US EPA RECORDS CENTER REGION 5
489507

November 11, 2008

CERTIFIED MAIL NO. 7003 0500 0003 3623 2909

Kenneth Theisen (HSE-5J)
USEPA - Region 5
77 West Jackson Blvd
Chicago, IL 60604-3590

RE: Accra Pac / Warner Baker Site
Civil Action #H89-0113
Semi-Annual Progress Report, Fall 2008

Dear Mr. Theisen:

Transmitted herewith is the fall 2008 Semi-Annual Progress Report with the enclosed Semi-Annual Groundwater Monitoring Report for the Accra Pac Group / Warner Baker property (the Site) located at 2626 Industrial Parkway in Elkhart, Indiana. This Semi-Annual Progress Report is submitted by Heartland Environmental Associates, Inc., (Heartland) in accordance with the Consent Decree and with your subsequent instructions concerning the submittal of progress reports.

System Operation

The groundwater sparge and soil vapor extraction (SVE) remediation systems at the Site have been in continuous operation since the previous monitoring event in March 2008, except for a brief shut down during September 15-to-16, 2008, in order to conduct the subject semi-annual monitoring on September 16, 2008.

Sampling Results

The results of the most recent semi-annual groundwater monitoring, which was conducted on September 16, 2008, are provided in the enclosed Semi-Annual Groundwater Monitoring Report. The most significant contaminant concentrations are present in monitoring wells MW-15 and MW-10B. As is indicated in the report, the overall total Compliance VOC concentrations have declined at the Site during the last year of operation of the sparge and SVE systems. However, clean-up objectives have not yet been met (see below).

Clean Up Progress and Closure Status

The established groundwater cleanup standard for this Site is 5% of the baseline concentration (95% removal) of the initially detected fifteen Volatile Organic Compounds (i.e. the "Compliance VOC concentration" or "VOC 15"). The Compliance VOC concentration at the Site is presently at roughly 11% of the baseline concentration (89% removal). The enclosed figure titled "Groundwater Cleanup Progress" (the Progress Chart) charts the progress of the overall groundwater cleanup at the Site since 1999. The SVE system began operation on June 25, 1998; and the sparge system began operation on July 15, 2000. As shown on the Progress Chart, the start of the operation of the sparge system reversed a trend of steadily increasing Compliance VOC concentrations, and the Compliance VOC concentrations then decreased substantially during the first 1.5 years following the start of the operation of the sparge system. Since then, the Compliance VOC concentrations have fluctuated between about 26% and 9% of the baseline concentration (about 74% and 91% removal). In order to target the most significant contaminant concentrations in the areas of monitoring wells MW-15 and MW-10B, two additional sparge wells were installed in late 2004. The new sparge wells were placed at a shallower depth (45 feet) than the original sparge wells (65 feet). This was an effort to reach an area where the effectiveness of the existing, deeper wells may have been limited by the complex geology of the southwest corner of the Site.

Fluctuations in the Compliance VOC concentrations during 2005 to 2007 made it difficult to determine if the sparge and SVE systems were having a positive effect at further reducing the overall Compliance VOC concentrations despite the installation of the newer sparge wells. Much of the fluctuations in concentrations could be explained by rebound effects following the previous winter shut downs of the systems. The winter shut downs had been conducted in order to avoid freeze damage to the above-ground system piping. In order to improve the effectiveness of the remediation, an effort was made to operate the systems as much as possible during the winter of 2007-2008. The approach was to only shut off the systems during periods of very cold weather (e.g. when high air temperatures were predicted to be below about 20°F) and to operate the systems during periods of warmer weather during the winter. Following this approach, the systems were operated during much of the winter of 2007-2008 and then continuously since March 2008. As was documented in the previous semi-annual report for the March 2008 monitoring event and in the enclosed report for the recent September 2008 monitoring event, the monitoring results during 2008 indicate that the operation of the systems during the winter of 2007-2008 successfully avoided the rebound effects caused by the previous winter shut downs and that the overall total Compliance VOC concentrations have declined at the Site during the last year of operation. Therefore, it is planned that the remediation systems will be operated as much as possible during the upcoming winter season of 2008-2009 to avoid the rebound effect and to continue to achieve an overall decrease in the VOC concentrations.

Deliverables

The next semi-annual progress report will be submitted after the results of the March 2009 semi-annual groundwater monitoring are available.

Should you have any questions concerning this report or its enclosures, please feel free to call me at (574) 289-1191 or email me at jcsporleder@heartlandenv.com .

Sincerely,

HEARTLAND ENVIRONMENTAL ASSOCIATES, INC.

J. C. Sporleder, L.P.G.
Senior Project Geologist

JCS:jcs

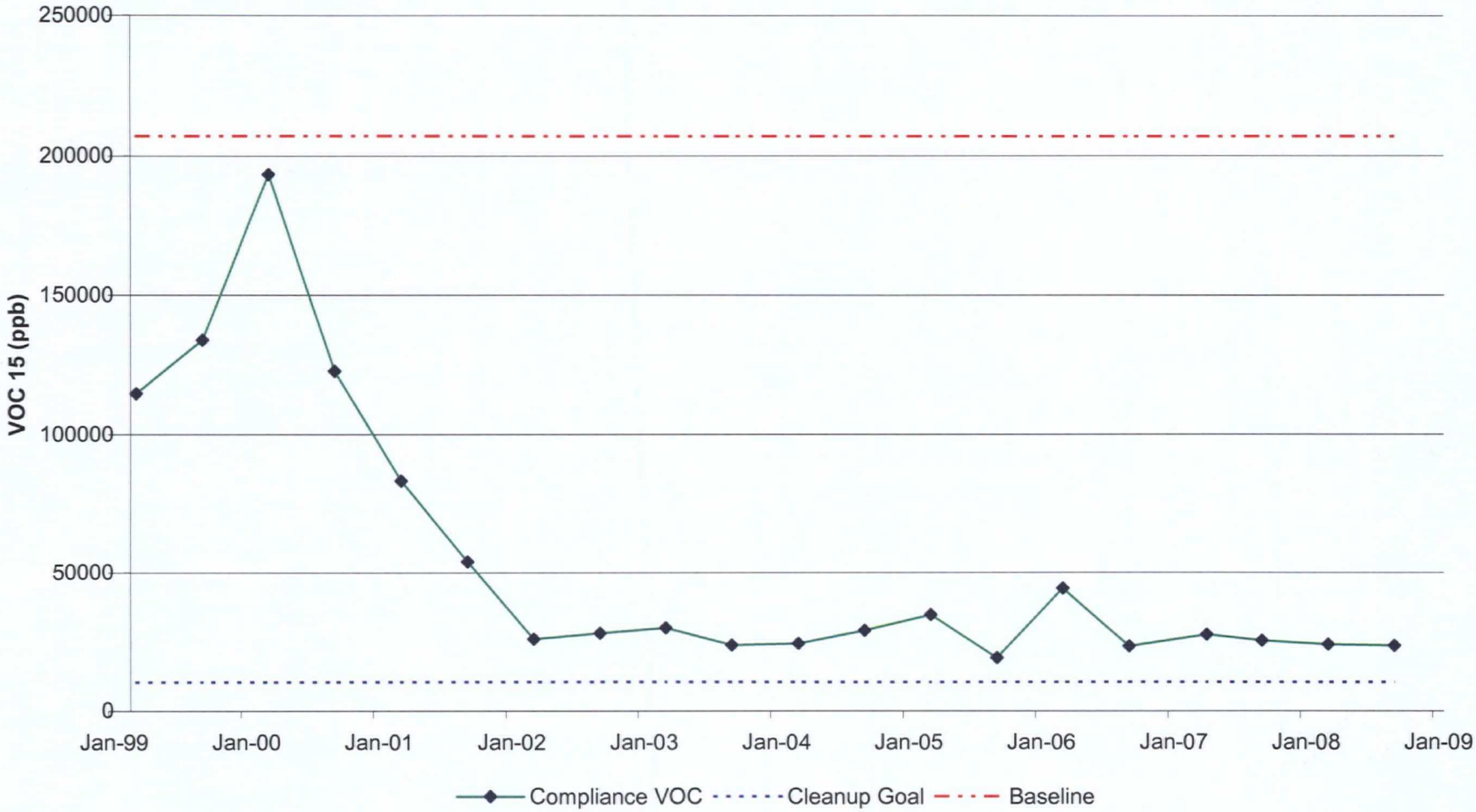
Enclosures:

- Groundwater Cleanup Progress Chart.
- Semi-Annual Groundwater Monitoring Report.

cc: John Wingard, KIK Custom Products / Accra Pac Group
Malcolm J. Tuesley, Esq.

GROUNDWATER CLEANUP PROGRESS CHART

Groundwater Cleanup Progress
Warner Baker Site
VOC 15 Site Total



1092-08-01-FIG081107JCS

SEMI-ANNUAL GROUNDWATER MONITORING REPORT

SEMI-ANNUAL
GROUNDWATER MONITORING
SEPTEMBER 2008
2626 INDUSTRIAL PARKWAY
ELKHART, INDIANA

N0VEMBER 11, 2008

PREPARED FOR
KIK CUSTOM PRODUCTS / ACCRA PAC GROUP

PREPARED BY
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1.0 INTRODUCTION

This report concerns the September 16, 2008, semi-annual groundwater monitoring conducted by Heartland Environmental Associates, Inc., (Heartland) of South Bend, Indiana, for the property located at 2626 Industrial Parkway, Elkhart, Indiana (the Site). This report was prepared by Heartland on behalf of KIK Custom Products / Accra Pac Group.

The purpose of the semi-annual monitoring is to determine groundwater contamination concentrations at compliance wells for comparison to baseline groundwater test results in order to determine when groundwater remediation is complete. Table 1.1 lists the monitoring wells used for baseline and compliance groundwater monitoring. The subject September 16, 2008, monitoring was performed by Heartland in accordance with the May 13, 1996, EIS Environmental Engineers, Inc., (EIS) report "Predesign and Compliance Monitoring Plan, Accra Pac Group/Warner Baker Site consent Decree, Civil Action No. H89-0113." Baseline groundwater monitoring was previously conducted by EIS on September 30, 1996. A report concerning the baseline-monitoring event was submitted by EIS to the US EPA on October 31, 1996.

The vapor extraction system was installed at the Site in accordance with the Final Design Submittal dated November 25, 1997. The operation of the vapor extraction system was initiated on June 25, 1998. A sparge system was installed at the Site during June 2000 and began operation on July 15, 2000. Two additional sparge wells were installed at the Site in October 2004, and became operational on November 1, 2004.

Historically, with the exception of the winter of 2003-2004, when the sparge system was operated through the winter, the vapor extraction system and the sparge system were previously operated during the spring, summer and fall seasons and were shut off during the winter season. The systems were previously shut off during the winter seasons in order to prevent freeze damage to the systems. However, since about 2005 it was observed that total Compliance VOC concentrations in the groundwater in the spring typically increased relative to the total Compliance VOC concentrations in the preceding fall. It was reasoned that the increases in the spring were a rebound effect likely caused by the systems being shutdown during the winter season. Therefore, in order to improve the effectiveness of the remediation, an effort was made to operate the systems as much as possible during the winter of 2007-2008. The approach was to only shut off the systems during periods of very cold weather (e.g. when high air temperatures were predicted to be below about 20°F) and to operate the systems during periods of warmer weather during the winter. Following this approach, the systems were operated after the fall 2008 sampling event on September 17, 2007, until December 29, 2007; from January 7, 2008, until January 18, 2008; and from February 4, 2008, until February 11, 2008. The systems re-started on March 24, 2008, after the spring 2008 sampling event on March 20, 2008, and then were in continuous operation

TABLE 1.1
MONITORING WELLS FOR BASELINE AND COMPLIANCE MONITORING

WELL ID	SCREENED DEPTH BELOW GRADE (feet)	RELATIVE LOCATION OF WELL	PURPOSE
MW-1	16.3 - 26.3[1]	Upgradient of site	Baseline
MW-4	16.8 - 26.8[1]	Downgradient center of site	Baseline, Compliance
MW-7	30.0 - 40.0	Downgradient, northeast corner of site	Baseline, Compliance
MW-10B	49.5 - 54.5	Downgradient, northwest corner of site	Baseline, Compliance
MW-14	41.5 - 46.5	Adjacent to east pit	Baseline, Compliance
MW-15	39.7 - 44.7	Adjacent to west pit	Baseline, Compliance

Notes:

(1) The screened depths for wells MW-1 and MW-4 are estimated from measured well depths and assume a ten-foot screened interval at the bottom of each well.

until they were shut off on September 15, 2008, prior to the fall 2008 sampling event on September 16, 2008. The systems were not in operation at the time of the subject September 16, 2008, sampling event, and had not been in operation for at least twenty four (24) hours prior to the September 16, 2008, sampling event. The systems were re-started on September 16, 2008, after the September 2008 sampling event and have been in continuous operation since the September 16, 2008, sampling event.

The results of the subject September 16, 2008, sampling event, as well as a comparison of the results with established clean-up levels, are presented in Section 4.0 of this report. Overall, the total Compliance VOC concentrations have declined at the Site during the last year of operation of the systems. However, the objective clean-up limits were not achieved as of the September 16, 2008, monitoring event. Therefore, remediation and semi-annual monitoring will continue. The next semi-annual groundwater sampling event is scheduled for March 2009.

As was documented in the previous report concerning the spring 2008 semi-annual monitoring, some minor freeze damage to the above-ground piping of the systems that required repair occurred as a result of operating the systems during the winter of 2007-2008. However, as was documented in that previous report, the results of spring 2008 sampling event did not indicate an increase of total Compliance VOC concentrations relative to the results of the preceding fall 2007 sampling event. This suggested that the operation of the systems during the winter of 2007-2008 had a positive effect on the remediation effort by avoiding the rebound of VOC concentrations that had been observed after previous winter shutdowns of the systems. Therefore, it is planned that the systems will be operated as much as possible during the upcoming winter of 2008-2009.

2.0 FIELD SAMPLING INFORMATION

Heartland collected groundwater samples on September 16, 2008, from the compliance monitoring wells MW-4, MW-7, MW-10B, MW-14 and MW-15 at the Site. A field duplicate with extra volume for matrix spike/duplicate matrix spike analysis was collected from well MW-7. Each sample was collected with a Teflon bailer immediately after purging three well volumes of water with a PVC bailer. The sampling equipment was washed with non-phosphate detergent and triple rinsed with de-ionized water prior to each collection. The purge water was contained on-site for subsequent off-site disposal. Details regarding the collection of each sample were recorded on monitoring well sampling forms which are provided in Appendix C.

Chain-of-custody records were maintained by Heartland staff and are provided in Appendix B. All samples were shipped overnight for morning delivery on September 16, 2008, to the TestAmerica, Inc., laboratory in Dayton, Ohio.

3.0 GROUNDWATER FLOW DIRECTIONS

On September 16, 2008, Heartland determined the static water levels (SWL) at the Site by measuring the depth to groundwater from the top of well casings to 0.01 foot. The SWL were measured at 13 wells at the Site, at well MW-1 located south of the Site, and at wells MW-12 and MW-13 located on the property adjacent to the east side of the Site. The SWL depth measurements for all 16 wells were completed in about a 1-hour period of time and prior to the start of well sampling activities. The vapor extraction and sparge systems were shut off for at least 24 hours prior to measuring the SWL. Table 3.1 provides a summary of the SWL data. Figure 3.1 shows the SWL surface contours and groundwater flow directions at the Site as indicated by the September 16, 2008, SWL data. The groundwater flow directions show that compliance wells MW-4, MW-7, MW-10B, MW-14 and MW-15 are generally downgradient with respect to the previously identified contaminant source areas in the vicinity of the two former pits at the Site.

It is noted that groundwater elevations at the Site on September 16, 2008, were more than one (1) foot higher than previously observed historic high groundwater elevations (see static water level elevation trend graphs in Appendix D) and that the off-site retention basin located near the southwest corner of the Site was flooded at the time of the September 16, 2008, sampling event. The flooded retention basin and high groundwater elevations at the Site are believed to be the result of record rainfalls that the region experienced on September 13 and 14, 2008, that were caused by the remnants of a hurricane that moved from the Gulf of Mexico over the continental United States. As shown in Figure 3.1, the flooded retention basin evidently was actively recharging to the groundwater on September 16, 2008, and this recharge caused a groundwater flow direction pattern in the southwest corner of the Site that is atypical compared to most historically observed groundwater flow patterns at the Site. However, the overall groundwater flow patterns observed for the rest of the Site were typical compared to most historically observed groundwater flow patterns at the Site. Therefore, the atypical groundwater flow pattern observed in the southwest corner of the Site evidently did not change the relative downgradient position of the sampled monitoring wells with respect to the previously identified contaminant source areas in the vicinity of the two former pits at the Site.

TABLE 3.1
STATIC WATER LEVEL DEPTH AND ELEVATION BASELINE DATA SEPTEMBER 16, 2008

Well I.D.	Time of Check	SWL Depth from TOC[2] (Feet)	TOC[3] [4] Elev. (Feet, N.G.V.D.)	SWL[4] Elev. (Feet, N.G.V.D.)
MW-1	10:18 A.M.	8.83	755.75	746.92
MW-3	11:02 A.M.	9.78	756.41	746.63
MW-4	11:08 A.M.	9.52	756.115	746.60
MW-5	10:27 A.M.	4.87	751.74	746.87
MW-5B	10:25 A.M.	4.71	751.54	746.83
MW-6	10:22 A.M.	4.06	750.94	746.88
MW-7	10:56 A.M.	9.57	756.015	746.45
MW-8	10:50 A.M.	5.14	752.02	746.88
MW-9	10:54 A.M.	9.03	755.66	746.63.
MW-10	11:00 A.M.	10.47	756.815	746.35
MW-10B	10:59 A.M.	7.48	753.835	746.36
MW-11	11:08 A.M.	6.16	753.53	747.37
MW-12	10:43 A.M.	6.53	753.145	746.62
MW-13	10:40 A.M.	4.21	750.915	746.71
MW-14	11:14 A.M.	9.76	756.47	746.71
MW-15	11:12 A.M.	8.99	755.75	746.76

Notes:

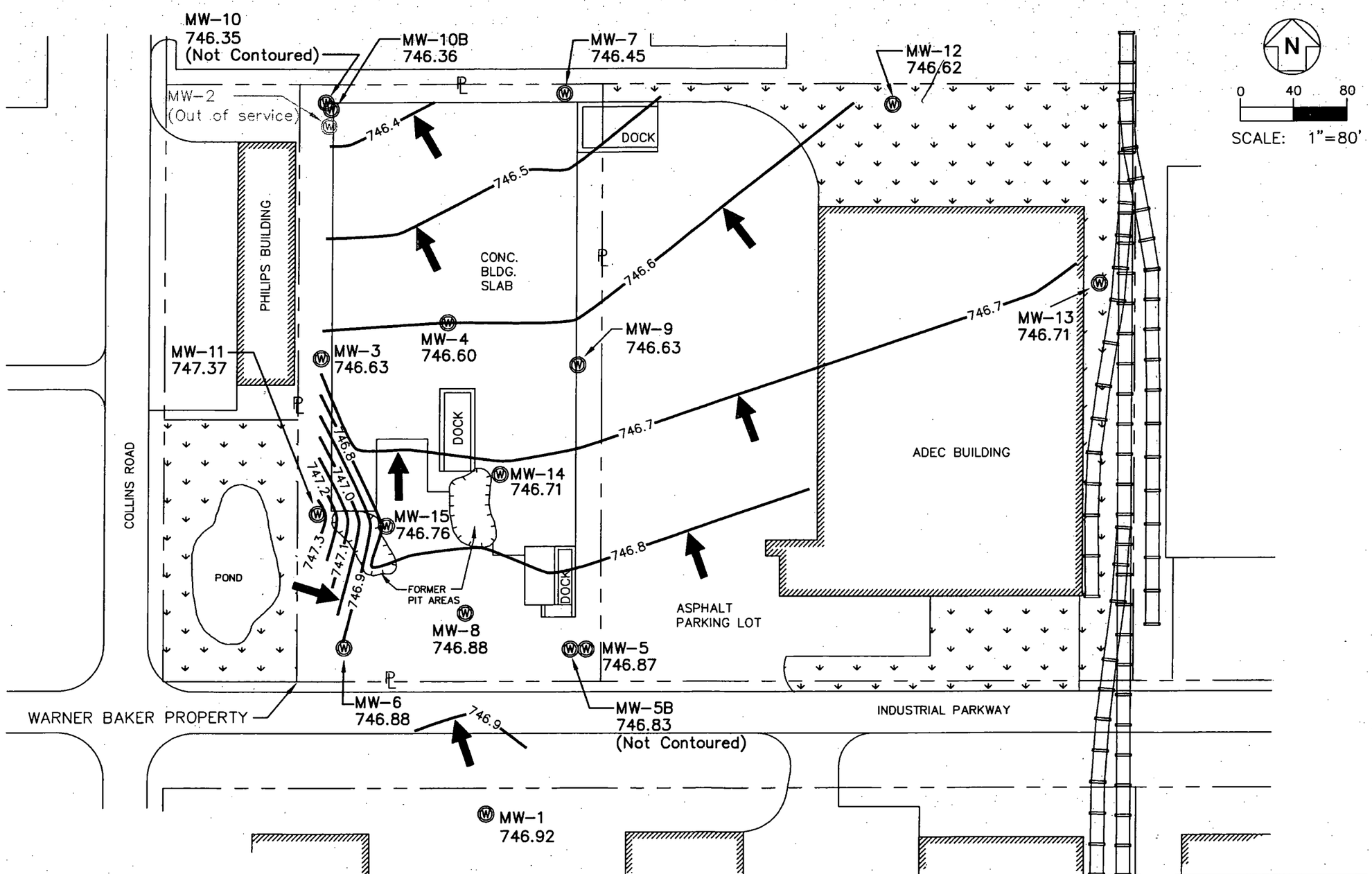
(1) SWL = Static Water Level.

(2) TOC = Top of Well Casing.

(3) TOC Elev. = TOC Elevation per EIS Survey of March 22, 2001.

(4) SWL Elev. = SWL Elevation.

(5) The sparge system and SVE system were shut off on September 15, 2008, and restarted on September 16, 2008, after the SWL checks and sampling were completed on September 16, 2008. The systems were shut off more than 24 hours prior to the static water level checks and sampling on September 16, 2008.



LEGEND

MW-1 746.92	Monitoring well location and groundwater elevation in feet (NGVD) as measured on September 16, 2008. All measurements were made within a one (1) hour time period.
—℄—	Property line.
	Groundwater flow direction.
746.5	Groundwater elevation contour in feet (NGVD). Contour interval is 0.1 foot.
	Former pit areas from previous remediation efforts at the site. The pits are now filled, and a Sparge/SVE remediation system is in this general area.

Drawn	JMS
Approved	JCS
Date	SEPT. 2008
Proj.No.	1092-08-01
Sheet No.	FIGURE 3.1

FIGURE 3.1

ACCRA PAC
2626 INDUSTRIAL PARKWAY, ELKHART INDIANA
GROUNDWATER FLOW DIRECTION MAP
SEPTEMBER 16, 2008

HEARTLAND ENVIRONMENTAL ASSOCIATES, INC.
3410 Mishawaka Ave. South Bend, IN 46615
Tele. (574) 289-1191 Fax. (574) 289-7480

P:\EIS PROJECTS\ACCRA PAC\AutoCAD\10920801-Accra Pac-SWL-091608.dwg, 9/30/2008 12:06:18 PM, Heartland Env. Assoc., Inc.

4.0 ANALYTICAL RESULTS

4.1 Analytical Results

Analytical reports, with Quality Control and Quality Assurance data, for each sample collected are provided in Appendix A. A summary of the analytical results from the September 16, 2008, monitoring event is provided in Table 4.1. Trend graphs showing the concentrations over time are provided in Appendix D.

4.2 Comparison of Results with Established Clean-up Levels

The baseline analytical results for groundwater from compliance wells MW-4, MW-7, MW-10B, MW-14 and MW-15 were established during the September 30, 1996, baseline groundwater monitoring event. The 1996 baseline results are used to evaluate the results from compliance monitoring in order to determine if remediation is complete. The details for the evaluation procedure are provided in Section 2.0 of the May 13, 1996, EIS report "Predesign and Compliance Monitoring Plan." According to the terms of the Consent Order, the groundwater remediation will be considered complete when the total groundwater VOC concentrations at the compliance wells have stabilized at a 95% reduction of the total baseline VOC concentrations. On November 28, 2001, EIS requested that the USEPA clarify the appropriate procedure to calculate the 95% reduction of the total baseline VOC concentrations. In response to this request, Mr. Kenneth Theisen, the USEPA - Region 5 project manager, clarified that the remediation completion criteria would be based on the sum of VOC concentrations at all the compliance wells. Therefore, groundwater remediation will be considered complete when the sum of the total groundwater VOC concentrations determined by the compliance wells MW-4, MW-7, MW-10B, MW-14 and MW-15 have stabilized at a 95% reduction of the sum of the total baseline VOC concentrations for these wells. The total VOC concentrations, known as "VOC 15," are the sum of the analytical results for the following 15 VOC parameters:

1,2-Dichlorobenzene	Toluene
1,1-Dichloroethane	1,1,1-Trichloroethane
1,2-Dichloroethane	Trichloroethene
1,1-Dichloroethene	Trichlorofluoromethane
c-1,2-Dichloroethene	1,1,2-Trichlorotrifluoroethane
Dichlorofluoromethane	Vinyl Chloride
Ethylbenzene	Xylenes
Tetrachloroethene	

For the purposes of determining VOC 15, each parameter for which contamination was not detected is assigned a value of half of the Estimated Quantitation Limit (EQL). A Sample Detection Limit (SDL) may be used if the laboratory reported SDL rather than EQL. Table 4.2 lists the VOC 15 concentrations, associated data, clean-up levels, and an evaluation of whether or not the clean-up limits have been achieved. As is indicated in Table 4.2, the objective clean-up limits were not achieved as of the September 16, 2008, monitoring event. Therefore, remediation and semi-annual monitoring will continue. The next semi-annual groundwater sampling event is scheduled for March 2009.

TABLE 4.1

SUMMARY OF ANALYTICAL RESULTS
SEPTEMBER 16, 2008 [1]

VOC 15 PARAMETERS [2]	RESULT (PPB)					
	WELL/SAMPLE ID					
	MW-4	MW-7	FD(MW-7)[4]	MW-10B	MW-14	MW-15
1,2-Dichlorobenzene	ND	3.30	2.71	ND	ND	ND
1,1-Dichloroethane	30.2	248	270	199	73.5	ND
1,2-Dichloroethane	ND	2.68	2.77	ND	ND	ND
1,1-Dichloroethene	ND	1.63	1.68	2.32	ND	ND
c-1,2-Dichloroethene	ND	17.0	17.9	2.97	3.05	ND
Dichlorofluoromethane	ND	6.77	7.19	17.4	15.0	ND
Ethylbenzene	ND	ND	ND	6.05	2.68	ND
Tetrachloroethene	1.44	6.63	5.53	137	104	ND
Toluene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5.55	26.7	26.3	33.3	25.6	4.07
Trichloroethene	ND	18.4	16.8	3.31	105	ND
Trichlorofluoromethane	1.14	ND	ND	6.21	3.47	ND
1,1,2-Trichlorotrifluoroethane	140	9.57	9.98	3,720	104	18,200
Vinyl Chloride	ND	7.43	7.09	1.09	ND	ND
Xylenes	ND	ND	ND	3.90	ND	ND

Notes:

(1) Semi-annual groundwater monitoring was conducted by Heartland at the site located at 2626 Industrial Parkway, Elkhart, Indiana, on September 16, 2008.

(2) VOC 15 Parameters = The list of 15 Volatile Organic Compounds (VOC) previously detected in groundwater at the Site. In accordance with the May 13, 1996, "Predesign and Compliance Monitoring Plan" the total concentration of these 15 VOC, identified as "VOC 15" is to be used to evaluate remediation at the Site. See text and Table 4.2 for details.

(3) ND = Not Detected. See Analytical Reports in Appendix A for detection limits.

(4) FD = Field Duplicate.

TABLE 4.2
DETERMINATION OF COMPLIANCE VOC 15 CONCENTRATIONS AND COMPARISON WITH BASELINE VOC 15 CONCENTRATIONS AND CLEAN-UP LEVELS [1]
SEPTEMBER 16, 2008, SAMPLING EVENT

	COMPLIANCE WELL/SAMPLE ID													SITE TOTALS
	MW-4			MW-7		FD(MW-7)		MW-10B	MW-14		MW-15			
Detected VOC (ppb)[2]	178.33			348.11		367.95		4,132.55	436.3		18,204.07			
Number Non-Detects[3]	8	1	1	3	1	3	1	3	5	1	11	1	1	
EQL(ppb)[4]	1	2	5	1	2	1	2	1	1	2	1	2	5	↓
Non-Detected VOC (ppb)[5]	8	2	5	3	2	3	2	3	5	2	11	2	5	
½ Non-Detected VOC (ppb)[6]	4	1	2.5	1.5	1	1.5	1	1.5	2.5	1	5.5	1	2.5	
Compliance VOC 15 (ppb)[7]	185.83			350.61		370.45		4,134.05	439.8		18,213.07			23,343.2
Baseline VOC 15 (ppb) from 1996[8]	4,111.6			1,751.6		1,751.6		16,530	99,870		82,850			206,864.8
5% Baseline VOC 15 (ppb) from 1996[9]	205.58			87.58		87.58		826.50	4,993.5		4,142.5			10,343.24
Is Compliance VOC 15 < or = 5% Baseline VOC 15?[10]														NO

Notes: See next page for notes to Table 4.2.

TABLE 4.2 (continued)
DETERMINATION OF COMPLIANCE VOC 15 CONCENTRATIONS AND COMPARISON WITH AND BASELINE VOC 15 CONCENTRATIONS AND CLEAN-UP LEVELS (1)
SEPTEMBER 16, 2008, SAMPLING EVENT

Notes to Table 4.2:

(1) Baseline data were calculated from the analyses of 15 target Volatile Organic Compounds (VOC 15) as obtained from the September 30, 1996, baseline groundwater monitoring event for the site located at 2626 Industrial Parkway, Elkhart, Indiana. See EIS report dated October 31, 1996, regarding the September 1996 baseline event and the May 13, 1996, EIS report, "Predesign and Compliance Monitoring Plan" for details for the determination and use of baseline results in the evaluation of future compliance monitoring results. On November 28, 2001, Mr. Kenneth Theisen, the USEPA – Region 5 project manager, clarified that the remediation completion criteria would be based on the sum of VOC concentrations at all the compliance wells. Therefore, groundwater remediation will be considered complete when the sum of the total groundwater VOC concentrations determined by the compliance wells MW-4, MW-7, MW-10B, MW-14 and MW-15 have stabilized at a 95% reduction of the sum of the total baseline VOC concentrations for these wells.

(2) Detected VOC 15 = Total concentration of detected VOC from current monitoring event. See Table 4.1 and Analytical Reports in Appendix A for details.

(3) Number Non-Detects = Number of target VOC parameters for which contamination was not detected in current monitoring event.

(4) EQL = Estimated Quantitation Limit. A Reporting Detection Limit (RDL) may be used for evaluation purposes if the laboratory did not report an EQL. If more than one EQL or RDL is listed, parameter specific non-detected VOC values must be computed. See note 5 below.

(5) Non-Detected VOC = The product obtained by multiplying the number of Non-Detected VOC by the EQL (or RDL). If more than one EQL or RDL is listed the Non-Detected VOC is the sum of the products obtained by multiplying number of Non-Detected VOC by the associated EQL or RDL values.

(6) ½ Non-Detected VOC = The quotient obtained by dividing the Non-Detected VOC by 2.

(7) Compliance VOC 15 = The sum obtained by adding the Detected VOC 15 to the ½ Non-Detected VOC. Compliance VOC 15 is a total value, comprising the sum of the 15 individual target VOC parameters.

(8) Baseline VOC 15 = The sum of the 15 individual target VOC parameters as determined as a result of the 1996 baseline event.

(9) 5% Baseline VOC 15 = 5% of the Baseline VOC 15 concentration. This value represents a 95% reduction in the total concentration of VOC 15 and is intended for use as a clean-up level in order to evaluate if remediation is complete.

(10) If Compliance VOC 15 is less than or equal to 5% Baseline VOC 15, a 95% reduction in the concentration of VOC 15 is indicated and the clean-up level has been achieved. See the May 13, 1996, EIS report, "Predesign and Compliance Monitoring Plan" for actions to be taken once the clean-up levels have been achieved.

(11) The field duplicate value is used in place of the value for the well for which it is a duplicate if the field duplicate value is greater.

APPENDIX A

ANALYTICAL RESULTS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4738 Gateway Circle Dayton, OH 45440 (800) 572-9839
339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

Heartland Environmental Associates
3410 Mishawaka Ave.
South Bend, IN 46615
JC Sporleder

Work Order: DRI0751
Project: Accra Pac
Project Number: 1092--0801-01

Received: 09/17/08
Reported: 09/30/08 17:05

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DRI0751-01 (MW-4 - Water - NonPotable)					**Sampled: 09/16/08 14:45**		**Recvd: 09/17/08 10:50**		
Volatile Organic Compounds by GC/MS									
1,2-Dichlorobenzene	<1.00		ug/L	1.00	1	09/26/08 21:29	PRB	8091107	SW 8260B
1,1-Dichloroethane	**30.2**		ug/L	1.00	1	09/26/08 21:29	PRB	8091107	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	09/26/08 21:29	PRB	8091107	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	09/26/08 21:29	PRB	8091107	SW 8260B
1,1-Dichloroethene	<1.00		ug/L	1.00	1	09/26/08 21:29	PRB	8091107	SW 8260B
Dichlorofluoromethane	<5.00		ug/L	5.00	1	09/26/08 21:29	PRB	8091107	SW 8260B
Ethylbenzene	<1.00		ug/L	1.00	1	09/26/08 21:29	PRB	8091107	SW 8260B
Tetrachloroethene	**1.44**		ug/L	1.00	1	09/26/08 21:29	PRB	8091107	SW 8260B
Toluene	<1.00		ug/L	1.00	1	09/26/08 21:29	PRB	8091107	SW 8260B
1,1,1-Trichloroethane	**5.55**		ug/L	1.00	1	09/26/08 21:29	PRB	8091107	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	09/26/08 21:29	PRB	8091107	SW 8260B
Trichlorofluoromethane	**1.14**		ug/L	1.00	1	09/26/08 21:29	PRB	8091107	SW 8260B
1,1,2-Trichlorotrifluoroethane	**140**		ug/L	1.00	1	09/26/08 21:29	PRB	8091107	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	09/26/08 21:29	PRB	8091107	SW 8260B
Xylenes, Total	<2.00		ug/L	2.00	1	09/26/08 21:29	PRB	8091107	SW 8260B
Surr: 1,2-Dichloroethane-d4 (80-120%)	*121 %*	*ZI*				09/26/08 21:29	PRB	8091107	SW 8260B
Surr: 1,2-Dichloroethane-d4 (80-120%)	*116 %*					09/26/08 21:29	PRB	8091107	SW 8260B
Surr: Dibromofluoromethane (80-120%)	*104 %*					09/26/08 21:29	PRB	8091107	SW 8260B
Surr: Dibromofluoromethane (80-120%)	*106 %*					09/26/08 21:29	PRB	8091107	SW 8260B
Surr: Toluene-d8 (80-120%)	*100 %*					09/26/08 21:29	PRB	8091107	SW 8260B
Surr: Toluene-d8 (80-120%)	*99 %*					09/26/08 21:29	PRB	8091107	SW 8260B
Surr: 4-Bromofluorobenzene (80-120%)	*96 %*					09/26/08 21:29	PRB	8091107	SW 8260B
Surr: 4-Bromofluorobenzene (80-120%)	*98 %*					09/26/08 21:29	PRB	8091107	SW 8260B
Sample ID: DRI0751-02 (MW-7 - Water - NonPotable)					**Sampled: 09/16/08 12:55**		**Recvd: 09/17/08 10:50**		
Volatile Organic Compounds by GC/MS									
1,2-Dichlorobenzene	**3.30**		ug/L	1.00	1	09/26/08 18:29	PRB	8091107	SW 8260B
1,1-Dichloroethane	**248**	A-01	ug/L	100	100	09/27/08 19:53	eap	8091143	SW 8260B
1,2-Dichloroethane	**2.68**		ug/L	1.00	1	09/26/08 18:29	PRB	8091107	SW 8260B
cis-1,2-Dichloroethene	**17.0**		ug/L	1.00	1	09/26/08 18:29	PRB	8091107	SW 8260B
1,1-Dichloroethene	**1.63**		ug/L	1.00	1	09/26/08 18:29	PRB	8091107	SW 8260B
Dichlorofluoromethane	**6.77**		ug/L	5.00	1	09/26/08 18:29	PRB	8091107	SW 8260B
Ethylbenzene	<1.00		ug/L	1.00	1	09/26/08 18:29	PRB	8091107	SW 8260B
Tetrachloroethene	**6.63**		ug/L	1.00	1	09/26/08 18:29	PRB	8091107	SW 8260B
Toluene	<1.00		ug/L	1.00	1	09/26/08 18:29	PRB	8091107	SW 8260B
1,1,1-Trichloroethane	**26.7**		ug/L	1.00	1	09/26/08 18:29	PRB	8091107	SW 8260B
Trichloroethene	**18.4**		ug/L	1.00	1	09/26/08 18:29	PRB	8091107	SW 8260B
Trichlorofluoromethane	<1.00		ug/L	1.00	1	09/26/08 18:29	PRB	8091107	SW 8260B
1,1,2-Trichlorotrifluoroethane	**9.57**		ug/L	1.00	1	09/26/08 18:29	PRB	8091107	SW 8260B
Vinyl chloride	**7.43**		ug/L	1.00	1	09/26/08 18:29	PRB	8091107	SW 8260B
Xylenes, Total	<2.00		ug/L	2.00	1	09/26/08 18:29	PRB	8091107	SW 8260B
Surr: 1,2-Dichloroethane-d4 (80-120%)	*118 %*					09/26/08 18:29	PRB	8091107	SW 8260B
Surr: 1,2-Dichloroethane-d4 (80-120%)	*113 %*					09/26/08 18:29	PRB	8091107	SW 8260B
Surr: 1,2-Dichloroethane-d4 (80-120%)	*103 %*	*A-01*				09/27/08 19:53	eap	8091143	SW 8260B
Surr: Dibromofluoromethane (80-120%)	*106 %*					09/26/08 18:29	PRB	8091107	SW 8260B

Heartland Environmental Associates
3410 Mishawaka Ave.
South Bend, IN 46615
JC Sporleder

Work Order: DRI0751
Project: Accra Pac
Project Number: 1092--0801-01

Received: 09/17/08
Reported: 09/30/08 17:05

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DRI0751-02 (MW-7 - Water - NonPotable) - cont.					**Sampled: 09/16/08 12:55**		**Recvd: 09/17/08 10:50**		
Volatile Organic Compounds by GC/MS - cont.									
Surr: Dibromofluoromethane (80-120%)	*108 %*					09/26/08 18:29	PRB	8091107	SW 8260B
Surr: Dibromofluoromethane (80-120%)	*101 %*	*A-01*				09/27/08 19:53	eap	8091143	SW 8260B
Surr: Toluene-d8 (80-120%)	*99 %*					09/26/08 18:29	PRB	8091107	SW 8260B
Surr: Toluene-d8 (80-120%)	*99 %*					09/26/08 18:29	PRB	8091107	SW 8260B
Surr: Toluene-d8 (80-120%)	*106 %*	*A-01*				09/27/08 19:53	eap	8091143	SW 8260B
Surr: 4-Bromofluorobenzene (80-120%)	*98 %*					09/26/08 18:29	PRB	8091107	SW 8260B
Surr: 4-Bromofluorobenzene (80-120%)	*99 %*					09/26/08 18:29	PRB	8091107	SW 8260B
Surr: 4-Bromofluorobenzene (80-120%)	*97 %*	*A-01*				09/27/08 19:53	eap	8091143	SW 8260B
Sample ID: DRI0751-03 (MW-10B - Water - NonPotable)					**Sampled: 09/16/08 14:15**		**Recvd: 09/17/08 10:50**		
Volatile Organic Compounds by GC/MS									
1,2-Dichlorobenzene	<1.00		ug/L	1.00	1	09/26/08 21:58	PRB	8091107	SW 8260B
1,1-Dichloroethane	**199**		ug/L	100	100	09/26/08 18:59	PRB	8091107	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	09/26/08 21:58	PRB	8091107	SW 8260B
cis-1,2-Dichloroethene	**2.97**		ug/L	1.00	1	09/26/08 21:58	PRB	8091107	SW 8260B
1,1-Dichloroethene	**2.32**		ug/L	1.00	1	09/26/08 21:58	PRB	8091107	SW 8260B
Dichlorofluoromethane	**17.4**		ug/L	5.00	1	09/30/08 12:53	PRB	8091212	SW 8260B
Ethylbenzene	**6.05**		ug/L	1.00	1	09/26/08 21:58	PRB	8091107	SW 8260B
Tetrachloroethene	**137**		ug/L	100	100	09/26/08 18:59	PRB	8091107	SW 8260B
Toluene	<1.00		ug/L	1.00	1	09/26/08 21:58	PRB	8091107	SW 8260B
1,1,1-Trichloroethane	**33.3**		ug/L	1.00	1	09/26/08 21:58	PRB	8091107	SW 8260B
Trichloroethene	**3.31**		ug/L	1.00	1	09/26/08 21:58	PRB	8091107	SW 8260B
Trichlorofluoromethane	**6.21**		ug/L	1.00	1	09/26/08 21:58	PRB	8091107	SW 8260B
1,1,2-Trichlorotrifluoroethane	**3720**		ug/L	100	100	09/26/08 18:59	PRB	8091107	SW 8260B
Vinyl chloride	**1.09**		ug/L	1.00	1	09/26/08 21:58	PRB	8091107	SW 8260B
Xylenes, Total	**3.90**		ug/L	2.00	1	09/26/08 21:58	PRB	8091107	SW 8260B
Surr: 1,2-Dichloroethane-d4 (80-120%)	*88 %*					09/30/08 12:53	PRB	8091212	SW 8260B
Surr: 1,2-Dichloroethane-d4 (80-120%)	*117 %*					09/26/08 21:58	PRB	8091107	SW 8260B
Surr: Dibromofluoromethane (80-120%)	*107 %*					09/30/08 12:53	PRB	8091212	SW 8260B
Surr: Dibromofluoromethane (80-120%)	*106 %*					09/26/08 21:58	PRB	8091107	SW 8260B
Surr: Toluene-d8 (80-120%)	*94 %*					09/30/08 12:53	PRB	8091212	SW 8260B
Surr: Toluene-d8 (80-120%)	*99 %*					09/26/08 21:58	PRB	8091107	SW 8260B
Surr: 4-Bromofluorobenzene (80-120%)	*105 %*					09/30/08 12:53	PRB	8091212	SW 8260B
Surr: 4-Bromofluorobenzene (80-120%)	*99 %*					09/26/08 21:58	PRB	8091107	SW 8260B

Heartland Environmental Associates
3410 Mishawaka Ave.
South Bend, IN 46615
JC Sporleder

Work Order: DRI0751
Project: Accra Pac
Project Number: 1092--0801-01

Received: 09/17/08
Reported: 09/30/08 17:05

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DRI0751-04 (MW-14 - Water - NonPotable)					**Sampled: 09/16/08 14:15**		**Recvd: 09/17/08 10:50**		
Volatile Organic Compounds by GC/MS									
1,2-Dichlorobenzene	<1.00		ug/L	1.00	1	09/26/08 19:59	PRB	8091107	SW 8260B
1,1-Dichloroethane	**73.5**		ug/L	1.00	1	09/26/08 19:59	PRB	8091107	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	09/26/08 19:59	PRB	8091107	SW 8260B
cis-1,2-Dichloroethene	**3.05**		ug/L	1.00	1	09/26/08 19:59	PRB	8091107	SW 8260B
1,1-Dichloroethene	<1.00		ug/L	1.00	1	09/26/08 19:59	PRB	8091107	SW 8260B
Dichlorofluoromethane	**15.0**		ug/L	5.00	1	09/26/08 19:59	PRB	8091107	SW 8260B
Ethylbenzene	**2.68**		ug/L	1.00	1	09/26/08 19:59	PRB	8091107	SW 8260B
Tetrachloroethene	**104**		ug/L	1.00	1	09/26/08 19:59	PRB	8091107	SW 8260B
Toluene	<1.00		ug/L	1.00	1	09/26/08 19:59	PRB	8091107	SW 8260B
1,1,1-Trichloroethane	**25.6**		ug/L	1.00	1	09/26/08 19:59	PRB	8091107	SW 8260B
Trichloroethene	**105**		ug/L	1.00	1	09/26/08 19:59	PRB	8091107	SW 8260B
Trichlorofluoromethane	**3.47**		ug/L	1.00	1	09/26/08 19:59	PRB	8091107	SW 8260B
1,1,2-Trichlorotrifluoroethane	**104**		ug/L	1.00	1	09/26/08 19:59	PRB	8091107	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	09/26/08 19:59	PRB	8091107	SW 8260B
Xylenes, Total	<2.00		ug/L	2.00	1	09/26/08 19:59	PRB	8091107	SW 8260B
Surr: 1,2-Dichloroethane-d4 (80-120%)	*118 %*					09/26/08 19:59	PRB	8091107	SW 8260B
Surr: 1,2-Dichloroethane-d4 (80-120%)	*113 %*					09/26/08 19:59	PRB	8091107	SW 8260B
Surr: Dibromofluoromethane (80-120%)	*104 %*					09/26/08 19:59	PRB	8091107	SW 8260B
Surr: Dibromofluoromethane (80-120%)	*106 %*					09/26/08 19:59	PRB	8091107	SW 8260B
Surr: Toluene-d8 (80-120%)	*99 %*					09/26/08 19:59	PRB	8091107	SW 8260B
Surr: Toluene-d8 (80-120%)	*99 %*					09/26/08 19:59	PRB	8091107	SW 8260B
Surr: 4-Bromofluorobenzene (80-120%)	*97 %*					09/26/08 19:59	PRB	8091107	SW 8260B
Surr: 4-Bromofluorobenzene (80-120%)	*98 %*					09/26/08 19:59	PRB	8091107	SW 8260B
Sample ID: DRI0751-05 (MW-15 - Water - NonPotable)					**Sampled: 09/16/08 15:15**		**Recvd: 09/17/08 10:50**		
Volatile Organic Compounds by GC/MS									
1,2-Dichlorobenzene	<1.00		ug/L	1.00	1	09/26/08 22:28	PRB	8091107	SW 8260B
1,1-Dichloroethane	<1.00		ug/L	1.00	1	09/26/08 22:28	PRB	8091107	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	09/26/08 22:28	PRB	8091107	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	09/26/08 22:28	PRB	8091107	SW 8260B
1,1-Dichloroethene	<1.00		ug/L	1.00	1	09/26/08 22:28	PRB	8091107	SW 8260B
Dichlorofluoromethane	<5.00		ug/L	5.00	1	09/30/08 13:23	PRB	8091212	SW 8260B
Ethylbenzene	<1.00		ug/L	1.00	1	09/26/08 22:28	PRB	8091107	SW 8260B
Tetrachloroethene	<1.00		ug/L	1.00	1	09/26/08 22:28	PRB	8091107	SW 8260B
Toluene	<1.00		ug/L	1.00	1	09/26/08 22:28	PRB	8091107	SW 8260B
1,1,1-Trichloroethane	**4.07**		ug/L	1.00	1	09/26/08 22:28	PRB	8091107	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	09/26/08 22:28	PRB	8091107	SW 8260B
Trichlorofluoromethane	<1.00		ug/L	1.00	1	09/26/08 22:28	PRB	8091107	SW 8260B
1,1,2-Trichlorotrifluoroethane	**18200**	A-01	ug/L	1000	1000	09/27/08 16:55	eap	8091143	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	09/26/08 22:28	PRB	8091107	SW 8260B
Xylenes, Total	<2.00		ug/L	2.00	1	09/26/08 22:28	PRB	8091107	SW 8260B
Surr: 1,2-Dichloroethane-d4 (80-120%)	*89 %*					09/30/08 13:23	PRB	8091212	SW 8260B
Surr: 1,2-Dichloroethane-d4 (80-120%)	*119 %*					09/26/08 22:28	PRB	8091107	SW 8260B
Surr: 1,2-Dichloroethane-d4 (80-120%)	*104 %*	*A-01*				09/27/08 16:55	eap	8091143	SW 8260B
Surr: Dibromofluoromethane (80-120%)	*109 %*					09/30/08 13:23	PRB	8091212	SW 8260B

Heartland Environmental Associates
3410 Mishawaka Ave.
South Bend, IN 46615
JC Sporleder

Work Order: DRI0751
Project: Accra Pac
Project Number: 1092--0801-01

Received: 09/17/08
Reported: 09/30/08 17:05

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DRI0751-05 (MW-15 - Water - NonPotable) - cont.					**Sampled: 09/16/08 15:15**		**Recvd: 09/17/08 10:50**		
Volatile Organic Compounds by GC/MS - cont.									
Surr: Dibromofluoromethane (80-120%)	*106 %*					09/26/08 22:28	PRB	8091107	SW 8260B
Surr: Dibromofluoromethane (80-120%)	*103 %*	*A-01*				09/27/08 16:55	eap	8091143	SW 8260B
Surr: Toluene-d8 (80-120%)	*93 %*					09/30/08 13:23	PRB	8091212	SW 8260B
Surr: Toluene-d8 (80-120%)	*99 %*					09/26/08 22:28	PRB	8091107	SW 8260B
Surr: Toluene-d8 (80-120%)	*103 %*	*A-01*				09/27/08 16:55	eap	8091143	SW 8260B
Surr: 4-Bromofluorobenzene (80-120%)	*104 %*					09/30/08 13:23	PRB	8091212	SW 8260B
Surr: 4-Bromofluorobenzene (80-120%)	*98 %*					09/26/08 22:28	PRB	8091107	SW 8260B
Surr: 4-Bromofluorobenzene (80-120%)	*98 %*	*A-01*				09/27/08 16:55	eap	8091143	SW 8260B
Sample ID: DRI0751-06 (FD=MS/DMS - Water - NonPotable)					**Sampled: 09/16/08 15:15**		**Recvd: 09/17/08 10:50**		
Volatile Organic Compounds by GC/MS									
1,2-Dichlorobenzene	**2.71**	M	ug/L	1.00	1	09/26/08 20:29	PRB	8091107	SW 8260B
1,1-Dichloroethane	**270**	M	ug/L	100	100	09/30/08 04:15	jmt	8091214	SW 8260B
1,2-Dichloroethane	**2.77**	M	ug/L	1.00	1	09/26/08 20:29	PRB	8091107	SW 8260B
cis-1,2-Dichloroethene	**17.9**	M	ug/L	1.00	1	09/26/08 20:29	PRB	8091107	SW 8260B
1,1-Dichloroethene	**1.68**	M	ug/L	1.00	1	09/26/08 20:29	PRB	8091107	SW 8260B
Dichlorofluoromethane	**7.19**		ug/L	5.00	1	09/26/08 20:29	PRB	8091107	SW 8260B
Ethylbenzene	<1.00	M	ug/L	1.00	1	09/26/08 20:29	PRB	8091107	SW 8260B
Tetrachloroethene	**5.53**	M	ug/L	1.00	1	09/26/08 20:29	PRB	8091107	SW 8260B
Toluene	<1.00	M	ug/L	1.00	1	09/26/08 20:29	PRB	8091107	SW 8260B
1,1,1-Trichloroethane	**26.3**	M	ug/L	1.00	1	09/26/08 20:29	PRB	8091107	SW 8260B
Trichloroethene	**16.8**	M	ug/L	1.00	1	09/26/08 20:29	PRB	8091107	SW 8260B
Trichlorofluoromethane	<1.00	M	ug/L	1.00	1	09/26/08 20:29	PRB	8091107	SW 8260B
1,1,2-Trichlorotrifluoroethane	**9.98**	M	ug/L	1.00	1	09/26/08 20:29	PRB	8091107	SW 8260B
Vinyl chloride	**7.09**	M	ug/L	1.00	1	09/26/08 20:29	PRB	8091107	SW 8260B
Xylenes, Total	<2.00	M	ug/L	2.00	1	09/26/08 20:29	PRB	8091107	SW 8260B
Surr: 1,2-Dichloroethane-d4 (80-120%)	*120 %*					09/26/08 20:29	PRB	8091107	SW 8260B
Surr: 1,2-Dichloroethane-d4 (80-120%)	*116 %*	*M*				09/26/08 20:29	PRB	8091107	SW 8260B
Surr: 1,2-Dichloroethane-d4 (80-120%)	*97 %*	*M*				09/30/08 04:15	jmt	8091214	SW 8260B
Surr: Dibromofluoromethane (80-120%)	*105 %*					09/26/08 20:29	PRB	8091107	SW 8260B
Surr: Dibromofluoromethane (80-120%)	*107 %*	*M*				09/26/08 20:29	PRB	8091107	SW 8260B
Surr: Dibromofluoromethane (80-120%)	*99 %*	*M*				09/30/08 04:15	jmt	8091214	SW 8260B
Surr: Toluene-d8 (80-120%)	*99 %*					09/26/08 20:29	PRB	8091107	SW 8260B
Surr: Toluene-d8 (80-120%)	*99 %*	*M*				09/26/08 20:29	PRB	8091107	SW 8260B
Surr: Toluene-d8 (80-120%)	*104 %*	*M*				09/30/08 04:15	jmt	8091214	SW 8260B
Surr: 4-Bromofluorobenzene (80-120%)	*97 %*					09/26/08 20:29	PRB	8091107	SW 8260B
Surr: 4-Bromofluorobenzene (80-120%)	*98 %*	*M*				09/26/08 20:29	PRB	8091107	SW 8260B
Surr: 4-Bromofluorobenzene (80-120%)	*97 %*	*M*				09/30/08 04:15	jmt	8091214	SW 8260B

Heartland Environmental Associates	Work Order:	DRI0751		Received:	09/17/08
3410 Mishawaka Ave.	Project:	Accra Pac		Reported:	09/30/08 17:05
South Bend, IN 46615	Project Number:	1092--0801-01			
JC Sporleder					

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Rpt Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DRI0751-07 (Trip Blank - Water - NonPotable)					**Sampled: 09/16/08**		**Recvd: 09/17/08 10:50**		
Volatile Organic Compounds by GC/MS									
1,2-Dichlorobenzene	<1.00		ug/L	1.00	1	09/26/08 16:29	PRB	8091107	SW 8260B
1,1-Dichloroethane	<1.00		ug/L	1.00	1	09/26/08 16:29	PRB	8091107	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	09/26/08 16:29	PRB	8091107	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	09/26/08 16:29	PRB	8091107	SW 8260B
1,1-Dichloroethene	<1.00		ug/L	1.00	1	09/26/08 16:29	PRB	8091107	SW 8260B
Dichlorofluoromethane	<5.00		ug/L	5.00	1	09/26/08 16:29	PRB	8091107	SW 8260B
Ethylbenzene	<1.00		ug/L	1.00	1	09/26/08 16:29	PRB	8091107	SW 8260B
Tetrachloroethene	<1.00		ug/L	1.00	1	09/26/08 16:29	PRB	8091107	SW 8260B
Toluene	<1.00		ug/L	1.00	1	09/26/08 16:29	PRB	8091107	SW 8260B
1,1,1-Trichloroethane	<1.00		ug/L	1.00	1	09/26/08 16:29	PRB	8091107	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	09/26/08 16:29	PRB	8091107	SW 8260B
Trichlorofluoromethane	<1.00		ug/L	1.00	1	09/26/08 16:29	PRB	8091107	SW 8260B
1,1,2-Trichlorotrifluoroethane	<1.00		ug/L	1.00	1	09/26/08 16:29	PRB	8091107	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	09/26/08 16:29	PRB	8091107	SW 8260B
Xylenes, Total	<2.00		ug/L	2.00	1	09/26/08 16:29	PRB	8091107	SW 8260B
Surr: 1,2-Dichloroethane-d4 (80-120%)	*117 %*					09/26/08 16:29	PRB	8091107	SW 8260B
Surr: 1,2-Dichloroethane-d4 (80-120%)	*113 %*					09/26/08 16:29	PRB	8091107	SW 8260B
Surr: Dibromofluoromethane (80-120%)	*104 %*					09/26/08 16:29	PRB	8091107	SW 8260B
Surr: Dibromofluoromethane (80-120%)	*106 %*					09/26/08 16:29	PRB	8091107	SW 8260B
Surr: Toluene-d8 (80-120%)	*100 %*					09/26/08 16:29	PRB	8091107	SW 8260B
Surr: Toluene-d8 (80-120%)	*100 %*					09/26/08 16:29	PRB	8091107	SW 8260B
Surr: 4-Bromofluorobenzene (80-120%)	*98 %*					09/26/08 16:29	PRB	8091107	SW 8260B
Surr: 4-Bromofluorobenzene (80-120%)	*100 %*					09/26/08 16:29	PRB	8091107	SW 8260B

Heartland Environmental Associates
3410 Mishawaka Ave.
South Bend, IN 46615
JC Sporleder

Work Order: DRI0751
Project: Accra Pac
Project Number: 1092--0801-01

Received: 09/17/08
Reported: 09/30/08 17:05

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds by GC/MS														
1,2-Dichlorobenzene	8091107			ug/L	N/A	1.00	<1.00							
1,1-Dichloroethane	8091107			ug/L	N/A	1.00	<1.00							
1,2-Dichloroethane	8091107			ug/L	N/A	1.00	<1.00							
cis-1,2-Dichloroethene	8091107			ug/L	N/A	1.00	<1.00							
1,1-Dichloroethene	8091107			ug/L	N/A	1.00	<1.00							
Ethylbenzene	8091107			ug/L	N/A	1.00	<1.00							
Tetrachloroethene	8091107			ug/L	N/A	1.00	<1.00							
Toluene	8091107			ug/L	N/A	1.00	<1.00							
1,1,1-Trichloroethane	8091107			ug/L	N/A	1.00	<1.00							
Trichloroethene	8091107			ug/L	N/A	1.00	<1.00							
Trichlorofluoromethane	8091107			ug/L	N/A	1.00	<1.00							
1,1,2-Trichlorotrifluoroethane	8091107			ug/L	N/A	1.00	<1.00							
Vinyl chloride	8091107			ug/L	N/A	1.00	<1.00							
Xylenes, Total	8091107			ug/L	N/A	2.00	<2.00							
Surrogate: 1,2-Dichloroethane-d4	*8091107*			ug/L					*115*		*80-120*			
Surrogate: Dibromofluoromethane	*8091107*			ug/L					*104*		*80-120*			
Surrogate: Toluene-d8	*8091107*			ug/L					*99*		*80-120*			
Surrogate: 4-Bromofluorobenzene	*8091107*			ug/L					*96*		*80-120*			
1,2-Dichlorobenzene	8091143			ug/L	N/A	1.00	<1.00							
1,1-Dichloroethane	8091143			ug/L	N/A	1.00	<1.00							
1,2-Dichloroethane	8091143			ug/L	N/A	1.00	<1.00							
cis-1,2-Dichloroethene	8091143			ug/L	N/A	1.00	<1.00							
1,1-Dichloroethene	8091143			ug/L	N/A	1.00	<1.00							
Ethylbenzene	8091143			ug/L	N/A	1.00	<1.00							
Tetrachloroethene	8091143			ug/L	N/A	1.00	<1.00							
Toluene	8091143			ug/L	N/A	1.00	<1.00							
1,1,1-Trichloroethane	8091143			ug/L	N/A	1.00	<1.00							
Trichloroethene	8091143			ug/L	N/A	1.00	<1.00							
Trichlorofluoromethane	8091143			ug/L	N/A	1.00	<1.00							
1,1,2-Trichlorotrifluoroethane	8091143			ug/L	N/A	1.00	<1.00							
Vinyl chloride	8091143			ug/L	N/A	1.00	<1.00							
Xylenes, Total	8091143			ug/L	N/A	2.00	<2.00							
Surrogate: 1,2-Dichloroethane-d4	*8091143*			ug/L					*102*		*80-120*			
Surrogate: Dibromofluoromethane	*8091143*			ug/L					*101*		*80-120*			
Surrogate: Toluene-d8	*8091143*			ug/L					*105*		*80-120*			
Surrogate: 4-Bromofluorobenzene	*8091143*			ug/L					*97*		*80-120*			
1,2-Dichlorobenzene	8091214			ug/L	N/A	1.00	<1.00							
1,1-Dichloroethane	8091214			ug/L	N/A	1.00	<1.00							
1,2-Dichloroethane	8091214			ug/L	N/A	1.00	<1.00							
cis-1,2-Dichloroethene	8091214			ug/L	N/A	1.00	<1.00							
1,1-Dichloroethene	8091214			ug/L	N/A	1.00	<1.00							
Ethylbenzene	8091214			ug/L	N/A	1.00	<1.00							
Tetrachloroethene	8091214			ug/L	N/A	1.00	<1.00							L1

Heartland Environmental Associates	Work Order:	DRI0751		Received:	09/17/08
3410 Mishawaka Ave.	Project:	Accra Pac		Reported:	09/30/08 17:05
South Bend, IN 46615	Project Number:	1092--0801-01			
JC Sporleder					

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds by GC/MS														
Toluene	8091214			ug/L	N/A	1.00	<1.00							
1,1,1-Trichloroethane	8091214			ug/L	N/A	1.00	<1.00							
Trichloroethene	8091214			ug/L	N/A	1.00	<1.00							
Trichlorofluoromethane	8091214			ug/L	N/A	1.00	<1.00							
1,1,2-Trichlorotrifluoroethane	8091214			ug/L	N/A	1.00	<1.00							
Vinyl chloride	8091214			ug/L	N/A	1.00	<1.00							
Xylenes, Total	8091214			ug/L	N/A	2.00	<2.00							
Surrogate: 1,2-Dichloroethane-d4	*8091214*			ug/L					*98*		*80-120*			
Surrogate: Dibromofluoromethane	*8091214*			ug/L					*100*		*80-120*			
Surrogate: Toluene-d8	*8091214*			ug/L					*104*		*80-120*			
Surrogate: 4-Bromofluorobenzene	*8091214*			ug/L					*98*		*80-120*			

Heartland Environmental Associates
3410 Mishawaka Ave.
South Bend, IN 46615
JC Sporleder

Work Order: DRI0751
Project: Accra Pac
Project Number: 1092--0801-01

Received: 09/17/08
Reported: 09/30/08 17:05

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds by GC/MS														
1,2-Dichlorobenzene	8091107		20.0	ug/L	N/A	1.00	20.6		103		78-123			
1,1-Dichloroethane	8091107		20.0	ug/L	N/A	1.00	22.1		110		79-120			
1,2-Dichloroethane	8091107		20.0	ug/L	N/A	1.00	22.0		110		75-120			
cis-1,2-Dichloroethene	8091107		20.0	ug/L	N/A	1.00	22.4		112		80-120			
1,1-Dichloroethene	8091107		20.0	ug/L	N/A	1.00	20.7		104		71-121			
Ethylbenzene	8091107		20.0	ug/L	N/A	1.00	20.6		103		79-120			
Tetrachloroethene	8091107		20.0	ug/L	N/A	1.00	24.1		121		62-128			
Toluene	8091107		20.0	ug/L	N/A	1.00	20.5		103		79-120			
1,1,1-Trichloroethane	8091107		20.0	ug/L	N/A	1.00	21.6		108		74-121			
Trichloroethene	8091107		20.0	ug/L	N/A	1.00	21.5		107		77-120			
Trichlorofluoromethane	8091107		20.0	ug/L	N/A	1.00	21.2		106		71-136			
Vinyl chloride	8091107		20.0	ug/L	N/A	1.00	22.0		110		65-126			
Surrogate: 1,2-Dichloroethane-d4	*8091107*			ug/L					*108*		*80-120*			
Surrogate: Dibromofluoromethane	*8091107*			ug/L					*103*		*80-120*			
Surrogate: Toluene-d8	*8091107*			ug/L					*97*		*80-120*			
Surrogate: 4-Bromofluorobenzene	*8091107*			ug/L					*97*		*80-120*			
1,2-Dichlorobenzene	8091143		20.0	ug/L	N/A	1.00	17.2		86		78-123			
1,1-Dichloroethane	8091143		20.0	ug/L	N/A	1.00	18.5		93		79-120			
1,2-Dichloroethane	8091143		20.0	ug/L	N/A	1.00	18.5		93		75-120			
cis-1,2-Dichloroethene	8091143		20.0	ug/L	N/A	1.00	18.7		94		80-120			
1,1-Dichloroethene	8091143		20.0	ug/L	N/A	1.00	18.1		91		71-121			
Ethylbenzene	8091143		20.0	ug/L	N/A	1.00	18.0		90		79-120			
Tetrachloroethene	8091143		20.0	ug/L	N/A	1.00	20.7		103		62-128			
Toluene	8091143		20.0	ug/L	N/A	1.00	19.0		95		79-120			
1,1,1-Trichloroethane	8091143		20.0	ug/L	N/A	1.00	18.2		91		74-121			
Trichloroethene	8091143		20.0	ug/L	N/A	1.00	19.9		100		77-120			
Trichlorofluoromethane	8091143		20.0	ug/L	N/A	1.00	19.1		95		71-136			
Vinyl chloride	8091143		20.0	ug/L	N/A	1.00	18.3		91		65-126			
Surrogate: 1,2-Dichloroethane-d4	*8091143*			ug/L					*102*		*80-120*			
Surrogate: Dibromofluoromethane	*8091143*			ug/L					*100*		*80-120*			
Surrogate: Toluene-d8	*8091143*			ug/L					*104*		*80-120*			
Surrogate: 4-Bromofluorobenzene	*8091143*			ug/L					*99*		*80-120*			
1,2-Dichlorobenzene	8091214		20.0	ug/L	N/A	1.00	18.5		92		78-123			
1,1-Dichloroethane	8091214		20.0	ug/L	N/A	1.00	20.6		103		79-120			
1,2-Dichloroethane	8091214		20.0	ug/L	N/A	1.00	19.8		99		75-120			
cis-1,2-Dichloroethene	8091214		20.0	ug/L	N/A	1.00	20.4		102		80-120			
1,1-Dichloroethene	8091214		20.0	ug/L	N/A	1.00	20.5		103		71-121			
Ethylbenzene	8091214		20.0	ug/L	N/A	1.00	19.3		96		79-120			
Tetrachloroethene	8091214		20.0	ug/L	N/A	1.00	29.4		147		62-128			L1
Toluene	8091214		20.0	ug/L	N/A	1.00	20.3		102		79-120			
1,1,1-Trichloroethane	8091214		20.0	ug/L	N/A	1.00	20.0		100		74-121			
Trichloroethene	8091214		20.0	ug/L	N/A	1.00	21.8		109		77-120			
Trichlorofluoromethane	8091214		20.0	ug/L	N/A	1.00	20.6		103		71-136			

Heartland Environmental Associates	Work Order:	DRI0751		Received:	09/17/08
3410 Mishawaka Ave.	Project:	Accra Pac		Reported:	09/30/08 17:05
South Bend, IN 46615	Project Number:	1092--0801-01			
JC Sporleder					

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds by GC/MS														
Vinyl chloride	8091214		20.0	ug/L	N/A	1.00	18.5		92		65-126			
Surrogate: 1,2-Dichloroethane-d4	*8091214*			ug/L					*98*		*80-120*			
Surrogate: Dibromofluoromethane	*8091214*			ug/L					*101*		*80-120*			
Surrogate: Toluene-d8	*8091214*			ug/L					*103*		*80-120*			
Surrogate: 4-Bromofluorobenzene	*8091214*			ug/L					*99*		*80-120*			

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4738 Gateway Circle Dayton, OH 45440 (800) 572-9839
339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

Heartland Environmental Associates
3410 Mishawaka Ave.
South Bend, IN 46615
JC Sporleder

Work Order: DRI0751
Project: Accra Pac
Project Number: 1092--0801-01

Received: 09/17/08
Reported: 09/30/08 17:05

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds by GC/MS														
QC Source Sample: DRI0751-06														
1,2-Dichlorobenzene	8091107	2.71	20.0	ug/L	N/A	1.00	27.4	22.2	124	97	78-123	21	25	M
1,1-Dichloroethane	8091107	286	20.0	ug/L	N/A	1.00	308	292	110	33	79-120	5	25	M
1,2-Dichloroethane	8091107	2.77	20.0	ug/L	N/A	1.00	28.9	23.9	131	106	75-120	19	25	M
cis-1,2-Dichloroethene	8091107	17.9	20.0	ug/L	N/A	1.00	42.5	38.3	123	102	80-120	10	25	M
1,1-Dichloroethene	8091107	1.68	20.0	ug/L	N/A	1.00	28.7	25.4	135	119	71-121	12	25	M
Ethylbenzene	8091107	0.660	20.0	ug/L	N/A	1.00	24.5	20.1	119	97	79-120	20	25	M
Tetrachloroethene	8091107	5.53	20.0	ug/L	N/A	1.00	29.9	26.4	122	104	62-128	13	25	M
Toluene	8091107	<1.00	20.0	ug/L	N/A	1.00	23.2	19.5	116	97	79-120	17	25	M
1,1,1-Trichloroethane	8091107	26.3	20.0	ug/L	N/A	1.00	51.5	47.3	126	105	74-121	8	25	M
Trichloroethene	8091107	16.8	20.0	ug/L	N/A	1.00	41.8	37.8	125	105	77-120	10	25	M
Trichlorofluoromethane	8091107	0.500	20.0	ug/L	N/A	1.00	27.7	24.5	136	120	71-136	12	25	M
Vinyl chloride	8091107	7.09	20.0	ug/L	N/A	1.00	32.8	30.8	128	118	65-126	6	25	M
Surrogate: 1,2-Dichloroethane-d4	*8091107*			ug/L					*120*	*116*	*80-120*			M
Surrogate: Dibromofluoromethane	*8091107*			ug/L					*104*	*103*	*80-120*			M
Surrogate: Toluene-d8	*8091107*			ug/L					*97*	*98*	*80-120*			M
Surrogate: 4-Bromofluorobenzene	*8091107*			ug/L					*96*	*97*	*80-120*			M
QC Source Sample: DRI0751-06RE1														
1,2-Dichlorobenzene	8091214	<1.00	2000	ug/L	N/A	100	1930	1620	97	81	78-123	18	25	M
1,1-Dichloroethane	8091214	270	2000	ug/L	N/A	100	2250	2140	99	94	79-120	5	25	M
1,2-Dichloroethane	8091214	<1.00	2000	ug/L	N/A	100	1920	1720	96	86	75-120	11	25	M
cis-1,2-Dichloroethene	8091214	<1.00	2000	ug/L	N/A	100	1970	1870	98	94	80-120	5	25	M
1,1-Dichloroethene	8091214	<1.00	2000	ug/L	N/A	100	2090	1980	105	99	71-121	5	25	M
Ethylbenzene	8091214	<1.00	2000	ug/L	N/A	100	2030	1800	102	90	79-120	12	25	M
Tetrachloroethene	8091214	<1.00	2000	ug/L	N/A	100	2800	2390	140	120	62-128	16	25	M,L1
Toluene	8091214	<1.00	2000	ug/L	N/A	100	2120	1910	106	95	79-120	11	25	M
1,1,1-Trichloroethane	8091214	<1.00	2000	ug/L	N/A	100	2060	1920	103	96	74-121	7	25	M
Trichloroethene	8091214	<1.00	2000	ug/L	N/A	100	2300	2040	115	102	77-120	12	25	M
Trichlorofluoromethane	8091214	<1.00	2000	ug/L	N/A	100	2120	2040	106	102	71-136	3	25	M
Vinyl chloride	8091214	<1.00	2000	ug/L	N/A	100	2030	1950	102	97	65-126	4	25	M
Surrogate: 1,2-Dichloroethane-d4	*8091214*			ug/L					*92*	*94*	*80-120*			M
Surrogate: Dibromofluoromethane	*8091214*			ug/L					*96*	*99*	*80-120*			M
Surrogate: Toluene-d8	*8091214*			ug/L					*105*	*104*	*80-120*			M
Surrogate: 4-Bromofluorobenzene	*8091214*			ug/L					*97*	*98*	*80-120*			M

Heartland Environmental Associates	Work Order:	DRI0751	Received:	09/17/08
3410 Mishawaka Ave.	Project:	Accra Pac	Reported:	09/30/08 17:05
South Bend, IN 46615	Project Number:	1092--0801-01		
JC Sporleder				

CERTIFICATION SUMMARY

Any abnormalities or departures from sample acceptance policy shall be documented on the Chain of Custody and/or Case Narrative included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC).

DATA QUALIFIERS AND DEFINITIONS

A-01	The MS/MSD were not analyzed for the batch due to an instrument error.
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
M	The MS, MSD, and/or RPD are outside of acceptance limits due to matrix interference. Please see Blank Spike (LCS).
Z1	Surrogate recovery was above acceptance limits.

ADDITIONAL COMMENTS

ANALYSIS LOCATIONS

The analyses listed below were analyzed in satellite facilities

APPENDIX B

CHAIN-OF-CUSTODY DOCUMENTS

DRI0751

CHAIN OF CUSTODY RECORD

Heartland PROJECT NO.	Heartland CLIENT / PROJECT:
1092 -- 0801-01	APG (Accra Pac) Groundwater Monitoring

SAMPLERS: (Print Name & Sign)
J.C. Sporleder / J.C. Sporleder
Bill Maynard / Billy Maynard

Sample Identification	Date	Time	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Other	Total # of Containers	40 cc Vial, 1+1 HCL	Cooler #	Remarks	LAB NO.	Sample State	Cooler Temp Blank
MW-4	9-16-08	12:45 pm	x			x		3	3	1				
MW-7	9-16-08	12:55 pm	x			x		3	3	1				
MW-10B	9-16-08	14:15 pm	x			x		3	3	1				
MW-14	9-16-08	14:15 pm	x			x		3	3	1				
MW-15	9-16-08	15:15 pm	x			x		3	3	1				
FD+MS/DMS	9-16-08	13:00 pm	x			x		9	9	1				
TRIP BLANK	9-16-08	Prep. by lab.	x			x		2	2	1	Trip Blank Prepared by lab.			
-- End of Sample List --			x			x								
			x			x								

Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received by:
J.C. Sporleder	9-16-08	17:00 pm	Secure iced cooler for overnight Fed. Ex. Delivery to lab.	Secure iced cooler for overnight Fed. Ex. delivery to lab.			
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received by:
					9/17/08	1050	D. Wells

LAB USE ONLY

Sample State
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

MODE OF TRANSPORTATION / SHIPMENT	
Heartland Vehicle: Ford Truck	Public:

COMMENTS:
Analyses are for "Target 15 VOC", Method 8260. See letter to laboratory for complete analysis instructions.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Heartland

Work Order # DR10751

Discrepencies ☐

Rush or Short Hold ☐

Cooler/Sample Receipt

if rush 24hr 2day 3day 5day other_____

Method of Shipment:

Are samples soils requiring USDA quarantine? Yes No (circle one)
If yes notify PM immediately

Walk in Fed Ex **UPS** **DHL** **TAL** **Courier** **Field** **Other**_____

Shipping Container Type: Cooler **Box** **Other**_____

Opened Date/Time _____ **Initials**_____

Receipt Questions**	Y	N	n/a	"NO" answers require a comment
COC present	✓			
Containers in good condition (unbroken and not leaking), and appropriately filled	✓			
Appropriate containers used & Adequate volume provided	✓			
Correct preservation on the COC	✓			
Numbers of samples match COC	✓			
If used, custody seals were intact	✓			
CoC discrepencies				
Samples received within hold time				
VOA samples received without headspace in excess of 6 mm	✓			
Trip Blanks received for each cooler with VOAs	✓			

#/size	HNO3	HCL	NaOH	H2SO4	Methanol	None	Other (Specify)
		3/each					

Tracking # 860708832 4381

Temp Acceptable? **YES** ☑ **NO** ☐

Thermometer ID T

Cooler ID _____ Uncorrected 0 Corrected 0 °C Ice

Packing Material _____

Melted Ice Blue Ice None Other_____
Circle one

If out of temperature, note affected samples

Direct from Field? Yes No
Circle one

CHECK IF ADDITIONAL SHEETS REQUIRED ☐

** May not be applicable if samples are not for compliance testing

Client Contact Record (required for discrepancies, unless agreement is on file with project) Date & Time _____

Contact via: ☐phone ☐email ☐ other _____ Person contacted _____

Discussion/Resolution

Is a revised chain being issued? **Yes** **No-** **If Yes, it must be scanned.**
Circle one

Reviewed by PM Signature Date/Time

Page _____ of _____

WI No. DT-SCA-WI-001.3

effective 8/4/08

APPENDIX C

FIELD SAMPLING FORMS

Sheet 1 of 1

Project: KIK-Accra Pac/Warner Baker Compliance Monitoring

Project No: 1092 - 01-01 Date: 9-16-08

Prepared By: J.C. Sporleder

STATIC WATER LEVEL FIELD CHECK RECORD

Site Location:	KIK-Accra Pac / Warner Baker Site, 2626 Industrial Parkway, Elkhart, Indiana
EIS Field Personnel:	J.C. Sporleder / Bill Maynard
Equipment Used:	Electronic Water Mark

Station or Well ID	Date & Time of Check JCL on 9-16-08	TOC (1) to SWL (2) (feet)	TOC Elev. (3) (feet)	SWL Elev. (feet)	Comments
MW-1	10:18 Am	~~9.67~~ 8.83	755.75	~~8.83~~ 746.92	
MW-3	11:02 Am	9.78	756.41	746.63	
MW-4	11:08 Am	9.52	756.115	746.60	
MW-5	10:27 Am	4.87	751.74	746.87	
MW-5B	10:25 Am	4.71	751.54	746.83	
MW-6	10:22 Am	~~4.07~~ 4.06	750.94	746.88	
MW-7	10:56 Am	9.57	756.015	746.45	
MW-8	10:50 Am	5.14	752.02	746.88	
MW-9	10:54 Am	9.03	755.66	746.63	
MW-10	~~10:59 Am~~ 11:00 Am	10.47	756.815	746.35	Bottom @ 11.96 feet.
MW-10B	10:59 Am	7.48	753.835	746.36	
MW-11	11:08 Am	6.16	753.53	747.37	
MW-12	10:43 Am	6.53	753.145	746.62	
MW-13	10:40 Am	4.21	750.915	746.71	
MW-14	11:14 Am	9.76	756.47	746.71	
MW-15	11:12 Am	8.99	755.75	746.76	

Notes: The SVE & Sparge Systems were turned off on 9-15-08 am more than 24 hours before checking SWL.

1) TOC = Top of Well Casing.
2) SWL = Static Water Level.
3) Elev. = Elevation in feet (N.G.V.D.).

MONITORING WELL SAMPLING FORM

Sample Date: 09 / 16 / 08 12 : 45 am / (pm)
Client: APG (Accra Pac Group) (1092)
Project No.: 1092 -- 0801-01
Location: 2626 Industrial Parkway, Elkhart, Indiana
Laboratory: TestAmerica, Inc.

Well I.D.: **MW-4**
Sample I.D.: **MW-4**
Collector(s): Billy Maynard.
Lab No.: DRI0751-01

PRE-PURGE

Well Material: (PVC / (Stainless) / Galvanized / ___)
Elevation top of Casing (TOC): 756.115* Ft
SWL Depth from TOC: 9.51 Ft
Well Depth from TOC: 26.67 Ft
Height of Water Column: 17.17 Ft
Volume/Foot Casing (d^2x0.04079): 0.1632 Gal / Ft
Volume of Water Column: 2.8 Gallons

Inside Diameter: 2 Inches
Grade Elevation: ~~730.865~~ = 754.02 Ft
SWL Elevation: 746.605 Ft
TOC to Grade: ~~25.25~~ 2.1 Ft
Well Depth from Grade: ≈24.57 Ft

PURGE

Time & Date Purged: 12 : 25 am / (pm) 09 / 16 / 08
Calculated Volume to Purge: 8.46 Gallons
Actual Volume Purged: 9.0 Gallons
Purged: dry / 1 2 (3) 4 5 6 7 8 9 10 Well Volumes
Purged With: Pump – Type: --na-- Tubing Size: --na--
Make: --na-- Tubing Type: --na--
(Bailer) (PVC) / SS / Teflon / ___)
Rope Material: (Polypropylene) / other: ___)
Equipment Dedicated? YES / (NO) Decontaminated With: Non-phosphate detergent wash & de-ionized water rinses.

SAMPLING

Time & Date Sampled: 12 : 45 am (pm) 9 / 16 / 08
Weather Conditions: Sky: mostly Sunny Ground: Dry Wind: < 5 mph
Temp: ≈ 70°F Humidity: High / (Moderate) / Low %: ~ Precipitation: None
SWL (Depth From TOC) Prior to Sampling: 9.53 Ft
Height of Water Column Prior to Sampling: 17.14 Ft
Recovery to 99.8 % of original water column depth.
Sampled With: Pump – Type: --na-- Tubing Size: --na--
Make: --na-- Tubing Type: --na--
(Bailer) (PVC / SS / (Teflon) / ___)
Rope Material: (Polypropylene) / other: ___)
Equipment Dedicated? YES / (NO) Decontaminated With: Non-phosphate detergent wash & de-ionized water rinses.

Water Appearance: ((Clear) / Slightly Turbid / Very Turbid) (Color: gray / brown / tan / ___)

Containers Collected	(Size & Type)		Preservatives
	40 cc	glass vials	1 + 1 HCL
	--	--	--
	--	--	--
	--	--	--
	--	--	--

OTHER

Were metals filtered prior to preservation?: YES / NO / (METALS NOT SAMPLED)
Filtration Method: (gravity / vacuum / pressure) Device Type: --na--
Filter: (cartridge / paper) Type: --na-- Size: --na-- Pore: --na--
Were samples iced after collection? (YES) / NO / ___

Field Tests: pH Meter Type: ---------- S.C. Meter Type: ----------

Test	Result	
Temp:	---	°C
pH:	---	pH
S.C.:	---	µmhos

Notes: * TOC elevation data per EIS Survey of 9-25-96.

MONITORING WELL SAMPLING FORM

FD+ms/DMS @ 9-16-08 13:00 pm

Sample Date: 9 / 16 / 08 12:55 am / (pm)
Client: APG (Accra Pac Group) (1092)
Project No.: 1092 -- 0801-01
Location: 2626 Industrial Parkway, Elkhart, Indiana
Laboratory: TestAmerica, Inc.

Well I.D.: MW-7
Sample I.D.: MW-7 / FD+ms/DMS
Collector(s): J.C. Sporleder
Lab No.: DRI0751-02 / DRI 0751-06
MW-7 ↗ ↖ FD+ms/DMS

PRE-PURGE

Well Material: (PVC / Stainless / Galvanized / ---)
Elevation top of Casing (TOC): 756.015* Ft
SWL Depth from TOC: 9.56 Ft
Well Depth from TOC: 42.25 Ft
Height of Water Column: 32.69 Ft
Volume/Foot Casing (d^2x0.04079): 0.1632 Gal / Ft
Volume of Water Column: 5.33 Gallons

Inside Diameter: 2 Inches
Grade Elevation: ≈754.015 Ft
SWL Elevation: 746.46 Ft
TOC to Grade: ≈2.0 Ft
Well Depth from Grade: ≈40.25 Ft

PURGE

Time & Date Purged: 12:05 am / (pm) 9 / 16 / 08
Calculated Volume to Purge: 16.0 Gallons
Actual Volume Purged: 16.0 Gallons
Purged: dry / 1 2 (3) 4 5 6 7 8 9 10 Well Volumes
Purged With: Pump – Type: --na-- Tubing Size: --na--
Make: --na-- Tubing Type: --na--
(Bailer) (PVC / SS / Teflon / ---)
Rope Material: (Polypropylene / other: ---)
Equipment Dedicated? YES / (NO) Decontaminated With: Non-phosphate detergent wash & de-ionized water rinses.

SAMPLING

Time & Date Sampled: 12:55 am / (pm) 9 / 16 / 08
Weather Conditions: Sky: Partly cloudy Ground: Dry Wind: <5mph
Temp: ≈70°F Humidity: High / (Moderate) / Low %: — Precipitation: None.
SWL (Depth From TOC) Prior to Sampling: 9.56 Ft
Height of Water Column Prior to Sampling: 32.69 Ft
Recovery to 100 % of original water column depth.
Sampled With: Pump – Type: --na-- Tubing Size: --na--
Make: --na-- Tubing Type: --na--
(Bailer) (PVC / SS / (Teflon) / ---)
Rope Material: (Polypropylene / other: ---)
Equipment Dedicated? YES / (NO) Decontaminated With: Non-phosphate detergent wash & de-ionized water rinses.

Water Appearance: (Clear / Slightly Turbid / Very Turbid) (Color: gray / brown / tan / —)

Containers Collected	(Size & Type)		Preservatives
	40 cc	glass vials	1 + 1 HCL
	---	---	---
	---	---	---
	---	---	---
	---	---	---

OTHER

Were metals filtered prior to preservation?: YES / NO / (METALS NOT SAMPLED)
Filtration Method: (gravity / vacuum / pressure) Device Type: --na--
Filter: (cartridge / paper) Type: --na-- Size: --na-- Pore: --na--
Were samples iced after collection? (YES) / NO / ---

Field Tests: pH Meter Type: ---------- S.C. Meter Type: ----------

Test	Result	
Temp:	---	°C
pH:	---	pH
S.C.:	---	µmhos

Notes: * TOC elevation data per EIS Survey of 9-25-96.
A Field duplicate (FD+ms/DMS) was collected from this well at 13:00 pm on 9-16-08.

MONITORING WELL SAMPLING FORM

Well I.D.: MW-10B
Sample I.D.: MW-10B
Collector(s): J.C. Spoolender / Bill Maynard
Lab No.: DRI 0751-03

Sample Date: 9 / 16 / 08 14:15 am / (pm)
Client: APG (Accra Pac Group) (1092)
Project No.: 1092 -- 0801-01
Location: 2626 Industrial Parkway, Elkhart, Indiana
Laboratory: TestAmerica, Inc.

PRE-PURGE

Well Material: (PVC / Stainless / Galvanized / ---)
Elevation top of Casing (TOC): 753.835* Ft
SWL Depth from TOC: 7.47 Ft
Well Depth from TOC: 54.25 Ft
Height of Water Column: 46.78 Ft
Volume/Foot Casing (d^2x0.04079): 0.1632 Gal / Ft
Volume of Water Column: 7.63 Gallons

Inside Diameter: 2 Inches
Grade Elevation: ≈754.12 Ft
SWL Elevation: 746.37 Ft
TOC to Grade: ≈ -(0.33) Ft
Well Depth from Grade: ≈54.58 Ft

PURGE

Time & Date Purged: 13:30 am / (pm) 9 / 16 / 08
Calculated Volume to Purge: 22.9 Gallons
Actual Volume Purged: 23 Gallons
Purged: dry / 1 2 (3) 4 5 6 7 8 9 10 Well Volumes
Purged With: Pump – Type: --na-- Tubing Size: --na--
Make: --na-- Tubing Type: --na--
(Bailer) (PVC / SS / Teflon / ---)
Rope Material: (Polypropylene / other: ---)
Equipment Dedicated? YES / (NO) Decontaminated With: Non-phosphate detergent wash & de-ionized water rinses.

SAMPLING

Time & Date Sampled: 2:15 am / (pm) 9 / 16 / 08
Weather Conditions: Sky: mostly clear Ground: Dry Wind: >5mph
Temp: ≈75°F Humidity: High / Moderate (Low %) Precipitation: None
SWL (Depth From TOC) Prior to Sampling: 7.49 Ft
Height of Water Column Prior to Sampling: 46.76 Ft
Recovery to 99.95 % of original water column depth.
Sampled With: Pump – Type: --na-- Tubing Size: --na--
Make: --na-- Tubing Type: --na--
(Bailer) (PVC / SS / (Teflon) / ---)
Rope Material: (Polypropylene / other: ---)
Equipment Dedicated? YES / (NO) Decontaminated With: Non-phosphate detergent wash & de-ionized water rinses.

Water Appearance: (Clear / Slightly Turbid / Very Turbid) (Color: gray / brown / tan / ---)

Containers Collected	(Size & Type)	Preservatives
	40 cc glass vials	1 + 1 HCL
	---	---
	---	---
	---	---
	---	---

OTHER

Were metals filtered prior to preservation?: YES / NO / (METALS NOT SAMPLED)
Filtration Method: (gravity / vacuum / pressure) Device Type: --na--
Filter: (cartridge / paper) Type: --na-- Size: --na-- Pore: --na--
Were samples iced after collection? (YES) / NO / ---

Field Tests: pH Meter Type: --- S.C. Meter Type: ---

Test	Result
Temp:	--- °C
pH:	--- pH
S.C.:	--- µmhos

Notes: * TOC elevation data per EIS Survey of 9-25-96.

MONITORING WELL SAMPLING FORM

Sample Date: 9 / 16 / 08 14:15 am / (pm)
Client: APG (Accra Pac Group) (1092)
Project No.: 1092 -- 0801-01
Location: 2626 Industrial Parkway, Elkhart, Indiana
Laboratory: TestAmerica, Inc.

Well I.D.: **MW-14**
Sample I.D.: **MW-14**
Collector(s): J.C. Sporleder
Lab No.: DRI 0751-04

PRE-PURGE

Well Material: (PVC / Stainless / Galvanized / ----)
Elevation top of Casing (TOC): 756.47* Ft
SWL Depth from TOC: 9.77 Ft
Well Depth from TOC: 49.20 Ft
Height of Water Column: 39.43 Ft
Volume/Foot Casing (d^2x0.04079): 0.1632 Gal / Ft
Volume of Water Column: 6.43 Gallons

Inside Diameter: 2 Inches
Grade Elevation: ≈754.17 Ft
SWL Elevation: 746.70 Ft
TOC to Grade: ≈2.3 Ft
Well Depth from Grade: ≈46.9 Ft

PURGE

Time & Date Purged: 13:45 am (pm) 9 / 16 / 08
Calculated Volume to Purge: 19.3 Gallons
Actual Volume Purged: 20 Gallons
Purged: dry / 1 2 (3) 4 5 6 7 8 9 10 Well Volumes
Purged With: Pump – Type: --na-- Tubing Size: --na--
Make: --na-- Tubing Type: --na--
(Bailer) (PVC / SS / Teflon / ---)
Rope Material: (Polypropylene / other: ---)
Equipment Dedicated? YES / (NO) Decontaminated With: Non-phosphate detergent wash & de-ionized water rinses.

SAMPLING

Time & Date Sampled: 14:15 am (pm) 9 / 16 / 08
Weather Conditions: Sky: Clear Ground: Dry. Wind: < 5 mph
Temp: ≈75 °F Humidity: High / (Moderate) / Low %: — Precipitation: None
SWL (Depth From TOC) Prior to Sampling: 9.80 Ft
Height of Water Column Prior to Sampling: 39.40 Ft
Recovery to 99.9 % of original water column depth.
Sampled With: Pump – Type: --na-- Tubing Size: --na--
Make: --na-- Tubing Type: --na--
(Bailer) (PVC / SS / (Teflon) / ---)
Rope Material: (Polypropylene / other: ---)
Equipment Dedicated? YES / (NO) Decontaminated With: Non-phosphate detergent wash & de-ionized water rinses.

Water Appearance: (Clear / Slightly Turbid / Very Turbid) (Color: gray / brown / tan / —)

Containers Collected	(Size & Type)		Preservatives
	40 cc	glass vials	1 + 1 HCL
	---	---	---
	---	---	---
	---	---	---
	---	---	---

OTHER

Were metals filtered prior to preservation?: YES / NO / (METALS NOT SAMPLED)
Filtration Method: (gravity / vacuum / pressure) Device Type: --na--
Filter: (cartridge / paper) Type: --na-- Size: --na-- Pore: --na--
Were samples iced after collection? (YES) / NO / ---

Field Tests: pH Meter Type: ---------- S.C. Meter Type: ----------

Test	Result	
Temp:	---	°C
pH:	---	pH
S.C.:	---	µmhos

Notes: * TOC elevation data per EIS Survey of 9-25-96.

MONITORING WELL SAMPLING FORM

Well I.D.: MW-15
Sample I.D.: MW-15
Collector(s): J.C. Sporleder / Billy Maynard
Lab No.: DRI 0751-05

Sample Date: 9 / 16 / 08 15:15 am / (pm)
Client: APG (Accra Pac Group) (1092)
Project No.: 1092 -- 0801-01
Location: 2626 Industrial Parkway, Elkhart, Indiana
Laboratory: TestAmerica, Inc.

PRE-PURGE

Well Material: (PVC / Stainless / Galvanized / ---)
Elevation top of Casing (TOC): 755.75 Ft
SWL Depth from TOC: 9.00 Ft
Well Depth from TOC: 47.65 Ft
Height of Water Column: 38.65 Ft
Volume/Foot Casing (d^2x0.04079): 0.1632 Gal / Ft
Volume of Water Column: 6.3 Gallons

Inside Diameter: 2 Inches
Grade Elevation: ≈ 753.45 Ft
SWL Elevation: 746.45 Ft
TOC to Grade: ≈ 2.3 Ft
Well Depth from Grade: ≈ 45.35 Ft

PURGE

Time & Date Purged: 14:50 am / (pm) 9 / 16 / 08
Calculated Volume to Purge: 18.9 Gallons
Actual Volume Purged: 19 Gallons
Purged: dry / 1 2 (3) 4 5 6 7 8 9 10 Well Volumes
Purged With: Pump – Type: --na-- Tubing Size: --na--
Make: --na-- Tubing Type: --na--
(Bailer) (PVC / SS / Teflon / ---)
Rope Material: (Polypropylene / other: ---)
Equipment Dedicated? YES / (NO) Decontaminated With: Non-phosphate detergent wash & de-ionized water rinses.

SAMPLING

Time & Date Sampled: 15:15 am / (pm) 9 / 16 / 08
Weather Conditions: Sky: Mostly Clear Ground: Dry. Wind: <5mph
Temp: 375° F Humidity: High / (Moderate) / Low %: — Precipitation: None.
SWL (Depth From TOC) Prior to Sampling: 9.02 Ft
Height of Water Column Prior to Sampling: ~~29.63~~ 38.63 Ft
Recovery to ≈99.9 % of original water column depth.

Sampled With: Pump – Type: --na-- Tubing Size: --na--
Make: --na-- Tubing Type: --na--
(Bailer) (PVC / SS / (Teflon) / ---)
Rope Material: (Polypropylene / other: ---)
Equipment Dedicated? YES / (NO) Decontaminated With: Non-phosphate detergent wash & de-ionized water rinses.

Water Appearance: (Clear / Slightly Turbid / Very Turbid) (Color: gray / brown / tan / ---)

Containers Collected	(Size & Type)		Preservatives
	40 cc	glass vials	1 + 1 HCL
	---	---	---
	---	---	---
	---	---	---
	---	---	---

OTHER

Were metals filtered prior to preservation?: YES / NO / (METALS NOT SAMPLED)
Filtration Method: (gravity / vacuum / pressure) Device Type: --na--
Filter: (cartridge / paper) Type: --na-- Size: --na-- Pore: --na--
Were samples iced after collection? (YES) / NO / ---

Field Tests: pH Meter Type: --- S.C. Meter Type: ---

Test	Result	
Temp:	---	°C
pH:	---	pH
S.C.:	---	µmhos

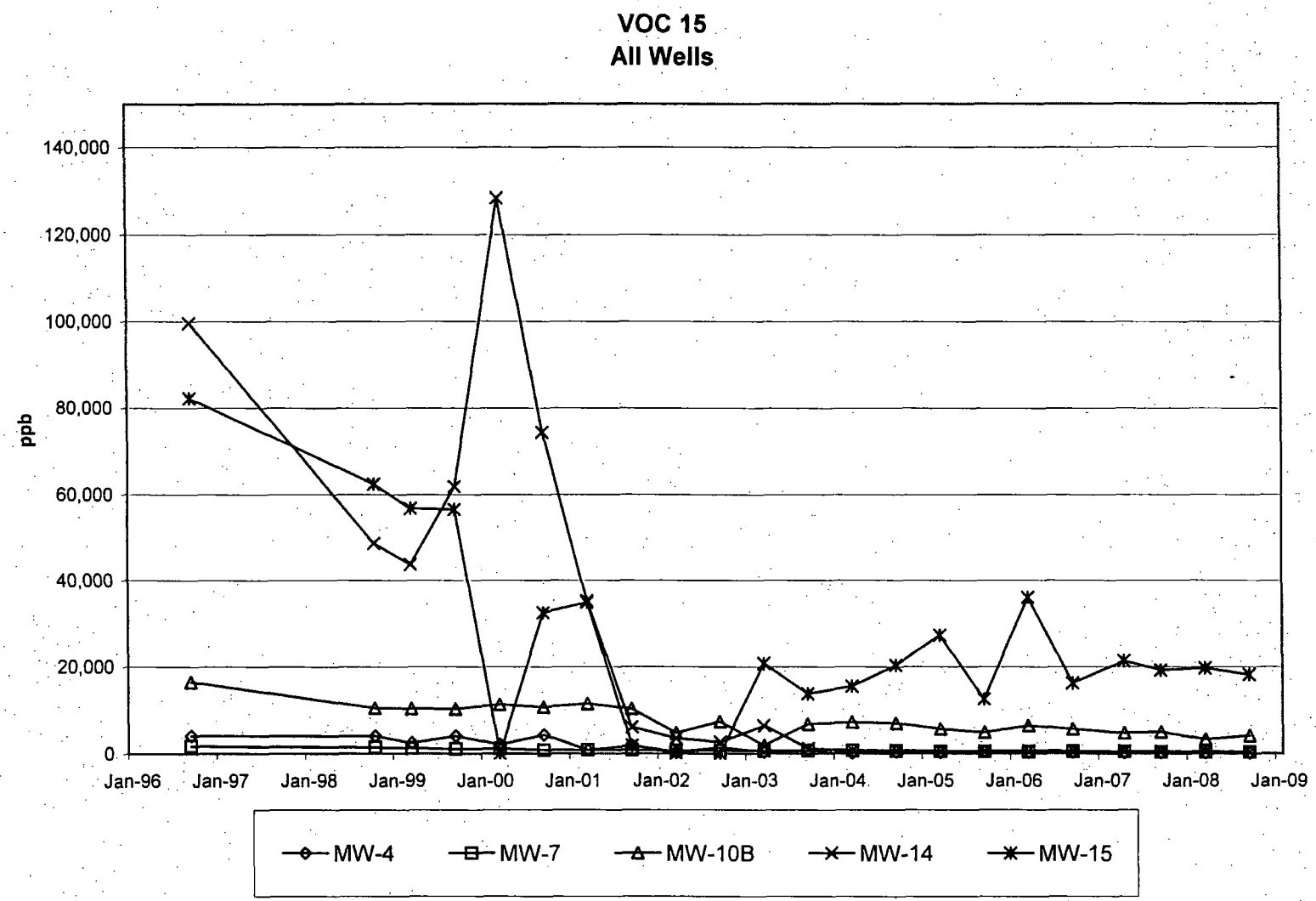
Notes: * TOC elevation data per EIS Survey of 9-25-96.

APPENDIX D

TREND GRAPHS

Note: For the following VOC result graphs, the data from a field duplicate sample are used if the computed VOC15 value from the field duplicate sample results is higher than the computed VOC15 value from the regular sample results for a given well. See report text for additional information regarding the calculation of the VOC15 value.

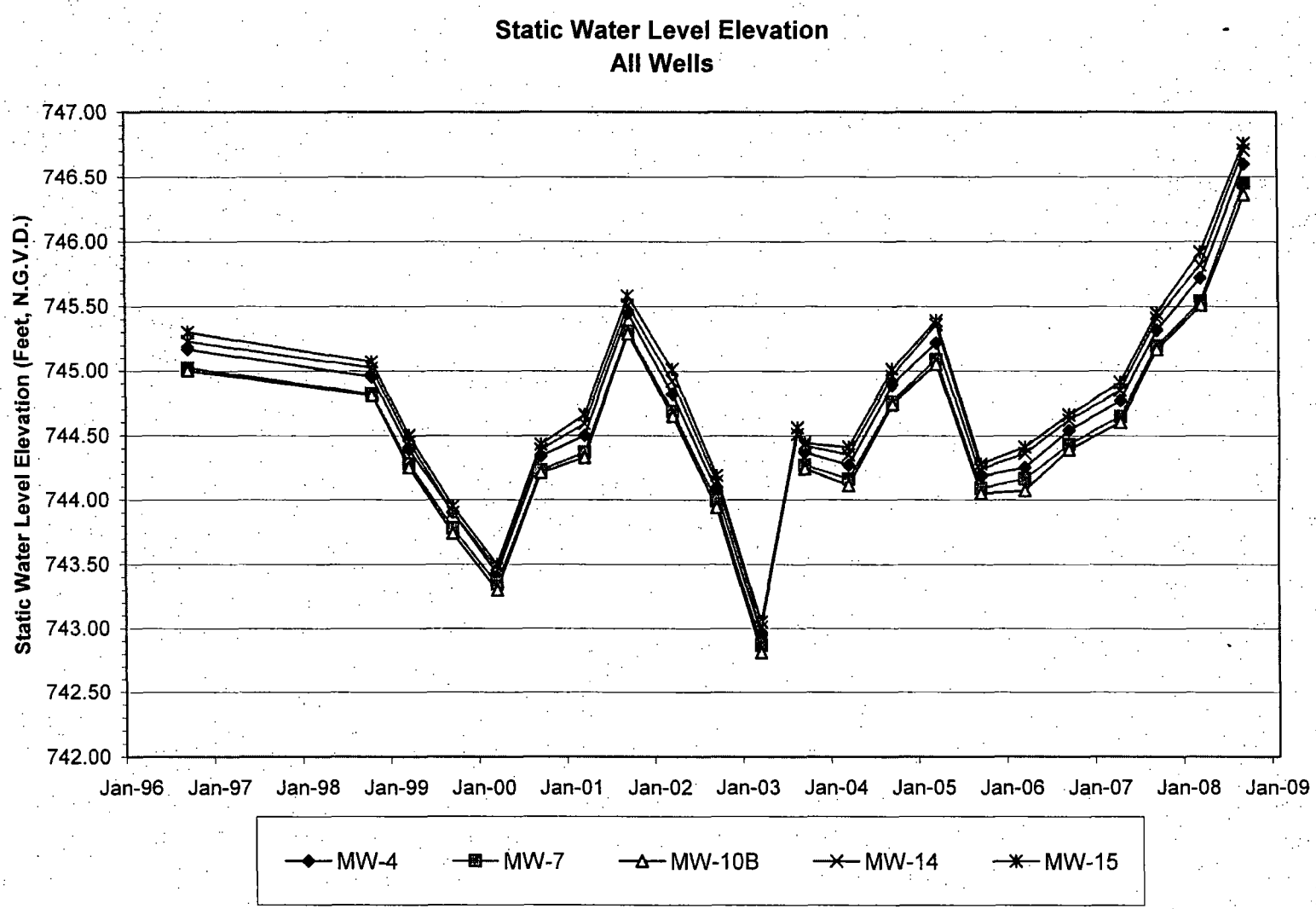
Accra Pac - Warner Baker Site
2626 Industrial Parkway
Elkhart, Indiana



11/7/2008

1092-0801-01 SEPT 2008 GW TREND GRAPHS.xls Chart VOC 15 (All Wells)
Prepared by Heartland Environmental Associates, Inc.

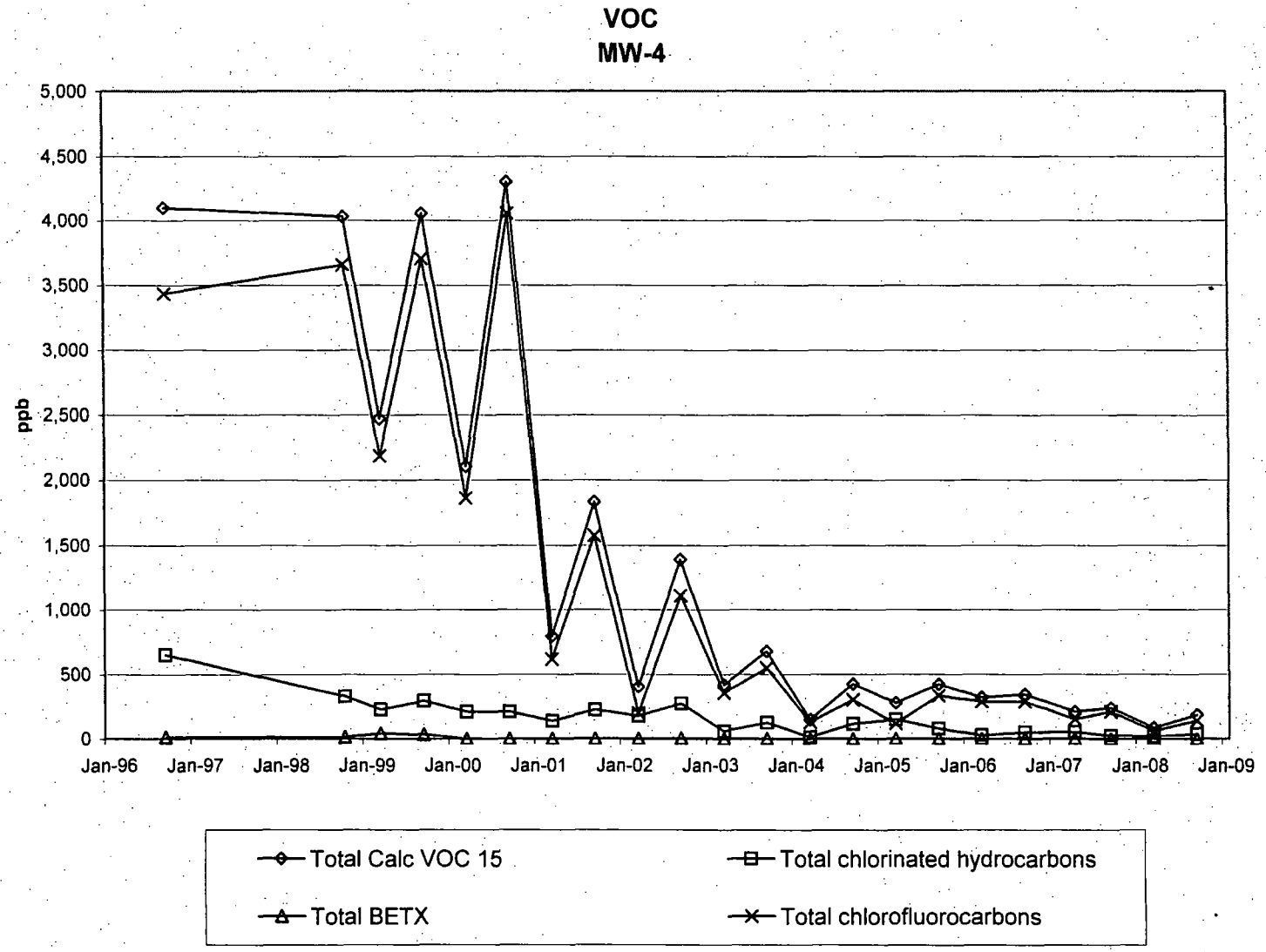
Accra Pac - Warner Baker Site
2626 Industrial Parkway
Elkhart, Indiana



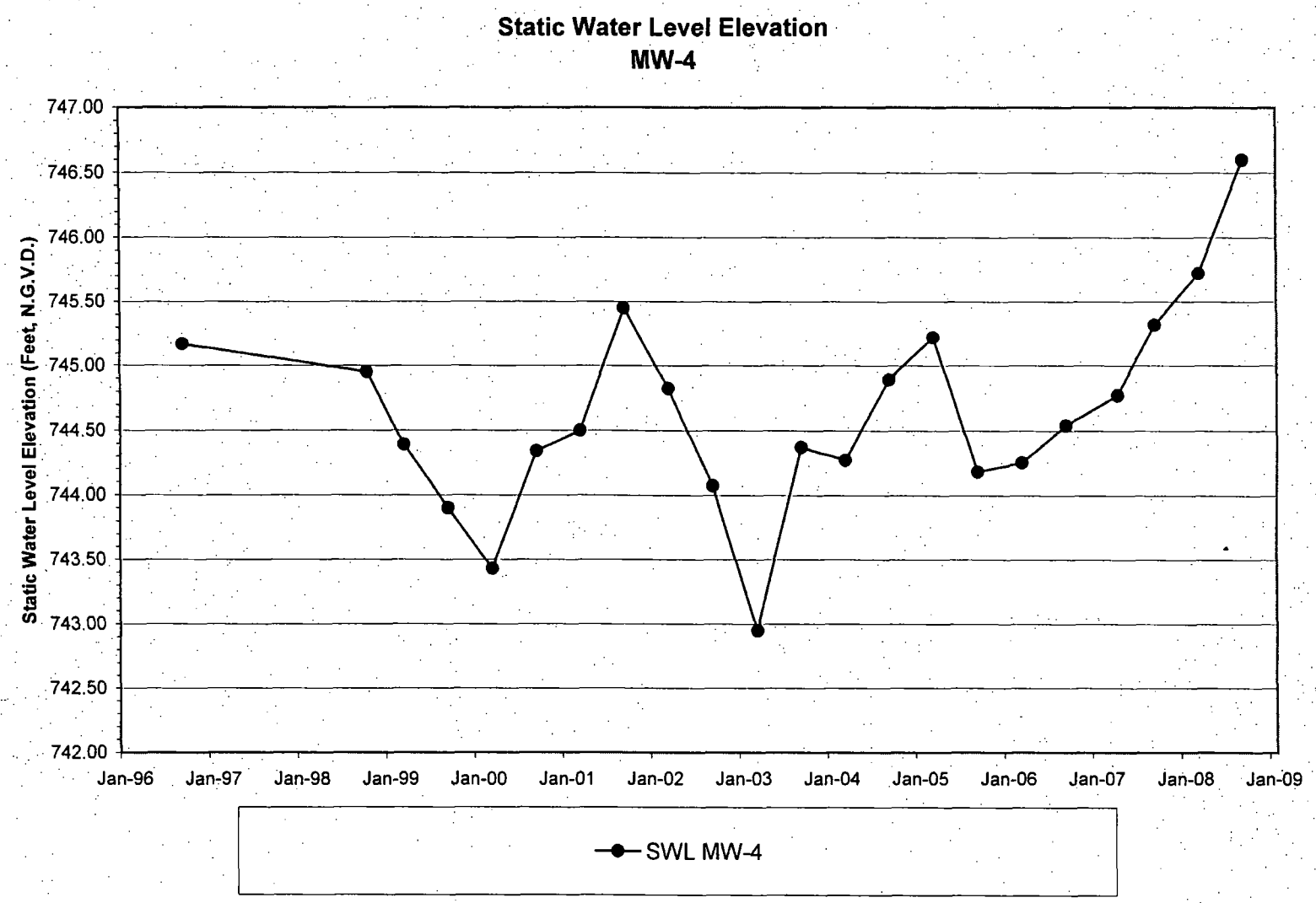
11/5/2008

1092-0801-01 SEPT 2008 GW TREND GRAPHS.xls Chart SWL (All Wells)
Prepared by Heartland Environmental Associates, Inc.

Accra Pac - Warner Baker Site
2626 Industrial Parkway
Elkhart, Indiana



Accra Pac - Warner Baker Site
2626 Industrial Parkway
Elkhart, Indiana



11/4/2008

1092-0801-01 SEPT 2008 GW TREND GRAPHS.xls Chart MW-4 (SWL)
Prepared by Heartland Environmental Associates, Inc.

Accra Pac - Warner Baker Site
2626 Industrial Parkway
Elkhart, Indiana
Groundwater Monitoring Data

MW-4	9/30/1996	10/1/1998	3/30/1999	9/30/1999	3/29/2000	9/25/2000	3/22/2001	9/19/2001	3/20/2002	9/24/2002	3/18/2003	9/25/2003	3/18/2004	9/21/2004	3/24/2005	9/1/2005	3/15/2006	9/14/2006	4/2/2007	9/17/2007	3/20/2008	9/16/2008
1,2-Dichlorobenzene	<1	<10	<10	<10	<10	<10	<10	<10	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichlordethane	580	220	120	190	170	180	110	170	160	211	48.9	86.6	6.8	102	145	57.7	19.6	36	46.7	16.1	14.4	30.2
1,2-Dichloroethane	<1	9.8	7	5.8	5.9	<5	<5	<5	<5	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	<1	<10	<10	<10	<10	<10	<10	<10	<5	9.5	<1	7.0	<1	<1	<1	1.8	<1	1.23	<1	<1	<1	<1
c-1,2-Dichloroethene	6.6	7.4	22	6	<5	<5	18	16	<5	5.7	<1	1.7	<1	2.1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorofluoromethane	43	90	74	86	63	47	36	75	<5	48.3	<1	26.2	<5	<5	<5	<5	5	<5	3.49	1.31	<5	<5
Ethylbenzene	<1	<5	9.4	6.5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7.6	15	8.2	11	7.4	<5	<5	5.5	<5	5.1	2.3	4.3	1.5	3.0	1.4	4.0	1.5	2.05	1.46	1.74	<1	1.44
Toluene	<1	<5	<5	<5	<5	<5	<5	<5	<5	1.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	36	66	46	74	20	29	9.7	28	9.2	36.9	7.8	23.2	3.8	9.4	5.6	15.9	4.8	9.81	4.41	5.12	1.89	5.55
Trichloroethene	6.4	13	12	7.1	5	<5	<5	5	<5	2.6	<1	1.1	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<10	<10	<10	<10	<10	<10	<10	<5	11.9	1.2	7.9	<1	1.6	<1	3.3	<1	2.19	<1	<1	<1	1.14
1,1,2-Trichlorotrifluoroethane	3390	3570	2110	3620	1800	4010	580	1500	200	1050	354	514	130	300	119	332	283	284	147	208	59.4	140
Vinyl chloride	14	<10	12	<10	<10	<10	<10	<10	7.1	2.2	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes	13	14	32	26	<10	<10	<10	<10	<5	1.9	<1	<1	<1	<1	<2	<2	<2	<3	<2	<2	<2	<2
Total Calc VOC 15	4099.1	4030.2	2470.1	4054.9	2103.8	4306	791.2	1832	403.8	1389.2	419.2	675.7	149.6	424.6	278	422.3	319.4	342.78	208.56	237.77	84.19	185.83
Total chlorinated hydrocarbons	650.6	331.2	227.1	293.9	208.3	209	137.7	225	176.3	274.3	59	125.1	12.1	116.5	152	80	25.9	49.09	52.57	22.96	16.29	37.19
Total BETX	13	14	41.4	32.5	0	0	0	0	0	3.7	0	0	0	0	0	0	0	0	0	0	0	0
Total chlorofluorocarbons	3433	3660	2184	3706	1863	4057	618	1575	200	1110.2	355	548.1	130	301.6	119	335.3	288	286.2	150.5	209.3	59.4	76
Static Water Level Elevation (Ft)	745.17	744.95	744.39	743.90	743.43	744.34	744.50	745.45	744.82	744.07	742.95	744.37	744.27	744.89	745.22	744.18	744.25	744.54	744.77	745.32	745.72	746.60

NOTE:

For graphing purposes, non-dedect values are calculated as follows:

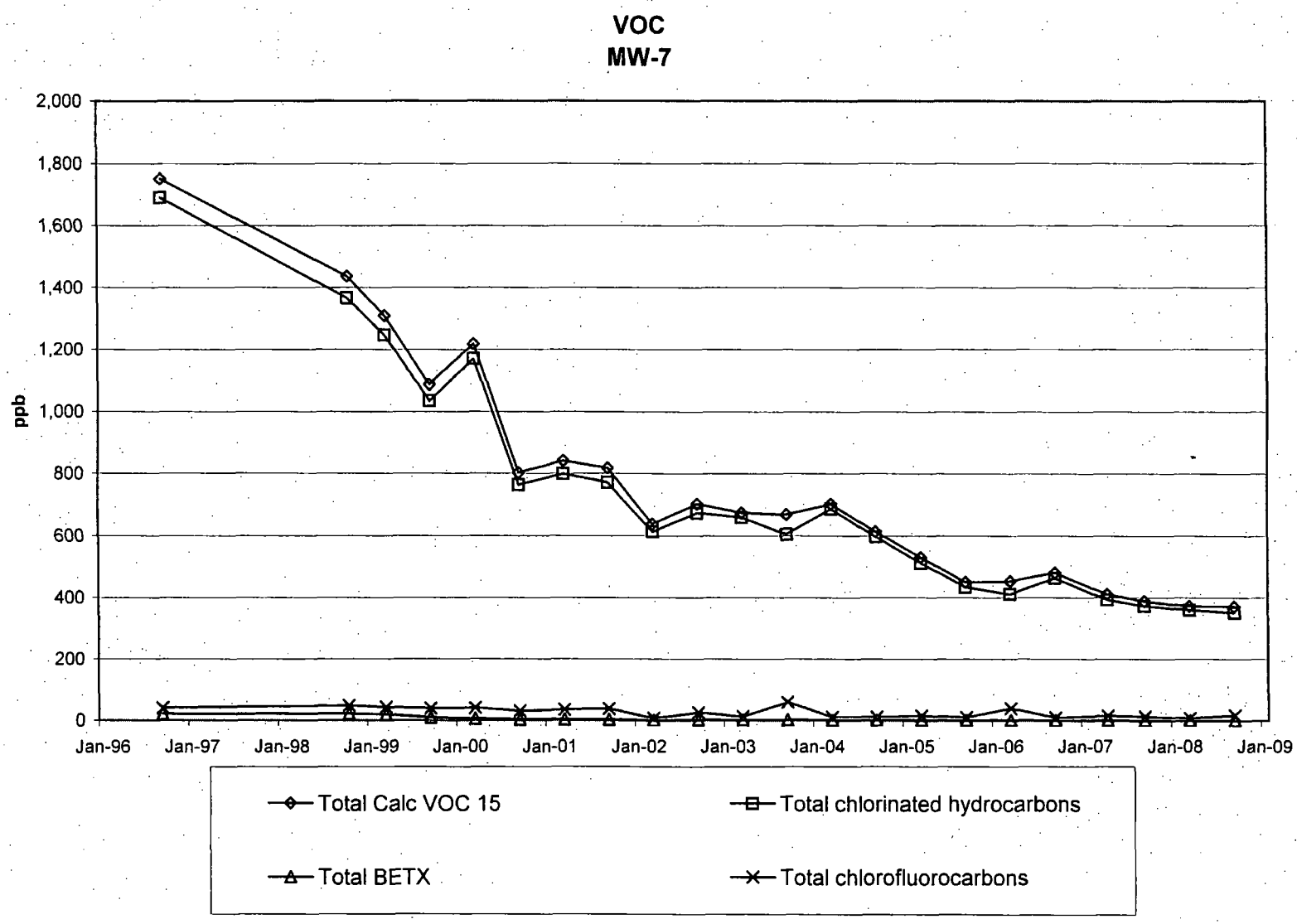
Total Calc. VOC 15: Non-detect values=1/2 detection limit.

Total chlorinated hydrocarbons: Non-detect values=zero.

Total BETX: Non-detect values=zero.

Total chlorofluorcarbons: Non-detect values=zero.

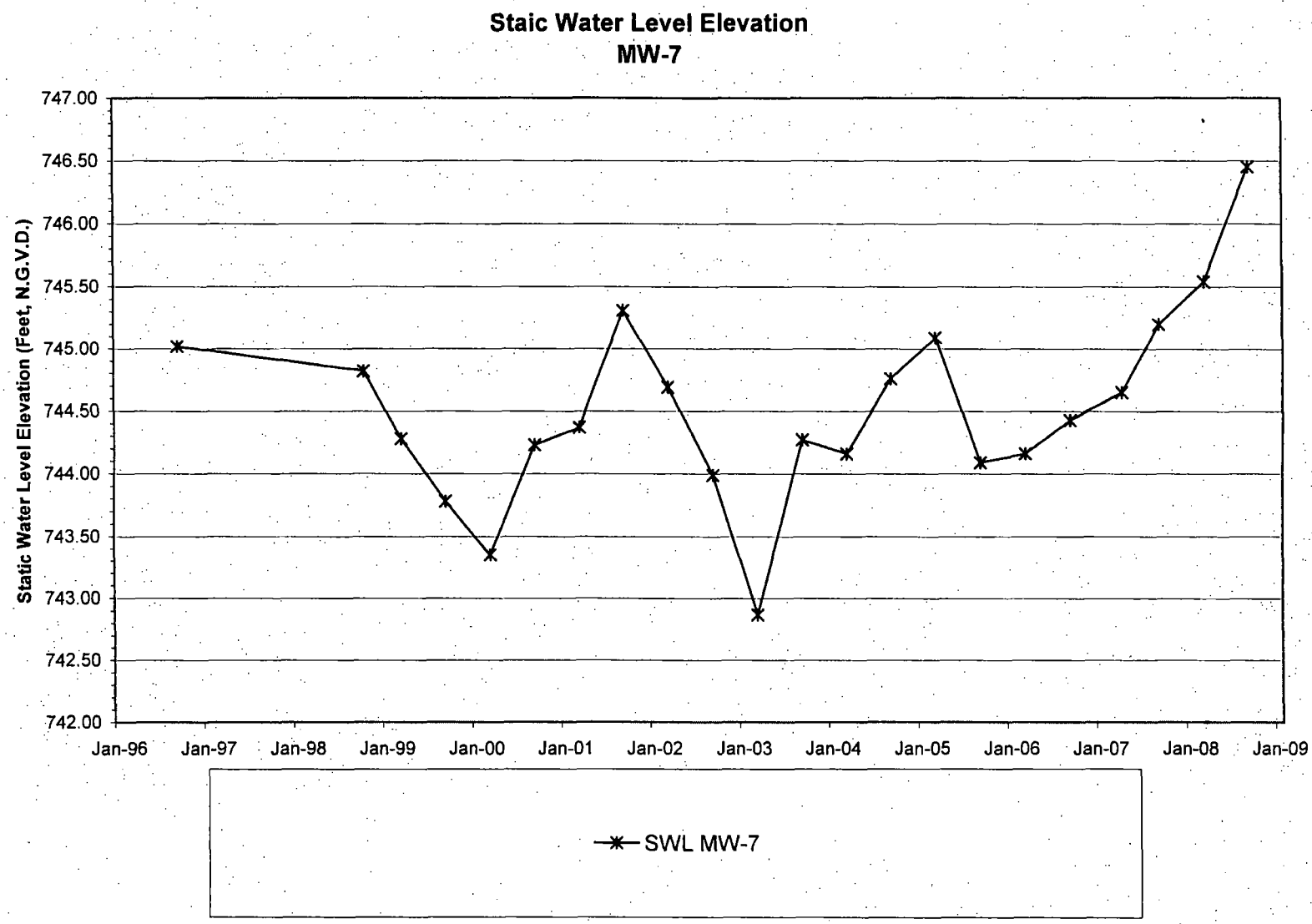
Accra Pac - Warner Baker Site
2626 Industrial Parkway
Elkhart, Indiana



11/7/2008

1092-0801-01 SEPT 2008 GW TREND GRAPHS.xls Chart MW-7 (VOC)
Prepared by Heartland Environmental Associates, Inc.

Accra Pac - Warner Baker Site
2626 Industrial Parkway
Elkhart, Indiana



11/4/2008

1092-0801-01 SEPT 2008 GW TREND GRAPHS.xls Chart MW-7 (SWL)
Prepared by Heartland Environmental Associates, Inc.

Accra Pac - Warner Baker Site
2626 Industrial Parkway
Elkhart, Indiana
Groundwater Monitoring Data

MW-7	9/30/1996	10/1/1998	3/30/1999	9/30/1999	3/29/2000	9/25/2000	3/22/2001	9/19/2001	3/20/2002	9/24/2002	3/18/2003	9/25/2003	3/18/2004	9/21/2004	3/24/2005	9/1/2005	3/15/2006	9/14/2006	4/2/2007	9/17/2007	3/20/2008	9/16/2008
1,2-Dichlorobenzene	25	17	17	14	6.6	10	8.9	9.5	8.1	9.3	9.5	8.6	7.3	6.3	5.7	3.4	5.9	5.65	4.14	3.61	3.32	2.71
1,1-Dichloroethane	1020	1030	940	810	910	550	570	540	430	491	512	452	535	460	398	329	303	370	293	272	273	270
1,2-Dichloroethane	5.6	11	11	7.6	7.3	3.1	3.6	3.2	5.1	5.6	4	3.7	2.3	2.2	2.8	2.3	1.8	<1	1.75	1.36	2.03	2.77
1,1-Dichloroethene	24	9.2	9.1	6.9	8.7	6.8	10	5.2	<5	3.3	2.9	3.6	2.6	3.0	2.8	2.1	2.5	2.08	2.35	2.29	1.94	1.68
c-1,2-Dichloroethene	110	37	34	30	45	35	51	38	35	24.6	20.2	22.4	23.1	24.2	24.4	18.8	20.8	21.1	23.9	27.5	22.1	17.9
Dichlorofluoromethane	<1	28	26	21	23	15	20	15	<5	9.9	<1	43	<5	<5	5.2	<5	7	<5	4.62	3.41	<5	7.19
Ethylbenzene	8	11	9.7	7.2	3.7	3.5	3.1	3.3	<5	2.4	1.7	2.3	1.6	1.7	1.8	1.2	1.5	1.23	1.25	<1	<1	<1
Tetrachloroethene	6.3	6.7	5.9	5.1	5.3	3.3	4.1	4.7	<5	4.8	4.4	5.7	4.9	4.9	4.6	4.0	5.3	4.46	5.31	5.16	5.58	5.53
Toluene	2.8	4	3.3	2.2	2	<2	<2	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	440	200	180	130	180	130	120	140	110	103	77	78	71.7	64.0	54.9	47.8	41.5	36.4	37.4	33.2	28.5	26.3
Trichloroethene	8.3	11	13	10	9.1	11	13	17	13	16.4	15.6	19.5	19.8	22.4	18	16.4	18.2	18.8	17.7	20.2	16.2	16.8
Trichlorofluoromethane	<1	<4	<4	<4	<4	<4	<4	<4	<5	2.2	1.2	1.5	1.2	1.0	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	40	19	16	18	17	15	14	23	6.7	13.8	11.3	15	9.9	10.2	10.0	10.1	32.2	9.84	10.6	9.31	7.71	9.98
Vinyl chloride	50	44	37	20	16	14	18	13	12	15.4	13.4	12.0	20.4	10.3	<1	10.6	11.9	5.24	7.39	7.08	7.10	7.09
Xylenes	9.6	6.4	5.9	<4	<4	<4	<4	<4	<5	<1	<1	<1	<1	<1	<2	<2	<2	<3	<2	<2	<2	<2
Total Calc VOC 15	1750.6	1436.3	1309.9	1086	1217.7	801.7	840.7	817	637.4	702.7	674.7	668.3	703.3	613.7	530.7	450.2	453.6	480.3	411.41	387.62	372.48	370.45
Total chlorinated hydrocarbons	1689.2	1365.9	1247	1033.6	1168	763.2	798.6	771	613.2	657	659	605	687.1	597.3	511.2	434.4	410.9	463.7	392.9	372.4	359.8	350.8
Total BETX	20.4	21.4	18.9	9.4	5.7	3.5	3.1	3	0	2.4	1.7	2.3	1.6	1.7	1.8	1.2	1.5	1.2	1.3	0	0	0
Total chlorofluorocarbons	40	47	42	39	40	30	34	38	6.7	25.9	12.5	59.5	11.1	11.2	527	10.1	39.2	9.8	15.2	12.7	7.7	17.2
Static Water Level Elevation (Ft)	745.02	744.83	744.28	743.78	743.35	744.23	744.37	745.31	744.69	743.99	742.87	744.27	744.16	744.76	745.09	744.09	744.16	744.43	744.65	745.20	745.54	746.45

NOTE:

For graphing purposes, non-dedect values are calculated as follows:

Total Calc. VOC 15: Non-detect values=1/2 detection limit.

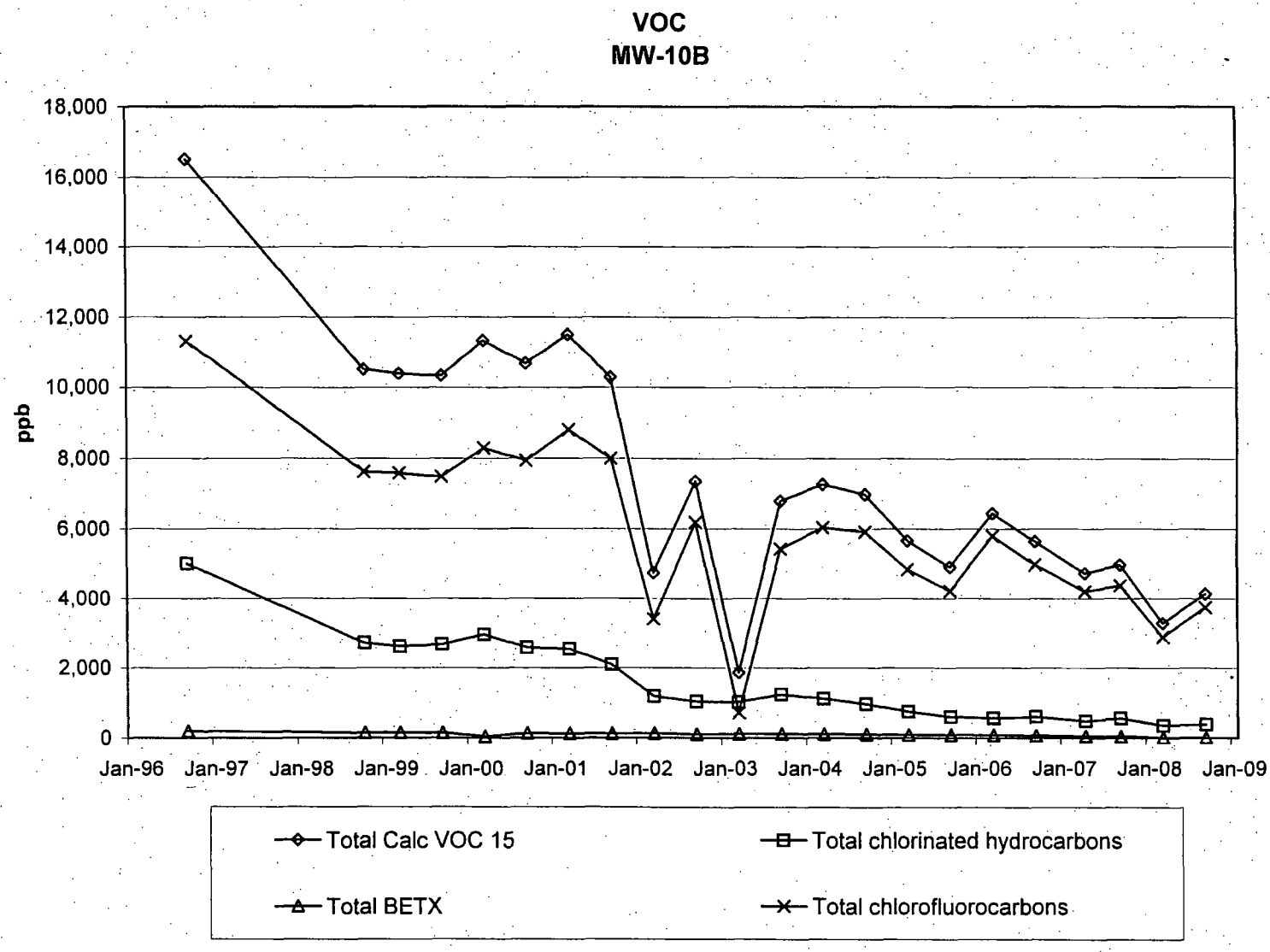
Total chlorinated hydrocarbons: Non-detect values=zero.

Total BETX: Non-detect values=zero.

Total chlorofluorcarbons: Non-detect values=zero.

Field Duplicate values are listed if Field Duplicate Total Calc. VOC 15 is higher.

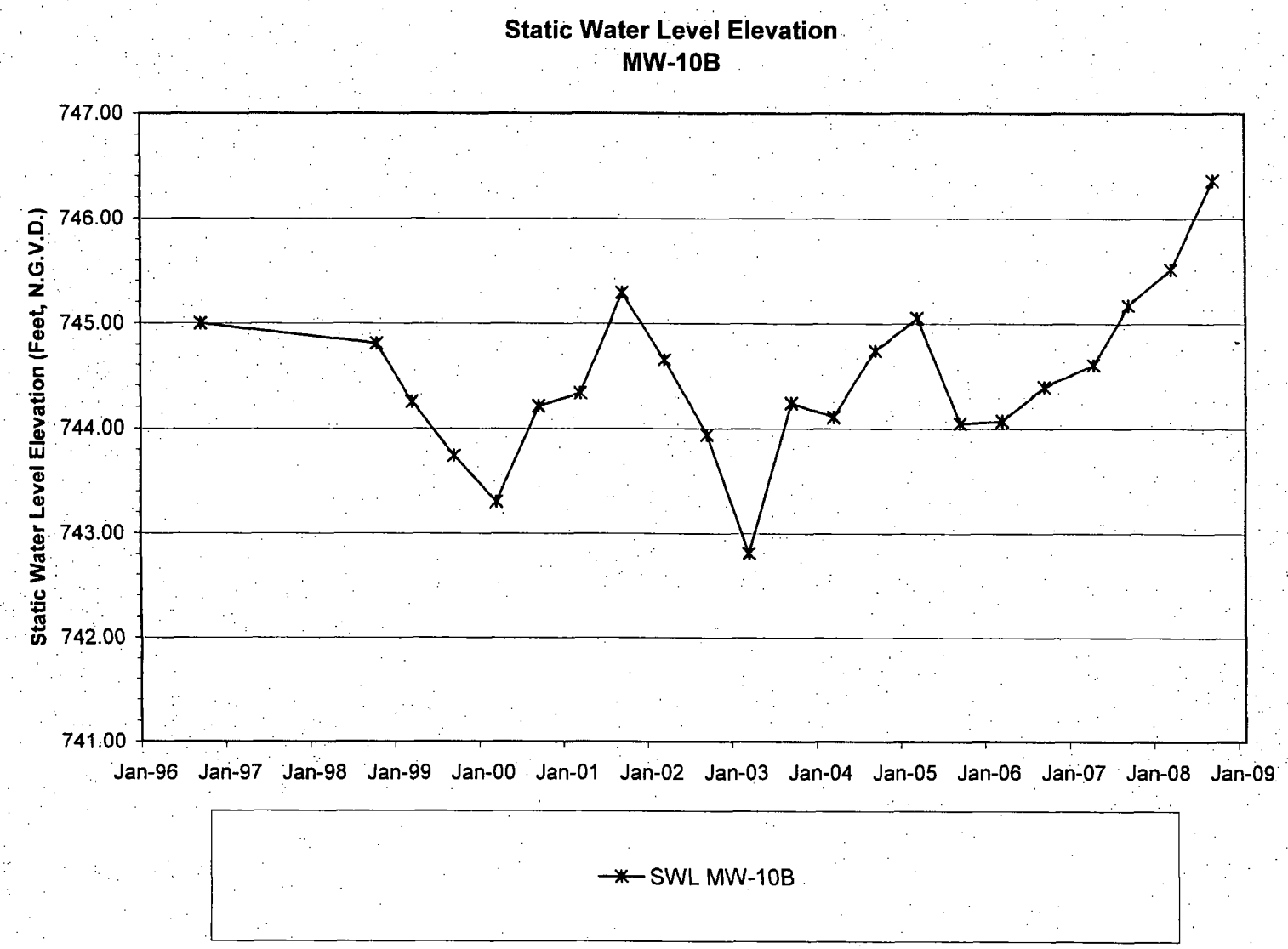
Accra Pac - Warner Baker Site
2626 Industrial Parkway
Elkhart, Indiana



11/4/2008

1092-0801-01 SEPT 2008 GW TREND GRAPHS.xls Chart MW-10B (VOC)
Prepared by Heartland Environmental Associates, Inc.

Accra Pac - Warner Baker Site
2626 Industrial Parkway
Elkhart, Indiana



11/4/2008

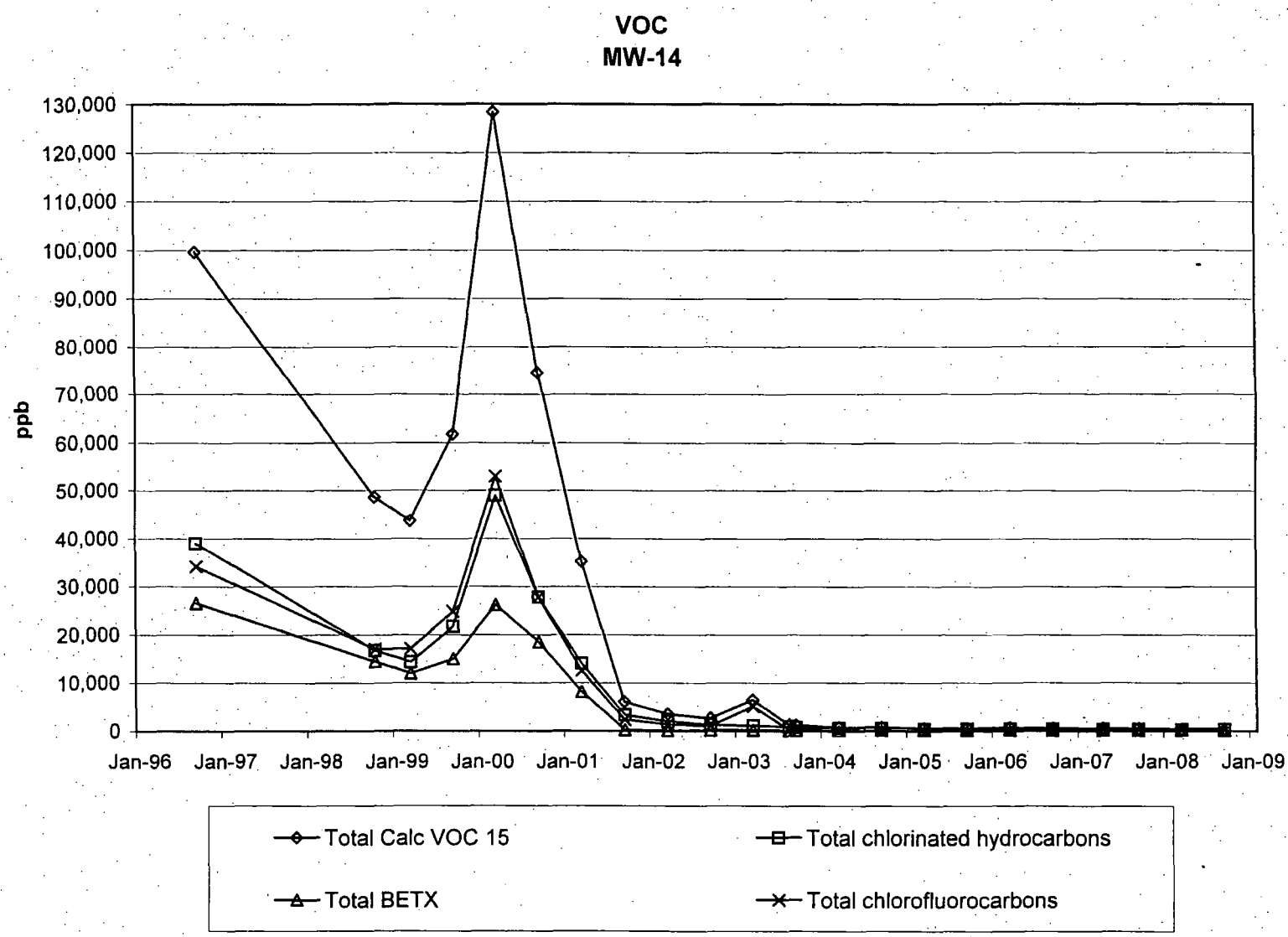
1092-0801-01 SEPT 2008 GW TREND GRAPHS.xls Chart MW-10B (SWL)
Prepared by Heartland Environmental Associates, Inc.

Accra Pac - Warner Baker Site
2626 Industrial Parkway
Elkhart, Indiana
Groundwater Monitoring Data

MW-10B	9/30/1998	10/1/1998	3/30/1999	9/30/1999	3/29/2000	9/25/2000	3/22/2001	9/19/2001	3/20/2002	9/24/2002	3/18/2003	9/25/2003	3/16/2004	9/21/2004	3/24/2005	9/1/2005	3/15/2006	9/14/2006	4/2/2007	9/17/2007	3/20/2008	9/16/2008
1,2-Dichlorobenzene	<1	<20	<20	<20	<20	<20	<20	<20	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,1-Dichloroethane	2460	1470	1430	1540	1740	1550	1570	1100	590	511	538	710	663	585	393	296	275	335	266	302	174	199
1,2-Dichloroethane	15	10	12	10	11	10	11	<10	8.3	<5	4.5	5.6	3.7	3.2	<1	1.8	1.4	<1	1.53	1.07	<5	<1
1,1-Dichloroethene	84	39	43	42	45	36	48	26	14	40.2	21.7	37.7	21.6	<1	19.8	20.5	<1	22.2	<1	9.67	<5	2.32
c-1,2-Dichloroethene	44	39	32	31	30	24	29	28	15	13.4	13.7	14.4	13.3	13.3	9.8	6.2	7.1	6.05	6.79	6.33	<5	2.97
Dichlorofluoromethane	<1	180	550	470	800	800	620	<50	67	174	17	249	<5	76.9	65.7	<5	81.4	<5	85.0	21.0	<25	17.4
Ethylbenzene	39	29	33	31	31	22	27	34	25	23.6	22	24.4	21.8	20.8	18.9	17.1	18.2	16.8	14.5	12.9	7.00	6.05
Tetrachloroethene	440	280	290	350	370	320	320	390	250	223	219	248	201	218	203	183	186	167	152	184	145	137
Toluene	<1	<10	<10	10	11	10	<10	<10	5	<5	4	3.6	3.3	2.8	2.6	2.0	2.1	1.35	1.02	<1	<5	<1
1,1,1-Trichloroethane	1940	870	810	700	760	640	560	547	310	255	220	221	162	145	112	87.7	82.3	61.5	45.7	44.0	34.2	33.3
Trichloroethene	<1	<10	<10	<10	<10	<10	<10	<10	<5	<5	5	5.8	4.9	4.9	5.2	4.1	4.9	4.63	4.43	4.56	<5	3.31
Trichlorofluoromethane	810	170	200	180	190	130	120	<20	39	33.6	21.6	26.6	21.6	22.2	<1	11.1	14.2	10.1	8.25	8.61	5.70	6.21
1,1,2-Trichlorotrifluoroethane	10500	7270	6830	6830	7310	7010	8070	8000	3300	5970	677	5150	6010	5810	4760	4200	5690	4960	4100	4340	2880	3720
Vinyl chloride	18	<20	<20	<20	<20	<20	<20	<20	4.1	<5	3.6	3.4	47.6	2.4	5.6	2.5	8.7	4.77	2.97	<1	<5	1.09
Xylenes	160	120	120	110	<20	100	100	88	100	85.8	90.8	89.7	82.4	74.4	61.0	66.1	61.7	43.7	33.0	25.9	<10	3.90
Total Calc VOC 15	16512	10507	10380	10329	11333	10677	11505	10283	4732.4	7329.8	1858.4	6789.7	7259.2	6979.9	5658.1	4901.1	6434	5636.6	4722.19	4961.54	3280.9	4134.05
Total chlorinated hydrocarbons	5001	2708	2817	2873	2956	2580	2538	2091	1191.4	1042.6	1025.5	1245.9	1117.1	971.8	748.4	601.8	585.4	601.15	479.42	551.63	353.2	378.99
Total BETX	199	149	153	151	42	132	127	122	130	109.4	116.8	117.7	107.5	98	82.5	85.2	82	61.85	48.52	38.8	7	9.95
Total chlorofluorocarbons	11310	7620	7580	7480	8300	7940	8810	8000	3406	6177.6	715.6	5425.6	6031.6	5909.1	4825.7	4211.1	5785.6	4970.1	4193.25	4369.61	2885.7	3743.61
Static Water Level Elevation (Ft)	745	744.81	744.25	743.74	743.3	744.21	744.33	745.29	744.65	743.94	742.81	744.24	744.11	744.74	745.05	744.05	744.07	744.39	744.60	745.17	745.51	746.36

NOTE:
For graphing purposes, non-dedect values are calculated as follows:
Total Calc. VOC 15: Non-detect values=1/2 detection limit.
Total chlorinated hydrocarbons: Non-detect values=zero.
Total BETX: Non-detect values=zero.
Total chlorofluorcarbons: Non-detect values=zero.

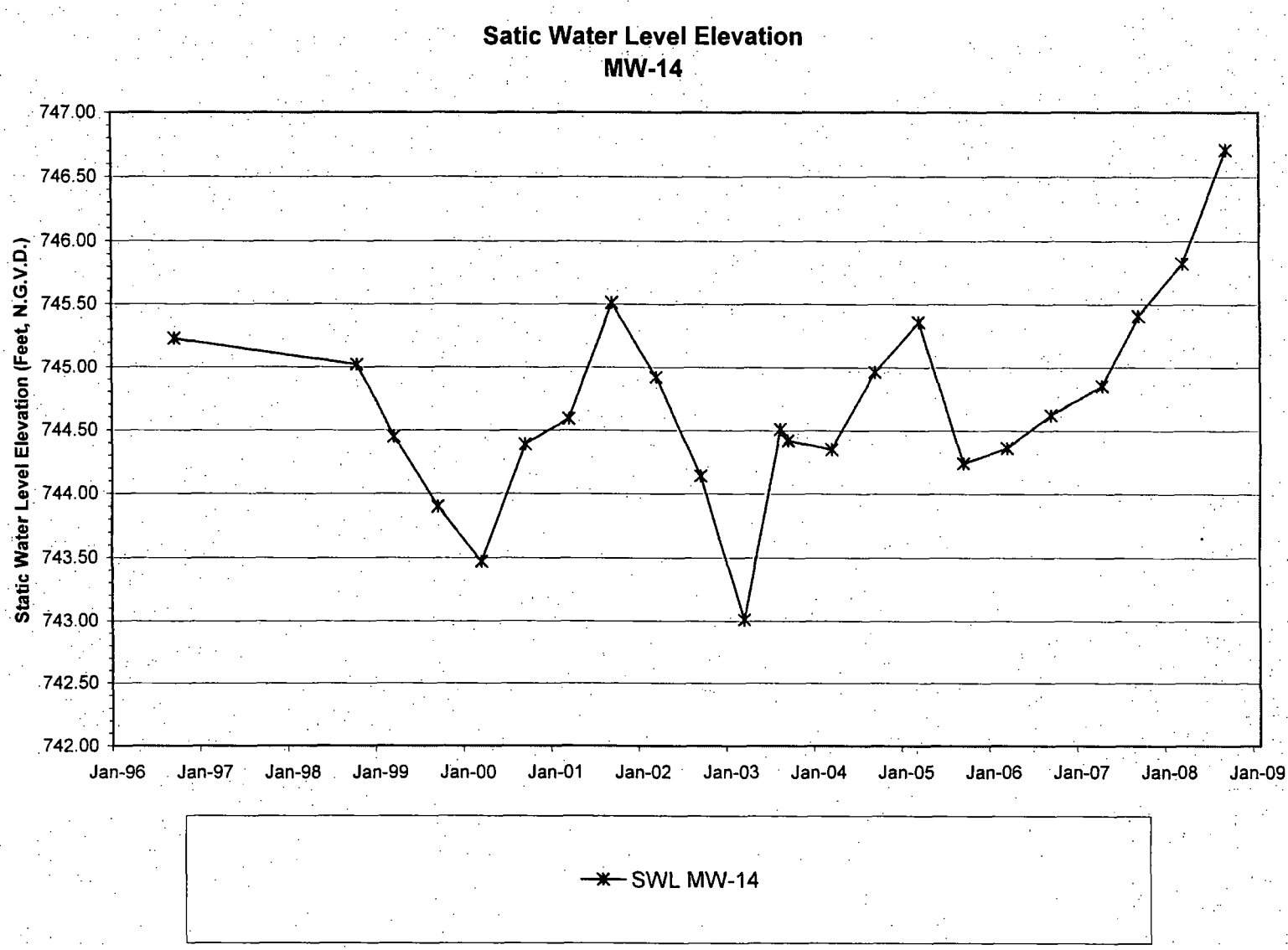
Accra Pac - Warner Baker Site
2626 Industrial Parkway
Elkhart, Indiana



11/4/2008

1092-0801-01 SEPT 2008 GW TREND GRAPHS.xls Chart MW-14 (VOC)
Prepared by Heartland Environmental Associates, Inc.

Accra Pac - Warner Baker Site
2626 Industrial Parkway
Elkhart, Indiana

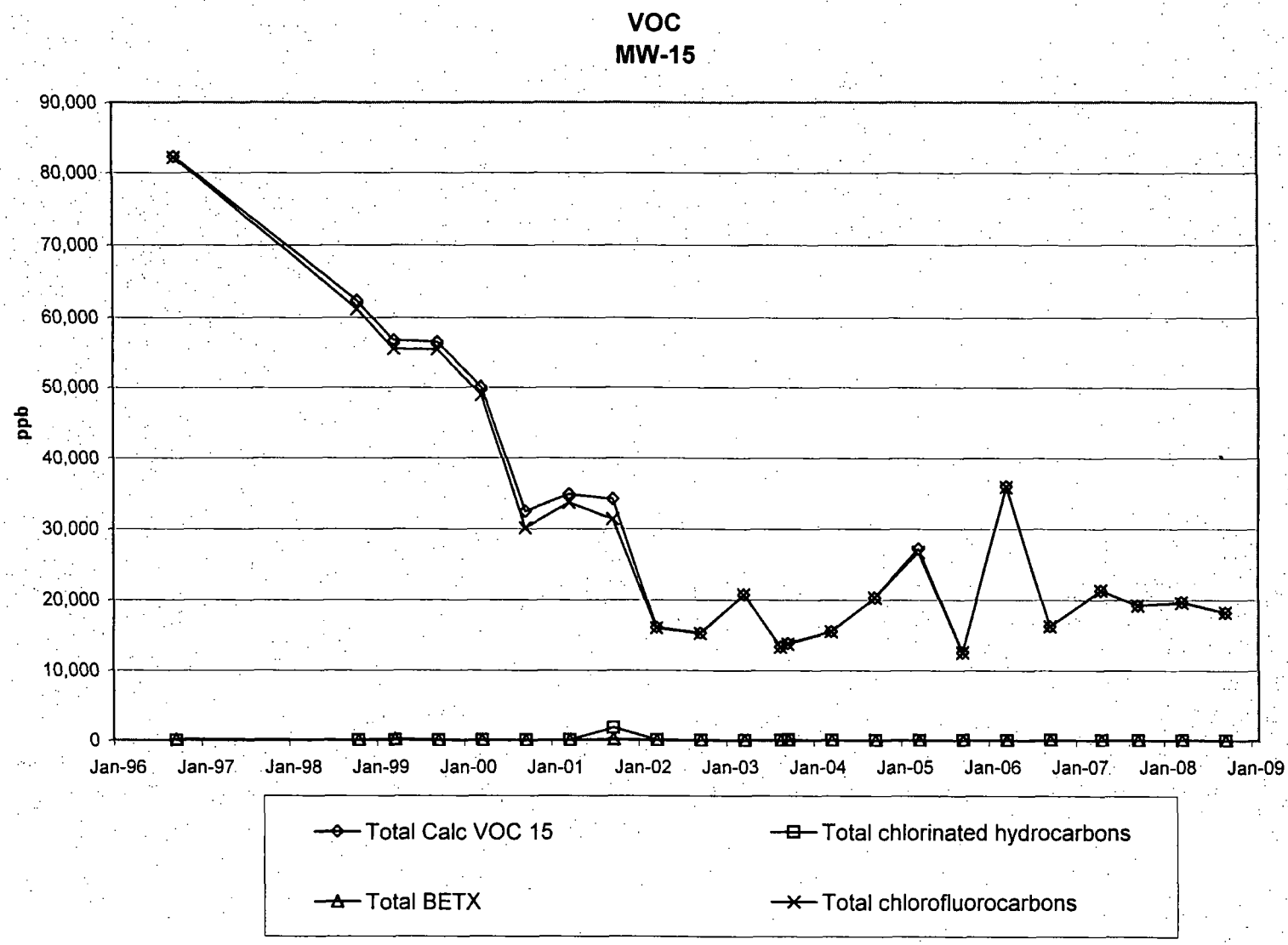


Accra Pac - Warner Baker Site
2626 Industrial Parkway
Elkhart, Indiana
Groundwater Monitoring Data

MW-14	9/30/1996	10/1/1998	3/30/1999	9/30/1999	3/29/2000	9/25/2000	3/22/2001	9/19/2001	3/20/2002	9/24/2002	3/18/2003	8/12/2003	9/25/2003	3/18/2004	8/21/2004	3/24/2005	9/1/2005	3/15/2006	9/14/2006	4/2/2007	9/17/2007	3/20/2008	9/16/2008
1,2-Dichlorobenzene	<1	<200	<200	<200	<200	<200	<200	8.2	6.4	<1	5.2	4.1	<1	1.4	1.5	1.6	1.4	1.8	1.36	1.58	1.39	1.23	<1
1,1-Dichloroethane	4370	2020	1770	2290	3340	1760	1080	685	330	258	261	162	117	69.2	57.7	49.9	75.0	82.0	80.1	69.3	63.6	49.7	73.5
1,2-Dichloroethane	<1	<100	<100	<100	<100	<100	<100	5.4	<5	2	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	1030	550	550	710	1560	810	600	25	10	<1	7.3	2.7	5.3	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1
c-1,2-Dichloroethene	<1	<100	<100	<100	<100	<100	<100	19	12	8.8	7.3	4.8	3.9	2.3	2.1	2.4	4.2	4.5	3.96	3.67	2.87	2.26	3.05
Dichlorofluoromethane	820	660	690	890	1560	750	<500	<5	16	51	<1	<1	<10	<5	<5	9.3	<5	17.7	<5	11.9	6.05	5.80	15.0
Ethylbenzene	630	350	380	480	770	390	220	87	62	48	46.2	27.7	24.9	4.4	3.4	3.8	3.2	4	3.72	3.84	3.83	3.15	2.68
Tetrachloroethene	3290	2080	1850	2540	4520	3300	1720	595	440	401	343	314	283	210	207	155	130	138	105	120	121	120	104
Toluene	23300	12700	10100	12800	22300	16100	6870	6.4	<5	2.6	1.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	30300	12100	10200	16100	39500	21900	10600	2030	940	600	435	304	242	157	115	73.4	66.5	57.4	48.4	41.1	37.5	30.2	25.6
Trichloroethene	<1	<100	<100	<100	<100	<100	<100	3.6	7.9	52.5	53	81.5	70.8	101	93.2	86.9	117	144	141	125	115	103	105
Trichlorofluoromethane	18600	8170	8690	13700	32800	15600	7010	1035	320	113	69.7	33.2	42.6	20.7	13.8	<1	6.1	8	8.35	7.16	5.69	4.04	3.47
1,1,2-Trichlorotrifluoroethane	14700	8210	7690	10200	18600	11400	5490	1300	1100	951	5000	251	350	155	271	170	126	208	142	123	120	105	104
Vinyl chloride	<1	<200	<200	<200	<200	<200	<200	2.1	250	2.6	1.9	<1	<1	1.5	<1	<1	1.1	2.8	1.4	1.90	1.00	<1	<1
Xylenes	2580	1390	1450	1720	3100	2000	1000	210	<5	176	167	93.7	75.8	11	1.1	<2	<2	<2	<3	<2	<2	<2	<2
Total Calc VOC 15	99622.5	48580	43720	61780	128400	74360	35190	6014	3501.8	2667.5	6400	1280.7	1222.3	737.5	770.3	555.8	536.1	670.7	540.8	510.95	480.43	427.38	439.80
Total chlorinated hydrocarbons	38990	16750	14370	21640	48920	27770	14000	3373	1996.3	1272.4	1115	873.1	722	542.4	476.5	369.2	396.3	430.5	381.2	362.6	342.4	306.4	311.2
Total BETX	26510	4440	11930	15000	26170	18490	8090	303	62	226.6	215	121.4	100.7	15.4	4.5	3.8	3.2	4	3.7	3.8	3.83	3.15	2.68
Total chlorofluorocarbons	34120	17040	17070	24790	52960	27750	12500	2335	1436	1115	5070	284.2	392.6	175.7	284.6	179.3	132.1	233.7	150.4	142.1	131.7	114.8	122.5
Static Water Level Elevation (Ft)	745.23	745.02	744.45	743.9	743.47	744.38	744.59	745.51	744.92	744.14	743.01	744.51	744.42	744.35	744.96	745.35	744.24	744.36	744.62	744.85	745.41	745.82	746.71

NOTE:
For graphing purposes, non-dedect values are calculated as follows:
Total Calc. VOC 15: Non-detect values=1/2 detection limit.
Total chlorinated hydrocarbons: Non-detect values=zero.
Total BETX: Non-detect values=zero.
Total chlorofluorcarbons Non-detect values=zero.

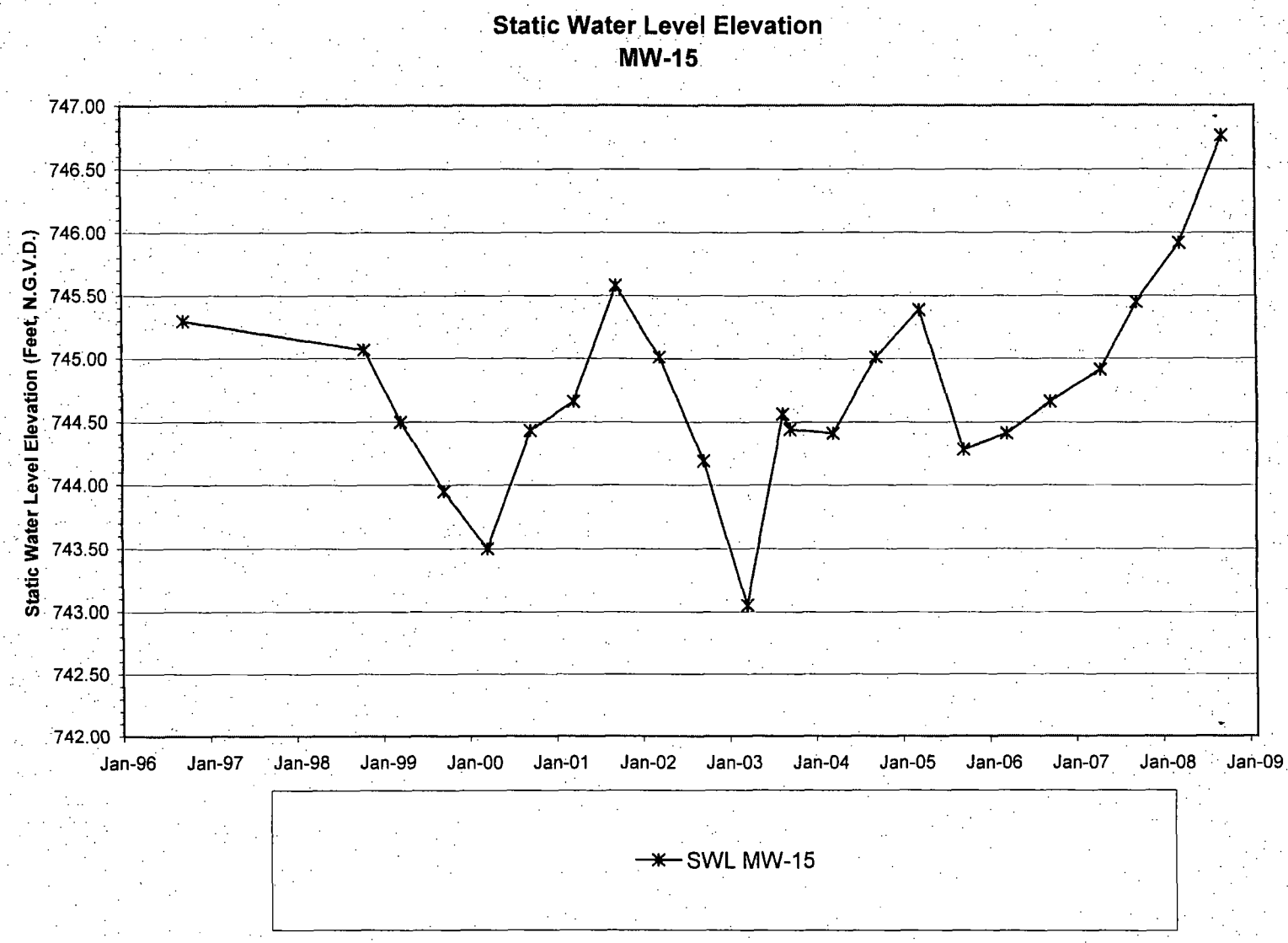
Accra Pac - Warner Baker Site
2626 Industrial Parkway
Elkhart, Indiana



11/4/2008

1092-0801-01 SEPT 2008 GW TREND GRAPHS.xls Chart MW-15 (VOC)
Prepared by Heartland Environmental Associates, Inc.

Accra Pac - Warner Baker Site
2626 Industrial Parkway
Elkhart, Indiana



11/4/2008

1092-0801-01 SEPT 2008 GW TREND GRAPHS.xls Chart MW-15 (SWL)
Prepared by Heartland Environmental Associates, Inc.

Accra Pac - Warner Baker Site
2626 Industrial Parkway
Elkhart, Indiana
Groundwater Monitoring Data

MW-15	9/30/1996	10/1/1998	3/30/1999	9/30/1999	3/29/2000	9/25/2000	3/22/2001	9/19/2001	3/20/2002	9/24/2002	3/18/2003	8/12/2003	9/25/2003	3/18/2004	9/21/2004	3/24/2005	9/1/2005	3/15/2006	9/14/2006	4/2/2007	9/17/2007	3/20/2008	9/16/2008
1,2-Dichlorobenzene	<1	<200	<200	<200	<200	<200	<200	<200	<5	<10	<1	4.2	<1	<1	<1	<50	<5	<10	<1	<1	<1	<10	<1
1,1-Dichloroethane	<1	<100	<100	<100	<100	<100	<100	100	<5	<10	<1	<1	1.2	1	1	<50	<5	<10	<1	1.02	<1	<10	<1
1,2-Dichloroethane	<1	<100	<100	<100	<100	<100	<100	<100	<5	<10	<1	<1	<1	<1	<1	<50	<5	<10	<1	<1	<1	<10	<1
1,1-Dichloroethene	<1	<200	<200	<200	<200	<200	<200	<200	<5	<10	<1	<1	50.6	<1	<1	<50	<5	<10	50.3	<1	<1	<10	<1
c-1,2-Dichloroethene	<1	<100	<100	<100	<100	<100	<100	<100	<5	<10	<1	<1	<1	<1	<1	<50	<5	<10	<1	<1	<1	<10	<1
Dichlorofluoromethane	110	<500	<500	<500	<500	<500	<500	<500	<5	<10	2.5	<1	<100	<5	<5	<250	<5	<50	<5	<1	<1	<50	<5
Ethylbenzene	<1	<100	<100	<100	<100	<100	<100	158	<5	<10	1.7	2.7	1.4	<1	<1	<50	<5	<10	<1	<1	<1	<10	<1
Tetrachloroethene	<1	<100	<100	<100	<100	<100	<100	980	<5	<10	1	<1	1.2	<1	<1	<50	<5	<10	1.65	1.76	1.87	<10	<1
Toluene	<1	<100	<100	<100	<100	<100	<100	<100	<5	<10	<1	<1	<1	<1	<1	<50	<5	<10	<1	<1	<1	<10	<1
1,1,1-Trichloroethane	<1	<100	<100	<100	<100	<100	<100	730	35	15.6	11	5.8	8.8	9.2	<1	<50	7.2	13.6	4.93	6.37	5.92	<10	4.07
Trichloroethene	<1	<100	<100	<100	<100	<100	<100	<100	<5	<10	<1	<1	<1	<1	<1	<50	<5	<10	<1	<1	<1	<10	<1
Trichlorofluoromethane	<1	<200	<200	<200	<200	<200	<200	980	<5	<10	<1	<1	<1	<1	<1	<50	<5	<10	<1	<1	<1	<10	<1
1,1,2-Trichlorotrifluoroethane	82000	61200	55500	55400	48900	30100	33700	30400	16000	15200	20700	13300	13700	15500	20300	26700	12500	35900	16200	21300	19200	19600	18200
Vinyl chloride	<1	<200	<200	<200	<200	<200	<200	<200	<2	<10	<1	<1	<1	<1	<1	<50	<5	<10	<1	<1	<1	<10	<1
Xylenes	140	<200	200	<200	<200	<200	<200	<200	18	<10	9.4	13.2	6.6	3.7	<1	<100	<10	<20	<3	<2	3.75	<20	<2
Total Calc VOC 15	82256	62350	56750	56550	50050	32450	34850	34198	16081.5	15280.6	20730.1	13330.9	13823.3	15521.4	20309	27175	12542.2	36003.6	16265.38	21315.15	19217.04	19695	18313.07
Total chlorinated hydrocarbons	0	0	0	0	0	0	0	1810	35	15.6	12	10	61.8	10.2	0	0	0	13.6	56.88	9.15	7.79	0	4.07
Total BETX	140	0	200	0	0	0	0	158	18	0	1.7	15.9	8	3.7	0	0	0	0	0	0	3.75	0	0
Total chlorofluorocarbons	82110	61200	55500	55400	48900	30100	33700	31380	16000	15200	20702.5	13300	13700	15500	20300	26700	12500	35900	16200	21300	19200	19600	18200
Static Water Level Elevation (Ft)	745.30	745.07	744.50	743.95	743.50	744.43	744.66	745.58	745.01	744.19	743.05	744.51	744.44	744.41	745.01	745.39	744.28	744.41	744.66	744.91	745.45	745.92	746.76

NOTE:
For graphing purposes, non-dedect values are calculated as follows:
Total Calc. VOC 15: Non-detect values=1/2 detection limit.
Total chlorinated hydrocarbons: Non-detect values=zero.
Total BETX: Non-detect values=zero.
Total chlorofluorcarbons: Non-detect values=zero.