04	16'-18'	Soil	TCL VOC
S-17360-071404-DCR-087	SB3-04	18'-20'	Soil	TCL VOC
S-17360-071404-DCR-088	SB3-04	20'-22'	Soil	TCL VOC
S-17360-071404-DCR-089	SB2-04	0'-2'	Soil	TCL VOC
S-17360-071404-DCR-090	SB2-04	2'-4'	Soil	TCL VOC
S-17360-071404-DCR-091	SB2-04	4'-6'	Soil	TCL VOC
S-17360-071404-DCR-092	SB2-04	6'-8'	Soil	TCL VOC
S-17360-071404-DCR-093	SB2-04	8'-10'	Soil	TCL VOC
S-17360-071404-DCR-094	SB2-04	10'-12'	Soil	TCL VOC
S-17360-071404-DCR-095	SB2-04	12'-14'	Soil	TCL VOC
S-17360-071404-DCR-096	SB2-04	14'-16'	Soil	TCL VOC
S-17360-071404-DCR-097	SB2-04	16'-18'	Soil	TCL VOC
S-17360-071404-DCR-098	SB2-04	18'-20'	Soil	TCL VOC
S-17360-071404-DCR-099	SB2-04	20'-22'	Soil	TCL VOC
CRA SDG: G-14				
	STL Lot No.: A4G160169			
S-17360-071504-DCR-100	SB5-04	0'-2'	Soil	TCL VOC
S-17360-071504-DCR-101	SB5-04	2'-4'	Soil	TCL VOC
S-17360-071504-DCR-102	SB5-04	4'-6'	Soil	TCL VOC
S-17360-071504-DCR-103	SB5-04	6'-8'	Soil	TCL VOC
S-17360-071504-DCR-104	SB5-04	8'-10'	Soil	TCL VOC
S-17360-071504-DCR-105	SB5-04	10'-12'	Soil	TCL VOC
S-17360-071504-DCR-106	SB5-04	12'-14'	Soil	TCL VOC
S-17360-071504-DCR-107	SB5-04	14'-16'	Soil	TCL VOC
S-17360-071504-DCR-108	SB5-04	16'-18'	Soil	TCL VOC
S-17360-071504-DCR-109	SB5-04	18'-20'	Soil	TCL VOC
S-17360-071504-DCR-110	SB5-04	20'-22'	Soil	TCL VOC
S-17360-071504-DCR-111	SB4-04	0'-2'	Soil	TCL VOC

TABLE 1

**SAMPLE SUMMARY
GM GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN**

<i>Sample Identification</i>	<i>Sample Location</i>	<i>Sample Depth ft-bgs</i>	<i>Matrix</i>	<i>Parameter</i>
CRA SDG: G-14 (Cont'd)	STL Lot No.: A4G160169			
S-17360-071504-DCR-112	SB4-04	2'-4'	Soil	TCL VOC
S-17360-071504-DCR-113	SB4-04	4'-6'	Soil	TCL VOC
S-17360-071504-DCR-114	SB4-04	6'-8'	Soil	TCL VOC
S-17360-071504-DCR-115	SB4-04	8'-10'	Soil	TCL VOC
S-17360-071504-DCR-116	SB4-04	10'-12'	Soil	TCL VOC
S-17360-071504-DCR-117	SB4-04	12'-14'	Soil	TCL VOC
S-17360-071504-DCR-118	SB4-04	14'-16'	Soil	TCL VOC
S-17360-071504-DCR-119	SB4-04	16'-18'	Soil	TCL VOC
S-17360-071504-DCR-120	SB4-04	18'-20'	Soil	TCL VOC
S-17360-071504-DCR-121	SB4-04	20'-22'	Soil	TCL VOC
S-17360-071504-DCR-122	SB1-04	0'-2'	Soil	TCL VOC
S-17360-071504-DCR-123	SB1-04	2'-4'	Soil	TCL VOC
S-17360-071504-DCR-124	SB1-04	4'-6'	Soil	TCL VOC
S-17360-071504-DCR-125	SB1-04	6'-8'	Soil	TCL VOC
S-17360-071504-DCR-126	SB1-04	8'-10'	Soil	TCL VOC
S-17360-071504-DCR-127	SB1-04	10'-12'	Soil	TCL VOC
S-17360-071504-DCR-128	SB1-04	12'-14'	Soil	TCL VOC
S-17360-071504-DCR-129	SB1-04	14'-16'	Soil	TCL VOC
S-17360-071504-DCR-130	SB1-04	16'-18'	Soil	TCL VOC
S-17360-071504-DCR-131	SB1-04	18'-20'	Soil	TCL VOC
S-17360-071504-DCR-132	SB1-04	20'-22'	Soil	TCL VOC

TCL - Target Compound List
VOC - Volatile Organic Compounds

TABLE 2
SUMMARY OF QUALIFIED SAMPLE DATA DUE TO
METHOD BLANK CONTAMINATION
GM GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN

<i>Analysis</i>	<i>Parameter</i>	<i>Associated Samples</i>	<i>Qualified Sample Result¹</i>
TCL VOC (µg/L)	Chloromethane	S-17360-071404-DCR-078	ND (540) U
		S-17360-071404-DCR-079	ND (320) U
		S-17360-071404-DCR-081	ND (400) U
		S-17360-071404-DCR-082	ND (270) U
		S-17360-071404-DCR-083	ND (260) U
		S-17360-071404-DCR-084	ND (250) U
		S-17360-071404-DCR-085	ND (260) U
		S-17360-071404-DCR-086	ND (290) U
		S-17360-071404-DCR-087	ND (270) U
		S-17360-071404-DCR-088	ND (260) U
		S-17360-071404-DCR-090	ND (290) U
		S-17360-071404-DCR-095	ND (270) U
		S-17360-071404-DCR-096	ND (290) U
		S-17360-071504-DCR-102	ND (330) U
		S-17360-071504-DCR-107	ND (280) U
		S-17360-071504-DCR-124	ND (280) U
		S-17360-071504-DCR-128	ND (290) U

¹ The analyte should be qualified for the listed samples as:

ND () U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit in parenthesis.



**CONESTOGA-ROVERS
& ASSOCIATES**

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MEMORANDUM

TO:	Gary Klepper	REF. NO.:	17360
FROM:	Kathy Shaw /tl/1/GM <i>[Signature]</i>	DATE:	August 15, 2005
RE:	Data Quality Assessment and Validation 2005 Soil Investigation General Motors Grand Rapids Site – Grand Rapids, Michigan	SSOW:	17307-030005

The following details a quality assessment and validation of the analytical data resulting from the July 11 and 12, 2005, collection of 90 soil, and three (3) quality control samples from the General Motors Grand Rapids Site in Grand Rapids, Michigan. The sample summary detailing sample identification, sample location, quality control samples, and analytical parameters is presented in Table 1. Sample analysis was completed at Severn Trent Laboratories, Inc. in North Canton, Ohio (STL) in accordance with the methodologies presented in Table 2.

The quality control criteria used to assess the data were established by the methods and the quality assurance project plan (QAPP). Application of quality assurance criteria was consistent with following guidance documents:

- i. "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", EPA-540/R-99/008, October 1999; and
- ii. "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Review", EPA-540/R-94/013, February 1994.

These guidelines are collectively referred to as "NFGs" in this Memorandum.

The following elements are addressed in this memorandum with qualification if necessary in the identified tables:

	Data Review Element	Qualification Table
1	Sample Quantitation	NA
2	Sample Preservation and Holding Times	NA
3	Method Blank Samples	Table 3
5	Surrogate Compounds – Organic Analyses	NA
6	Matrix Spike/Matrix Spike Duplicate Analyses	Table 4
7	Laboratory Control Sample Analysis/Laboratory Control Duplicate	Table 5
8	Field Quality Assurance/Quality Control	NA

Sample Quantitation

The laboratory reported detected concentrations of volatile organic compounds (VOC), below the laboratory's report limit (RL) but above the laboratory's method detection limit (MDL). The laboratory flagged these sample concentrations with a "J", these concentrations should be qualified as estimated (J) values unless qualified otherwise in this memorandum.

Sample Preservation and Holding Times

Sample holding time periods and preservation requirements are presented in Table 3. The samples were prepared and/or analyzed with the specified holding time periods. The samples were shipped and maintained in accordance with the samples preservation requirements.

Method Blank Samples

Method blank samples are prepared from a purified sample matrix and are processed concurrently with investigative samples to assess the presence and the magnitude of sample contamination introduced during sample analysis. Method blank samples are analyzed at a minimum frequency of one per analytical batch and target analytes should be non-detect.

The samples presented in Table 3 should be qualified due to laboratory contamination. The laboratory flagged the organic concentrations with a "B", which may be disregarded. The remaining method blank samples were reported to be free from detectable levels of target analytes, indicating no additional laboratory-attributable contamination occurred.

Surrogate Compounds – Organic Analyses

Individual sample performance for organic analyses was monitored by assessing the results of surrogate compound percent recoveries. Surrogate percent recoveries are reviewed against the laboratory developed control limits provided in the analytical report. The surrogate recovery acceptance criteria were met for all samples.

Matrix Spike/Matrix Spike Duplicate Analyses

To assess the long term accuracy and precision of the analytical methods on various matrices, matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and the relative percent difference (RPD) of the concentrations were determined. The organic MS/MSD percent recovery and RPD control limits are established by the laboratory. The samples selected for MS/MSD analysis are identified in Table 1.

The samples that should be qualified due to violation of MS/MSD percent recovery criteria are outlined in Table 4. The MS/MSD percent recoveries and associated RPD acceptance criteria were met in the remaining sample analyses.

Laboratory Control Sample/Laboratory Control Duplicate Analysis

The laboratory control sample and laboratory control duplicate (LCS/LCD) analyses serve as a monitor of the overall performance in all steps of the sample analysis and are analyzed with each sample batch. The LCS/LCD percent recoveries were evaluated against method and laboratory established control limits.

The LCS/LCD percent recoveries were within the laboratory control limits or did not warrant qualification, indicating that an acceptable level of overall performance was achieved with the exception of samples presented with qualifiers in Table 5.

Laboratory precision was verified by the RPD of the LCS/LCD when a matrix spike/matrix spike duplicate was not analyzed. The RPDs were within the laboratory control limits, indicating that an acceptable level of overall laboratory precision was achieved.

Field Quality Assurance/Quality Control

The field quality assurance/quality control consisted of two (2) field duplicate sample sets and one (1) trip blank sample.

Overall precision for the sampling event and laboratory procedures was monitored using the results of the field duplicate sample sets. The RPDs associated with these duplicate samples must be less than 100 percent for soil samples. Table 6 presents the RPDs of detected analytes in duplicate sample sets. The data indicate that an adequate level of precision was achieved for the sampling event.

To monitor potential cross-contamination of VOC during aqueous sample transportation and storage, a trip blank was submitted to the laboratory for VOC analysis with each shipping cooler containing multiple samples. No target analytes were reported as detected in the trip blank sample.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision based on the provided information and may be used with the qualifications noted.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
2005 SOIL INVESTIGATION
GENERAL MOTORS GRAND RAPIDS MFD
GRAND RAPIDS, MICHIGAN

Sample Identification		Sample Location	Sample Depth		Matrix	QC Sample	Parameter
			Start (ft bgs)	End (ft bgs)			
CRA SDG: 17307-030005		STL Lot No.: A5G130319					
SO-17360-071105-DCR-409		SB13-05	0	2	Soil		TCL VOC
SO-17360-071105-DCR-410		SB13-05	2	4	Soil		X
SO-17360-071105-DCR-411		SB13-05	4	6	Soil		X
SO-17360-071105-DCR-412		SB13-05	6	8	Soil		X
SO-17360-071105-DCR-413		SB13-05	8	10	Soil		X
SO-17360-071105-DCR-414		SB13-05	10	12	Soil		X
SO-17360-071105-DCR-415		SB13-05	12	14	Soil		X
SO-17360-071105-DCR-416		SB13-05	14	16	Soil		X
SO-17360-071105-DCR-417		SB13-05	16	18	Soil		X
SO-17360-071105-DCR-418		SB13-05	18	20	Soil	MS/MSD	X
SO-17360-071105-DCR-419		SB6-05	0	2	Soil		X
SO-17360-071105-DCR-420		SB6-05	2	4	Soil		X
SO-17360-071105-DCR-421		SB6-05	4	6	Soil		X
SO-17360-071105-DCR-422		SB6-05	6	8	Soil		X
SO-17360-071105-DCR-423		SB6-05	8	10	Soil		X
SO-17360-071105-DCR-424		SB6-05	10	12	Soil		X
SO-17360-071105-DCR-425		SB6-05	12	14	Soil		X
SO-17360-071105-DCR-426		SB6-05	14	16	Soil		X
SO-17360-071105-DCR-427		SB6-05	16	18	Soil		X
SO-17360-071105-DCR-428		SB6-05	18	20	Soil		X
SO-17360-071105-DCR-429		SB6-05	8	10	Soil	Duplicate (423)	X
SO-17360-071105-DCR-430		SB9-05	0	2	Soil		X
SO-17360-071105-DCR-431		SB9-05	2	4	Soil		X
SO-17360-071105-DCR-432		SB9-05	4	6	Soil		X
SO-17360-071105-DCR-433		SB9-05	6	8	Soil		X

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
2005 SOIL INVESTIGATION
GENERAL MOTORS GRAND RAPIDS MFD
GRAND RAPIDS, MICHIGAN

Sample Identification	Sample Location	Sample Depth		Matrix	QC Sample	Parameter
		Start (ft bgs)	End (ft bgs)			
CRA SDG: 17307-030005						
STL Lot No.: A5G130319						
SO-17360-071105-DCR-434	SB9-05	8	10	Soil		X
SO-17360-071105-DCR-435	SB9-05	10	12	Soil		X
SO-17360-071105-DCR-436	SB9-05	12	14	Soil		X
SO-17360-071105-DCR-437	SB9-05	14	16	Soil		X
SO-17360-071105-DCR-438	SB9-05	16	18	Soil		X
SO-17360-071105-DCR-439	SB9-05	18	20	Soil		X
SO-17360-071105-DCR-440	SB12-05	0	2	Soil	MS/MSD	X
SO-17360-071105-DCR-441	SB12-05	2	4	Soil		X
SO-17360-071105-DCR-442	SB12-05	4	6	Soil		X
SO-17360-071105-DCR-443	SB12-05	6	8	Soil		X
SO-17360-071105-DCR-444	SB12-05	8	10	Soil		X
SO-17360-071105-DCR-445	SB12-05	10	12	Soil		X
SO-17360-071105-DCR-446	SB12-05	12	14	Soil		X
SO-17360-071105-DCR-447	SB12-05	14	16	Soil		X
SO-17360-071105-DCR-448	SB12-05	16	18	Soil		X
SO-17360-071105-DCR-449	SB12-05	18	20	Soil		X
SO-17360-071105-DCR-450	SB7-05	0	2	Soil		X
SO-17360-071105-DCR-451	SB7-05	2	4	Soil		X
SO-17360-071105-DCR-452	SB7-05	4	6	Soil		X
SO-17360-071105-DCR-453	SB7-05	6	8	Soil		X
SO-17360-071105-DCR-454	SB7-05	8	10	Soil		X
SO-17360-071105-DCR-455	SB7-05	10	12	Soil		X
SO-17360-071105-DCR-456	SB7-05	12	14	Soil		X
SO-17360-071105-DCR-457	SB7-05	14	16	Soil		X
SO-17360-071105-DCR-458	SB7-05	16	18	Soil		X

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
2005 SOIL INVESTIGATION
GENERAL MOTORS GRAND RAPIDS MFD
GRAND RAPIDS, MICHIGAN

Sample Identification	Sample Location	Sample Depth		Matrix	QC Sample	Parameter
		Start (ft bgs)	End (ft bgs)			
CRA SDG: 17307-030005						
STL Lot No.: A5G130319						
SO-17360-071105-DCR-459	SB7-05	18	20	Soil		TCL VOC
SO-17360-071205-DCR-460	SB14-05	0	2	Soil		X
SO-17360-071205-DCR-461	SB14-05	2	4	Soil		X
SO-17360-071205-DCR-462	SB14-05	4	6	Soil		X
SO-17360-071205-DCR-463	SB14-05	6	8	Soil		X
SO-17360-071205-DCR-464	SB14-05	8	10	Soil		X
SO-17360-071205-DCR-465	SB14-05	10	12	Soil		X
SO-17360-071205-DCR-466	SB14-05	12	14	Soil		X
SO-17360-071205-DCR-467	SB14-05	14	16	Soil		X
SO-17360-071205-DCR-468	SB14-05	14	16	Soil	Duplicate (467)	X
SO-17360-071205-DCR-469	SB14-05	16	18	Soil		X
SO-17360-071205-DCR-470	SB14-05	18	20	Soil		X
SO-17360-071205-DCR-471	SB8-05	0	2	Soil		X
SO-17360-071205-DCR-472	SB8-05	2	4	Soil		X
SO-17360-071205-DCR-473	SB8-05	4	6	Soil		X
SO-17360-071205-DCR-474	SB8-05	6	8	Soil		X
SO-17360-071205-DCR-475	SB8-05	8	10	Soil		X
SO-17360-071205-DCR-476	SB8-05	10	12	Soil		X
SO-17360-071205-DCR-477	SB8-05	12	14	Soil	MS/MSD	X
SO-17360-071205-DCR-478	SB8-05	14	16	Soil		X
SO-17360-071205-DCR-479	SB8-05	16	18	Soil		X
SO-17360-071205-DCR-480	SB8-05	18	20	Soil		X
SO-17360-071205-DCR-481	SB10-05	0	2	Soil		X
SO-17360-071205-DCR-482	SB10-05	2	4	Soil		X
SO-17360-071205-DCR-483	SB10-05	4	6	Soil		X

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
2005 SOIL INVESTIGATION
GENERAL MOTORS GRAND RAPIDS MFD
GRAND RAPIDS, MICHIGAN

Sample Identification	Sample Location	Sample Depth		Matrix	QC Sample	Parameter
		Start (ft bgs)	End (ft bgs)			
CRA SDG: 17307-030005 STL Lot No.: A5G130319						
SO-17360-071205-DCR-484	SB10-05	6	8	Soil		TCL VOC X
SO-17360-071205-DCR-485	SB10-05	8	10	Soil		TCL VOC X
SO-17360-071205-DCR-486	SB10-05	10	12	Soil		TCL VOC X
SO-17360-071205-DCR-487	SB10-05	12	14	Soil		TCL VOC X
SO-17360-071205-DCR-488	SB10-05	14	16	Soil		TCL VOC X
SO-17360-071205-DCR-489	SB10-05	16	18	Soil		TCL VOC X
SO-17360-071205-DCR-490	SB10-05	18	20	Soil		TCL VOC X
SO-17360-071205-DCR-491	SB11-05	0	2	Soil		TCL VOC X
SO-17360-071205-DCR-492	SB11-05	2	4	Soil		TCL VOC X
SO-17360-071205-DCR-493	SB11-05	4	6	Soil		TCL VOC X
SO-17360-071205-DCR-494	SB11-05	6	8	Soil		TCL VOC X
SO-17360-071205-DCR-495	SB11-05	8	10	Soil		TCL VOC X
SO-17360-071205-DCR-496	SB11-05	10	12	Soil		TCL VOC X
SO-17360-071205-DCR-497	SB11-05	12	14	Soil		TCL VOC X
SO-17360-071205-DCR-498	SB11-05	14	16	Soil		TCL VOC X
SO-17360-071205-DCR-499	SB11-05	16	18	Soil		TCL VOC X
SO-17360-071205-DCR-500	SB11-05	18	20	Soil		TCL VOC X
TB-17360-071205-DCR-501	--	--	--	Methanol	Trip Blank	TCL VOC X

TCL - Target Compound List
VOC - Volatile Organic Compounds
QC - Quality Control
MS/MSD - Matrix Spike /Matrix Spike Duplicate

TABLE 2

SUMMARY OF ANALYTICAL METHODS, HOLDING TIME PERIODS, AND PRESERVATIVES
GENERAL MOTORS GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN

<i>Parameter</i>	<i>Method</i>	<i>Matrix</i>	<i>Holding Time</i>	<i>Preservation</i>
TCL VOC	SW-846 8260B	Soil	- 48 hours from sample collection to preservation - 14 days from sample preservation to completion of analysis	Iced, 4 ± 2° C

TABLE 3

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO METHOD BLANK CONTAMINATION
GENERAL MOTORS GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN

Parameter	Analysis Date	Analyte	Blank Result	Sample ID	Sample Result	Units	Qualified Result
TCL VOC	07/18/05	Acetone	340	SO-17360-071105-DCR-409	360 J	µg/kg	550 U
				SO-17360-071105-DCR-410	380 J	µg/kg	590 U
				SO-17360-071105-DCR-411	330 J	µg/kg	560 U
				SO-17360-071105-DCR-412	350 J	µg/kg	600 U
				SO-17360-071105-DCR-413	390 J	µg/kg	600 U
				SO-17360-071105-DCR-414	350 J	µg/kg	580 U
				SO-17360-071105-DCR-415	370 J	µg/kg	600 U
				SO-17360-071105-DCR-416	340 J	µg/kg	590 U
				SO-17360-071105-DCR-417	420 J	µg/kg	590 U
				SO-17360-071105-DCR-418	330 J	µg/kg	600 U
				SO-17360-071105-DCR-419	400 J	µg/kg	600 U
				SO-17360-071105-DCR-420	390 J	µg/kg	610 U
				SO-17360-071105-DCR-421	370 J	µg/kg	570 U
				SO-17360-071105-DCR-422	370 J	µg/kg	570 U
				SO-17360-071105-DCR-423	350 J	µg/kg	560 U
				SO-17360-071105-DCR-424	460 J	µg/kg	720 U
				SO-17360-071105-DCR-425	330 J	µg/kg	570 U
SO-17360-071105-DCR-426	480 J	µg/kg	790 U				
SO-17360-071105-DCR-427	350 J	µg/kg	600 U				
TCL VOC	07/18/05	Bromomethane	60	SO-17360-071105-DCR-422	29 J	µg/kg	190 U
TCL VOC	07/18/05	Chloromethane	14	SO-17360-071105-DCR-410	11 J	µg/kg	200 U
				SO-17360-071105-DCR-411	11 J	µg/kg	190 U
				SO-17360-071105-DCR-412	10 J	µg/kg	200 U
				SO-17360-071105-DCR-413	10 J	µg/kg	200 U
				SO-17360-071105-DCR-414	9.5 J	µg/kg	190 U
				SO-17360-071105-DCR-415	10 J	µg/kg	200 U
				SO-17360-071105-DCR-416	11 J	µg/kg	200 U
				SO-17360-071105-DCR-417	9.9 J	µg/kg	200 U

TABLE 3

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO METHOD BLANK CONTAMINATION
GENERAL MOTORS GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN

Parameter	Analysis Date	Analyte	Blank Result	Sample ID	Sample Result	Units	Qualified Result
TCL VOC	07/18/05	Chloromethane	14	SO-17360-071105-DCR-418	10 J	µg/kg	200 U
				SO-17360-071105-DCR-419	8.3 J	µg/kg	200 U
				SO-17360-071105-DCR-421	7.3 J	µg/kg	190 U
				SO-17360-071105-DCR-422	7.1 J	µg/kg	190 U
				SO-17360-071105-DCR-423	8.0 J	µg/kg	190 U
				SO-17360-071105-DCR-424	9.7 J	µg/kg	240 U
				SO-17360-071105-DCR-425	9.2 J	µg/kg	190 U
				SO-17360-071105-DCR-427	8.5 J	µg/kg	200 U
				SO-17360-071105-DCR-428	370 J	µg/kg	630 U
				SO-17360-071105-DCR-429	360 J	µg/kg	590 U
				SO-17360-071105-DCR-430	350 J	µg/kg	570 U
				SO-17360-071105-DCR-431	430 J	µg/kg	600 U
TCL VOC	07/18/05	Acetone	320	SO-17360-071105-DCR-432	500 J	µg/kg	620 U
				SO-17360-071105-DCR-433	420 J	µg/kg	590 U
				SO-17360-071105-DCR-434	350 J	µg/kg	580 U
				SO-17360-071105-DCR-435	360 J	µg/kg	590 U
				SO-17360-071105-DCR-436	330 J	µg/kg	580 U
				SO-17360-071105-DCR-437	340 J	µg/kg	550 U
				SO-17360-071105-DCR-438	350 J	µg/kg	560 U
				SO-17360-071105-DCR-439	370 J	µg/kg	570 U
				SO-17360-071105-DCR-440	370 J	µg/kg	620 U
				SO-17360-071105-DCR-442	360 J	µg/kg	560 U
				SO-17360-071105-DCR-443	370 J	µg/kg	590 U
				SO-17360-071105-DCR-444	350 J	µg/kg	600 U
				SO-17360-071105-DCR-445	390 J	µg/kg	590 U
				SO-17360-071105-DCR-446	370 J	µg/kg	570 U
				SO-17360-071105-DCR-447	390 J	µg/kg	590 U

TABLE 3

**SUMMARY OF QUALIFIED SAMPLE DATA DUE TO METHOD BLANK CONTAMINATION
GENERAL MOTORS GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN**

<i>Parameter</i>	<i>Analysis Date</i>	<i>Analyte</i>	<i>Blank Result</i>	<i>Sample ID</i>	<i>Sample Result</i>	<i>Units</i>	<i>Qualified Result</i>
TCL VOC	07/19/05	Acetone	410	SO-17360-071105-DCR-448	280 J	µg/kg	550 U
				SO-17360-071105-DCR-449	340 J	µg/kg	570 U
				SO-17360-071105-DCR-450	350 J	µg/kg	600 U
				SO-17360-071105-DCR-451	240 J	µg/kg	1100 U
				SO-17360-071105-DCR-452	410 J	µg/kg	580 U
				SO-17360-071105-DCR-453	370 J	µg/kg	550 U
				SO-17360-071105-DCR-454	380 J	µg/kg	580 U
				SO-17360-071105-DCR-455	370 J	µg/kg	610 U
				SO-17360-071105-DCR-456	330 J	µg/kg	580 U
				SO-17360-071105-DCR-457	380 J	µg/kg	670 U
				SO-17360-071105-DCR-458	460 J	µg/kg	780 U
				SO-17360-071105-DCR-459	360 J	µg/kg	610 U
				SO-17360-071205-DCR-460	380 J	µg/kg	600 U
				SO-17360-071205-DCR-461	440 J	µg/kg	710 U
				SO-17360-071205-DCR-462	390 J	µg/kg	630 U
				SO-17360-071205-DCR-463	360 J	µg/kg	590 U
				SO-17360-071205-DCR-464	370 J	µg/kg	590 U
				SO-17360-071205-DCR-465	400 J	µg/kg	640 U
				SO-17360-071205-DCR-466	340 J	µg/kg	570 U
TCL VOC	07/19/05	Chloromethane	9.4	SO-17360-071105-DCR-441	24 J	µg/kg	800 U
				SO-17360-071105-DCR-448	7.4 J	µg/kg	180 U
				SO-17360-071105-DCR-449	7.3 J	µg/kg	190 U
				SO-17360-071105-DCR-450	7.1 J	µg/kg	200 U
				SO-17360-071105-DCR-452	5.5 J	µg/kg	190 U
				SO-17360-071105-DCR-453	5.7 J	µg/kg	180 U
				SO-17360-071105-DCR-456	5.4 J	µg/kg	190 U
				SO-17360-071105-DCR-458	8.9 J	µg/kg	260 U
				SO-17360-071105-DCR-459	6.3 J	µg/kg	200 U
				SO-17360-071205-DCR-460	5.9 J	µg/kg	200 U

TABLE 3

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO METHOD BLANK CONTAMINATION
GENERAL MOTORS GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN

<i>Parameter</i>	<i>Analysis Date</i>	<i>Analyte</i>	<i>Blank Result</i>	<i>Sample ID</i>	<i>Sample Result</i>	<i>Units</i>	<i>Qualified Result</i>
TCL VOC	07/19/05	Chloromethane	9.4	SO-17360-071205-DCR-463	5.7 J	µg/kg	200 U
				SO-17360-071205-DCR-464	5.4 J	µg/kg	200 U
				SO-17360-071205-DCR-465	6.1 J	µg/kg	210 U
TCL VOC	07/20/05	Acetone	330	SO-17360-071205-DCR-467	310 J	µg/kg	560 U
				SO-17360-071205-DCR-468	390 J	µg/kg	670 U
				SO-17360-071205-DCR-469	330 J	µg/kg	550 U
				SO-17360-071205-DCR-470	330 J	µg/kg	600 U
				SO-17360-071205-DCR-472	320 J	µg/kg	600 U
				SO-17360-071205-DCR-473	410 J	µg/kg	590 U
				SO-17360-071205-DCR-474	390 J	µg/kg	580 U
				SO-17360-071205-DCR-475	350 J	µg/kg	600 U
				SO-17360-071205-DCR-477	470 J	µg/kg	690 U
				SO-17360-071205-DCR-478	390 J	µg/kg	600 U
				SO-17360-071205-DCR-479	400 J	µg/kg	710 U
				SO-17360-071205-DCR-480	280 J	µg/kg	550 U
				SO-17360-071205-DCR-481	380 J	µg/kg	550 U
				SO-17360-071205-DCR-482	340 J	µg/kg	560 U
				SO-17360-071205-DCR-483	370 J	µg/kg	620 U
				SO-17360-071205-DCR-484	350 J	µg/kg	570 U
TCL VOC	07/20/05	Chloromethane	8.8	SO-17360-071205-DCR-485	370 J	µg/kg	570 U
				SO-17360-071205-DCR-486	360 J	µg/kg	610 U
				SO-17360-071205-DCR-467	5.6 J	µg/kg	190 U
				SO-17360-071205-DCR-469	5.5 J	µg/kg	180 U
				SO-17360-071205-DCR-472	7.9 J	µg/kg	200 U
				SO-17360-071205-DCR-473	6.9 J	µg/kg	200 U
				SO-17360-071205-DCR-474	6.5 J	µg/kg	190 U
				SO-17360-071205-DCR-475	6.3 J	µg/kg	200 U
				SO-17360-071205-DCR-477	8.0 J	µg/kg	230 U

TABLE 3

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO METHOD BLANK CONTAMINATION
GENERAL MOTORS GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN

<i>Parameter</i>	<i>Analysis Date</i>	<i>Analyte</i>	<i>Blank Result</i>	<i>Sample ID</i>	<i>Sample Result</i>	<i>Units</i>	<i>Qualified Result</i>
TCL VOC	07/20/05	Chloromethane	8.8	SO-17360-071205-DCR-481	5.3 J	µg/kg	180 U
				SO-17360-071205-DCR-482	5.7 J	µg/kg	190 U
				SO-17360-071205-DCR-483	6.0 J	µg/kg	210 U
				SO-17360-071205-DCR-484	5.4 J	µg/kg	190 U
				SO-17360-071205-DCR-486	6.6 J	µg/kg	200 U
TCL VOC	07/21/05	Acetone	320	SO-17360-071205-DCR-487	280 J	µg/kg	590 U
				SO-17360-071205-DCR-488	290 J	µg/kg	600 U
				SO-17360-071205-DCR-489	340 J	µg/kg	590 U
				SO-17360-071205-DCR-490	310 J	µg/kg	620 U
				SO-17360-071205-DCR-491	320 J	µg/kg	600 U
				SO-17360-071205-DCR-492	270 J	µg/kg	570 U
				SO-17360-071205-DCR-493	290 J	µg/kg	580 U
				SO-17360-071205-DCR-494	320 J	µg/kg	590 U
				SO-17360-071205-DCR-495	310 J	µg/kg	600 U
				SO-17360-071205-DCR-498	320 J	µg/kg	590 U
TCL VOC	07/21/05	Chloromethane	11	TB-17360-071205-DCR-501	320 J	µg/kg	600 U
				SO-17360-071205-DCR-488	8.2 J	µg/kg	200 U
				SO-17360-071205-DCR-489	7.0 J	µg/kg	200 U
				SO-17360-071205-DCR-490	8.2 J	µg/kg	210 U
				SO-17360-071205-DCR-492	6.0 J	µg/kg	190 U
				SO-17360-071205-DCR-495	6.2 J	µg/kg	200 U
				SO-17360-071205-DCR-498	5.9 J	µg/kg	200 U
				TB-17360-071205-DCR-501	6.7 J	µg/kg	200 U

Notes:

- U - Qualified as Not Detected
 UJ - Estimated Report Limit

TABLE 4

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES
GENERAL MOTORS GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN

Parameter	Associated Sample ID	Analyte	MS Recovery (percent)	MSD Recovery (percent)	RPD	Control Limits Recovery (percent)	RPD (percent)	Sample Result	Units	Qualifier
TCL VOC	SO-17360-071105-DCR-418	Bromodichloromethane	41	46	4.9	47-131	51	80 U	µg/kg	UJ
TCL VOC	SO-17360-071105-DCR-440	Dibromochloromethane Trichloroethene	43 594	44 37	15 36	44-135 46-143	61 23	41 U 2200	µg/kg µg/kg	UJ J
TCL VOC	SO-17360-071205-DCR-477	Acetone Bromodichloromethane Trichloroethene	17 45 67	0.74 47 85	6.9 6.3 69	10-200 47-131 46-143	66 51 23	690 U 92 U 100	µg/kg µg/kg µg/kg	UJ UJ J

Notes:

- J - Estimated Concentration
 UJ - Estimated Report Limit
 U - Not present at or above the associated value

TABLE 6

**SUMMARY OF QUALIFIED SAMPLE RESULTS DUE TO OUTLYING LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RESULTS
GENERAL MOTORS GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN**

<i>Parameter</i>	<i>Compound</i>	<i>LCS Date</i>	<i>Associated Sample ID</i>	<i>LCS %Rec</i>	<i>LCD %Rec</i>	<i>RPD (percent)</i>	<i>Control Limits %Rec %RPD</i>	<i>Sample Results</i>	<i>Units</i>	<i>Qualifier</i>
TCL VOC	Bromodichloromethane	7/18/05	SO-17360-071105-DCR-409	75	69	8.0	72-125	74 U	µg/kg	UJ
			SO-17360-071105-DCR-410					78 U	µg/kg	UJ
			SO-17360-071105-DCR-411					74 U	µg/kg	UJ
			SO-17360-071105-DCR-412					80 U	µg/kg	UJ
			SO-17360-071105-DCR-413					80 U	µg/kg	UJ
			SO-17360-071105-DCR-414					78 U	µg/kg	UJ
			SO-17360-071105-DCR-415					80 U	µg/kg	UJ
			SO-17360-071105-DCR-416					79 U	µg/kg	UJ
			SO-17360-071105-DCR-417					79 U	µg/kg	UJ
			SO-17360-071105-DCR-418					80 U	µg/kg	UJ
			SO-17360-071105-DCR-419					80 U	µg/kg	UJ
			SO-17360-071105-DCR-420					81 U	µg/kg	UJ
			SO-17360-071105-DCR-421					76 U	µg/kg	UJ
			SO-17360-071105-DCR-422					76 U	µg/kg	UJ
			SO-17360-071105-DCR-423					75 U	µg/kg	UJ
			SO-17360-071105-DCR-424					96 U	µg/kg	UJ
			SO-17360-071105-DCR-425					76 U	µg/kg	UJ
			SO-17360-071105-DCR-426					110 U	µg/kg	UJ
			SO-17360-071105-DCR-427					80 U	µg/kg	UJ
TCL VOC	trans-1,3-Dichloropropene	7/18/05	SO-17360-071105-DCR-409	65	69	6.8	67-123	37 U	µg/kg	UJ
			SO-17360-071105-DCR-410					39 U	µg/kg	UJ
			SO-17360-071105-DCR-411					37 U	µg/kg	UJ
			SO-17360-071105-DCR-412					40 U	µg/kg	UJ
			SO-17360-071105-DCR-413					40 U	µg/kg	UJ
			SO-17360-071105-DCR-414					39 U	µg/kg	UJ
			SO-17360-071105-DCR-415					40 U	µg/kg	UJ
			SO-17360-071105-DCR-416					40 U	µg/kg	UJ
			SO-17360-071105-DCR-417					40 U	µg/kg	UJ
			SO-17360-071105-DCR-418					40 U	µg/kg	UJ
			SO-17360-071105-DCR-419					40 U	µg/kg	UJ
			SO-17360-071105-DCR-420					40 U	µg/kg	UJ
			SO-17360-071105-DCR-421					38 U	µg/kg	UJ
			SO-17360-071105-DCR-422					38 U	µg/kg	UJ
			SO-17360-071105-DCR-423					38 U	µg/kg	UJ
			SO-17360-071105-DCR-424					48 U	µg/kg	UJ
			SO-17360-071105-DCR-425					38 U	µg/kg	UJ

TABLE 6

Page 2 of 5

**SUMMARY OF QUALIFIED SAMPLE RESULTS DUE TO OUTLYING LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RESULTS
GENERAL MOTORS GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN**

<i>Parameter</i>	<i>Compound</i>	<i>LCS Date</i>	<i>Associated Sample ID</i>	<i>LCS %Rec</i>	<i>LCD %Rec</i>	<i>RPD (percent)</i>	<i>Control Limits %Rec %RPD</i>	<i>Sample Results</i>	<i>Units</i>	<i>Qualifier</i>
TCL VOC	trans-1,3-Dichloropropene	7/18/05	SO-17360-071105-DCR-426					53 U	µg/kg	UJ
			SO-17360-071105-DCR-427					40 U	µg/kg	UJ
TCL VOC	Bromodichloromethane	7/19/05	SO-17360-071105-DCR-441	71	63	12	72-125	320 U	µg/kg	UJ
			SO-17360-071105-DCR-448					74 U	µg/kg	UJ
			SO-17360-071105-DCR-449					76 U	µg/kg	UJ
			SO-17360-071105-DCR-450					80 U	µg/kg	UJ
			SO-17360-071105-DCR-451					150 U	µg/kg	UJ
			SO-17360-071105-DCR-452					78 U	µg/kg	UJ
			SO-17360-071105-DCR-453					74 U	µg/kg	UJ
			SO-17360-071105-DCR-454					78 U	µg/kg	UJ
			SO-17360-071105-DCR-455					82 U	µg/kg	UJ
			SO-17360-071105-DCR-456					77 U	µg/kg	UJ
			SO-17360-071105-DCR-457					89 U	µg/kg	UJ
			SO-17360-071105-DCR-458					100 U	µg/kg	UJ
			SO-17360-071105-DCR-459					81 U	µg/kg	UJ
			SO-17360-071205-DCR-460					80 U	µg/kg	UJ
			SO-17360-071205-DCR-461					95 U	µg/kg	UJ
			SO-17360-071205-DCR-462					84 U	µg/kg	UJ
TCL VOC	Bromodichloromethane	7/20/05	SO-17360-071205-DCR-463					79 U	µg/kg	UJ
			SO-17360-071205-DCR-464					79 U	µg/kg	UJ
			SO-17360-071205-DCR-465					85 U	µg/kg	UJ
			SO-17360-071205-DCR-466					76 U	µg/kg	UJ
			SO-17360-071205-DCR-467	74	62	18	72-125	74 U	µg/kg	UJ
			SO-17360-071205-DCR-468					90 U	µg/kg	UJ
			SO-17360-071205-DCR-469					74 U	µg/kg	UJ
			SO-17360-071205-DCR-470					80 U	µg/kg	UJ
			SO-17360-071205-DCR-471					2700 U	µg/kg	UJ
			SO-17360-071205-DCR-472					80 U	µg/kg	UJ
			SO-17360-071205-DCR-473					78 U	µg/kg	UJ
			SO-17360-071205-DCR-474					78 U	µg/kg	UJ
			SO-17360-071205-DCR-475					80 U	µg/kg	UJ
			SO-17360-071205-DCR-476					300 U	µg/kg	UJ
			SO-17360-071205-DCR-477					92 U	µg/kg	UJ
			SO-17360-071205-DCR-478					80 U	µg/kg	UJ
			SO-17360-071205-DCR-479					95 U	µg/kg	UJ

TABLE 6

**SUMMARY OF QUALIFIED SAMPLE RESULTS DUE TO OUTLYING LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RESULTS
GENERAL MOTORS GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN**

<i>Parameter</i>	<i>Compound</i>	<i>LCS Date</i>	<i>Associated Sample ID</i>	<i>LCS %Rec</i>	<i>LCD %Rec</i>	<i>RPD (percent)</i>	<i>Control Limits %Rec %RPD</i>	<i>Sample Results</i>	<i>Units</i>	<i>Qualifier</i>
TCL VOC	Bromodichloromethane	7/20/05	SO-17360-071205-DCR-480					74 U	µg/kg	UJ
			SO-17360-071205-DCR-481					74 U	µg/kg	UJ
			SO-17360-071205-DCR-482					75 U	µg/kg	UJ
			SO-17360-071205-DCR-483					82 U	µg/kg	UJ
			SO-17360-071205-DCR-484					76 U	µg/kg	UJ
			SO-17360-071205-DCR-485					76 U	µg/kg	UJ
			SO-17360-071205-DCR-486					82 U	µg/kg	UJ
TCL VOC	cis-1,3-Dichloropropene	7/20/05	SO-17360-071205-DCR-467	66	66	0.54	71-125	37 U	µg/kg	UJ
			SO-17360-071205-DCR-468					45 U	µg/kg	UJ
			SO-17360-071205-DCR-469					37 U	µg/kg	UJ
			SO-17360-071205-DCR-470					40 U	µg/kg	UJ
			SO-17360-071205-DCR-471					1300 U	µg/kg	UJ
			SO-17360-071205-DCR-472					40 U	µg/kg	UJ
			SO-17360-071205-DCR-473					39 U	µg/kg	UJ
			SO-17360-071205-DCR-474					39 U	µg/kg	UJ
			SO-17360-071205-DCR-475					40 U	µg/kg	UJ
			SO-17360-071205-DCR-476					150 U	µg/kg	UJ
			SO-17360-071205-DCR-477					46 U	µg/kg	UJ
			SO-17360-071205-DCR-478					40 U	µg/kg	UJ
			SO-17360-071205-DCR-479					48 U	µg/kg	UJ
			SO-17360-071205-DCR-480					37 U	µg/kg	UJ
			SO-17360-071205-DCR-481					37 U	µg/kg	UJ
			SO-17360-071205-DCR-482					38 U	µg/kg	UJ
			SO-17360-071205-DCR-483					41 U	µg/kg	UJ
			SO-17360-071205-DCR-484					38 U	µg/kg	UJ
			SO-17360-071205-DCR-485					38 U	µg/kg	UJ
			SO-17360-071205-DCR-486					41 U	µg/kg	UJ
TCL VOC	trans-1,3-Dichloropropene	7/20/05	SO-17360-071205-DCR-467	63	62	1.7	67-125	37 U	µg/kg	UJ
			SO-17360-071205-DCR-468					45 U	µg/kg	UJ
			SO-17360-071205-DCR-469					37 U	µg/kg	UJ
			SO-17360-071205-DCR-470					40 U	µg/kg	UJ
			SO-17360-071205-DCR-471					1300 U	µg/kg	UJ
			SO-17360-071205-DCR-472					40 U	µg/kg	UJ
			SO-17360-071205-DCR-473					39 U	µg/kg	UJ
			SO-17360-071205-DCR-474					39 U	µg/kg	UJ

TABLE 6

**SUMMARY OF QUALIFIED SAMPLE RESULTS DUE TO OUTLYING LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RESULTS
GENERAL MOTORS GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN**

<i>Parameter</i>	<i>Compound</i>	<i>LCS Date</i>	<i>Associated Sample ID</i>	<i>LCS %Rec</i>	<i>LCD %Rec</i>	<i>RPD (percent)</i>	<i>Control Limits %Rec %RPD</i>	<i>Sample Results</i>	<i>Units</i>	<i>Qualifier</i>
TCL VOC	trans-1,3-Dichloropropene	7/20/05	SO-17360-071205-DCR-475					40 U	µg/kg	UJ
			SO-17360-071205-DCR-476					150 U	µg/kg	UJ
			SO-17360-071205-DCR-477					46 U	µg/kg	UJ
			SO-17360-071205-DCR-478					40 U	µg/kg	UJ
			SO-17360-071205-DCR-479					48 U	µg/kg	UJ
			SO-17360-071205-DCR-480					37 U	µg/kg	UJ
			SO-17360-071205-DCR-481					37 U	µg/kg	UJ
			SO-17360-071205-DCR-482					38 U	µg/kg	UJ
			SO-17360-071205-DCR-483					41 U	µg/kg	UJ
			SO-17360-071205-DCR-484					38 U	µg/kg	UJ
			SO-17360-071205-DCR-485					38 U	µg/kg	UJ
			SO-17360-071205-DCR-486					41 U	µg/kg	UJ
			SO-17360-071205-DCR-487					79 U	µg/kg	UJ
			SO-17360-071205-DCR-488				30	80 U	µg/kg	UJ
			SO-17360-071205-DCR-489					79 U	µg/kg	UJ
			SO-17360-071205-DCR-490					82 U	µg/kg	UJ
TCL VOC	Bromodichloromethane	7/21/05	SO-17360-071205-DCR-491					80 U	µg/kg	UJ
			SO-17360-071205-DCR-492					76 U	µg/kg	UJ
			SO-17360-071205-DCR-493					78 U	µg/kg	UJ
			SO-17360-071205-DCR-494					79 U	µg/kg	UJ
			SO-17360-071205-DCR-495					80 U	µg/kg	UJ
			SO-17360-071205-DCR-496					3700 U	µg/kg	UJ
			SO-17360-071205-DCR-497					300 U	µg/kg	UJ
			SO-17360-071205-DCR-498					78 U	µg/kg	UJ
			SO-17360-071205-DCR-499					2000 U	µg/kg	UJ
			SO-17360-071205-DCR-500					480 U	µg/kg	UJ
			TB-17360-071205-DCR-501					80 U	µg/kg	UJ
			SO-17360-071205-DCR-487					40 U	µg/kg	UJ
			SO-17360-071205-DCR-488				30	40 U	µg/kg	UJ
			SO-17360-071205-DCR-489					40 U	µg/kg	UJ
			SO-17360-071205-DCR-490					41 U	µg/kg	UJ
TCL VOC	cis-1,3-Dichloropropene	7/21/05	SO-17360-071205-DCR-491					40 U	µg/kg	UJ
			SO-17360-071205-DCR-492					38 U	µg/kg	UJ
			SO-17360-071205-DCR-493					39 U	µg/kg	UJ
			SO-17360-071205-DCR-494					40 U	µg/kg	UJ

TABLE 6

**SUMMARY OF QUALIFIED SAMPLE RESULTS DUE TO OUTLYING LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RESULTS
GENERAL MOTORS GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN**

<i>Parameter</i>	<i>Compound</i>	<i>LCS Date</i>	<i>Associated Sample ID</i>	<i>LCS %Rec</i>	<i>LCD %Rec</i>	<i>RPD (percent)</i>	<i>Control Limits %Rec %RPD</i>	<i>Sample Results</i>	<i>Units</i>	<i>Qualifier</i>
TCL VOC	cis-1,3-Dichloropropene	7/21/05	SO-17360-071205-DCR-495					40 U	µg/kg	UJ
			SO-17360-071205-DCR-496					1900 U	µg/kg	UJ
			SO-17360-071205-DCR-497					150 U	µg/kg	UJ
			SO-17360-071205-DCR-498					39 U	µg/kg	UJ
			SO-17360-071205-DCR-499					1000 U	µg/kg	UJ
			SO-17360-071205-DCR-500					240 U	µg/kg	UJ
			TB-17360-071205-DCR-501					40 U	µg/kg	UJ

Notes:

- J - Estimated Concentration
- UJ - Estimated Report Limit
- R - Rejected
- U - Not present at or above the associated value

TABLE 7

SUMMARY OF DETECTED ANALYTES IN FIELD DUPLICATE SAMPLE SET
GENERAL MOTORS GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN

<i>Parameter</i>	<i>Analyte</i>	<i>Original Sample ID</i>	<i>Original Result</i>	<i>Duplicate Sample ID</i>	<i>Duplicate Result</i>	<i>RPD</i>	<i>Units</i>
TCL VOC	Trichloroethene	SO-17360-071205-DCR-467	19 J	SO-17360-071205-DCR-468	18 J	5.4	µg/L

Notes:

RPD Relative Percent Difference
J - Estimated Concentration



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MEMORANDUM

TO:	Gary Klepper	REF. NO.:	17360
FROM:	Kathy Shaw/lo/1/CT 	DATE:	January 31, 2006
RE:	Data Quality Assessment and Validation Second Soil Investigation General Motors Grand Rapids Site - Grand Rapids, Michigan	SSOW:	17307-030008

The following details a quality assessment and validation of the analytical data resulting from the December 3, 2005, collection of 40 soil and three (3) quality control samples from the General Motors Grand Rapids Site in Grand Rapids, Michigan. The sample summary detailing sample identification, sample location, quality control samples, and analytical parameters is presented in Table 1. Sample analysis was completed at Severn Trent Laboratories, Inc. in North Canton, Ohio (STL) in accordance with the methodologies presented in Table 2.

The quality control criteria used to assess the data were established by the methods and the quality assurance project plan (QAPP). Application of quality assurance criteria was consistent with following guidance documents:

- i. "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", EPA-540/R-99/008, October 1999;

These guidelines are collectively referred to as "NFGs" in this Memorandum.

The following elements are addressed in this memorandum with qualification if necessary in the identified tables:

	Data Review Element	Qualification Table
1	Sample Quantitation	NA
2	Sample Preservation and Holding Times	NA
3	Method Blank Samples	Table 3
4	Surrogate Compounds – Organic Analyses	NA
5	Matrix Spike/Matrix Spike Duplicate Analyses	NA
6	Laboratory Control Sample Analysis/Laboratory Control Duplicate	Table 4
7	Field Quality Assurance/Quality Control	NA

Sample Quantitation

The laboratory reported detected concentrations of volatile organic compounds (VOC), below the laboratory's report limit (RL) but above the laboratory's method detection limit (MDL). The laboratory flagged these sample concentrations with a "J"; these concentrations should be qualified as estimated (J) values unless qualified otherwise in this memorandum.

Sample Preservation and Holding Times

Sample holding time periods and preservation requirements are presented in Table 2. The samples were prepared and/or analyzed within the specified holding time periods. The samples were shipped and maintained in accordance with the sample preservation requirements.

Method Blank Samples

Method blank samples are prepared from a purified sample matrix and are processed concurrently with investigative samples to assess the presence and the magnitude of sample contamination introduced during sample analysis. Method blank samples are analyzed at a minimum frequency of one per analytical batch and target analytes should be non-detect.

The samples presented in Table 3 should be qualified due to laboratory contamination. The laboratory flagged these concentrations with a "B" which may be disregarded. The remaining method blank samples were reported to be free from detectable levels of target analytes, indicating no additional laboratory-attributable contamination occurred.

Surrogate Compounds – Organic Analyses

Individual sample performance for organic analyses was monitored by assessing the results of surrogate compound percent recoveries. Surrogate percent recoveries are reviewed against the laboratory developed control limits provided in the analytical report. The surrogate recovery acceptance criteria were met for all samples.

Matrix Spike/Matrix Spike Duplicate Analyses

To assess the long term accuracy and precision of the analytical methods on various matrices, matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and the relative percent difference (RPD) of the concentrations were determined. The organic MS/MSD percent recovery and RPD control limits are established by the laboratory. The sample selected for MS/MSD analysis is identified in Table 1. The MS/MSD percent recoveries and associated RPD acceptance criteria were met.

Laboratory Control Sample/Laboratory Control Duplicate Analysis

The laboratory control sample and laboratory control duplicate (LCS/LCD) analyses serve as a monitor of the overall performance in all steps of the sample analysis and are analyzed with each sample batch. The LCS/LCD percent recoveries were evaluated against method and laboratory established control limits.

The LCS/LCD percent recoveries were within the laboratory control limits or did not warrant qualification, indicating that an acceptable level of overall performance was achieved with the exception of samples presented with qualifiers in Table 4.

Laboratory precision was verified by the relative percent difference (RPD) of the LCS/LCD when a matrix spike/matrix spike duplicate was not analyzed. The RPDs were within the laboratory control limits, indicating that an acceptable level of overall laboratory precision was achieved.

Field Quality Assurance/Quality Control

The field quality assurance/quality control consisted of, two (2) field duplicate sample sets and one (1) trip blank sample.

Overall precision for the sampling event and laboratory procedures was monitored using the results of the field duplicate sample sets. The RPDs associated with these duplicate samples must be less than 100 percent for soil samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the RL, the evaluation criteria is two times the RL value for soil samples. Table 5 presents the RPDs of detected analytes in the duplicate sample sets. The data indicate that an adequate level of precision was achieved for the sampling event.

To monitor potential cross-contamination of VOC during sample transportation and storage, a trip blank was submitted to the laboratory for VOC analysis with each shipping cooler containing multiple samples. No target analyte were reported as detected in the trip blank sample.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision based on the provided information and may be used with the qualifications noted.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
2005 SECOND SOIL INVESTIGATION
GENERAL MOTORS GRAND RAPIDS MFD
GRAND RAPIDS, MICHIGAN

Sample Identification	Sample Location	Sample Depth		Matrix	QC Sample	Parameter
		Start ft-bgs	End ft-bgs			
SO-17360-120305-DCR-508	SB16-05	0	2	Soil	Duplicate (508)	TCL VOC
SO-17360-120305-DCR-509	SB16-05	0	2	Soil		X
SO-17360-120305-DCR-510	SB16-05	2	4	Soil		X
SO-17360-120305-DCR-511	SB16-05	4	6	Soil		X
SO-17360-120305-DCR-512	SB16-05	6	8	Soil		X
SO-17360-120305-DCR-513	SB16-05	8	10	Soil	MS/MSD	X
SO-17360-120305-DCR-514	SB16-05	10	12	Soil		X
SO-17360-120305-DCR-515	SB16-05	12	14	Soil		X
SO-17360-120305-DCR-516	SB16-05	14	16	Soil		X
SO-17360-120305-DCR-517	SB16-05	16	18	Soil		X
SO-17360-120305-DCR-518	SB16-05	18	20	Soil		X
SO-17360-120305-DCR-519	SB17-05	0	2	Soil		X
SO-17360-120305-DCR-520	SB17-05	2	4	Soil		X
SO-17360-120305-DCR-521	SB17-05	4	6	Soil		X
SO-17360-120305-DCR-522	SB17-05	6	8	Soil		X
SO-17360-120305-DCR-523	SB17-05	8	10	Soil		X
SO-17360-120305-DCR-524	SB17-05	10	12	Soil		X
SO-17360-120305-DCR-525	SB17-05	12	14	Soil		X
SO-17360-120305-DCR-526	SB17-05	14	16	Soil		X
SO-17360-120305-DCR-527	SB17-05	16	18	Soil		X
SO-17360-120305-DCR-528	SB17-05	18	20	Soil		X
SO-17360-120305-DCR-529	SB18-05	0	2	Soil	Duplicate (534)	X
SO-17360-120305-DCR-530	SB18-05	2	4	Soil		X
SO-17360-120305-DCR-531	SB18-05	4	6	Soil		X
SO-17360-120305-DCR-532	SB18-05	6	8	Soil		X
SO-17360-120305-DCR-533	SB18-05	8	10	Soil		X
SO-17360-120305-DCR-534	SB18-05	10	12	Soil		X
SO-17360-120305-DCR-535	SB18-05	10	12	Soil		X

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
2005 SECOND SOIL INVESTIGATION
GENERAL MOTORS GRAND RAPIDS MFD
GRAND RAPIDS, MICHIGAN

Sample Identification	Sample Location	Sample Depth		Matrix	QC Sample	Parameter
		Start ft-bgs	End ft-bgs			
SO-17360-120305-DCR-536	SB18-05	12	14	Soil		TCL
SO-17360-120305-DCR-537	SB18-05	14	16	Soil		X
SO-17360-120305-DCR-538	SB18-05	16	18	Soil		X
SO-17360-120305-DCR-539	SB18-05	18	20	Soil		X
SO-17360-120305-DCR-540	SB15-05	0	2	Soil		X
SO-17360-120305-DCR-541	SB15-05	2	4	Soil		X
SO-17360-120305-DCR-542	SB15-05	4	6	Soil		X
SO-17360-120305-DCR-543	SB15-05	6	8	Soil		X
SO-17360-120305-DCR-544	SB15-05	8	10	Soil		X
SO-17360-120305-DCR-545	SB15-05	10	12	Soil		X
SO-17360-120305-DCR-546	SB15-05	12	14	Soil		X
SO-17360-120305-DCR-547	SB15-05	14	16	Soil		X
SO-17360-120305-DCR-548	SB15-05	16	18	Soil		X
SO-17360-120305-DCR-549	SB15-05	18	20	Soil		X
TB-17360-120305-DCR-550	--	--	--	MeOH	Trip Blank	X

TCL - Target Compound List
VOC - Volatile Organic Compounds
MEOH - Methanol
QC - Quality Control
MS/MSD - Matrix Spike / Matrix Spike Duplicate

TABLE 2

Page 1 of 1

SUMMARY OF ANALYTICAL METHODS, HOLDING TIME PERIODS, AND PRESERVATIVES
2005 SECOND SOIL INVESTIGATION
GENERAL MOTORS GRAND RAPIDS MFD
GRAND RAPIDS, MICHIGAN

<i>Parameter</i>	<i>Method</i>	<i>Matrix</i>	<i>Holding Time</i>	<i>Preservation</i>
TCL VOC	SW-846 8260B	Soil	- 48 hours from sample collection to preservation - 14 days from sample preservation to completion of analysis	Iced, 4 ± 2° C

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", 3rd Edition, and Promulgated updates, November 1986

TABLE 3

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO METHOD BLANK CONTAMINATION
2005 SECOND SOIL INVESTIGATION
GENERAL MOTORS GRAND RAPIDS MFD
GRAND RAPIDS, MICHIGAN

Parameter	Analysis Date	Analyte	Blank Result	Sample ID	Sample Result	Units	Qualified Result
TCL VOC	12/12/05	Acetone	100	SO-17360-120305-DCR-518	110 J	µg/kg	660 U
				SO-17360-120305-DCR-519	110 J	µg/kg	650 U
				SO-17360-120305-DCR-520	120 J	µg/kg	640 U
				SO-17360-120305-DCR-521	100 J	µg/kg	630 U
				SO-17360-120305-DCR-522	180 J	µg/kg	660 U
				SO-17360-120305-DCR-523	100 J	µg/kg	600 U
				SO-17360-120305-DCR-524	120 J	µg/kg	700 U
				SO-17360-120305-DCR-525	130 J	µg/kg	680 U
				SO-17360-120305-DCR-527	130 J	µg/kg	580 U
				SO-17360-120305-DCR-508	110 J	µg/kg	650 U
				SO-17360-120305-DCR-510	150 J	µg/kg	630 U
				SO-17360-120305-DCR-511	120 J	µg/kg	720 U
				SO-17360-120305-DCR-512	140 J	µg/kg	630 U
				SO-17360-120305-DCR-513	120 J	µg/kg	650 U
				SO-17360-120305-DCR-514	110 J	µg/kg	670 U
				SO-17360-120305-DCR-515	170 J	µg/kg	680 U
				SO-17360-120305-DCR-516	160 J	µg/kg	710 U

Notes:

U - Qualified as Not Detected
J - Estimated Concentration

TABLE 4

SUMMARY OF QUALIFIED SAMPLE RESULTS DUE TO OUTLYING LABORATORY CONTROL SAMPLE/ LABORATORY CONTROL SAMPLE DUPLICATE RESULTS
 2005 SECOND SOIL INVESTIGATION
 GENERAL MOTORS GRAND RAPIDS MFD
 GRAND RAPIDS, MICHIGAN

Parameter	Compound	LCS Date	Associated Sample ID	LCS %Rec	LCD %Rec	RPD (percent)	Control Limits %Rec %RPD	Sample Results	Units	Qualifier
TCL VOC	Acetone	12/12/05	SO-17360-120305-DCR-528	51	47	7.5	58-130 30	670 U	µg/kg	UJ
			SO-17360-120305-DCR-529					640 U	µg/kg	UJ
			SO-17360-120305-DCR-530					620 U	µg/kg	UJ
			SO-17360-120305-DCR-531					640 U	µg/kg	UJ
			SO-17360-120305-DCR-532					630 U	µg/kg	UJ
			SO-17360-120305-DCR-533					690 U	µg/kg	UJ
			SO-17360-120305-DCR-534					610 U	µg/kg	UJ
			SO-17360-120305-DCR-535					690 U	µg/kg	UJ
			SO-17360-120305-DCR-536					630 U	µg/kg	UJ
			SO-17360-120305-DCR-537					640 U	µg/kg	UJ
			SO-17360-120305-DCR-538					640 U	µg/kg	UJ
			SO-17360-120305-DCR-539					670 U	µg/kg	UJ
			SO-17360-120305-DCR-540					650 U	µg/kg	UJ
			SO-17360-120305-DCR-541					630 U	µg/kg	UJ
			SO-17360-120305-DCR-542					660 U	µg/kg	UJ
			SO-17360-120305-DCR-543					640 U	µg/kg	UJ
			SO-17360-120305-DCR-544					720 U	µg/kg	UJ
			SO-17360-120305-DCR-545					2000 U	µg/kg	UJ
			SO-17360-120305-DCR-546					690 U	µg/kg	UJ
			SO-17360-120305-DCR-547					630 U	µg/kg	UJ

Notes:

UJ - Estimated Report Limit

U - Not present at or above the associated value

TABLE 5

SUMMARY OF DETECTED ANALYTES IN FIELD DUPLICATE SAMPLE SET
2005 SECOND SOIL INVESTIGATION
GENERAL MOTORS GRAND RAPIDS MFD
GRAND RAPIDS, MICHIGAN

<i>Parameter</i>	<i>Analyte</i>	<i>Original Sample ID</i>	<i>Original Result</i>	<i>Duplicate Sample ID</i>	<i>Duplicate Result</i>	<i>RPD</i>	<i>Units</i>
TCL VOC	Trichloroethene	SO-17360-120305-DCR-508	1200	SO-17360-120305-DCR-509	740	47	µg/kg

Notes:

RPD Relative Percent Difference