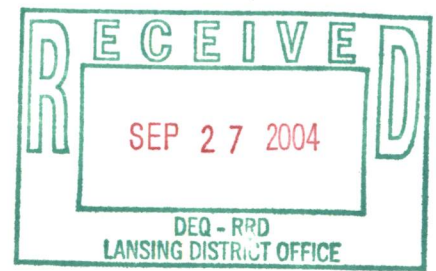




Weston Solutions, Inc.
Suite 500
750 East Bunker Court
Vernon Hills, IL 60061-1450
847-918-4000 • Fax 847-918-4055
www.westonsolutions.com



22 September 2004

Mr. James Innes
Michigan Department of Environmental Quality-RRD
P.O. Box 30242
Lansing, MI 48909

Work Order No.: 01138.079.010.0010

Re: Installation of Additional Monitoring Wells and Groundwater Sampling to Monitor Presence of Vinyl Chloride
Linden Road Landfill Site (Parcel #3)
Flint Township, Michigan

Dear Mr. Innes:

Weston Solutions, Inc. (WESTON®), on behalf of General Motors Corporation (GM), is pleased to submit the results of additional groundwater sampling to address an exceedence of vinyl chloride drinking water criteria in shallow groundwater in the vicinity of Monitoring Well MW-3S at the Linden Road Landfill site located in Flint Township, Michigan. As described in a plan dated 27 February 2004 submitted to the Michigan Department of Environmental Quality (MDEQ) which has subsequently approved by the MDEQ, WESTON installed two additional monitoring wells at the site and conducted groundwater sampling for volatile organic compound (VOC) analysis. The following letter report summarizes the scope of work performed and presents the results of the sampling.

Installation of New Monitoring Wells

On 20 July 2004 WESTON completed the installation of two additional monitoring wells (MW-14S and MW-15S) at locations shown in Figure 1. The wells were installed using 4.25-inch i.d.hollow-stem augers (HSAs). Soil samples were collected at continuous intervals with standard split-spoon samplers, using ASTM-1586 procedures. Consistent with the existing wells on site, well materials consisted of 2-inch diameter, stainless steel, flush-jointed riser pipe and stainless steel screens. The well screens were 5 feet in length with 0.010-inch slotted openings. The screens were positioned to straddle the water table. All well construction and well development methods were consistent with those employed in constructing the existing wells on site and in accordance with the letter Work Plan dated 27 January 2004. Boring logs/well construction diagrams and copies of field notes are included in Attachment A.





Mr. James Innes
Michigan Department of Environmental Quality

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22 September 2004

Groundwater Sampling and Analytical Results

Groundwater sampling was conducted on 10 August 2004. As proposed, groundwater samples were collected from three shallow groundwater monitoring wells including MW-03S, MW-14S, and MW-15S.

A single groundwater sample was collected from each of the three monitoring wells. A quality control (QC) field duplicate sample was also collected from monitoring well MW-3S. Sampling and shipping procedures were consistent with those established in the sampling plan for the site. A trip blank sample was also included for laboratory analysis for quality assurance purposes. Temperature, conductivity, and pH measurements were recorded during sampling.

Merit Laboratories of East Lansing, Michigan, analyzed the samples for volatile organic compounds (VOCs). A WESTON chemist validated the analytical data in accordance with United States Environmental Protection Agency (U.S. EPA) data validation procedures.

Table 1 presents a summary of detected constituents and their respective concentrations for each sample collected. Table 1 also compares the concentrations of the detected constituents to the MDEQ Generic Drinking Water Criteria for residential and industrial/commercial categories. A copy of the complete laboratory report, including laboratory QA/QC data and chain-of-custody documentation, is presented in Attachment B.

Based on the analytical results four VOCs including trichloroethene, 1,1-dichloroethane, cis-1,2-dichloroethene, and vinyl chloride were detected in the samples. Trichloroethene was detected only in the sample from MW-14S at a concentration of 0.002 mg/L. 1,1-Dichloroethane was detected at a concentration of 0.011 mg/L in both the investigative and the duplicate sample from MW-3S. Cis-1,2-Dichloroethene was detected in the samples from MW-3S and its duplicate sample at a concentration of 0.013 mg/L. This compound was also detected in MW-14S at a concentration of 0.031 mg/L. Vinyl chloride was detected in MW-3S and its duplicate sample at a concentration of 0.011 mg/L, and in MW-14S at a concentration of 0.004 mg/L. Except for vinyl chloride none of the compounds detected exceeded the MDEQ Generic Drinking Water Criteria. Vinyl chloride, detected in samples from both MW-3S and MW-14S exceeded the above-referenced criteria of 0.002 mg/L.

Based on this data, the presence of vinyl chloride in one of the monitoring wells downgradient of MW-03S exceeds the MDEQ Generic Drinking Water Criteria. As indicated in WESTON's letter dated 27 February 2004, WESTON will continue to monitor the concentrations of vinyl



Mr. James Innes
Michigan Department of Environmental Quality

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22 September 2004

chloride in the above three monitoring wells for two additional quarters prior to considering further course of action related to this issue. The next sampling event to monitor vinyl chloride will be conducted in conjunction with the forthcoming annual Operation & Maintenance (O&M) sampling of all the monitoring wells on site planned for the last week of October 2004.

If you have any questions or require additional information, please call me at (847) 918-4018.

Very truly yours,
WESTON SOLUTIONS, INC.

A handwritten signature in blue ink, appearing to read "S. Babusukumar".

S. Babusukumar, P.G.
Project Manager

SB\tg

cc: R. Metcalf, GM

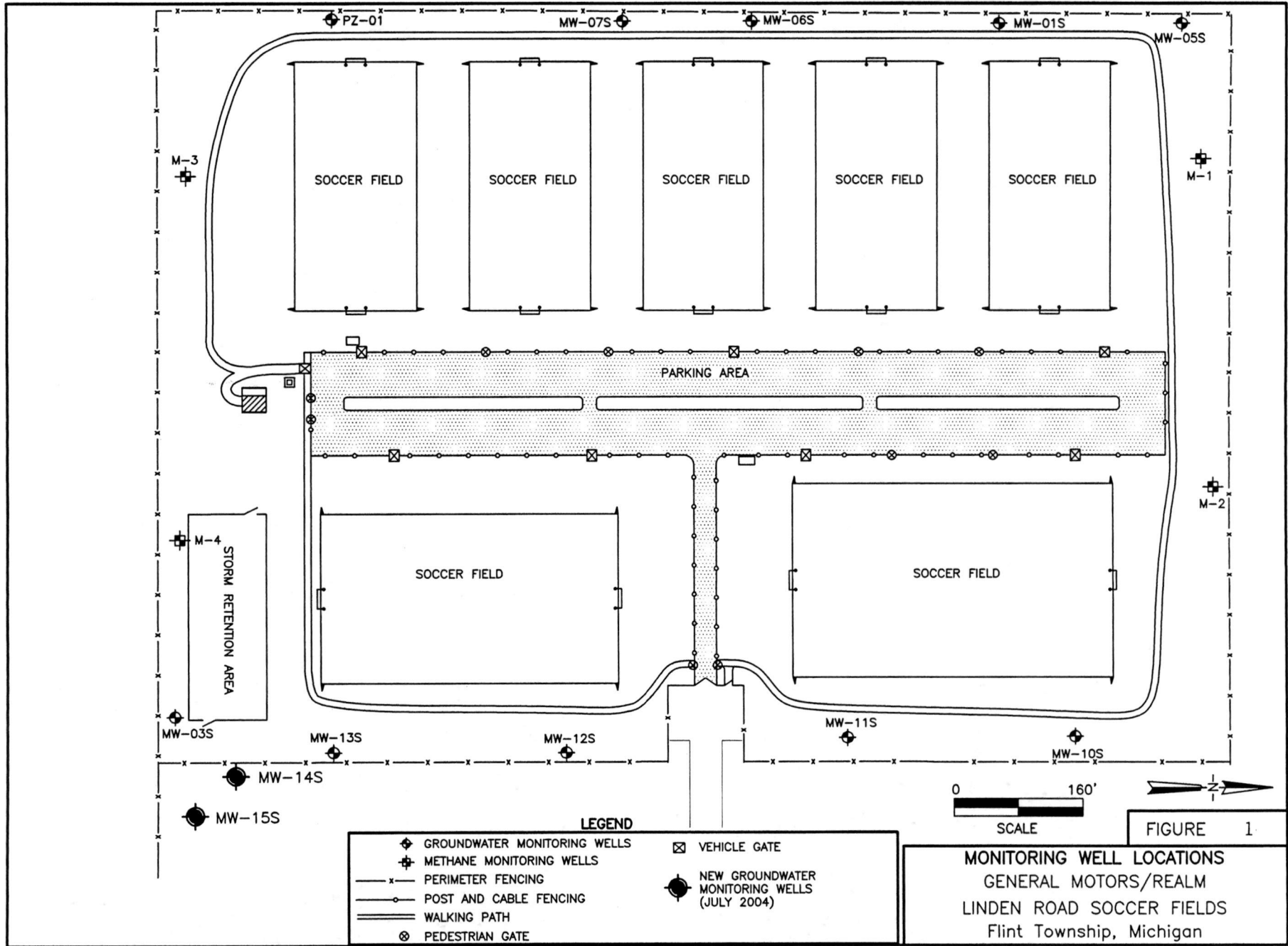


Table 1
Comparison of Detected Compounds to MDEQ Generic Drinking Water Criteria
Groundwater Sampling to Monitor Vinyl Chloride Concentrations - August 2004
Linden Road Site

| Sample Location | MW-3S | MW-3S DUP | MW-14S | MW-15S | Trip Blank | MDEQ Generic Drinking Water Criteria | |
|------------------------|-----------|-----------|-----------|-----------|------------|--------------------------------------|---------------------------|
| | | | | | | Residential | Industrial/ Commercial |
| Sample Date | 10-Aug-04 | 10-Aug-04 | 10-Aug-04 | 10-Aug-04 | 10-Aug-04 | | |
| VOCs (mg/L) | | | | | | | |
| Trichloroethene | --- | --- | 0.002 | --- | --- | 0.005 | 0.005 |
| 1,1-Dichloroethane | 0.011 | 0.011 | --- | --- | --- | 0.88 | 2.5 |
| cis-1,2-Dichloroethene | 0.013 | 0.013 | 0.031 | --- | --- | 0.07 | 0.07 |
| Vinyl chloride | 0.011 | 0.011 | 0.004 | --- | --- | 0.002 | 0.002 |

Notes:

Compound not detected above laboratory detection limit.

DUP

Shaded areas indicate concentrations exceed MDEQ Generic Drinking Water Criteria

Field quality control duplicate sample

ATTACHMENT A

Monitoring Well Construction Diagrams and Field Notes



LOG OF BORING MW-14S

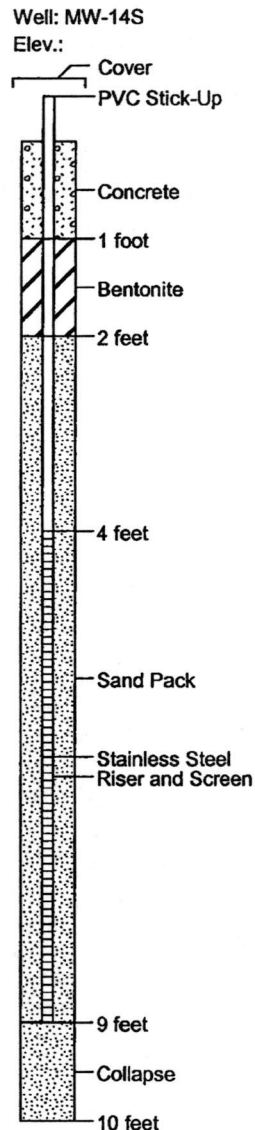
(Page 1 of 1)

General Motors
GM-Linden Road
Flint, Michigan
W.O. # 01138.079.010.0010

Location: : Flint, Michigan
Date: : 7/20/04
Drilling Method: : Direct Push/HSA
Subcontractor: : Geo Serv Drilling
Driller: : Dean Govan

Geologist: : K. Lapham
Checked by: :
Northing Coordinate: :
Easting Coordinate: :
Ground Elevation: :

| Depth in Feet | Surf. Elev. | USCS | GRAPHIC | DESCRIPTION | PID(ppm) | REMARKS |
|---------------|-------------|------|---------|---|----------|---|
| 0 | | TS | | TOPSOIL (TS), black, dry | | |
| 1 | | SP | | SAND (SP), medium, trace Gravel, loose, dry, brown, no odor | 0 | |
| 2 | | SP | | SAND (SP), medium, trace Gravel, loose, moist, brown, no odor | 0 | |
| 3 | | SP | | SAND (SP), medium, trace Gravel, loose, moist, brown, no odor | 0 | |
| 4 | | SC | | CLAYEY SAND (SC), medium to fine, loose to semi-cohesive, moist to wet, gray, no odor | 0 | |
| 5 | | SP | | SAND (SP), medium, trace Gravel, loose, wet, brownish-gray, no odor | 0 | |
| 6 | | SP | | SAND (SP), as above | 2.6 | |
| 7 | | SP | | SAND (SP), as above | 4.0 | Poor Recovery in the 5 to 10 foot sample. |
| 8 | | SP | | SAND (SP), as above | 8.6 | |
| 9 | | SP | | SAND (SP), as above | 7.5 | |
| 10 | | SP | | SAND (SP), as above | 7.8 | |
| 11 | | | | End of Boring @ 10 feet bgs. | | |



07-22-2004 10:01:38079.003 July 2004 Wells MW14S.bor

Hole Diameter: 2.125"
Sampling Method: Continuous Sampler
Drill Rig: Geoprobe 66DT
Note: Monitor well was installed with 4.25 inch augers (6.25 inch hole diameter) after completing direct push sampling.

LOG OF BORING MW-14S

(Page 1 of 1)



LOG OF BORING MW-15S

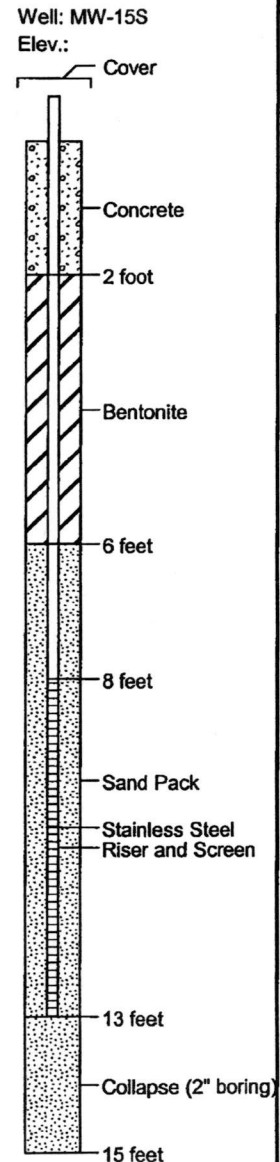
(Page 1 of 1)

General Motors
GM-Linden Road
Flint, Michigan
W.O. # 01138.079.010.0010

Location: : Flint, Michigan
Date: : 7/20/04
Drilling Method: : Direct Push/HSA
Subcontractor: : Geo Serv Drilling
Driller: : Dean Govan

Geologist: : K. Lapham
Checked by: :
Northing Coordinate: :
Easting Coordinate: :
Ground Elevation: :

| Depth in Feet | Surf. Elev. | USCS | GRAPHIC | DESCRIPTION | PID (ppm) | REMARKS |
|---------------|-------------|------|---------|---|-----------|---|
| 0 | | | | SANDY SILT (ML), trace Gravel, cohesive, grayish brown, dry, no odor | 0 | |
| 1 | | | | SANDY SILT (ML), as above | 0 | |
| 2 | | | | SANDY SILT (ML), as above | 0 | |
| 3 | | ML | | SANDY SILT (ML), as above | 0 | |
| 4 | | | | SANDY SILT (ML), as above | 0 | |
| 5 | | | | SANDY SILT (ML), as above | 0 | |
| 6 | | | | SANDY SILT (ML), as above | 0 | |
| 7 | | | | SILTY CLAY (CL), trace Gravel, firm, non-plastic, gray, dry, no odor | 0 | Poor Recovery in the 5 to 10 foot sample. |
| 8 | | | | SILTY CLAY (CL), as above | 0 | |
| 9 | | CL | | SILTY CLAY (CL), as above | 0 | |
| 10 | | | | SAND (SP), medium to fine, loose, gray, wet, no odor | 0 | |
| 11 | | SP | | SAND (SP), medium to fine, loose, gray, wet, no odor | 0 | |
| 12 | | | | SILTY CLAY (CL), trace Gravel, firm, plastic, gray, dry to moist, no odor | 0.2 | |
| 13 | | | | SILTY CLAY (CL), trace Gravel, firm, plastic, gray, dry to moist, no odor | 0 | |
| 14 | | CL | | SILTY CLAY (CL), trace Gravel, firm, plastic, gray, dry to moist, no odor | 0 | |
| 15 | | | | SILTY CLAY (CL), trace Gravel, firm, plastic, gray, dry to moist, no odor | 0 | |
| 16 | | | | End of Boring @ 10 feet bgs. | 0 | |



07-22-2004 k:\01138079.003\July 2004 Wells\MW15S.bor

Hole Diameter: 2.125"
Sampling Method: Continuous Sampler
Drill Rig: Geoprobe 66DT
Note: Monitor well was installed with 4.25 inch augers (8.25 inch hole diameter) after completing direct push sampling.

LOG OF BORING MW-15S

(Page 1 of 1)

CLIENT/SUBJECT GM/Linden Rd

W.O. NO. _____

TASK DESCRIPTION Well installation 7/20/09

TASK NO. _____

PREPARED BY KL DEPT _____ DATE _____

APPROVED BY _____

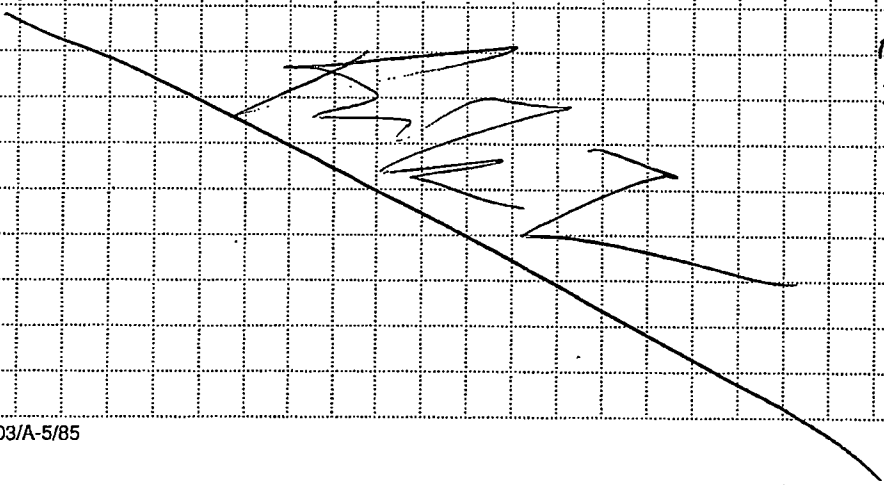
MATH CHECK BY _____ DEPT _____ DATE _____

METHOD REV. BY _____ DEPT _____ DATE _____

DEPT _____ DATE _____

855 WESTON (K. Graham) on site
900 Geo Serv on site. walk drilling locations.
925 Prep for drilling, calibrate OUM (100/100 ppm)
945 Begin probing @ MW-15S to describe lithology.
1010 Water encountered @ ~ 11' Well set @
13' bgs. Lithology on boring logs.
1100 MW-15S installed @ 13' bgs. w/ 2' of stick-up.
Geo Serv to decom augers.
1120 Decom complete, move to MW-14S.
1135 Water encountered @ ~ 5' bgs.
1145 MW-14S installed @ 9' bgs. Geo Serv to
decom.
1205 Begin development @ MW-15S w/ Barker. Water
level is 12.75' below TOC. Silty gray water
water ~ 2 gallons purged before well is dry.
1235 Begin to purge MW-14S for development
w/ Barker. Water level is 4.66' bgs. Purge ~
5 gallons silty brown water @ MW-14S before
well is dry.
1310 Purge additional 1.5 gallons @ MW-15S
after recharge.
1330 Purge additional 2.0 gallons @ MW-14S after
recharge. Wells labeled and locked.
1348 WESTON/Geo Serv off site.

* Weather: clear to
partly cloudy, 85°F
breeze.





CLIENT/SUBJECT GM - Linden Rd W.O. NO. _____

TASK DESCRIPTION Groundwater Sampling TASK NO. _____

PREPARED BY KL DEPT _____ DATE _____

| |
|-----------------------|
| APPROVED BY |
| _____ |
| DEPT _____ DATE _____ |

MATH CHECK BY _____ DEPT _____ DATE _____

METHOD REV. BY _____ DEPT _____ DATE _____

8/10/09
 Partly Cloudy / 75° / Breeze

1030 WESTON (K. Lephart) onsite. Calibrate OVM B
 YSI in normal range.

1115 Locate MW-3S. Not located on site map correctly
 and tall weeds.

1130 Complete venting and air monitoring at MW-03S,
 MW-14S, MW-15S, 0.0 at casing / BZ @ all wells.
 Begin sampling @ MW-03S.

1200 Collect sample @ MW-03S and duplicate.

1245 Collect sample @ MW-14S

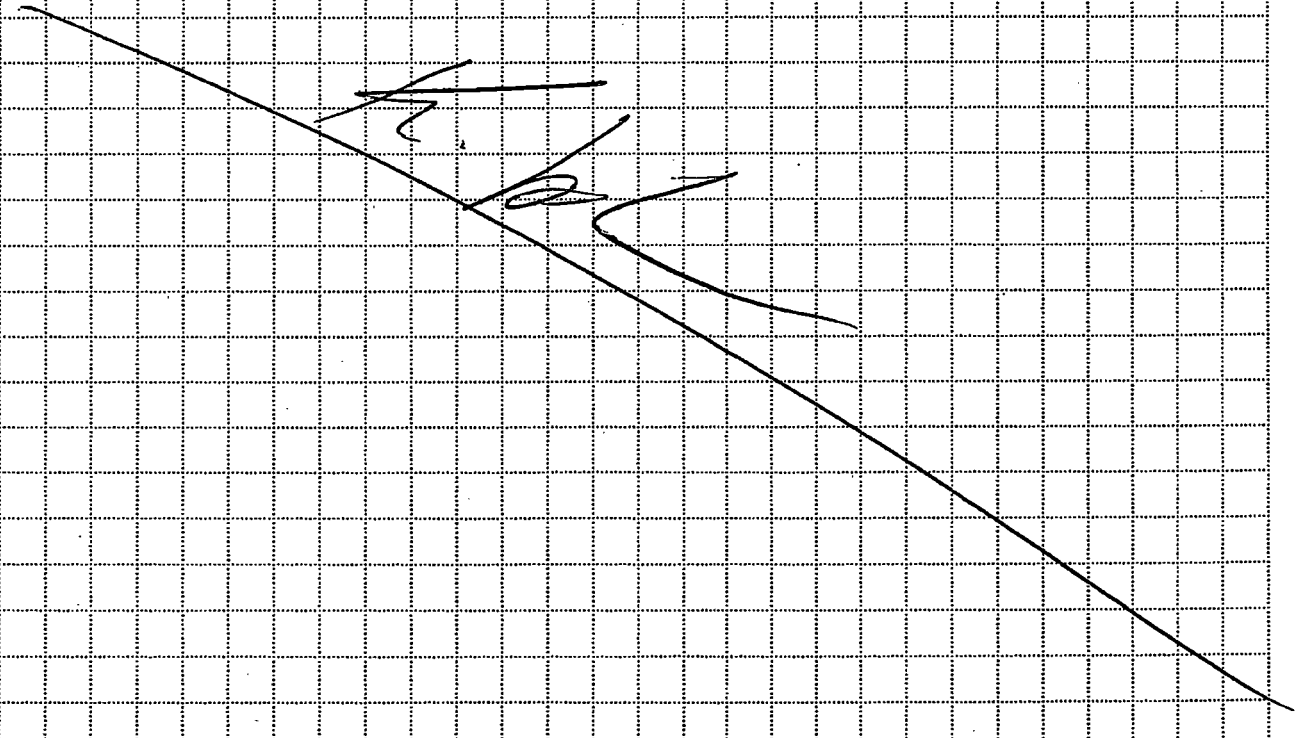
1350 Collect sample @ MW-15S

1410 Lunch

1440 Leave site to drop off samples @ Merit Lab

1600 Drop off samples @ Merit Lab

1630 Ship equipment @ Fed Ex



PROJECT: Linden Rd

TEMPORARY WELL/MONITOR WELL LOW FLOW SAMPLING FIELD DATA SHEET

8/10/04

PROJECT NUMBER: _____

| Date | Well ID | Sample Time | Sample ID | Initial Water Level | Time (minutes) | Purge Water Level | pH | Conductivity | Temperature | DO | Redox | Pump Rate (ml/min) | Comments |
|--------------|---------|-------------|---------------------|---------------------|----------------|-------------------|------|--------------|-------------|---------------------------------|-------|--------------------|--------------------|
| 8/10/04 | MW-035 | 1200 | MW-035 \$ DWP | 4.18 | 1126 | 0.1 | 6.35 | 0.9169 | 16.08 | | | 20.5 gpd | color: clear |
| | | | | 4.21 | 1131 | 0.4 | 6.38 | 0.9161 | 16.05 | sheen: yes (no) | | | |
| | | | | 4.22 | 1134 | 0.7 | 6.43 | 0.953 | 15.96 | odor: yes (no) | | | |
| | | | | 4.23 | 1137 | 1.0 | 6.46 | 0.951 | 15.91 | Sample Method: Peristaltic Pump | | | |
| | | | | 4.25 | 1140 | 1.3 | 6.48 | 0.948 | 15.97 | Keck Pump | | | |
| | | | | 4.25 | 1143 | 1.6 | 6.50 | 0.946 | 16.01 | Grundfos Pump | | | |
| | | | | 4.28 | 1146 | 1.9 | 6.51 | 0.941 | 16.02 | Other: | | | |
| | | | | 4.25 | 1149 | 2.2 | 6.53 | 0.939 | 16.02 | | | | |
| | | | | 4.24 | 1152 | 2.5 | 6.54 | 0.938 | 16.02 | Sampling Comments: | | | |
| | | | | Samplers: KL | | | | | | | | | |
| 8/10/04 | MW-145 | 1245 | MW-145 | 4.53 | 1218 | 0.1 | 6.85 | 1.029 | 19.58 | | | 200 | color: clear |
| | | | | 5.21 | 1221 | 0.2 | 6.80 | 1.040 | 19.14 | sheen: yes (no) | | | |
| | | | | 5.43 | 1221 | 0.3 | 6.80 | 1.048 | 18.80 | odor: yes (no) | | | |
| | | | | 5.05 | 1227 | 0.4 | 6.76 | 1.038 | 18.40 | Sample Method: Peristaltic Pump | | | |
| | | | | 5.75 | 1230 | 0.5 | 6.73 | 1.036 | 18.30 | Keck Pump | | | |
| | | | | 5.08 | 1233 | 0.7 | 6.79 | 1.035 | 18.38 | Grundfos Pump | | | |
| | | | | 5.94 | 1236 | 0.9 | 6.78 | 1.033 | 18.47 | Other: | | | |
| | | | | 6.00 | 1239 | 1.1 | 6.78 | 1.032 | 18.49 | | | | |
| | | | | 6.03 | 1242 | 1.3 | 6.77 | 1.031 | 18.45 | Sampling Comments: | | | |
| | | | | Samplers: KL | | | | | | | | | |
| 8/10/04 | MW-155 | 1350 | MW-155 | 10.13 | 1310 | 0.1 | 7.15 | 0.722 | 17.61 | | | 100 | color: brown/clear |
| | | | | 10.39 | 1313 | 0.2 | 7.05 | 0.713 | 17.53 | sheen: yes (no) | | | |
| | | | | 10.44 | 1316 | 0.3 | 7.00 | 0.709 | 16.88 | odor: yes (no) | | | |
| | | | | 10.101 | 1319 | 0.4 | 6.99 | 0.709 | 16.32 | Sample Method: Peristaltic Pump | | | |
| | | | | 10.06 | 1322 | 0.5 | 6.99 | 0.702 | 16.04 | Keck Pump | | | |
| | | | | 10.08 | 1325 | 0.6 | 6.98 | 0.702 | 15.98 | Grundfos Pump | | | |
| | | | | 10.53 | 1328 | 0.7 | 6.98 | 0.702 | 15.98 | Other: | | | |
| | | | | 10.59 | 1331 | 0.8 | 6.98 | 0.704 | 15.91 | | | | |
| | | | | 10.93 | 1334 | 0.9 | 6.98 | 0.703 | 15.87 | Sampling Comments: | | | |
| | | | | 10.94 | 1337 | 1.0 | 6.98 | 0.703 | 15.85 | | | | |
| Samplers: KL | | | | | | | | | | | | | |

ATTACHMENT B

Analytical Laboratory Reports and Sample Chain of Custody

**GM
Linden Road
18314**

General Comment:

All samples were analyzed within the required holding times.

Volatile Organics:

| Lab ID (18314) | Sample ID | Sample Date | Analysis Date |
|----------------|------------|-------------|---------------|
| 01 | MW-03S | 8/10/04 | 8/18/04 |
| 02 | MW-03S-Dup | 8/10/04 | 8/18/04 |
| 03 | MW-14S | 8/10/04 | 8/18/04 |
| 04 | MW-15S | 8/10/04 | 8/18/04 |
| 05 | Trip Blank | 8/10/04 | 8/18/04 |

1. Method Blank:

One method blank was associated with the samples. The method blank was free of contamination.

2. Surrogate Recovery

All surrogate recoveries associated with this sample set were within required limits.

3. Matrix Spike/Matrix Spike Duplicate

The MS/MSD results were batch results and not from a sample in this sample set. No correlation applies. No qualifications are required.

4. Instrument Performance Check

All instrument performance check results are acceptable.

5. Internal Standards

All internal standard recoveries were within the control limits (50 to 200).

6. Calibration Check Compounds

The calibration check compounds indicated acceptable results.

7. Laboratory Control Sample

All LCS recoveries were within required control limits.

8. Trip Blank

Sample 05 was a trip blank. The blank was free of contamination.

9. Field Duplicates

Samples 1 and 2 are field duplicates. Three compounds were detected in both samples at the same or similar concentrations. The data shows good overall correlation. No qualifications are required.

Data Reviewed by: T. Balla

Date: 9/22/04



Analytical Laboratory Report

Report ID: S18314.01(01)
Generated on 09/02/2004

Report to

Attention: Mr. Babusukumar
Weston Solutions, Inc.
750 East Banker Court
Vernon Hills, IL 60061

Phone: 847-918-4000 FAX: 847-918-4055

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S18314.01-S18314.05
Project: GM - Linden Rd.
Submitted Date/Time: 08/10/2004 15:00
Sampled by: Kirk Lapham
P.O. #:

Report Notes

Results relate only to items tested.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RDL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Lab Sample ID: S18314.01
 Sample Tag: MW-03S
 Collected Date/Time: 08/10/2004 12:00
 Matrix: Groundwater
 COC Reference: 021749

Sample Containers

| # | Type | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---|-------------|-----------------|---------------|-------------------|---------------|
| 2 | 40 ml Glass | HCL | Yes | 4 | 3 |

| Analysis | Results | Units | RDL | Method | Run Date/Time | Analyst | CAS # | Flags |
|---------------------------|--------------|-------|-----|--------|----------------|---------|------------|-------|
| Organics | | | | | | | | |
| Volatile Organics | | | | | | | | |
| Benzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 71-43-2 | |
| Bromodichloromethane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 75-27-4 | |
| Bromoform | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 75-25-2 | |
| Bromomethane | Not detected | ug/L | 5 | 8260B | 08/18/04 02:16 | JGH | 74-83-9 | |
| n-Butylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 104-51-8 | |
| sec-Butylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 135-98-8 | |
| tert-Butylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 98-06-6 | |
| Carbon tetrachloride | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 56-23-5 | |
| Chlorobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 108-90-7 | |
| Chloroethane | Not detected | ug/L | 5 | 8260B | 08/18/04 02:16 | JGH | 75-00-3 | |
| Chloroform | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 67-66-3 | |
| Chloromethane | Not detected | ug/L | 5 | 8260B | 08/18/04 02:16 | JGH | 74-87-3 | |
| Dibromochloromethane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 124-48-1 | |
| 1,2-Dichlorobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 95-50-1 | |
| 1,3-Dichlorobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 541-73-1 | |
| 1,4-Dichlorobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 106-46-7 | |
| 1,1-Dichloroethane | 11 | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 75-34-3 | |
| 1,2-Dichloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 107-06-2 | |
| 1,1-Dichloroethene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 75-35-4 | |
| cis-1,2-Dichloroethene | 13 | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 156-59-2 | |
| trans-1,2-Dichloroethene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 156-60-5 | |
| 1,2-Dichloropropane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 78-87-5 | |
| cis-1,3-Dichloropropene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 10061-01-5 | |
| trans-1,3-Dichloropropene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 10061-02-6 | |
| Ethylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 100-41-4 | |
| Isopropylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 98-82-8 | |
| p-Isopropyltoluene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 99-87-6 | |
| Methylene chloride | Not detected | ug/L | 5 | 8260B | 08/18/04 02:16 | JGH | 75-09-2 | |
| Naphthalene | Not detected | ug/L | 5 | 8260B | 08/18/04 02:16 | JGH | 91-20-3 | |
| n-Propylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 103-65-1 | |
| Styrene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 79-34-5 | |
| Tetrachloroethene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 127-18-4 | |
| Toluene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 108-88-3 | |
| 1,1,1-Trichloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 71-55-6 | |
| 1,1,2-Trichloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 79-00-5 | |
| Trichloroethene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 79-01-6 | |
| 1,2,4-Trimethylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 95-63-6 | |
| 1,3,5-Trimethylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 108-67-8 | |
| Vinyl chloride | 11 | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 75-01-4 | |
| m-Xylene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 95-47-6 | |
| p,m-Xylene | Not detected | ug/L | 2 | 8260B | 08/18/04 02:16 | JGH | 106-42-3 | |



Analytical Laboratory Report

Lab Sample ID: S18314.01 (continued)

Sample Tag: MW-03S

| Analysis | Results | Units | RDL | Method | Run Date/Time | Analyst | CAS # | Flags |
|--------------------------------------|--------------|-------|-----|--------|----------------|---------|-----------|-------|
| Organics (continued) | | | | | | | | |
| Volatile Organics (continued) | | | | | | | | |
| Acetone | Not detected | ug/L | 30 | 8260B | 08/18/04 02:16 | JGH | 67-64-1 | |
| 2-Butanone (MEK) | Not detected | ug/L | 30 | 8260B | 08/18/04 02:16 | JGH | 78-93-3 | |
| Carbon disulfide | Not detected | ug/L | 5 | 8260B | 08/18/04 02:16 | JGH | 75-15-0 | |
| 2-Hexanone | Not detected | ug/L | 50 | 8260B | 08/18/04 02:16 | JGH | 591-78-6 | |
| 4-Methyl-2-pentanone (MIBK) | Not detected | ug/L | 50 | 8260B | 08/18/04 02:16 | JGH | 108-10-1 | |
| tert-Methyl butyl ether (MTBE) | Not detected | ug/L | 5 | 8260B | 08/18/04 02:16 | JGH | 1634-04-4 | |
| 1,1,1,2-Tetrachloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 630-20-6 | |
| 1,2,3-Trichlorobenzene | Not detected | ug/L | 5 | 8260B | 08/18/04 02:16 | JGH | 87-61-6 | |
| 1,2,3-Trichloropropane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 96-18-4 | |
| 1,2,4-Trichlorobenzene | Not detected | ug/L | 5 | 8260B | 08/18/04 02:16 | JGH | 120-82-1 | |
| 1,2-Dibromo-3-chloropropane | Not detected | ug/L | 5 | 8260B | 08/18/04 02:16 | JGH | 96-12-8 | |
| 1,2-Dibromoethane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 106-93-4 | |
| 1,4-Dichloro-2-butene | Not detected | ug/L | 5 | 8260B | 08/18/04 02:16 | JGH | | |
| 2-Methylnaphthalene | Not detected | ug/L | 5 | 8260B | 08/18/04 02:16 | JGH | 91-57-6 | |
| Acrylonitrile | Not detected | ug/L | 5 | 8260B | 08/18/04 02:16 | JGH | 107-13-1 | |
| Bromobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 108-86-1 | |
| Bromochloromethane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 74-97-5 | |
| Dibromomethane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 74-95-3 | |
| Dichlorodifluoromethane | Not detected | ug/L | 5 | 8260B | 08/18/04 02:16 | JGH | 75-71-8 | |
| Diethyl ether | Not detected | ug/L | 5 | 8260B | 08/18/04 02:16 | JGH | 60-29-7 | |
| Hexachloroethane | Not detected | ug/L | 5 | 8260B | 08/18/04 02:16 | JGH | 67-72-1 | |
| Methyl iodide | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 74-88-4 | |
| Tetrahydrofuran | Not detected | ug/L | 100 | 8260B | 08/18/04 02:16 | JGH | 109-99-9 | |
| Trichlorofluoromethane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:16 | JGH | 75-69-4 | |



Analytical Laboratory Report

Lab Sample ID: S18314.02
 Sample Tag: MW-03S DUP
 Collected Date/Time: 08/10/2004 12:00
 Matrix: Groundwater
 COC Reference: 021749

Sample Containers

| ID | Type | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|----|-------------|-----------------|---------------|-------------------|---------------|
| 2 | 40 ml Glass | HCL | Yes | 4 | 3 |

| Analysis | Results | Units | RDL | Method | Run Date/Time | Analyst | CAS # | Flags |
|---------------------------|--------------|-------|-----|--------|----------------|---------|------------|-------|
| Organics | | | | | | | | |
| Volatile Organics | | | | | | | | |
| Benzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 71-43-2 | |
| Bromodichloromethane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 75-27-4 | |
| Bromoform | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 75-25-2 | |
| Bromomethane | Not detected | ug/L | 5 | 8260B | 08/18/04 02:50 | JGH | 74-83-9 | |
| n-Butylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 104-51-8 | |
| sec-Butylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 135-98-8 | |
| tert-Butylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 98-06-6 | |
| Carbon tetrachloride | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 56-23-5 | |
| Chlorobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 108-90-7 | |
| Chloroethane | Not detected | ug/L | 5 | 8260B | 08/18/04 02:50 | JGH | 75-00-3 | |
| Chloroform | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 67-66-3 | |
| Chloromethane | Not detected | ug/L | 5 | 8260B | 08/18/04 02:50 | JGH | 74-87-3 | |
| Dibromochloromethane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 124-48-1 | |
| 1,2-Dichlorobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 95-50-1 | |
| 1,3-Dichlorobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 541-73-1 | |
| 1,4-Dichlorobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 106-46-7 | |
| 1,1-Dichloroethane | 11 | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 75-34-3 | |
| 1,2-Dichloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 107-06-2 | |
| 1,1-Dichloroethene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 75-35-4 | |
| cis-1,2-Dichloroethene | 13 | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 156-59-2 | |
| trans-1,2-Dichloroethene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 156-60-5 | |
| 1,2-Dichloropropane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 78-87-5 | |
| cis-1,3-Dichloropropene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 10061-01-5 | |
| trans-1,3-Dichloropropene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 10061-02-6 | |
| Ethylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 100-41-4 | |
| Isopropylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 98-82-8 | |
| Isopropyltoluene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 99-87-6 | |
| 1,1,1-Trichloroethane | Not detected | ug/L | 5 | 8260B | 08/18/04 02:50 | JGH | 75-09-2 | |
| Naphthalene | Not detected | ug/L | 5 | 8260B | 08/18/04 02:50 | JGH | 91-20-3 | |
| n-Propylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 103-65-1 | |
| Styrene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 79-34-5 | |
| Tetrachloroethene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 127-18-4 | |
| Toluene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 108-88-3 | |
| 1,1,1-Trichloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 71-55-6 | |
| 1,1,2-Trichloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 79-00-5 | |
| 1,1,2-Trichloroethene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 79-01-6 | |
| 1,2,4-Trimethylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 95-63-6 | |
| 1,3,5-Trimethylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 108-67-8 | |
| Vinyl chloride | 11 | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 75-01-4 | |
| p-Xylene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 95-47-6 | |
| m-Xylene | Not detected | ug/L | 2 | 8260B | 08/18/04 02:50 | JGH | 106-42-3 | |



Analytical Laboratory Report

Lab Sample ID: S18314.02 (continued)

Sample Tag: MW-03S DUP

| Analysis | Results | Units | RDL | Method | Run Date/Time | Analyst | CAS # | Flags |
|--------------------------------------|--------------|-------|-----|--------|----------------|---------|-----------|-------|
| Organics (continued) | | | | | | | | |
| Volatile Organics (continued) | | | | | | | | |
| Acetone | Not detected | ug/L | 30 | 8260B | 08/18/04 02:50 | JGH | 67-64-1 | |
| 2-Butanone (MEK) | Not detected | ug/L | 30 | 8260B | 08/18/04 02:50 | JGH | 78-93-3 | |
| Carbon disulfide | Not detected | ug/L | 5 | 8260B | 08/18/04 02:50 | JGH | 75-15-0 | |
| 2-Hexanone | Not detected | ug/L | 50 | 8260B | 08/18/04 02:50 | JGH | 591-78-6 | |
| 4-Methyl-2-pentanone (MIBK) | Not detected | ug/L | 50 | 8260B | 08/18/04 02:50 | JGH | 108-10-1 | |
| tert-Methyl butyl ether (MTBE) | Not detected | ug/L | 5 | 8260B | 08/18/04 02:50 | JGH | 1634-04-4 | |
| 1,1,1,2-Tetrachloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 630-20-6 | |
| 1,2,3-Trichlorobenzene | Not detected | ug/L | 5 | 8260B | 08/18/04 02:50 | JGH | 87-61-6 | |
| 1,2,3-Trichloropropane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 96-18-4 | |
| 1,2,4-Trichlorobenzene | Not detected | ug/L | 5 | 8260B | 08/18/04 02:50 | JGH | 120-82-1 | |
| 1,2-Dibromo-3-chloropropane | Not detected | ug/L | 5 | 8260B | 08/18/04 02:50 | JGH | 96-12-8 | |
| 1,2-Dibromoethane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 106-93-4 | |
| 1,4-Dichloro-2-butene | Not detected | ug/L | 5 | 8260B | 08/18/04 02:50 | JGH | | |
| 2-Methylnaphthalene | Not detected | ug/L | 5 | 8260B | 08/18/04 02:50 | JGH | 91-57-6 | |
| Acrylonitrile | Not detected | ug/L | 5 | 8260B | 08/18/04 02:50 | JGH | 107-13-1 | |
| Bromobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 108-86-1 | |
| Bromochloromethane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 74-97-5 | |
| Dibromomethane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 74-95-3 | |
| Dichlorodifluoromethane | Not detected | ug/L | 5 | 8260B | 08/18/04 02:50 | JGH | 75-71-8 | |
| Diethyl ether | Not detected | ug/L | 5 | 8260B | 08/18/04 02:50 | JGH | 60-29-7 | |
| Hexachloroethane | Not detected | ug/L | 5 | 8260B | 08/18/04 02:50 | JGH | 67-72-1 | |
| Methyl iodide | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 74-88-4 | |
| Tetrahydrofuran | Not detected | ug/L | 100 | 8260B | 08/18/04 02:50 | JGH | 109-99-9 | |
| Trichlorofluoromethane | Not detected | ug/L | 1 | 8260B | 08/18/04 02:50 | JGH | 75-69-4 | |



Analytical Laboratory Report

Sample ID: S18314.03
 Sample Tag: MW-14S
 Collected Date/Time: 08/10/2004 12:45
 Matrix: Groundwater
 LOC Reference: 021749

Sample Containers

| Type | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---------------|-----------------|---------------|-------------------|---------------|
| 2 40 ml Glass | HCL | Yes | 4 | 3 |

| Analysis | Results | Units | RDL | Method | Run Date/Time | Analyst | CAS # | Flags |
|-----------------------------|--------------|-------|-----|--------|----------------|---------|------------|-------|
| Organics | | | | | | | | |
| Volatile Organics | | | | | | | | |
| Benzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 71-43-2 | |
| Bromodichloromethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 75-27-4 | |
| Bromoform | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 75-25-2 | |
| Bromomethane | Not detected | ug/L | 5 | 8260B | 08/18/04 03:24 | JGH | 74-83-9 | |
| Butylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 104-51-8 | |
| sec-Butylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 135-98-8 | |
| t-Butylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 98-06-6 | |
| Carbon tetrachloride | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 56-23-5 | |
| Chlorobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 108-90-7 | |
| Chloroethane | Not detected | ug/L | 5 | 8260B | 08/18/04 03:24 | JGH | 75-00-3 | |
| Chloroform | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 67-66-3 | |
| Chloromethane | Not detected | ug/L | 5 | 8260B | 08/18/04 03:24 | JGH | 74-87-3 | |
| Dibromochloromethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 124-48-1 | |
| 1,2-Dichlorobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 95-50-1 | |
| 1,3-Dichlorobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 541-73-1 | |
| 1,4-Dichlorobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 106-46-7 | |
| 1,1-Dichloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 75-34-3 | |
| 1,2-Dichloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 107-06-2 | |
| 1,1,1-Dichloroethene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 75-35-4 | |
| cis-1,2-Dichloroethene | 31 | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 156-59-2 | |
| trans-1,2-Dichloroethene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 156-60-5 | |
| 1,1-Dichloropropane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 78-87-5 | |
| cis-1,3-Dichloropropene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 10061-01-5 | |
| trans-1,3-Dichloropropene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 10061-02-6 | |
| Ethylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 100-41-4 | |
| Isopropylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 98-82-8 | |
| n-Isopropyltoluene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 99-87-6 | |
| ethylene chloride | Not detected | ug/L | 5 | 8260B | 08/18/04 03:24 | JGH | 75-09-2 | |
| o-phthalene | Not detected | ug/L | 5 | 8260B | 08/18/04 03:24 | JGH | 91-20-3 | |
| n-Propylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 103-65-1 | |
| Styrene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 100-42-5 | |
| 1,1,1,2,2-Tetrachloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 79-34-5 | |
| Tetrachloroethene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 127-18-4 | |
| Toluene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 108-88-3 | |
| 1,1,1-Trichloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 71-55-6 | |
| 1,1,2-Trichloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 79-00-5 | |
| Trichloroethene | 2 | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 79-01-6 | |
| 1,2,4-Trimethylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 95-63-6 | |
| 1,3,5-Trimethylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 108-67-8 | |
| Vinyl chloride | 4 | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 75-01-4 | |
| o-Xylene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 95-47-6 | |
| m-Xylene | Not detected | ug/L | 2 | 8260B | 08/18/04 03:24 | JGH | 106-42-3 | |



Analytical Laboratory Report

Lab Sample ID: S18314.03 (continued)

Sample Tag: MW-14S

| Analysis | Results | Units | RDL | Method | Run Date/Time | Analyst | CAS # | Flags |
|--------------------------------------|--------------|-------|-----|--------|----------------|---------|-----------|-------|
| Organics (continued) | | | | | | | | |
| Volatile Organics (continued) | | | | | | | | |
| Acetone | Not detected | ug/L | 30 | 8260B | 08/18/04 03:24 | JGH | 67-64-1 | |
| 2-Butanone (MEK) | Not detected | ug/L | 30 | 8260B | 08/18/04 03:24 | JGH | 78-93-3 | |
| Carbon disulfide | Not detected | ug/L | 5 | 8260B | 08/18/04 03:24 | JGH | 75-15-0 | |
| 2-Hexanone | Not detected | ug/L | 50 | 8260B | 08/18/04 03:24 | JGH | 591-78-6 | |
| 4-Methyl-2-pentanone (MIBK) | Not detected | ug/L | 50 | 8260B | 08/18/04 03:24 | JGH | 108-10-1 | |
| tert-Methyl butyl ether (MTBE) | Not detected | ug/L | 5 | 8260B | 08/18/04 03:24 | JGH | 1634-04-4 | |
| 1,1,1,2-Tetrachloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 630-20-6 | |
| 1,2,3-Trichlorobenzene | Not detected | ug/L | 5 | 8260B | 08/18/04 03:24 | JGH | 87-61-6 | |
| 1,2,3-Trichloropropane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 96-18-4 | |
| 1,2,4-Trichlorobenzene | Not detected | ug/L | 5 | 8260B | 08/18/04 03:24 | JGH | 120-82-1 | |
| 1,2-Dibromo-3-chloropropane | Not detected | ug/L | 5 | 8260B | 08/18/04 03:24 | JGH | 96-12-8 | |
| 1,2-Dibromoethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 106-93-4 | |
| 1,4-Dichloro-2-butene | Not detected | ug/L | 5 | 8260B | 08/18/04 03:24 | JGH | | |
| 2-Methylnaphthalene | Not detected | ug/L | 5 | 8260B | 08/18/04 03:24 | JGH | 91-57-6 | |
| Acrylonitrile | Not detected | ug/L | 5 | 8260B | 08/18/04 03:24 | JGH | 107-13-1 | |
| Bromobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 108-86-1 | |
| Bromochloromethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 74-97-5 | |
| Dibromomethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 74-95-3 | |
| Dichlorodifluoromethane | Not detected | ug/L | 5 | 8260B | 08/18/04 03:24 | JGH | 75-71-8 | |
| Diethyl ether | Not detected | ug/L | 5 | 8260B | 08/18/04 03:24 | JGH | 60-29-7 | |
| Hexachloroethane | Not detected | ug/L | 5 | 8260B | 08/18/04 03:24 | JGH | 67-72-1 | |
| Methyl iodide | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 74-88-4 | |
| Tetrahydrofuran | Not detected | ug/L | 100 | 8260B | 08/18/04 03:24 | JGH | 109-99-9 | |
| Trichlorofluoromethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:24 | JGH | 75-69-4 | |



Analytical Laboratory Report

Sample ID: S18314.04
 Sample Tag: MW-15S
 Collected Date/Time: 08/10/2004 13:50
 Matrix: Groundwater
 COC Reference: 021749

Sample Containers

| Type | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---------------|-----------------|---------------|-------------------|---------------|
| 2 40 ml Glass | HCL | Yes | 4 | 3 |

| Analysis | Results | Units | RDL | Method | Run Date/Time | Analyst | CAS # | Flags |
|---------------------------|--------------|-------|-----|--------|----------------|---------|------------|-------|
| Organics | | | | | | | | |
| Volatile Organics | | | | | | | | |
| Benzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 71-43-2 | |
| Bromodichloromethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 75-27-4 | |
| Bromoform | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 75-25-2 | |
| Bromomethane | Not detected | ug/L | 5 | 8260B | 08/18/04 03:58 | JGH | 74-83-9 | |
| n-Butylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 104-51-8 | |
| sec-Butylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 135-98-8 | |
| tert-Butylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 98-06-6 | |
| Carbon tetrachloride | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 56-23-5 | |
| Chlorobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 108-90-7 | |
| Chloroethane | Not detected | ug/L | 5 | 8260B | 08/18/04 03:58 | JGH | 75-00-3 | |
| Chloroform | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 67-66-3 | |
| Chloromethane | Not detected | ug/L | 5 | 8260B | 08/18/04 03:58 | JGH | 74-87-3 | |
| Dibromochloromethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 124-48-1 | |
| 1,2-Dichlorobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 95-50-1 | |
| 1,3-Dichlorobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 541-73-1 | |
| 1,4-Dichlorobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 106-46-7 | |
| 1,1-Dichloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 75-34-3 | |
| 1,2-Dichloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 107-06-2 | |
| 1,1,1-Dichloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 75-35-4 | |
| cis-1,2-Dichloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 156-59-2 | |
| trans-1,2-Dichloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 156-60-5 | |
| 1,2-Dichloropropane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 78-87-5 | |
| cis-1,3-Dichloropropene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 10061-01-5 | |
| trans-1,3-Dichloropropene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 10061-02-6 | |
| Toluene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 100-41-4 | |
| Isopropylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 98-82-8 | |
| Isopropyltoluene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 99-87-6 | |
| Ethylene chloride | Not detected | ug/L | 5 | 8260B | 08/18/04 03:58 | JGH | 75-09-2 | |
| Naphthalene | Not detected | ug/L | 5 | 8260B | 08/18/04 03:58 | JGH | 91-20-3 | |
| n-Propylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 103-65-1 | |
| Styrene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 79-34-5 | |
| Tetrachloroethene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 127-18-4 | |
| Toluene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 108-88-3 | |
| 1,1,1-Trichloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 71-55-6 | |
| 1,1,2-Trichloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 79-00-5 | |
| Trichloroethene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 79-01-6 | |
| 1,2,4-Trimethylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 95-63-6 | |
| 1,3,5-Trimethylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 108-67-8 | |
| Vinyl chloride | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 75-01-4 | |
| Xylene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 95-47-6 | |
| p,m-Xylene | Not detected | ug/L | 2 | 8260B | 08/18/04 03:58 | JGH | 106-42-3 | |



Analytical Laboratory Report

Lab Sample ID: S18314.04 (continued)

Sample Tag: MW-15S

| Analysis | Results | Units | RDL | Method | Run Date/Time | Analyst | CAS # | Flags |
|--------------------------------------|--------------|-------|-----|--------|----------------|---------|-----------|-------|
| Organics (continued) | | | | | | | | |
| Volatile Organics (continued) | | | | | | | | |
| Acetone | Not detected | ug/L | 30 | 8260B | 08/18/04 03:58 | JGH | 67-64-1 | |
| 2-Butanone (MEK) | Not detected | ug/L | 30 | 8260B | 08/18/04 03:58 | JGH | 78-93-3 | |
| Carbon disulfide | Not detected | ug/L | 5 | 8260B | 08/18/04 03:58 | JGH | 75-15-0 | |
| 2-Hexanone | Not detected | ug/L | 50 | 8260B | 08/18/04 03:58 | JGH | 591-78-6 | |
| 4-Methyl-2-pentanone (MIBK) | Not detected | ug/L | 50 | 8260B | 08/18/04 03:58 | JGH | 108-10-1 | |
| tert-Methyl butyl ether (MTBE) | Not detected | ug/L | 5 | 8260B | 08/18/04 03:58 | JGH | 1634-04-4 | |
| 1,1,1,2-Tetrachloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 630-20-6 | |
| 1,2,3-Trichlorobenzene | Not detected | ug/L | 5 | 8260B | 08/18/04 03:58 | JGH | 87-61-6 | |
| 1,2,3-Trichloropropane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 96-18-4 | |
| 1,2,4-Trichlorobenzene | Not detected | ug/L | 5 | 8260B | 08/18/04 03:58 | JGH | 120-82-1 | |
| 1,2-Dibromo-3-chloropropane | Not detected | ug/L | 5 | 8260B | 08/18/04 03:58 | JGH | 96-12-8 | |
| 1,2-Dibromoethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 106-93-4 | |
| 1,4-Dichloro-2-butene | Not detected | ug/L | 5 | 8260B | 08/18/04 03:58 | JGH | | |
| 2-Methylnaphthalene | Not detected | ug/L | 5 | 8260B | 08/18/04 03:58 | JGH | 91-57-6 | |
| Acrylonitrile | Not detected | ug/L | 5 | 8260B | 08/18/04 03:58 | JGH | 107-13-1 | |
| Bromobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 108-86-1 | |
| Bromochloromethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 74-97-5 | |
| Dibromomethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 74-95-3 | |
| Dichlorodifluoromethane | Not detected | ug/L | 5 | 8260B | 08/18/04 03:58 | JGH | 75-71-8 | |
| Diethyl ether | Not detected | ug/L | 5 | 8260B | 08/18/04 03:58 | JGH | 60-29-7 | |
| Hexachloroethane | Not detected | ug/L | 5 | 8260B | 08/18/04 03:58 | JGH | 67-72-1 | |
| Methyl iodide | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 74-88-4 | |
| Tetrahydrofuran | Not detected | ug/L | 100 | 8260B | 08/18/04 03:58 | JGH | 109-99-9 | |
| Trichlorofluoromethane | Not detected | ug/L | 1 | 8260B | 08/18/04 03:58 | JGH | 75-69-4 | |



Analytical Laboratory Report

Lab Sample ID: S18314.05
 Sample Tag: Trip Blank
 Collected Date/Time: 08/10/2004 :
 Matrix: Groundwater
 COC Reference: 021749

Sample Containers

| Type | Preservative(s) | Refrigerated? | Arrival Temp. (C) | Thermometer # |
|---------------|-----------------|---------------|-------------------|---------------|
| 1 40 ml Glass | HCL | Yes | 4 | 3 |

| Analysis | Results | Units | RDL | Method | Run Date/Time | Analyst | CAS # | Flags |
|---------------------------|--------------|-------|-----|--------|----------------|---------|------------|-------|
| Organics | | | | | | | | |
| Volatile Organics | | | | | | | | |
| Benzene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 71-43-2 | |
| Bromodichloromethane | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 75-27-4 | |
| Bromoform | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 75-25-2 | |
| Bromomethane | Not detected | ug/L | 5 | 8260B | 08/18/04 04:32 | JGH | 74-83-9 | |
| n-Butylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 104-51-8 | |
| sec-Butylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 135-98-8 | |
| tert-Butylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 98-06-6 | |
| Carbon tetrachloride | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 56-23-5 | |
| Chlorobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 108-90-7 | |
| Chloroethane | Not detected | ug/L | 5 | 8260B | 08/18/04 04:32 | JGH | 75-00-3 | |
| Chloroform | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 67-66-3 | |
| Chloromethane | Not detected | ug/L | 5 | 8260B | 08/18/04 04:32 | JGH | 74-87-3 | |
| Dibromochloromethane | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 124-48-1 | |
| 1,2-Dichlorobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 95-50-1 | |
| 1,3-Dichlorobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 541-73-1 | |
| 1,4-Dichlorobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 106-46-7 | |
| 1,1-Dichloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 75-34-3 | |
| 1,2-Dichloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 107-06-2 | |
| 1,1-Dichloroethene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 75-35-4 | |
| cis-1,2-Dichloroethene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 156-59-2 | |
| trans-1,2-Dichloroethene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 156-60-5 | |
| 1,2-Dichloropropane | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 78-87-5 | |
| cis-1,3-Dichloropropene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 10061-01-5 | |
| trans-1,3-Dichloropropene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 10061-02-6 | |
| Ethylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 100-41-4 | |
| Isopropylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 98-82-8 | |
| n-Isopropyltoluene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 99-87-6 | |
| Methylene chloride | Not detected | ug/L | 5 | 8260B | 08/18/04 04:32 | JGH | 75-09-2 | |
| Naphthalene | Not detected | ug/L | 5 | 8260B | 08/18/04 04:32 | JGH | 91-20-3 | |
| n-Propylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 103-65-1 | |
| Styrene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 79-34-5 | |
| Tetrachloroethene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 127-18-4 | |
| Toluene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 108-88-3 | |
| 1,1,1-Trichloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 71-55-6 | |
| 1,1,2-Trichloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 79-00-5 | |
| Trichloroethene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 79-01-6 | |
| 1,2,4-Trimethylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 95-63-6 | |
| 1,3,5-Trimethylbenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 108-67-8 | |
| Vinyl chloride | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 75-01-4 | |
| p-Xylene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 95-47-6 | |
| m-Xylene | Not detected | ug/L | 2 | 8260B | 08/18/04 04:32 | JGH | 106-42-3 | |



Analytical Laboratory Report

Lab Sample ID: S18314.05 (continued)

Sample Tag: Trip Blank

| Analysis | Results | Units | RDL | Method | Run Date/Time | Analyst | CAS # | Flags |
|--------------------------------------|--------------|-------|-----|--------|----------------|---------|-----------|-------|
| Organics (continued) | | | | | | | | |
| Volatile Organics (continued) | | | | | | | | |
| Acetone | Not detected | ug/L | 30 | 8260B | 08/18/04 04:32 | JGH | 67-64-1 | |
| 2-Butanone (MEK) | Not detected | ug/L | 30 | 8260B | 08/18/04 04:32 | JGH | 78-93-3 | |
| Carbon disulfide | Not detected | ug/L | 5 | 8260B | 08/18/04 04:32 | JGH | 75-15-0 | |
| 2-Hexanone | Not detected | ug/L | 50 | 8260B | 08/18/04 04:32 | JGH | 591-78-6 | |
| 4-Methyl-2-pentanone (MIBK) | Not detected | ug/L | 50 | 8260B | 08/18/04 04:32 | JGH | 108-10-1 | |
| tert-Methyl butyl ether (MTBE) | Not detected | ug/L | 5 | 8260B | 08/18/04 04:32 | JGH | 1634-04-4 | |
| 1,1,1,2-Tetrachloroethane | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 630-20-6 | |
| 1,2,3-Trichlorobenzene | Not detected | ug/L | 5 | 8260B | 08/18/04 04:32 | JGH | 87-61-6 | |
| 1,2,3-Trichloropropane | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 96-18-4 | |
| 1,2,4-Trichlorobenzene | Not detected | ug/L | 5 | 8260B | 08/18/04 04:32 | JGH | 120-82-1 | |
| 1,2-Dibromo-3-chloropropane | Not detected | ug/L | 5 | 8260B | 08/18/04 04:32 | JGH | 96-12-8 | |
| 1,2-Dibromoethane | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 106-93-4 | |
| 1,4-Dichloro-2-butene | Not detected | ug/L | 5 | 8260B | 08/18/04 04:32 | JGH | | |
| 2-Methylnaphthalene | Not detected | ug/L | 5 | 8260B | 08/18/04 04:32 | JGH | 91-57-6 | |
| Acrylonitrile | Not detected | ug/L | 5 | 8260B | 08/18/04 04:32 | JGH | 107-13-1 | |
| Bromobenzene | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 108-86-1 | |
| Bromochloromethane | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 74-97-5 | |
| Dibromomethane | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 74-95-3 | |
| Dichlorodifluoromethane | Not detected | ug/L | 5 | 8260B | 08/18/04 04:32 | JGH | 75-71-8 | |
| Diethyl ether | Not detected | ug/L | 5 | 8260B | 08/18/04 04:32 | JGH | 60-29-7 | |
| Hexachloroethane | Not detected | ug/L | 5 | 8260B | 08/18/04 04:32 | JGH | 67-72-1 | |
| Methyl iodide | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 74-88-4 | |
| Tetrahydrofuran | Not detected | ug/L | 100 | 8260B | 08/18/04 04:32 | JGH | 109-99-9 | |
| Trichlorofluoromethane | Not detected | ug/L | 1 | 8260B | 08/18/04 04:32 | JGH | 75-69-4 | |



2000 East Lansing, MI 48824
 Phone (517) 332-0167 Fax (517) 332-6333
 www.meritlabs.com

C.O.C. PAGE # _____ OF _____

021749

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Babasukumar
 COMPANY: Weston Solutions, Inc.
 ADDRESS: 750 East Banker Court
 CITY: Vernon Hills STATE: IL ZIP CODE: 60061
 PHONE NO.: 847 918 4000 FAX NO.: 847 918 4055
 E-MAIL ADDRESS: Babu.Babusukumar@westonsolutions.com

CONTACT NAME: SAME
 COMPANY: SAME
 ADDRESS: SAME
 CITY: STATE: ZIP CODE:
 PHONE NO.: FAX NO.: P.O. NO.:

PROJECT NO./NAME: GM-Linden Rd
 SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kirk L...
 TURNAROUND TIME REQUIRED: 24 HR 48 HR 72 HR STANDARD OTHER
 DELIVERABLES REQUIRED: STANDARD LEVEL II LEVEL III OTHER

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

| MERIT LAB NO. | YEAR | | SAMPLE TAG IDENTIFICATION-DESCRIPTION | MATRIX | # OF BOTTLES | NONE | HCL | HNO ₃ | H ₂ SO ₄ | NaOH | MeOH | OTHER | SPECIAL INSTRUCTIONS/NOTES |
|---------------|---------|------|---------------------------------------|--------|--------------|------|-----|------------------|--------------------------------|------|------|-------|----------------------------|
| | DATE | TIME | | | | | | | | | | | |
| 18314.01 | 8/10/04 | 1200 | MW-03S | GW | 2 | | 2 | | | | | | VOC |
| .02 | 8/10/04 | 1200 | MW-03S DUP | | 2 | | 2 | | | | | | |
| .03 | 8/10/04 | 1245 | MW-14S | | 2 | | 2 | | | | | | |
| .04 | 8/10/04 | 1350 | MW-15S | | 2 | | 2 | | | | | | |
| .05 | - | - | Trip Blank | | 1 | | 1 | | | | | | |

RELINQUISHED BY: SIGNATURE/ORGANIZATION: *Kirk L...* DATE: 8/10/04 TIME:
 RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
 RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
 RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
 RECEIVED BY: SIGNATURE/ORGANIZATION: *Am. Stake* DATE: 8-10-04 TIME: 15:00
 SEAL NO. SEAL INTACT YES NO INITIALS: NOTES: TEMP. ON ARRIVAL:
 SEAL NO. SEAL INTACT YES NO INITIALS:



Quality Control Cover Page

Page 1 of 1

Report ID: S18314.01(01)
Report Date: 09/02/2004
Project: GM - Linden Rd.
Lab Sample ID(s): S18314.01-S18314.05

Report to:

Attention: Mr. Babusukumar
Weston Solutions, Inc.
750 East Banker Court
Vernon Hills, IL 60061

| Sample ID | Sample Tag | Collected | Matrix | Analysis Departments |
|-----------|------------|------------------|-------------|----------------------|
| S18314.01 | MW-03S | 08/10/2004 12:00 | Groundwater | Organics |
| S18314.02 | MW-03S DUP | 08/10/2004 12:00 | Groundwater | Organics |
| S18314.03 | MW-14S | 08/10/2004 12:45 | Groundwater | Organics |
| S18314.04 | MW-15S | 08/10/2004 13:50 | Groundwater | Organics |
| S18314.05 | Trip Blank | 08/10/2004 : | Groundwater | Organics |

This QC package, to the best of my knowledge, is in compliance with all technical and administrative requirements. If you have any questions, please do not hesitate to contact me at 517-332-0167 (ext. 14) or email me at mayamurshak@meritlabs.com.

Sincerely,

Maya Murshak
Technical Director

Form 0: GC/MS injection Log - Volatile Organics

GC Column: VOCOL/L:60m/D:0.53mm
Instrument ID: vol.01.Phyrexia

Analytical Batch: 040817a.1
Heated Purge: Yes

Index of Applicable Reporting Forms

| | |
|---|---|
| Form 0: GC/MS Injection Log - Volatile Organics | Form 5: Instrument Performance Check (BFB/DFTPP) |
| Form 1: GC/MS Data Sheet | Form 6: Initial Calibration Data |
| Form 2: Surrogate Standard Recoveries | Form 7a: System Performance Compounds Check |
| Form 3a: Duplicate/Matrix Spike Duplicate Summary | Form 7b: Calibration Check Compounds |
| Form 3b: Matrix Spike Summary | Form 8: Internal Standard Area and Retention Time Summary |
| Form 4: Method Blank Summary | Supplemental Forms: Chromatographic Data |

| Filename | Run Time | Sample Comments | Mtx | QC Type | Notes | CA |
|------------|----------------|--------------------|-----|---------|-------|----|
| bfb17a.d | 08/17/04 14:14 | 50ng bfb [none] | WW | IP | | |
| spcc17a.d | 08/17/04 14:47 | spcc/ccc [none] | WW | CV | | |
| 1839011.d | 08/17/04 15:36 | 100ul vf040816s2 | SO | | | |
| 1838101.d | 08/17/04 16:40 | 5ml vf040816w2 | WW | | | |
| 1838201.d | 08/17/04 17:14 | 5ml vf040816w2 | WW | | | |
| 1830304.d | 08/17/04 17:48 | 250ul vf040816w2 | WW | | | |
| 1830305.d | 08/17/04 18:21 | 250ul vf040816w2 | WW | | | |
| bfb17b.d | 08/17/04 18:55 | 50ng bfb [none] | WW | IP | | |
| spcc17b.d | 08/17/04 19:29 | spcc/ccc [none] | WW | CV | | |
| lcs-w17a.d | 08/17/04 20:03 | blankms vf040816w2 | WW | MS | | |
| 1830203m.d | 08/17/04 20:37 | 5ml vf040816w2 | WW | MS | | |
| 1830203n.d | 08/17/04 21:11 | 5ml vf040816w2 | WW | MS | | |
| w-17a.d | 08/17/04 21:45 | wash [none] | WW | | | |
| blk-w17a.d | 08/17/04 22:18 | blank vf040816w2 | WW | Bl | | |
| 1830201.d | 08/17/04 22:52 | 5ml vf040816w2 | WW | | | |
| 1830202.d | 08/17/04 23:26 | 5ml vf040816w2 | WW | | | |
| 1830203.d | 08/18/04 00:00 | 5ml vf040816w2 | WW | | | |
| 1830301.d | 08/18/04 00:34 | 5ml vf040816w2 | WW | | | |
| 1830302.d | 08/18/04 01:08 | 5ml vf040816w2 | WW | | | |
| 1830303.d | 08/18/04 01:42 | 5ml vf040816w2 | WW | | | |
| 1831401.d | 08/18/04 02:16 | 5ml vf040816w2 | WW | | | |
| 1831402.d | 08/18/04 02:50 | 5ml vf040816w2 | WW | | | |
| 1831403.d | 08/18/04 03:24 | 5ml vf040816w2 | WW | | | |
| 1831404.d | 08/18/04 03:58 | 5ml vf040816w2 | WW | | | |
| 1831405.d | 08/18/04 04:32 | 5ml vf040816w2 | WW | | | |
| 1832001.d | 08/18/04 05:06 | 5ml vf040816w2 | WW | | | |
| 1832002.d | 08/18/04 05:40 | 5ml vf040816w2 | WW | | | |
| 1832003.d | 08/18/04 06:14 | 5ml vf040816w2 | WW | | | |
| 1838001.d | 08/18/04 06:48 | 5ml vf040816w2 | WW | | | |

Matrix (Mtx) Summary

| | | | |
|-------------------|----|------------------|---|
| Water Samples: | 19 | Soil Samples: | 1 |
| Water Duplicates: | 1 | Soil Duplicates: | 0 |
| Water Spikes: | 3 | Soil Spikes: | 0 |
| Water Blanks: | 1 | Soil Blanks: | 0 |

QC Sample Type Summary

IP: Instrument Performance
CV: Calibration Verification
MS: Matrix Spike/MS Duplicate
Bl: Blank
Dp: Duplicate

Corrective Action (CA) Summary

E: Estimated Result
R: Reanalyze Sample
S: Surrogate Standard Outlier
C: Concentration Beyond Calibration
T: Exceeds Time Limit
X: Other

Notes Summary

1. Raw Data Included (Form 1 + Chromatograms)
2. Surrogate Standard Outliers (Form 2): 0
3. Matrix Spike Outliers (Form 3b): 0
4. CVM Outliers (Forms 7a and 7b): 0
5. Internal Standard Outliers (Form 8): 0

Batch Comments

[no comments]

Form 2: Surrogate Standard Recoveries/System Monitoring Compounds

GC Column: VOCOL/L:60m/D:0.53mm

Instrument ID: vol.01.Phyrexia

Level: N/A

Analytical Batch: 040817a.1

Heated Purge: Yes

Concentration Units: ug/L

| Filename | SSD Compound | Concentration | | %Rec. | LCL/UCL | Matrix |
|----------------------------|-----------------------|---------------|--------|-------|------------|--------|
| | | Found | Spiked | | | |
| spcc17a.d | 4-Bromofluorobenzene | 52.5 | 50.0 | n/a | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 48.2 | 50.0 | n/a | 66.4/124.8 | |
| | Toluene-D8 | 52.2 | 50.0 | n/a | 82.5/118.4 | |
| Total Outliers: n/a | | | | | | |
| 1839011.d | 4-Bromofluorobenzene | 51.1 | 50.0 | 102.2 | 59.0/122.8 | SO |
| | 1,2-Dichloroethane-D4 | 48.7 | 50.0 | 97.3 | 70.0/136.3 | |
| | Toluene-D8 | 53.3 | 50.0 | 106.7 | 84.0/138.0 | |
| Total Outliers: 0 | | | | | | |
| 1838101.d | 4-Bromofluorobenzene | 50.3 | 50.0 | 100.5 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 48.8 | 50.0 | 97.7 | 66.4/124.8 | |
| | Toluene-D8 | 52.9 | 50.0 | 105.9 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |
| 1838201.d | 4-Bromofluorobenzene | 49.7 | 50.0 | 99.4 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 52.8 | 50.0 | 105.6 | 66.4/124.8 | |
| | Toluene-D8 | 53.7 | 50.0 | 107.3 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |
| 1830304.d | 4-Bromofluorobenzene | 50.9 | 50.0 | 101.9 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 53.8 | 50.0 | 107.6 | 66.4/124.8 | |
| | Toluene-D8 | 54.0 | 50.0 | 108.0 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |
| 1830305.d | 4-Bromofluorobenzene | 48.9 | 50.0 | 97.9 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 54.8 | 50.0 | 109.5 | 66.4/124.8 | |
| | Toluene-D8 | 53.1 | 50.0 | 106.2 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |
| spcc17b.d | 4-Bromofluorobenzene | 51.7 | 50.0 | n/a | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 53.5 | 50.0 | n/a | 66.4/124.8 | |
| | Toluene-D8 | 51.1 | 50.0 | n/a | 82.5/118.4 | |
| Total Outliers: n/a | | | | | | |
| lcs-w17a.d | 4-Bromofluorobenzene | 49.6 | 50.0 | 99.2 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 52.8 | 50.0 | 105.7 | 66.4/124.8 | |
| | Toluene-D8 | 53.1 | 50.0 | 106.1 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |
| 1830203m.d | 4-Bromofluorobenzene | 49.2 | 50.0 | 98.4 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 53.1 | 50.0 | 106.1 | 66.4/124.8 | |
| | Toluene-D8 | 51.8 | 50.0 | 103.6 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |
| 1830203n.d | 4-Bromofluorobenzene | 52.5 | 50.0 | 105.1 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 51.6 | 50.0 | 103.2 | 66.4/124.8 | |
| | Toluene-D8 | 52.7 | 50.0 | 105.3 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |
| w-17a.d | 4-Bromofluorobenzene | 51.8 | 50.0 | n/a | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 53.3 | 50.0 | n/a | 66.4/124.8 | |
| | Toluene-D8 | 50.4 | 50.0 | n/a | 82.5/118.4 | |
| Total Outliers: n/a | | | | | | |
| blk-w17a.d | 4-Bromofluorobenzene | 50.0 | 50.0 | 100.0 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 55.7 | 50.0 | 111.3 | 66.4/124.8 | |
| | Toluene-D8 | 50.4 | 50.0 | 100.7 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |

Form 2: Surrogate Standard Recoveries/System Monitoring Compounds

GC Column: VOCOL/L:60m/D:0.53mm

Instrument ID: vol.01.Phyrexia

Level: N/A

Analytical Batch: 040817a.1

Heated Purge: Yes

Concentration Units: ug/L

| Filename | SSD Compound | Concentration | | %Rec. | LCL/UCL | Matrix |
|--------------------------|-----------------------|---------------|--------|-------|------------|--------|
| | | Found | Spiked | | | |
| 1830201.d | 4-Bromofluorobenzene | 52.3/ | 50.0 | 104.5 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 54.9/ | 50.0 | 109.8 | 66.4/124.8 | |
| | Toluene-D8 | 53.3/ | 50.0 | 106.5 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |
| 1830202.d | 4-Bromofluorobenzene | 50.5/ | 50.0 | 101.0 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 52.1/ | 50.0 | 104.1 | 66.4/124.8 | |
| | Toluene-D8 | 50.8/ | 50.0 | 101.5 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |
| 1830203.d | 4-Bromofluorobenzene | 49.7/ | 50.0 | 99.4 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 54.1/ | 50.0 | 108.1 | 66.4/124.8 | |
| | Toluene-D8 | 49.7/ | 50.0 | 99.4 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |
| 1830301.d | 4-Bromofluorobenzene | 50.8/ | 50.0 | 101.6 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 53.5/ | 50.0 | 107.0 | 66.4/124.8 | |
| | Toluene-D8 | 52.7/ | 50.0 | 105.4 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |
| 1830302.d | 4-Bromofluorobenzene | 50.6/ | 50.0 | 101.3 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 51.4/ | 50.0 | 102.8 | 66.4/124.8 | |
| | Toluene-D8 | 49.3/ | 50.0 | 98.6 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |
| 1830303.d | 4-Bromofluorobenzene | 50.1/ | 50.0 | 100.3 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 52.3/ | 50.0 | 104.6 | 66.4/124.8 | |
| | Toluene-D8 | 51.7/ | 50.0 | 103.5 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |
| 1831401.d | 4-Bromofluorobenzene | 49.6/ | 50.0 | 99.1 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 47.1/ | 50.0 | 94.2 | 66.4/124.8 | |
| | Toluene-D8 | 49.5/ | 50.0 | 99.0 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |
| 1831402.d | 4-Bromofluorobenzene | 49.9/ | 50.0 | 99.8 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 48.5/ | 50.0 | 97.0 | 66.4/124.8 | |
| | Toluene-D8 | 49.0/ | 50.0 | 97.9 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |
| 1831403.d | 4-Bromofluorobenzene | 47.8/ | 50.0 | 95.7 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 47.0/ | 50.0 | 94.0 | 66.4/124.8 | |
| | Toluene-D8 | 51.3/ | 50.0 | 102.6 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |
| 1831404.d | 4-Bromofluorobenzene | 50.8/ | 50.0 | 101.6 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 52.2/ | 50.0 | 104.4 | 66.4/124.8 | |
| | Toluene-D8 | 50.2/ | 50.0 | 100.4 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |
| 1831405.d | 4-Bromofluorobenzene | 49.6/ | 50.0 | 99.2 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 54.5/ | 50.0 | 108.9 | 66.4/124.8 | |
| | Toluene-D8 | 50.2/ | 50.0 | 100.5 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |
| 1832001.d | 4-Bromofluorobenzene | 49.3/ | 50.0 | 98.6 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 53.2/ | 50.0 | 106.4 | 66.4/124.8 | |
| | Toluene-D8 | 48.4/ | 50.0 | 96.8 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |

Form 2: Surrogate Standard Recoveries/System Monitoring Compounds

GC Column: VOCOL/L:60m/D:0.53mm
 Instrument ID: vol.01.Phyrexia
 Level: N/A

Analytical Batch: 040817a.1
 Heated Purge: Yes
 Concentration Units: ug/L

| Filename | SSD Compound | Concentration | | %Rec. | LCL/UCL | Matrix |
|--------------------------|-----------------------|---------------|--------|-------|------------|--------|
| | | Found | Spiked | | | |
| 1832002.d | 4-Bromofluorobenzene | 48.7 | 50.0 | 97.5 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 55.6 | 50.0 | 111.2 | 66.4/124.8 | |
| | Toluene-D8 | 49.6 | 50.0 | 99.2 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |
| 1832003.d | 4-Bromofluorobenzene | 49.2 | 50.0 | 98.3 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 54.6 | 50.0 | 109.2 | 66.4/124.8 | |
| | Toluene-D8 | 49.8 | 50.0 | 99.6 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |
| 1838001.d | 4-Bromofluorobenzene | 49.1 | 50.0 | 98.2 | 78.4/119.6 | WW |
| | 1,2-Dichloroethane-D4 | 53.4 | 50.0 | 106.9 | 66.4/124.8 | |
| | Toluene-D8 | 50.7 | 50.0 | 101.5 | 82.5/118.4 | |
| Total Outliers: 0 | | | | | | |

NOTES

*: Surrogate recovery outside of laboratory-established control limits

n/a: Surrogate recovery not applicable (diluted run or standard run)

Form 3a: Duplicate/Matrix Spike Duplicate Summary

GC Column: VOCOL/L:60m/D:0.53mm
Instrument ID: vol.01.Phyrexia

Analytical Batch: 040817a.1
Heated Purge: Yes
Concentration Units: ug/L

| File Name | Sample Name | Target Compound | Dup/Samp | Conc. | %RPD | Matrix |
|------------|-------------|----------------------------------|----------|-------|------|--------|
| 1830203n.d | 1830203m.d | acetone (*) | 15.62/ | 16.29 | 4.2 | WW |
| | | acrylonitrile (*) | 18.84/ | 20.28 | 7.4 | |
| | | 2-butanone (mek) (*) | 20.10/ | 20.83 | 3.6 | |
| | | dichlorodifluoromethane | 5.09/ | 5.16 | 1.4 | |
| | | chloromethane (spcc) | 10.50/ | 11.01 | 4.7 | |
| | | vinyl chloride (ccc) | 11.04/ | 11.39 | 3.1 | |
| | | bromomethane | 14.66/ | 14.83 | 1.2 | |
| | | chloroethane | 16.44/ | 15.24 | 7.6 | |
| | | trichlorofluoromethane | 18.61/ | 19.90 | 6.7 | |
| | | 1,1-dichloroethene (ccc/ms) | 17.33/ | 18.23 | 5.1 | |
| | | methylene chloride | 22.68/ | 23.58 | 3.9 | |
| | | trans-1,2-dichloroethene | 19.93/ | 21.10 | 5.7 | |
| | | 1,1-dichloroethane (spcc) | 21.15/ | 22.28 | 5.2 | |
| | | 2,2-dichloropropane | 21.18/ | 21.71 | 2.5 | |
| | | cis-1,2-dichloroethene | 24.31/ | 25.51 | 4.8 | |
| | | chloroform (ccc) | 21.22/ | 22.43 | 5.5 | |
| | | bromochloromethane | 24.75/ | 27.12 | 9.1 | |
| | | 1,1,1-trichloroethane | 24.74/ | 26.32 | 6.2 | |
| | | 1,1-dichloropropene | 25.04/ | 26.30 | 4.9 | |
| | | 4-methyl-2-pentanone (mibk) (*) | 24.33/ | 25.84 | 6.0 | |
| | | 2-hexanone (*) | 19.64/ | 21.26 | 7.9 | |
| | | carbon tetrachloride | 23.93/ | 25.12 | 4.9 | |
| | | benzene (ms) | 24.45/ | 25.31 | 3.5 | |
| | | 1,2-dichloroethane | 23.82/ | 25.43 | 6.5 | |
| | | trichloroethene (ms) | 23.62/ | 24.14 | 2.2 | |
| | | 1,2-dichloropropane (ccc) | 21.52/ | 23.02 | 6.7 | |
| | | bromodichloromethane | 23.72/ | 24.25 | 2.2 | |
| | | dibromomethane | 25.65/ | 26.54 | 3.4 | |
| | | toluene (ccc/ms) | 22.46/ | 23.69 | 5.3 | |
| | | 1,1,2-trichloroethane | 25.36/ | 25.88 | 2.0 | |
| | | tetrachloroethene | 21.30/ | 22.05 | 3.5 | |
| | | 1,3-dichloropropane | 26.58/ | 28.30 | 6.3 | |
| | | trans-1,4-dichloro-2-butene (*) | 2.69/ | 2.38 | 12.2 | |
| | | dibromochloromethane | 23.23/ | 22.81 | 1.8 | |
| | | 1,2-dibromoethane | 23.61/ | 25.70 | 8.5 | |
| | | chlorobenzene (spcc/ms) | 26.97/ | 27.68 | 2.6 | |
| | | 1,1,1,2-tetrachloroethane | 25.73/ | 26.09 | 1.4 | |
| | | ethylbenzene (ccc) | 21.77/ | 22.42 | 2.9 | |
| | | p,m-xylene | 44.74/ | 45.72 | 2.2 | |
| | | o-xylene | 22.55/ | 22.66 | 0.5 | |
| | | styrene | 19.76/ | 20.08 | 1.6 | |
| | | isopropylbenzene | 24.20/ | 23.73 | 2.0 | |
| | | bromoform (spcc) | 23.70/ | 23.63 | 0.3 | |
| | | 1,1,2,2-tetrachloroethane (spcc) | 23.19/ | 23.09 | 0.4 | |
| | | 1,2,3-trichloropropane | 22.63/ | 24.23 | 6.8 | |
| | | n-propylbenzene | 24.31/ | 24.11 | 0.8 | |
| | | bromobenzene | 21.82/ | 22.09 | 1.2 | |
| | | 1,3,5-trimethylbenzene | 21.88/ | 21.28 | 2.8 | |
| | | tert-butylbenzene | 23.31/ | 23.27 | 0.2 | |
| | | 1,2,4-trimethylbenzene | 21.03/ | 20.82 | 1.0 | |
| | | sec-butylbenzene | 20.64/ | 21.98 | 6.3 | |
| | | p-isopropyltoluene | 21.72/ | 23.30 | 7.0 | |
| | | 1,3-dichlorobenzene | 20.50/ | 21.71 | 5.7 | |
| | | 1,4-dichlorobenzene | 19.95/ | 21.02 | 5.2 | |

Form 3a: Duplicate/Matrix Spike Duplicate Summary

GC Column: VOCOL/L:60m/D:0.53mm
Instrument ID: vol.01.Phyrexia

Analytical Batch: 040817a.1
Heated Purge: Yes
Concentration Units: ug/L

| <i>File Name</i> | <i>Sample Name</i> | <i>Target Compound</i> | <i>Dup/Samp Conc.</i> | <i>%RPD</i> | <i>Matrix</i> |
|------------------|--------------------|-----------------------------|-----------------------|-------------|--------------------------|
| 1830203n.d | 1830203m.d | 1,2-dichlorobenzene | 21.43/ 22.79 | 6.2 | |
| | | n-butylbenzene | 20.45/ 21.52 | 5.1 | |
| | | 1,2-dibromo-3-chloropropane | 18.83/ 22.61 | 18.2 | |
| | | 1,2,4-trichlorobenzene | 18.14/ 19.58 | 7.6 | |
| | | hexachlorobutadiene | 18.28/ 20.15 | 9.7 | |
| | | naphthalene | 21.29/ 23.41 | 9.5 | |
| | | 1,2,3-trichlorobenzene | 19.66/ 21.67 | 9.7 | |
| | | [end of compound list] | | | |
| | | | | | Total Outliers: 0 |

Form 3b: Matrix Spike Summary

GC Column: VOCOL/L:60m/D:0.53mm
 Instrument ID: vol.01.Phyrexia

Analytical Batch: 040817a.1
 Heated Purge: Yes
 Concentration Units: ug/L

| File Name | Sample Name | Target Compound | MS/Samp | Conc. | SP Amt. | %Rec | LCL/UCL | Mat. |
|-------------------------------------|-------------|--------------------|---------|-------|---------|-------|-------------------|------|
| lcs-w17a.d | blk-w17a.d | Benzene | 24.60/ | 0.00 | 25.00 | 98.4 | 73.7/127.0 | WW |
| | | Chlorobenzene | 26.33/ | 0.00 | 25.00 | 105.3 | 75.0/130.0 | |
| | | 1,1-Dichloroethene | 18.23/ | 0.00 | 25.00 | 72.9 | 59.9/145.0 | |
| | | Trichloroethene | 23.74/ | 0.00 | 25.00 | 95.0 | 71.0/121.2 | |
| | | Toluene | 22.62/ | 0.00 | 25.00 | 90.5 | 71.4/127.6 | |
| Spike Preparation Batch: vf040816w2 | | | | | | | Total Outliers: 0 | |
| 1830203m.d | 1830203.d | Benzene | 25.31/ | 0.00 | 25.00 | 101.2 | 73.7/127.0 | WW |
| | | Chlorobenzene | 27.68/ | 0.00 | 25.00 | 110.7 | 75.0/130.0 | |
| | | 1,1-Dichloroethene | 18.23/ | 0.00 | 25.00 | 72.9 | 59.9/145.0 | |
| | | Trichloroethene | 24.14/ | 0.00 | 25.00 | 96.6 | 71.0/121.2 | |
| | | Toluene | 23.69/ | 0.00 | 25.00 | 94.8 | 71.4/127.6 | |
| Spike Preparation Batch: vf040816w2 | | | | | | | Total Outliers: 0 | |
| 1830203n.d | 1830203.d | Benzene | 24.45/ | 0.00 | 25.00 | 97.8 | 73.7/127.0 | WW |
| | | Chlorobenzene | 26.97/ | 0.00 | 25.00 | 107.9 | 75.0/130.0 | |
| | | 1,1-Dichloroethene | 17.33/ | 0.00 | 25.00 | 69.3 | 59.9/145.0 | |
| | | Trichloroethene | 23.62/ | 0.00 | 25.00 | 94.5 | 71.0/121.2 | |
| | | Toluene | 22.46/ | 0.00 | 25.00 | 89.8 | 71.4/127.6 | |
| Spike Preparation Batch: vf040816w2 | | | | | | | Total Outliers: 0 | |

NOTES

*: LCS/Matrix Spike recovery outside of laboratory-established control limits

Form 4: Method Blank Summary

GC Column: VOCOL/L:60m/D:0.53mm
 Instrument ID: vol.01.Phyrexia
 Level: N/A

Analytical Batch: 040817a.1
 Heated Purge: Yes
 Concentration Units: ug/L

| Filename | Prep Batch | Run Time | Target Compound | Conc. | Sample | Matrix |
|------------|------------|----------------|---------------------------------|--------------|--------------|--------|
| blk-w17a.d | vf040816w2 | 08/17/04 22:18 | Diethyl ether (*) | < 1.00 ug/L | < 1.00 ug/L | WW |
| | | | Acetone (*) | < 10.00 ug/L | < 10.00 ug/L | |
| | | | Methyl iodide (iodomethane) (*) | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Carbon disulfide (*) | < 1.00 ug/L | < 1.00 ug/L | |
| | | | tert-Methyl butyl ether (MTBE) | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Acrylonitrile (*) | < 10.00 ug/L | < 10.00 ug/L | |
| | | | 2-Butanone (MEK) (*) | < 10.00 ug/L | < 10.00 ug/L | |
| | | | Dichlorodifluoromethane | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Chloromethane (SPCC) | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Vinyl Chloride (CCC) | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Bromomethane | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Chloroethane | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Trichlorofluoromethane | < 1.00 ug/L | < 1.00 ug/L | |
| | | | 1,1-Dichloroethene (CCC/MS) | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Methylene Chloride | < 1.00 ug/L | < 1.00 ug/L | |
| | | | trans-1,2-Dichloroethene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | 1,1-Dichloroethane (SPCC) | < 1.00 ug/L | < 1.00 ug/L | |
| | | | 2,2-Dichloropropane | < 1.00 ug/L | < 1.00 ug/L | |
| | | | cis-1,2-Dichloroethene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Chloroform (CCC) | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Bromochloromethane | < 1.00 ug/L | < 1.00 ug/L | |
| | | | 1,1,1-Trichloroethane | < 1.00 ug/L | < 1.00 ug/L | |
| | | | 1,1-Dichloropropene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | 4-Methyl-2-pentanone (MIBK) (*) | < 10.00 ug/L | < 10.00 ug/L | |
| | | | 2-Hexanone (*) | < 10.00 ug/L | < 10.00 ug/L | |
| | | | Carbon Tetrachloride | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Benzene (MS) | < 1.00 ug/L | < 1.00 ug/L | |
| | | | 1,2-Dichloroethane | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Trichloroethene (MS) | < 1.00 ug/L | < 1.00 ug/L | |
| | | | 1,2-Dichloropropane (CCC) | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Bromodichloromethane | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Dibromomethane | < 1.00 ug/L | < 1.00 ug/L | |
| | | | cis-1,3-Dichloropropene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Toluene (CCC/MS) | < 1.00 ug/L | < 1.00 ug/L | |
| | | | trans-1,3-Dichloropropene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | 1,1,2-Trichloroethane | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Tetrachloroethene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | 1,3-Dichloropropane | < 1.00 ug/L | < 1.00 ug/L | |
| | | | trans-1,4-Dichloro-2-butene (*) | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Dibromochloromethane | < 1.00 ug/L | < 1.00 ug/L | |
| | | | 1,2-Dibromoethane | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Chlorobenzene (SPCC/MS) | < 1.00 ug/L | < 1.00 ug/L | |
| | | | 1,1,1,2-Tetrachloroethane | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Ethylbenzene (CCC) | < 1.00 ug/L | < 1.00 ug/L | |
| | | | p,m-Xylene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | o-Xylene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Styrene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Isopropylbenzene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Bromoform (SPCC) | < 1.00 ug/L | < 1.00 ug/L | |
| | | | 1,1,2,2-Tetrachloroethane (SPC) | < 1.00 ug/L | < 1.00 ug/L | |
| | | | 1,2,3-Trichloropropane | < 1.00 ug/L | < 1.00 ug/L | |
| | | | n-Propylbenzene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Bromobenzene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | 1,3,5-Trimethylbenzene | < 1.00 ug/L | < 1.00 ug/L | |

Form 4: Method Blank Summary

GC Column: VOCOL/L:60m/D:0.53mm
Instrument ID: vol.01.Phyrexia
Level: N/A

Analytical Batch: 040817a.1
Heated Purge: Yes
Concentration Units: ug/L

| Filename | Prep Batch | Run Time | Target Compound | Conc. | Sample | Matrix |
|----------|------------|----------|-----------------------------|--------------|--------------|--------|
| | | | tert-Butylbenzene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | 1,2,4-Trimethylbenzene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | sec-Butylbenzene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | p-Isopropyltoluene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | 1,3-Dichlorobenzene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | 1,4-Dichlorobenzene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | 1,2-Dichlorobenzene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | n-Butylbenzene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | 1,2-Dibromo-3-Chloropropane | < 10.00 ug/L | < 10.00 ug/L | |
| | | | 1,2,4-Trichlorobenzene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Hexachlorobutadiene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | Naphthalene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | 1,2,3-Trichlorobenzene | < 1.00 ug/L | < 1.00 ug/L | |
| | | | 2-Methylnaphthalene | < 1.00 ug/L | < 1.00 ug/L | |

KEY:

[Conc.]: Concentration in sample extract/purge volume

[Sample]: Concentration in original sample weight/volume

Form 4: Method Blank Summary - Blank / LCS / Sample Association

GC Column: VOCOL/L:60m/D:0.53mm
 Instrument ID: vol.01.Phyrexia
 Level: N/A

Analytical Batch: 040817a.1
 Heated Purge: Yes
 Concentration Units: ug/L

Method Blank Data File: blk-w17a.d
 Method Blank Prep Date: 08/17/04
 Blank/LCS Preparation Batch: vf040816w2

LCS Data File: lcs-w17a.d
 LCS Prep Date: 08/17/04

| Sample ID | Anal. Batch | Prep. Batch | Date | Analysis | Analysis Code |
|-----------|-------------|-------------|----------|----------------------------------|---------------|
| S18302.01 | 040817a1 | vf040816w2 | 08/17/04 | BTEX/MTBE, GC/MS | \$BTM826W |
| S18302.02 | 040817a1 | vf040816w2 | 08/17/04 | BTEX/MTBE, GC/MS | \$BTM826W |
| S18302.03 | 040817a1 | vf040816w2 | 08/18/04 | BTEX/MTBE, GC/MS | \$BTM826W |
| S18303.01 | 040817a1 | vf040816w2 | 08/18/04 | Gasoline Range Volatile Organics | \$GASW |
| S18303.02 | 040817a1 | vf040816w2 | 08/18/04 | Gasoline Range Volatile Organics | \$GASW |
| S18303.03 | 040817a1 | vf040816w2 | 08/18/04 | Gasoline Range Volatile Organics | \$GASW |
| S18303.04 | 040817a1 | vf040816w2 | 08/17/04 | Gasoline Range Volatile Organics | \$GASW |
| S18303.05 | 040823ar | vf040816w2 | 08/23/04 | Gasoline Range Volatile Organics | \$GASW |
| S18314.01 | 040817a1 | vf040816w2 | 08/18/04 | Volatile Organics | \$8260W |
| S18314.02 | 040817a1 | vf040816w2 | 08/18/04 | Volatile Organics | \$8260W |
| S18314.03 | 040817a1 | vf040816w2 | 08/18/04 | Volatile Organics | \$8260W |
| S18314.04 | 040817a1 | vf040816w2 | 08/18/04 | Volatile Organics | \$8260W |
| S18314.05 | 040817a1 | vf040816w2 | 08/18/04 | Volatile Organics | \$8260W |
| S18320.01 | 040817a1 | vf040816w2 | 08/18/04 | Volatile Organics | \$8260W |
| S18320.02 | 040817a1 | vf040816w2 | 08/18/04 | Volatile Organics | \$8260W |
| S18320.03 | 040818a1 | vf040816w2 | 08/19/04 | Volatile Organics | \$8260W |
| S18380.01 | 040818ar | vf040816w2 | 08/18/04 | Volatile Organics | \$8260W |
| S18381.01 | 040818ar | vf040816w2 | 08/18/04 | Volatile Organics | \$8260W |
| S18382.01 | 040818ar | vf040816w2 | 08/18/04 | Volatile Organics | \$8260W |

Form 5: Instrument Performance Check (BFB/DFTPP)

GC Column: VOCOL/L:60m/D:0.53mm

Analytical Batch: 040817a1.1

Instrument ID: vol.01.Phyrexia

Heated Purge: Yes

| Filename | Run Time | Tgt. Mass | Rel. Mass | LCL (%) | UCL (%) | Rel. Abn. | Raw Abn. | Result |
|--|----------------|-----------|-----------|---------|---------|-----------|----------|--------|
| bfb17a.d | 08/17/04 14:14 | 50 | 95 | 15.0 | 40.0 | 18.4 | 15573 | PASS |
| | | 75 | 95 | 30.0 | 60.0 | 38.7 | 32736 | PASS |
| | | 95 | 95 | 100.0 | 100.0 | 100.0 | 84520 | PASS |
| | | 96 | 95 | 5.0 | 9.0 | 6.6 | 5549 | PASS |
| | | 173 | 174 | 0.0 | 2.0 | 0.7 | 589 | PASS |
| | | 174 | 95 | 50.0 | 200.0 | 106.7 | 90208 | PASS |
| | | 175 | 174 | 5.0 | 9.0 | 7.6 | 6842 | PASS |
| | | 176 | 174 | 95.0 | 101.0 | 100.8 | 90952 | PASS |
| | | 177 | 176 | 5.0 | 9.0 | 5.9 | 5365 | PASS |
| <i>Note: See Form 0 (Injection Log) for 12-hour time increments and associated samples</i> | | | | | | | | |
| bfb17b.d | 08/17/04 18:55 | 50 | 95 | 15.0 | 40.0 | 15.1 | 10657 | PASS |
| | | 75 | 95 | 30.0 | 60.0 | 42.3 | 29920 | PASS |
| | | 95 | 95 | 100.0 | 100.0 | 100.0 | 70656 | PASS |
| | | 96 | 95 | 5.0 | 9.0 | 5.6 | 3978 | PASS |
| | | 173 | 174 | 0.0 | 2.0 | 0.0 | 0 | PASS |
| | | 174 | 95 | 50.0 | 200.0 | 105.0 | 74200 | PASS |
| | | 175 | 174 | 5.0 | 9.0 | 6.4 | 4741 | PASS |
| | | 176 | 174 | 95.0 | 101.0 | 97.3 | 72208 | PASS |
| | | 177 | 176 | 5.0 | 9.0 | 7.5 | 5426 | PASS |
| <i>Note: See Form 0 (Injection Log) for 12-hour time increments and associated samples</i> | | | | | | | | |

Form 6: Initial Calibration Data

GC Column: VOCOL/L:60m/D:0.53mm

Instrument ID: vol.01.Phyrexia

Analytical Batch: 040817a.1

Heated Purge: Yes

Concentration Units: ug/L

| Filename | Compound | Fit | <RF> | %RSD | RF(1) | RF(2) | RF(3) | RF(4) | RF(5) | RF(6) | COD | k(0) | k(1) | k(2) | |
|---------------------------------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| fl040809.m | PENTAFLUOROBENZENE (I) | I | | | 100.0 | 60.00 | 1.000 | 20.00 | 10.00 | 200.0 | | | | | |
| | 1,2-DICHLOROETHANE-D4 (S) | A | 0.319 | 2.73 | 0.316 | 0.324 | 0.326 | 0.327 | 0.313 | 0.305 | | | | | |
| | Diethyl ether (*) | QO | 0.125 | 8.45 | 0.116 | 0.129 | 0.119 | 0.145 | 0.123 | 0.120 | 1.00 | 0.00 | 0.123 | 0.00 | |
| | Acetone (*) | A | 0.091 | 15.5 | 0.090 | 0.081 | | 0.075 | 0.097 | 0.111 | | | | | |
| | Methyl iodide (iodomethane) (*) | A | 0.409 | 9.97 | 0.366 | 0.437 | 0.387 | 0.475 | 0.410 | 0.380 | | | | | |
| | Carbon disulfide (*) | QO | 0.628 | 23.9 | 0.674 | 0.751 | 0.378 | 0.727 | 0.511 | 0.725 | 1.00 | 0.00 | 0.682 | 0.01 | |
| | tert-Methyl butyl ether (MTBE) | A | 0.534 | 11.3 | 0.470 | 0.553 | 0.555 | 0.625 | 0.536 | 0.464 | | | | | |
| | Acrylonitrile (*) | A | 0.084 | 6.64 | 0.078 | 0.088 | | 0.090 | 0.078 | 0.084 | | | | | |
| | 2-Butanone (MEK) (*) | A | 0.125 | 4.33 | 0.119 | 0.121 | | 0.123 | 0.131 | 0.130 | | | | | |
| | Dichlorodifluoromethane | QO | 0.247 | 14.0 | 0.206 | 0.253 | 0.238 | 0.293 | 0.277 | 0.213 | 0.99 | 0.00 | 0.236 | -0.01 | |
| | Chloromethane (SPCC) | QO | 0.343 | 10.9 | 0.298 | 0.343 | 0.377 | 0.388 | 0.351 | 0.302 | 1.00 | 0.00 | 0.328 | -0.01 | |
| | Vinyl Chloride (CCC) | QO | 0.237 | 7.27 | | 0.238 | 0.245 | 0.258 | 0.234 | 0.211 | 1.00 | 0.00 | 0.251 | -0.01 | |
| | Bromomethane | QO | 0.042 | 21.8 | 0.037 | 0.040 | 0.055 | 0.052 | 0.039 | 0.031 | 1.00 | 0.00 | 0.044 | 0.00 | |
| | Chloroethane | QO | 0.087 | 11.1 | 0.074 | 0.093 | 0.090 | 0.096 | 0.092 | 0.075 | 0.99 | 0.00 | 0.086 | 0.00 | |
| | Trichlorofluoromethane | QO | 0.350 | 9.94 | 0.307 | 0.366 | 0.344 | 0.408 | 0.347 | 0.327 | 1.00 | 0.00 | 0.335 | 0.00 | |
| | 1,1-Dichloroethene (CCC/MS) | QO | 0.410 | 8.24 | | 0.427 | 0.386 | 0.461 | 0.380 | 0.396 | 1.00 | 0.00 | 0.442 | -0.01 | |
| | Methylene Chloride | LO | 0.412 | 9.52 | 0.359 | 0.416 | 0.460 | 0.449 | 0.407 | 0.378 | 1.00 | 0.00 | 0.378 | 0.00 | |
| | trans-1,2-Dichloroethene | QO | 0.452 | 11.0 | 0.410 | 0.474 | 0.409 | 0.535 | 0.468 | 0.417 | 1.00 | 0.00 | 0.452 | -0.01 | |
| | 1,1-Dichloroethane (SPCC) | QO | 0.501 | 6.63 | 0.459 | 0.520 | 0.490 | 0.555 | 0.497 | 0.483 | 1.00 | 0.00 | 0.485 | 0.00 | |
| | 2,2-Dichloropropane | A | 0.305 | 9.66 | 0.273 | 0.332 | 0.289 | 0.349 | 0.303 | 0.285 | | | | | |
| | cis-1,2-Dichloroethene | QO | 0.321 | 10.5 | 0.285 | 0.342 | 0.305 | 0.371 | 0.334 | 0.289 | 1.00 | 0.00 | 0.322 | -0.01 | |
| | Chloroform (CCC) | QO | 0.488 | 7.90 | | 0.497 | 0.455 | 0.548 | 0.485 | 0.454 | 1.00 | 0.00 | 0.521 | -0.02 | |
| | Bromochloromethane | QO | 0.193 | 9.26 | 0.175 | 0.202 | 0.183 | 0.225 | 0.190 | 0.185 | 1.00 | 0.00 | 0.187 | 0.00 | |
| | 1,1,1-Trichloroethane | QO | 0.393 | 11.6 | 0.355 | 0.433 | 0.327 | 0.448 | 0.396 | 0.396 | 0.99 | 0.00 | 0.378 | 0.00 | |
| | 1,1-Dichloropropene | QO | 0.408 | 13.0 | 0.331 | 0.429 | 0.406 | 0.478 | 0.439 | 0.366 | 0.99 | 0.00 | 0.375 | 0.00 | |
| | 1,4-DIFLUOROBENZENE (I) | I | | | | 100.0 | 60.00 | 1.000 | 20.00 | 10.00 | 200.0 | | | | |
| | TOLUENE-D8 (S) | A | 1.050 | 3.99 | 1.011 | 1.006 | 1.090 | 1.071 | 1.071 | 1.100 | 1.022 | | | | |
| | 4-Methyl-2-pentanone (MIBK) (*) | L | 0.070 | 10.1 | 0.062 | 0.072 | | 0.078 | 0.063 | 0.074 | 0.99 | 0.00 | 0.073 | 0.00 | |
| | 2-Hexanone (*) | A | 0.064 | 13.4 | 0.062 | 0.064 | | 0.066 | 0.052 | 0.076 | | | | | |
| | Carbon Tetrachloride | QO | 0.265 | 11.2 | 0.228 | 0.284 | 0.237 | 0.308 | 0.262 | 0.269 | 0.99 | 0.00 | 0.238 | 0.01 | |
| | Benzene (MS) | QO | 0.957 | 13.4 | 0.787 | 0.950 | 1.097 | 1.070 | 1.014 | 0.826 | 0.99 | 0.00 | 0.877 | -0.01 | |
| | 1,2-Dichloroethane | QO | 0.305 | 9.01 | 0.263 | 0.306 | 0.315 | 0.343 | 0.317 | 0.287 | 1.00 | 0.00 | 0.278 | 0.00 | |
| | Trichloroethene (MS) | QO | 0.291 | 10.5 | 0.244 | 0.301 | 0.287 | 0.333 | 0.307 | 0.273 | 0.99 | 0.00 | 0.264 | 0.00 | |
| | 1,2-Dichloropropane (CCC) | QO | 0.267 | 5.68 | | 0.263 | 0.282 | 0.281 | 0.266 | 0.245 | 1.00 | 0.00 | 0.273 | -0.01 | |
| | Bromodichloromethane | QO | 0.245 | 21.5 | 0.247 | 0.286 | 0.149 | 0.275 | 0.225 | 0.285 | 1.00 | 0.00 | 0.244 | 0.01 | |
| | Dibromomethane | QO | 0.232 | 10.4 | 0.211 | 0.249 | 0.199 | 0.265 | 0.232 | 0.235 | 1.00 | 0.00 | 0.220 | 0.00 | |
| | cis-1,3-Dichloropropene | QO | 0.328 | 18.0 | 0.320 | 0.375 | 0.223 | 0.387 | 0.314 | 0.347 | 1.00 | 0.00 | 0.337 | 0.00 | |
| | Toluene (CCC/MS) | QO | 1.157 | 15.3 | | 1.074 | 1.296 | 1.305 | 1.224 | 0.886 | 1.00 | 0.00 | 1.188 | -0.08 | |
| | trans-1,3-Dichloropropene | QO | 0.257 | 24.1 | 0.260 | 0.298 | 0.143 | 0.304 | 0.235 | 0.299 | 1.00 | 0.00 | 0.257 | 0.01 | |
| | 1,1,2-Trichloroethane | LO | 0.164 | 9.84 | 0.140 | 0.164 | 0.161 | 0.190 | 0.167 | 0.159 | 1.00 | 0.00 | 0.156 | 0.00 | |
| | Tetrachloroethene | QO | 0.511 | 9.34 | | 0.475 | 0.540 | 0.550 | 0.544 | 0.445 | 1.00 | 0.00 | 0.502 | -0.01 | |
| | 1,3-Dichloropropane | LO | 0.348 | 13.1 | 0.283 | 0.337 | 0.393 | 0.387 | 0.378 | 0.308 | 1.00 | 0.00 | 0.306 | 0.00 | |
| | CHLOROBENZENE-D5 (I) | I | | | | 100.0 | 60.00 | 1.000 | 20.00 | 10.00 | 200.0 | | | | |
| | 4-BROMOFLUOROBENZENE (S) | A | 1.013 | 3.58 | 1.028 | 1.044 | 0.968 | 1.014 | 0.971 | 1.053 | | | | | |
| | trans-1,4-Dichloro-2-butene (*) | A | 0.110 | 19.6 | 0.110 | 0.124 | 0.084 | 0.112 | 0.088 | 0.141 | | | | | |
| Dibromochloromethane | QO | 0.400 | 29.0 | 0.445 | 0.474 | 0.214 | 0.438 | 0.305 | 0.521 | 1.00 | 0.00 | 0.405 | 0.03 | | |
| 1,2-Dibromoethane | QO | 0.422 | 13.5 | 0.410 | 0.453 | 0.328 | 0.488 | 0.396 | 0.457 | 1.00 | 0.00 | 0.407 | 0.01 | | |
| Chlorobenzene (SPCC/MS) | QO | 1.602 | 14.0 | 1.267 | 1.602 | 1.845 | 1.813 | 1.659 | 1.426 | 0.99 | 0.00 | 1.393 | 0.01 | | |
| 1,1,1,2-Tetrachloroethane | QO | 0.490 | 17.7 | 0.469 | 0.560 | 0.338 | 0.559 | 0.463 | 0.549 | 1.00 | 0.00 | 0.471 | 0.02 | | |
| Ethylbenzene (CCC) | QO | 2.694 | 12.1 | | 2.611 | 2.955 | 3.006 | 2.707 | 2.189 | 1.00 | 0.00 | 2.835 | -0.16 | | |
| p,m-Xylene | QO | 0.945 | 12.6 | | 0.938 | 1.027 | 1.039 | 0.977 | 0.744 | 1.00 | 0.00 | 1.027 | -0.07 | | |
| o-Xylene | QO | 2.117 | 10.5 | | 2.119 | 2.233 | 2.324 | 2.168 | 1.743 | 1.00 | 0.00 | 2.293 | -0.14 | | |
| Styrene | QO | 1.493 | 8.86 | | 1.529 | 1.534 | 1.636 | 1.491 | 1.277 | 1.00 | 0.00 | 1.637 | -0.09 | | |
| Isopropylbenzene | QO | 2.444 | 9.67 | | 2.418 | 2.674 | 2.659 | 2.367 | 2.101 | 1.00 | 0.00 | 2.572 | -0.12 | | |
| Bromoform (SPCC) | A | 0.312 | 32.2 | 0.343 | 0.377 | 0.196 | 0.292 | 0.208 | 0.455 | | | | | | |
| 1,1,2,2-Tetrachloroethane (SPC) | LO | 0.429 | 15.7 | 0.403 | 0.478 | 0.307 | 0.486 | 0.431 | 0.466 | 0.99 | 0.00 | 0.455 | 0.00 | | |
| 1,2,3-Trichloropropane | A | 0.139 | 8.51 | 0.125 | 0.146 | 0.125 | 0.153 | 0.139 | 0.147 | | | | | | |
| n-Propylbenzene | A | 2.792 | 17.2 | 1.958 | 2.961 | 3.093 | 3.238 | 3.014 | 2.488 | | | | | | |
| Bromobenzene | QO | 0.813 | 5.59 | | 0.835 | 0.831 | 0.865 | 0.787 | 0.749 | 1.00 | 0.00 | 0.869 | -0.03 | | |
| 1,3,5-Trimethylbenzene | QO | 2.146 | 13.2 | | 2.098 | 2.339 | 2.414 | 2.190 | 1.688 | 1.00 | 0.00 | 2.304 | -0.15 | | |
| tert-Butylbenzene | A | 1.996 | 19.2 | 1.375 | 2.102 | 2.349 | 2.376 | 2.034 | 1.741 | | | | | | |
| 1,2,4-Trimethylbenzene | QO | 2.184 | 9.49 | | 2.195 | 2.353 | 2.402 | 2.079 | 1.893 | 1.00 | 0.00 | 2.335 | -0.11 | | |

Form 6: Initial Calibration Data

GC Column: VOCOL/L:60m/D:0.53mm
 Instrument ID: vol.01.Phyrexia

Analytical Batch: 040817a.1
 Heated Purge: Yes
 Concentration Units: ug/L

| Filename | Compound | Fit | <RF> | %RSD | RF(1) | RF(2) | RF(3) | RF(4) | RF(5) | RF(6) | COD | k(0) | k(1) | k(2) |
|------------|-----------------------------|-----|-------|------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|
| f1040809.m | 1,4-DICHLOROBENZENE-D4 (I) | I | | | 100.0 | 60.00 | 1.000 | 20.00 | 10.00 | 200.0 | | | | |
| | sec-Butylbenzene | QO | 2.777 | 4.27 | | 2.808 | 2.782 | 2.955 | 2.691 | 2.650 | 1.00 | 0.00 | 2.885 | -0.06 |
| | p-Isopropyltoluene | QO | 2.208 | 4.35 | | 2.167 | 2.200 | 2.373 | 2.174 | 2.126 | 1.00 | 0.00 | 2.217 | -0.02 |
| | 1,3-Dichlorobenzene | QO | 1.496 | 3.45 | | 1.491 | 1.544 | 1.536 | 1.414 | 1.494 | 1.00 | 0.00 | 1.494 | 0.00 |
| | 1,4-Dichlorobenzene | QO | 1.469 | 5.70 | | 1.447 | 1.579 | 1.530 | 1.376 | 1.413 | 1.00 | 0.00 | 1.470 | -0.01 |
| | 1,2-Dichlorobenzene | QO | 1.339 | 5.27 | | 1.340 | 1.353 | 1.447 | 1.298 | 1.259 | 1.00 | 0.00 | 1.386 | -0.03 |
| | n-Butylbenzene | QO | 1.986 | 4.95 | | 1.915 | 2.021 | 2.138 | 1.962 | 1.893 | 1.00 | 0.00 | 1.962 | -0.02 |
| | 1,2-Dibromo-3-Chloropropane | A | 0.092 | 32.8 | 0.085 | 0.096 | | 0.081 | 0.058 | 0.140 | | | | |
| | 1,2,4-Trichlorobenzene | QO | 1.118 | 4.03 | | 1.096 | 1.077 | 1.190 | 1.094 | 1.132 | 1.00 | 0.00 | 1.098 | 0.01 |
| | Hexachlorobutadiene | QO | 0.745 | 7.33 | | 0.735 | 0.812 | 0.748 | 0.662 | 0.766 | 1.00 | 0.00 | 0.723 | 0.01 |
| | Naphthalene | QO | 1.518 | 6.35 | | 1.530 | 1.412 | 1.660 | 1.447 | 1.543 | 1.00 | 0.00 | 1.543 | 0.00 |
| | 1,2,3-Trichlorobenzene | QO | 0.876 | 6.73 | | 0.871 | 0.823 | 0.976 | 0.847 | 0.861 | 1.00 | 0.00 | 0.891 | -0.01 |
| | 2-Methylnaphthalene | LO | 0.322 | 14.8 | | 0.360 | 0.267 | 0.380 | 0.288 | 0.313 | 1.00 | 0.00 | 0.317 | 0.00 |

Calibration Date: 08/09/04

Note: See Calibration Raw Data for Calibration Injection Times, File IDs, Area/RT Reports, and TICs

NOTES:

Average RF Fit : $A^* = \langle RF \rangle C^*$

Other Curve Fit: $A^* = k(0) + k(1)C^* + k(2)(C^*)^2$

Internal Standards are highlighted and the column entries indicate the standard concentraion.

Notation: $A^* = A_s/A_i$ (normalized peak area/height)

$C^* = C_s/C_i$ (normalized concentration)

Calibration (1): f1040809.M (Mean %RSD: 11.64)

Form 7a: System Performance Compounds Check

GC Column: VOCOL/L:60m/D:0.53mm

Analytical Batch: 040817a.1

Instrument ID: vol.01.Phyrexia

Heated Purge: Yes

Initial Calibration Date: (see Form 6)

| <i>Filename</i> | <i>Run Time</i> | <i>SPCC Compound</i> | <i>SPCC RF</i> | <i>RF LCL</i> |
|-----------------|-----------------|---------------------------|----------------|---------------|
| spcc17a.d | 08/17/04 14:47 | 1,1,2,2-Tetrachloroethane | 0.609 | 0.30 |
| | | Bromoform | 0.439 | 0.10 |
| | | Chlorobenzene | 1.976 | 0.30 |
| | | Chloromethane | 0.351 | 0.10 |
| | | 1,1-Dichloroethane | 0.556 | 0.10 |
| spcc17b.d | 08/17/04 19:29 | 1,1,2,2-Tetrachloroethane | 0.454 | 0.30 |
| | | Bromoform | 0.333 | 0.10 |
| | | Chlorobenzene | 1.622 | 0.30 |
| | | Chloromethane | 0.333 | 0.10 |
| | | 1,1-Dichloroethane | 0.519 | 0.10 |

NOTES

*: Performance compound RF below method-established control limit

Form 7b: Calibration Check Compounds

GC Column: VOCOL/L:60m/D:0.53mm

Instrument ID: vol.01.Phyrexia

Initial Calibration Date: (see Form 6)

Analytical Batch: 040817a.1

Heated Purge: Yes

Concentration Units: ug/L

| Filename | Run Time | CCC Compound | Found/Spiked | | CCC %D/UCL |
|-----------|----------------|---------------------|---------------|------|------------|
| | | | Concentration | | |
| spcc17a.d | 08/17/04 14:47 | Chloroform | 26.8/ | 25.0 | 7.2/ 20.0 |
| | | 1,1-Dichloroethene | 26.0/ | 25.0 | 3.9/ 20.0 |
| | | 1,2-Dichloropropane | 28.6/ | 25.0 | 14.3/ 20.0 |
| | | Ethylbenzene | 28.3/ | 25.0 | 13.1/ 20.0 |
| | | Toluene | 29.9/ | 25.0 | 19.7/ 20.0 |
| <hr/> | | | | | |
| spcc17b.d | 08/17/04 19:29 | Chloroform | 24.6/ | 25.0 | 1.6/ 20.0 |
| | | 1,1-Dichloroethene | 23.3/ | 25.0 | 6.9/ 20.0 |
| | | 1,2-Dichloropropane | 24.0/ | 25.0 | 3.9/ 20.0 |
| | | Ethylbenzene | 23.1/ | 25.0 | 7.6/ 20.0 |
| | | Toluene | 23.5/ | 25.0 | 6.2/ 20.0 |
| <hr/> | | | | | |
| | | Vinyl Chloride | 23.8/ | 25.0 | 4.8/ 20.0 |
| <hr/> | | | | | |
| | | Vinyl Chloride | 22.3/ | 25.0 | 10.9/ 20.0 |

NOTES

*: Calibration check drift outside of method-established control limits

Form 8: Internal Standard Area and Retention Time Summary

GC Column: VOCOL/L:60m/D:0.53mm
 Instrument ID: vol.01.Phyrexia

Analytical Batch: 040817a.1
 Heated Purge: Yes

| Filename | Run Time | ISD Compound | Area/RT | Area Range | RT Range |
|---------------------|----------------|------------------------|---------------|------------------|--------------|
| spcc17a.d | 08/17/04 14:47 | Pentafluorobenzene | 2052590/ 6.99 | 1026295- 4105180 | 6.49- 7.49 |
| | | 1,4-Difluorobenzene | 2450441/ 7.98 | 1225221- 4900882 | 7.48- 8.48 |
| | | Chlorobenzene-D5 | 1190078/12.42 | 595039- 2380156 | 11.92-12.92 |
| | | 1,4-Dichlorobenzene-D4 | 1332320/16.83 | 666160- 2664640 | 16.33-17.33 |
| Total Outliers: N/A | | | | | |
| 1839011.d | 08/17/04 15:36 | Pentafluorobenzene | 1839048/ 7.00 | Ratio: 0.896 | Diff.: 0.01 |
| | | 1,4-Difluorobenzene | 2214863/ 7.97 | Ratio: 0.904 | Diff.: -0.01 |
| | | Chlorobenzene-D5 | 1124468/12.42 | Ratio: 0.945 | Diff.: 0.00 |
| | | 1,4-Dichlorobenzene-D4 | 1306488/16.83 | Ratio: 0.981 | Diff.: 0.00 |
| Total Outliers: 0 | | | | | |
| 1838101.d | 08/17/04 16:40 | Pentafluorobenzene | 1936379/ 7.00 | Ratio: 0.943 | Diff.: 0.01 |
| | | 1,4-Difluorobenzene | 2344552/ 7.98 | Ratio: 0.957 | Diff.: 0.00 |
| | | Chlorobenzene-D5 | 1107156/12.42 | Ratio: 0.930 | Diff.: 0.00 |
| | | 1,4-Dichlorobenzene-D4 | 1153543/16.83 | Ratio: 0.866 | Diff.: 0.00 |
| Total Outliers: 0 | | | | | |
| 1838201.d | 08/17/04 17:14 | Pentafluorobenzene | 2016051/ 6.99 | Ratio: 0.982 | Diff.: 0.00 |
| | | 1,4-Difluorobenzene | 2469246/ 7.97 | Ratio: 1.008 | Diff.: -0.01 |
| | | Chlorobenzene-D5 | 1203341/12.42 | Ratio: 1.011 | Diff.: 0.00 |
| | | 1,4-Dichlorobenzene-D4 | 1252153/16.84 | Ratio: 0.940 | Diff.: 0.01 |
| Total Outliers: 0 | | | | | |
| 1830304.d | 08/17/04 17:48 | Pentafluorobenzene | 2006210/ 7.00 | Ratio: 0.977 | Diff.: 0.01 |
| | | 1,4-Difluorobenzene | 2471026/ 7.98 | Ratio: 1.008 | Diff.: 0.00 |
| | | Chlorobenzene-D5 | 1169194/12.42 | Ratio: 0.982 | Diff.: 0.00 |
| | | 1,4-Dichlorobenzene-D4 | 1212323/16.84 | Ratio: 0.910 | Diff.: 0.01 |
| Total Outliers: 0 | | | | | |
| 1830305.d | 08/17/04 18:21 | Pentafluorobenzene | 1994976/ 6.99 | Ratio: 0.972 | Diff.: 0.00 |
| | | 1,4-Difluorobenzene | 2523644/ 7.98 | Ratio: 1.030 | Diff.: 0.00 |
| | | Chlorobenzene-D5 | 1224447/12.43 | Ratio: 1.029 | Diff.: 0.01 |
| | | 1,4-Dichlorobenzene-D4 | 1291927/16.84 | Ratio: 0.970 | Diff.: 0.01 |
| Total Outliers: 0 | | | | | |
| spcc17b.d | 08/17/04 19:29 | Pentafluorobenzene | 1989011/ 7.00 | 994506- 3978022 | 6.50- 7.50 |
| | | 1,4-Difluorobenzene | 2556211/ 7.98 | 1278106- 5112422 | 7.48- 8.48 |
| | | Chlorobenzene-D5 | 1140447/12.43 | 570224- 2280894 | 11.93-12.93 |
| | | 1,4-Dichlorobenzene-D4 | 1174327/16.84 | 587164- 2348654 | 16.34-17.34 |
| Total Outliers: N/A | | | | | |
| ics-w17a.d | 08/17/04 20:03 | Pentafluorobenzene | 2032129/ 7.00 | Ratio: 1.022 | Diff.: 0.00 |
| | | 1,4-Difluorobenzene | 2591084/ 7.98 | Ratio: 1.014 | Diff.: 0.00 |
| | | Chlorobenzene-D5 | 1215569/12.43 | Ratio: 1.066 | Diff.: 0.00 |
| | | 1,4-Dichlorobenzene-D4 | 1209241/16.84 | Ratio: 1.030 | Diff.: 0.00 |
| Total Outliers: 0 | | | | | |
| 1830203m.d | 08/17/04 20:37 | Pentafluorobenzene | 2060958/ 7.00 | Ratio: 1.036 | Diff.: 0.00 |
| | | 1,4-Difluorobenzene | 2620587/ 7.98 | Ratio: 1.025 | Diff.: 0.00 |
| | | Chlorobenzene-D5 | 1216537/12.43 | Ratio: 1.067 | Diff.: 0.00 |
| | | 1,4-Dichlorobenzene-D4 | 1224477/16.84 | Ratio: 1.043 | Diff.: 0.00 |
| Total Outliers: 0 | | | | | |
| 1830203n.d | 08/17/04 21:11 | Pentafluorobenzene | 2121423/ 6.99 | Ratio: 1.067 | Diff.: -0.01 |
| | | 1,4-Difluorobenzene | 2692379/ 7.98 | Ratio: 1.053 | Diff.: 0.00 |
| | | Chlorobenzene-D5 | 1197050/12.43 | Ratio: 1.050 | Diff.: 0.00 |
| | | 1,4-Dichlorobenzene-D4 | 1307983/16.84 | Ratio: 1.114 | Diff.: 0.00 |
| Total Outliers: 0 | | | | | |
| w-17a.d | 08/17/04 21:45 | Pentafluorobenzene | 2160710/ 6.99 | Ratio: 1.086 | Diff.: -0.01 |
| | | 1,4-Difluorobenzene | 2704439/ 7.98 | Ratio: 1.058 | Diff.: 0.00 |
| | | Chlorobenzene-D5 | 1213692/12.43 | Ratio: 1.064 | Diff.: 0.00 |
| | | 1,4-Dichlorobenzene-D4 | 1315544/16.84 | Ratio: 1.120 | Diff.: 0.00 |
| Total Outliers: 0 | | | | | |

Form 8: Internal Standard Area and Retention Time Summary

GC Column: VOCOL/L:60m/D:0.53mm
 Instrument ID: vol.01.Phyrexia

Analytical Batch: 040817a.1
 Heated Purge: Yes

| Filename | Run Time | ISD Compound | Area/RT | Area Range | RT Range |
|--------------------------|----------------|------------------------|---------------|--------------|--------------|
| blk-w17a.d | 08/17/04 22:18 | Pentafluorobenzene | 2095287/ 6.99 | Ratio: 1.053 | Diff.: -0.01 |
| | | 1,4-Difluorobenzene | 2729309/ 7.98 | Ratio: 1.068 | Diff.: 0.00 |
| | | Chlorobenzene-D5 | 1190725/12.42 | Ratio: 1.044 | Diff.: -0.01 |
| | | 1,4-Dichlorobenzene-D4 | 1211672/16.85 | Ratio: 1.032 | Diff.: 0.01 |
| Total Outliers: 0 | | | | | |
| 1830201.d | 08/17/04 22:52 | Pentafluorobenzene | 2178727/ 7.00 | Ratio: 1.095 | Diff.: 0.00 |
| | | 1,4-Difluorobenzene | 2717124/ 7.98 | Ratio: 1.063 | Diff.: 0.00 |
| | | Chlorobenzene-D5 | 1187410/12.43 | Ratio: 1.041 | Diff.: 0.00 |
| | | 1,4-Dichlorobenzene-D4 | 1265665/16.84 | Ratio: 1.078 | Diff.: 0.00 |
| Total Outliers: 0 | | | | | |
| 1830202.d | 08/17/04 23:26 | Pentafluorobenzene | 2312819/ 7.00 | Ratio: 1.163 | Diff.: 0.00 |
| | | 1,4-Difluorobenzene | 2847679/ 7.98 | Ratio: 1.114 | Diff.: 0.00 |
| | | Chlorobenzene-D5 | 1236841/12.43 | Ratio: 1.085 | Diff.: 0.00 |
| | | 1,4-Dichlorobenzene-D4 | 1328193/16.84 | Ratio: 1.131 | Diff.: 0.00 |
| Total Outliers: 0 | | | | | |
| 1830203.d | 08/18/04 00:00 | Pentafluorobenzene | 2163618/ 7.00 | Ratio: 1.088 | Diff.: 0.00 |
| | | 1,4-Difluorobenzene | 2765987/ 7.98 | Ratio: 1.082 | Diff.: 0.00 |
| | | Chlorobenzene-D5 | 1207031/12.43 | Ratio: 1.058 | Diff.: 0.00 |
| | | 1,4-Dichlorobenzene-D4 | 1233897/16.85 | Ratio: 1.051 | Diff.: 0.01 |
| Total Outliers: 0 | | | | | |
| 1830301.d | 08/18/04 00:34 | Pentafluorobenzene | 2164209/ 6.99 | Ratio: 1.088 | Diff.: -0.01 |
| | | 1,4-Difluorobenzene | 2686744/ 7.98 | Ratio: 1.051 | Diff.: 0.00 |
| | | Chlorobenzene-D5 | 1172100/12.43 | Ratio: 1.028 | Diff.: 0.00 |
| | | 1,4-Dichlorobenzene-D4 | 1258261/16.84 | Ratio: 1.071 | Diff.: 0.00 |
| Total Outliers: 0 | | | | | |
| 1830302.d | 08/18/04 01:08 | Pentafluorobenzene | 2253203/ 6.99 | Ratio: 1.133 | Diff.: -0.01 |
| | | 1,4-Difluorobenzene | 2879264/ 7.98 | Ratio: 1.126 | Diff.: 0.00 |
| | | Chlorobenzene-D5 | 1223291/12.43 | Ratio: 1.073 | Diff.: 0.00 |
| | | 1,4-Dichlorobenzene-D4 | 1297042/16.84 | Ratio: 1.104 | Diff.: 0.00 |
| Total Outliers: 0 | | | | | |
| 1830303.d | 08/18/04 01:42 | Pentafluorobenzene | 2176139/ 6.99 | Ratio: 1.094 | Diff.: -0.01 |
| | | 1,4-Difluorobenzene | 2691466/ 7.99 | Ratio: 1.053 | Diff.: 0.01 |
| | | Chlorobenzene-D5 | 1182068/12.43 | Ratio: 1.036 | Diff.: 0.00 |
| | | 1,4-Dichlorobenzene-D4 | 1239032/16.84 | Ratio: 1.055 | Diff.: 0.00 |
| Total Outliers: 0 | | | | | |
| 1831401.d | 08/18/04 02:16 | Pentafluorobenzene | 2155643/ 7.00 | Ratio: 1.084 | Diff.: 0.00 |
| | | 1,4-Difluorobenzene | 2617561/ 7.99 | Ratio: 1.024 | Diff.: 0.01 |
| | | Chlorobenzene-D5 | 1080047/12.42 | Ratio: 0.947 | Diff.: -0.01 |
| | | 1,4-Dichlorobenzene-D4 | 1109805/16.85 | Ratio: 0.945 | Diff.: 0.01 |
| Total Outliers: 0 | | | | | |
| 1831402.d | 08/18/04 02:50 | Pentafluorobenzene | 2174595/ 7.00 | Ratio: 1.093 | Diff.: 0.00 |
| | | 1,4-Difluorobenzene | 2696535/ 7.98 | Ratio: 1.055 | Diff.: 0.00 |
| | | Chlorobenzene-D5 | 1083884/12.43 | Ratio: 0.950 | Diff.: 0.00 |
| | | 1,4-Dichlorobenzene-D4 | 1145897/16.84 | Ratio: 0.976 | Diff.: 0.00 |
| Total Outliers: 0 | | | | | |
| 1831403.d | 08/18/04 03:24 | Pentafluorobenzene | 2165416/ 6.99 | Ratio: 1.089 | Diff.: -0.01 |
| | | 1,4-Difluorobenzene | 2615224/ 7.98 | Ratio: 1.023 | Diff.: 0.00 |
| | | Chlorobenzene-D5 | 1093876/12.43 | Ratio: 0.959 | Diff.: 0.00 |
| | | 1,4-Dichlorobenzene-D4 | 1112001/16.84 | Ratio: 0.947 | Diff.: 0.00 |
| Total Outliers: 0 | | | | | |
| 1831404.d | 08/18/04 03:58 | Pentafluorobenzene | 2178076/ 7.00 | Ratio: 1.095 | Diff.: 0.00 |
| | | 1,4-Difluorobenzene | 2720528/ 7.98 | Ratio: 1.064 | Diff.: 0.00 |
| | | Chlorobenzene-D5 | 1144820/12.43 | Ratio: 1.004 | Diff.: 0.00 |
| | | 1,4-Dichlorobenzene-D4 | 1217762/16.85 | Ratio: 1.037 | Diff.: 0.01 |
| Total Outliers: 0 | | | | | |

Form 8: Internal Standard Area and Retention Time Summary

GC Column: VOCOL/L:60m/D:0.53mm
Instrument ID: vol.01.Phyrexia

Analytical Batch: 040817a.1
Heated Purge: Yes

| Filename | Run Time | ISD Compound | Area/RT | Area Range | RT Range |
|--------------------------|----------------|------------------------|---------------|--------------|--------------|
| 1831405.d | 08/18/04 04:32 | Pentafluorobenzene | 2158291/ 6.99 | Ratio: 1.085 | Diff.: -0.01 |
| | | 1,4-Difluorobenzene | 2827036/ 7.99 | Ratio: 1.106 | Diff.: 0.01 |
| | | Chlorobenzene-D5 | 1172869/12.43 | Ratio: 1.028 | Diff.: 0.00 |
| | | 1,4-Dichlorobenzene-D4 | 1236020/16.85 | Ratio: 1.053 | Diff.: 0.01 |
| Total Outliers: 0 | | | | | |
| 1832001.d | 08/18/04 05:06 | Pentafluorobenzene | 2209280/ 7.00 | Ratio: 1.111 | Diff.: 0.00 |
| | | 1,4-Difluorobenzene | 2851354/ 7.98 | Ratio: 1.115 | Diff.: 0.00 |
| | | Chlorobenzene-D5 | 1191455/12.43 | Ratio: 1.045 | Diff.: 0.00 |
| | | 1,4-Dichlorobenzene-D4 | 1225048/16.85 | Ratio: 1.043 | Diff.: 0.01 |
| Total Outliers: 0 | | | | | |
| 1832002.d | 08/18/04 05:40 | Pentafluorobenzene | 2143046/ 7.00 | Ratio: 1.077 | Diff.: 0.00 |
| | | 1,4-Difluorobenzene | 2822475/ 7.98 | Ratio: 1.104 | Diff.: 0.00 |
| | | Chlorobenzene-D5 | 1178874/12.43 | Ratio: 1.034 | Diff.: 0.00 |
| | | 1,4-Dichlorobenzene-D4 | 1215059/16.84 | Ratio: 1.035 | Diff.: 0.00 |
| Total Outliers: 0 | | | | | |
| 1832003.d | 08/18/04 06:14 | Pentafluorobenzene | 2157952/ 7.00 | Ratio: 1.085 | Diff.: 0.00 |
| | | 1,4-Difluorobenzene | 2924541/ 7.98 | Ratio: 1.144 | Diff.: 0.00 |
| | | Chlorobenzene-D5 | 1209764/12.43 | Ratio: 1.061 | Diff.: 0.00 |
| | | 1,4-Dichlorobenzene-D4 | 1234968/16.84 | Ratio: 1.052 | Diff.: 0.00 |
| Total Outliers: 0 | | | | | |
| 1838001.d | 08/18/04 06:48 | Pentafluorobenzene | 2174843/ 7.00 | Ratio: 1.093 | Diff.: 0.00 |
| | | 1,4-Difluorobenzene | 2832829/ 7.99 | Ratio: 1.108 | Diff.: 0.01 |
| | | Chlorobenzene-D5 | 1178663/12.43 | Ratio: 1.034 | Diff.: 0.00 |
| | | 1,4-Dichlorobenzene-D4 | 1205655/16.85 | Ratio: 1.027 | Diff.: 0.01 |
| Total Outliers: 0 | | | | | |

KEY:

[Area/RT]: Absolute area (counts) and absolute retention time (minutes) of internal standard
 [Area Range]: 50% to 200% of relative internal standard area
 [RT Range]: +/- 0.5 minutes of relative internal standard RT
 [Ratio]: Ratio of internal standard areas
 [Diff]: Difference in internal standard retention times (minutes)

CONTROL LIMITS:

Area UCL/LCL = 50% to 200% of internal standard area
 RT UCL/LCL = +/- 0.5 minutes of internal standard RT