

Environmental Investigation & Remediation

August 12, 2010

Mr. Jeffrey J. Kavanaugh State Cleanup Section Indiana Department of Environmental Management 100 North Senate Avenue Indianapolis, Indiana 46204

RE: Vapor Residential Sampling & Mitigation Report
Former Harman-Becker Automotive Systems, Inc.
1201 South Ohio Street
Martinsville, Morgan County, Indiana
State Cleanup Site #1996-06-183
SESCO Project No. 3872

Dear Mr. Kavanaugh:

SESCO Group (SESCO) respectfully submits this Vapor Residential Sampling & Mitigation Report, for the Former Harman-Becker Automotive Systems facility, located at 1201 South Ohio Street, Martinsville, Indiana (the Site). This report summarizes the results of the vapor intrusion sampling events of the residential area immediately downgradient of the Site and recommended actions. The sampling activities were conducted to address potential vapor intrusion in the residences, in accordance with Indiana Department of Environmental Management (IDEM) Draft Vapor Intrusion Pilot Program Guidance Supplement (February 4, 2010) regulations and guidelines.

Indoor air vapor samples were collected from 11 single-family residences and one (1) four-unit apartment building from March through May 2010. Sub-slab vapor samples were collected from three (3) of the residences and the apartment building, during the same period. The locations of the residences are included as Figure 1. Seven (7) of the residences have vapor mitigation systems. The locations of the residences with systems are included on Figures 2 and 3.

### 1 Vapor Intrusion Sampling Procedures

Indoor air vapor samples were collected from 12 residential buildings, immediately downgradient of the Site, from March through May 2010. Sub-slab vapor samples were

collected from four (4) of the residential buildings, during the same period. The potential for volatile organic compound (VOC) vapors (specifically tetrachloroethylene (PCE) and trichloroethylene (TCE)) to migrate into the indoor air of residences was investigated by collecting indoor air samples from the following residences (\* - indicates vapor mitigation system installed):

- 1210 Ohio Street
- 1240 Ohio Street
- 1309 Ohio Street
- 520 Basca Drive \*
- 540 Basca Drive
- 1304 Clore Street \*
- 1334 Clore Street \*
- 1354 Clore Street \*
- 1355 Clore Street \*
- 1385 Clore Street \*
- 1398 Clore Street \*
- 1399 Clore Street

Sub-slab vapor ports and subsequent samples were collected from 1210 and 1240 Ohio Street and 1398 Clore Street.

### 1.1 Indoor Air Sampling Procedures

Indoor air samples were collected from 12 residential buildings in the vicinity of the Site. An ambient (background) air sample (AA-1) was collected outdoors, west of 1210 Ohio Street. The indoor air samples were collected during a cool weather period that maximized the potential for vapor intrusion. The furnaces at each residence were operating at the time of sampling. Indoor air samples were collected by placing a six-liter (6-L) Summa canister (equipped with 24-hour flow regulators) placed approximately 3-5 feet above the floor in the breathing zone in a centrally located position, in accordance with Appendix III of the IDEM Draft Vapor Intrusion Pilot Program Guidance (February 4, 2010) document, for sampling under conditions conducive to vapor transport. Indoor air samples were analyzed for VOCs using United States Environmental Protection Agency (USEPA) Test Method TO-15. Vapor sampling logs are provided in Appendix A. An Indoor Air Building Survey Checklist, obtained from the IDEM Draft Vapor Intrusion Pilot Program Guidance (February 4, 2010) document, was completed for sampling locations and provided in Appendix B.

### 1.2 Sub-Slab Probe Installation

The sub-slab sampling probes at 1210 and 1240 Ohio Street and 1398 Clore Street were installed on April 6, 2010, by SESCO. Holes for the sub-slab sampling probes were drilled in the concrete slabs using a rotary hammer drill. A 2-inch outer diameter (OD) hole was drilled approximately 0.5-inch into the concrete slabs. An inner 3/8-inch OD hole was then drilled

through the remainder of the concrete and approximately 2-inches into the sub-slab material to create a cavity for sampling. The probes were constructed to allow for collection of air samples directly beneath the slab. The sample probes were installed several days prior to sampling and are flush with the upper surface of the slab. The sub-slab sampling probes were constructed with NPT Swagelok stainless-steel compression fittings.

### 1.3 Sub-Slab Vapor Sample Collection

Sub-slab air samples were collected at 1210 and 1240 Ohio Street and 1398 Clore Street by connecting the sub-slab vapor probes to a "T" fitting, which was also connected to a one-liter (1-L) Summa canister and a portable vacuum pump. A vacuum pump was used to purge the sub-slab probe and the sampling apparatus. The in-line valve on the pump end of the "T" fitting was closed after purging was complete and a grab sample was then collected by opening the valve on the Summa canister. The sub-slab air samples were analyzed for VOCs using USEPA Test Method TO-15.

### 2 Vapor Intrusion Analytical Results

A total of 22 indoor air samples, four (4) sub-slab samples, and one (1) ambient air sample were collected from the 12 residential buildings from March through May 2010. The results from the sampling events are provided in Figures 2 and 3 and Tables 1 and 2.

### 2.1 Indoor Air Analytical Results

The laboratory results were compared to the 30-year chronic action levels listed in the *IDEM Draft Vapor Intrusion Pilot Program Guidance (February 4, 2010)* document. The indoor air results for each residence are provided in **Figure 2** and **Table 1**. The individual indoor air reports, sent to the residents, are provided in **Appendix D**.

### 2.1.1 520 Basca Drive

On March 17, 2010, SESCO personnel collected one (1) indoor air sample from the Rhine residence, which is a one-story structure with a crawl space. The residence currently has a vapor mitigation system that was installed by Keramida, Inc. (Keramida) on February 18, 2009. All VOCs were below the IDEM 30-Year Chronic Residential Indoor Air Action Levels, with the exception of PCE, at 3.2 ug/m<sup>3</sup>. SESCO upgraded the vapor mitigation system at the residence on June 25, 2010. The *Sub-Membrane Depressurization System* schematics are provided in **Appendix E.** SESCO will collect additional indoor air samples during the 2010 winter season and continue to inspect the vapor mitigation system, on a semi-annual basis, to ensure it is functioning properly.

### 2.1.2 540 Basca Drive

On March 17, 2010, SESCO personnel collected one (1) indoor air sample from the Chastain residence, which is a one-story structure with a crawl space. All VOCs were below the IDEM 30-Year Chronic Residential Indoor Air Action Levels and no further sampling is warranted at this time.

### 2.1.3 1209 Ohio Street

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SESCO was unable to gain access to 1209 Ohio Street, thus indoor air and sub-slab vapor samples were not collected. Contact will continue to be attempted in order to establish whether or not vapor intrusion is a concern at the residence.

### 2.1.4 1210 Ohio Street

On March 30, 2010, SESCO personnel collected three (3) indoor air samples (including a duplicate sample) and an ambient air sample from the Johns residence, which is a one-story structure with a basement. At the time of sampling, the house was unoccupied; Virginia Johns (property owner) resides with family outside of the Martinsville, Indiana, area during the winter months. All VOCs were below the IDEM 30-Year Chronic Residential Indoor Air Action Levels, with the exception of methylene chloride in the ambient air sample (AA-1). Methylene chloride is commonly used in paint removers and in laboratories as a method of extracting other chemical compounds from groundwater samples. Methylene chloride is not associated with the contaminants of concern found at the Site. The presence of methylene chloride in the ambient air sample indicates the source is from a background source or a laboratory artifact, and no further sampling is warranted at this time.

### 2.1.5 1240 Ohio Street

On March 22, 2010, SESCO personnel collected three (3) indoor air samples from the Stierwalt residence, which is a two-story structure with a basement. All VOCs were below the IDEM 30-Year Chronic Residential Indoor Air Action Levels, with the exception of benzene and 1,2,4-trimethylbenzene. Benzene and 1,2,4-trimethylbenzene are commonly found in paints, paint strippers, wood preservatives, aerosol sprays, cleansers and disinfectants, insect repellents, cigarette smoke, and stored fuels and automotive products, and are not associated with the contaminants of concern found at the Site. The presence of benzene and 1,2,4-trimethylbenzene indicates a potential background source, and no further sampling is warranted at this time.

### 2.1.6 1309 Ohio Street

On March 22, 2010, SESCO personnel collected one (1) indoor air sample from the Thomas residence, which is a one-story structure with a crawl space. All VOCs were below the IDEM 30-Year Chronic Residential Indoor Air Action Levels and no further sampling is warranted at this time.

### 2.1.7 1339 Ohio Street

SESCO was unable to gain access to 1339 Ohio Street, thus indoor air and sub-slab vapor samples were not collected. Contact will continue to be attempted in order to establish whether or not vapor intrusion is a concern at the residence.

### 2.1.8 1304 Clore Street

On May 17, 2010, SESCO personnel collected two (2) indoor air samples from the Payne residence, which is a one-story structure with both a basement and a crawl space. The

residence currently has two (2) vapor mitigation systems that were installed by Keramida on March 16, 2009. All VOCs were below the IDEM 30-Year Chronic Residential Indoor Air Action Levels. SESCO will collect additional indoor air samples during the 2010 winter season and continue to inspect the vapor mitigation system, on a semi-annual basis, to ensure it is functioning properly.

### 2.1.9 1305 Clore Street

SESCO was unable to gain access to 1305 Clore Street, thus indoor air and sub-slab vapor samples were not collected. Contact will continue to be attempted in order to establish whether or not vapor intrusion is a concern at the residence.

### 2.1.10 1334 Clore Street

On March 22, 2010, SESCO personnel collected one (1) indoor air sample from the Brock residence, which is a one-story structure with a crawl space. The residence currently has a vapor mitigation system that was installed by Keramida on March 4, 2009, and upgraded on March 28, 2009. All VOCs were below the IDEM 30-Year Chronic Residential Indoor Air Action Levels. SESCO will collect additional indoor air samples during the 2010 winter season and continue to inspect the vapor mitigation system, on a semi-annual basis, to ensure it is functioning properly.

### 2.1.11 1335 Clore Street

SESCO was unable to gain access to 1335 Clore Street, thus indoor air and sub-slab vapor samples were not collected. A previous sampling event conducted by Keramida showed concentrations of PCE above the IDEM 30-Year Chronic Residential Indoor Air Action Levels. Access will continue to be attempted in order to establish whether or not indoor air concentrations are still above IDEM action levels.

### 2.1.12 1354 Clore Street

On March 17, 2010, SESCO personnel collected one (1) indoor air sample from the Quakenbush residence, which is a one-story structure with a crawl space. The residence currently has a vapor mitigation system that was installed by Keramida on February 11, 2009. All VOCs were below the IDEM 30-Year Chronic Residential Indoor Air Action Levels. SESCO will collect additional indoor air samples during the 2010 winter season and continue to inspect the vapor mitigation system, on a semi-annual basis, to ensure it is functioning properly.

### 2.1.13 1355 Clore Street

On March 22, 2010, SESCO personnel collected one (1) indoor air sample from the Bryant residence, which is a one-story structure with a crawl space. The residence currently has a vapor mitigation system that was installed by Keramida on March 18, 2009. All VOCs were below the IDEM 30-Year Chronic Residential Indoor Air Action Levels, with the exception of benzene and 1,2,4-trimethylbenzene, indicating a background source (see Section 2.1.4). SESCO will collect additional indoor air samples during the 2010 winter season and continue to

inspect the vapor mitigation system, on a semi-annual basis, to ensure it is functioning properly.

### 2.1.14 1385 Clore Street

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On March 17, 2010, SESCO personnel collected one (1) indoor air sample from the Ferguson residence, which is a one-story structure with a crawl space. The residence currently has a vapor mitigation system that was installed by Keramida on February 11, 2009, and upgraded on March 4, 2010, and again on May 28, 2009. However, the residence has been vacated and the electricity was shut off, therefore the system was not operating at the time of sampling. All VOCs were below the IDEM 30-Year Chronic Residential Indoor Air Action Levels, with the exception of PCE at 20.9 ug/m³. No further sampling is warranted at this time, unless the residence is reoccupied, in which case, SESCO will perform a vapor mitigation system inspection and collect indoor air samples. SESCO will verify the occupational status of 1385 Clore Street during the semi-annual vapor mitigation system inspections.

### 2.1.15 1398 Clore Street

On May 7, 2010, SESCO personnel collected six (6) indoor air samples (including a duplicate sample) from the Martin-owned apartment building. The two-story structure is separated into four (4) units with both a crawl space and a basement. All VOCs were below the IDEM 30-Year Chronic Residential Indoor Air Action Levels. However, due to PCE levels encountered in the sub-slab vapor (detailed in Section 2.2.3 of this report), SESCO will collect additional indoor air samples during the 2010 winter season.

### 2.1.16 1399 Clore Street

On March 17, 2010, SESCO personnel collected one (1) indoor air sample from the Payne residence, which is a one-story structure with both a basement and a crawl space. The residence currently has a vapor mitigation system that was installed by Keramida on February 12, 2009. All VOCs were below the IDEM 30-Year Chronic Residential Indoor Air Action Levels. SESCO will continue to inspect the vapor mitigation system, on a semi-annual basis, to ensure it is functioning properly and additional sampling may be necessary.

### 2.2 Sub-Slab Vapor Analytical Results

The sub-slab samples determine if the potential for vapors to enter the residence exists. The laboratory results were compared to the sub-chronic action levels listed in the *IDEM Draft Vapor Intrusion Pilot Program Guidance (February 4, 2010)* document. The sub-slab vapor results for are provided in **Figure 3** and **Table 2**.

### 2.2.1 1210 Ohio Street

On April 6, 2010, SESCO personnel installed a sub-slab vapor port in the basement of the Johns residence and collected one (1) sub-slab vapor sample on April 8, 2010. All VOCs were below the IDEM 30-Year Chronic Residential Sub-Slab Prompt Action Levels.

### 2.2.2 1240 Ohio Street

On April 6, 2010, SESCO personnel installed a sub-slab vapor port in the basement of the Stierwalt residence and collected two (2) sub-slab vapor samples (including a duplicate sample) on May 6, 2010. All VOCs were below the IDEM 30-Year Chronic Residential Sub-Slab Prompt Action Levels.

### 2.2.3 1398 Clore Street

On April 6, 2010, SESCO personnel installed a sub-slab vapor port in the basement of the Martin-owned apartment building and collected one (1) sub-slab vapor sample on April 8, 2010. All VOCs were below the IDEM 30-Year Chronic Residential Sub-Slab Prompt Action Levels, with the exception of PCE and TCE at 1,560 ug/m³ and 158 ug/m³, respectively.

### 3 Conclusions

- Indoor air and sub-slab samples collected from 12 residential buildings downgradient of
  the Site were collected from March through May 2010. Seven (7) of the 12 residential
  buildings have vapor mitigation systems. Out of these residences, only two (2) (520
  Basca Drive and 1385 Clore Street) have indoor air concentrations of PCE above the
  IDEM 30-Year Chronic Residential Indoor Air Action Levels.
- Due to the vapor concentrations of PCE in the indoor air (3.2 ug/m³) at 520 Basca Drive,
   SESCO upgraded the vapor mitigation system at the residence on June 25, 2010.
   Confirmation samples will be collected to ensure the system is functioning properly.
- SESCO will verify the occupational status of 1385 Clore Street during the semi-annual residential vapor mitigation system inspections. If the residence is reoccupied, SESCO will perform a vapor mitigation system inspection and collect indoor air samples.
- Due to the high concentrations of PCE and TCE in the sub-slab vapor, SESCO will collect additional indoor air samples in the basement of and sub-slab vapor samples at 1398 Clore Street.
- SESCO will sample the six (6) residences with actively running vapor mitigation systems during the 2010 winter season, to verify the systems are continuing to function properly. After this sampling event, SESCO would suggest suspending indoor air monitoring until a groundwater remediation strategy is selected, or for at least two (2) years (whichever is shorter). If the vapor mitigation systems continue to function properly (as evidenced by indoor air results below IDEM 30-Year Chronic Residential Indoor Air Action Levels) and current groundwater concentrations do not increase, then further sampling should not be necessary. SESCO believes two (2) sampling events during the summer and winter months, indicating the vapor mitigation systems are properly functioning, over a two (2) year period, should be sufficient to verify an adequate level of protection, as long as site conditions do not increase the potential for

vapor intrusion and the systems operational status can be continually verified. Continued system operation will be verified semi-annually and reported to IDEM in the Vapor Residential Vapor Mitigation Semi-Annual Reports.

- Once a groundwater remediation strategy has been selected, or after a two (2) year period of time, SESCO will request the indoor air sampling be re-evaluated and additional sampling of the residences with vapor mitigation systems can be decided.
- SESCO is in the process of delineating the full extents of the groundwater plume downgradient of Ohio Street. Once the plume is fully delineated, SESCO will recommend sampling the indoor air and sub-slab vapor of any additional residences located within 100 feet of any groundwater impacts that exceed IDEM Risk Integrated System of Closure (RISC) Residential Default Closure Levels (RDCLs).

If you have any questions or concerns, please contact Timothy R. Yates at 317-347-9590, ext. 27. Thank you for your assistance.

Sincerely, SESCO Group

Timothy R. Yates Project Manager Jesse Wright, PE #10<del>5</del>05138
Senior Environmental Engineer

Attachments

cc:

Jeffrey Kavanaugh – Indiana Department of Environmental Management Jerry K. Corbier – Ecolonomic Realty Group, LLC SESCO File

### References

Indiana Department of Environmental Management, Draft Vapor Intrusion Pilot Program Guidance, February 4, 2010.

Indiana Department of Environmental Management, Risk Integrated System of Closure Technical Guide – January 31, 2006 Appendix 1 (Revised May 1, 2009), Table A – Residential Closure Levels.

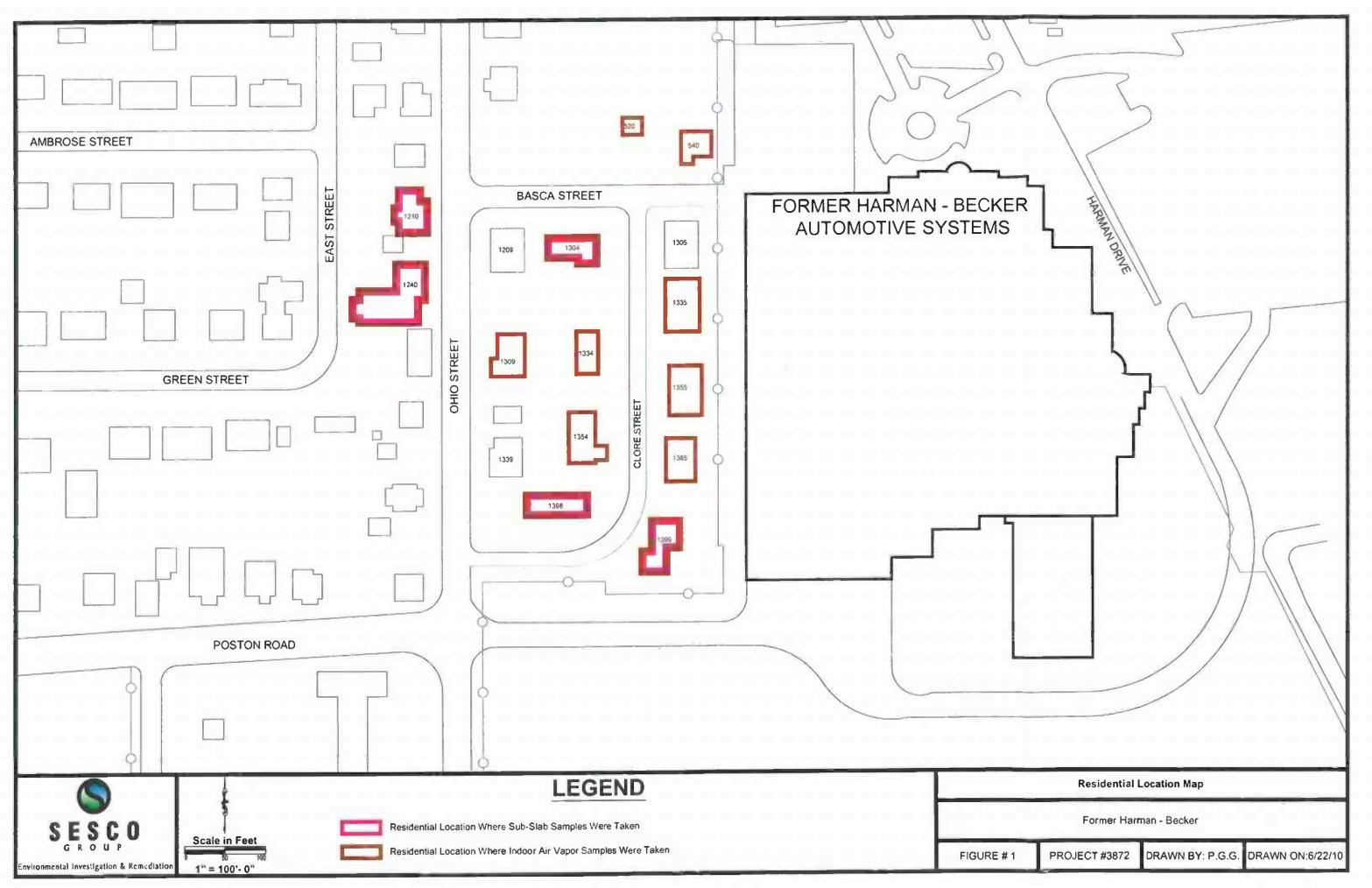
Vapor Residential Sampling & Mitigation Report Former Harman-Becker Automotive Systems, Inc. Martinsville, Indiana State Cleanup #1996-096.183

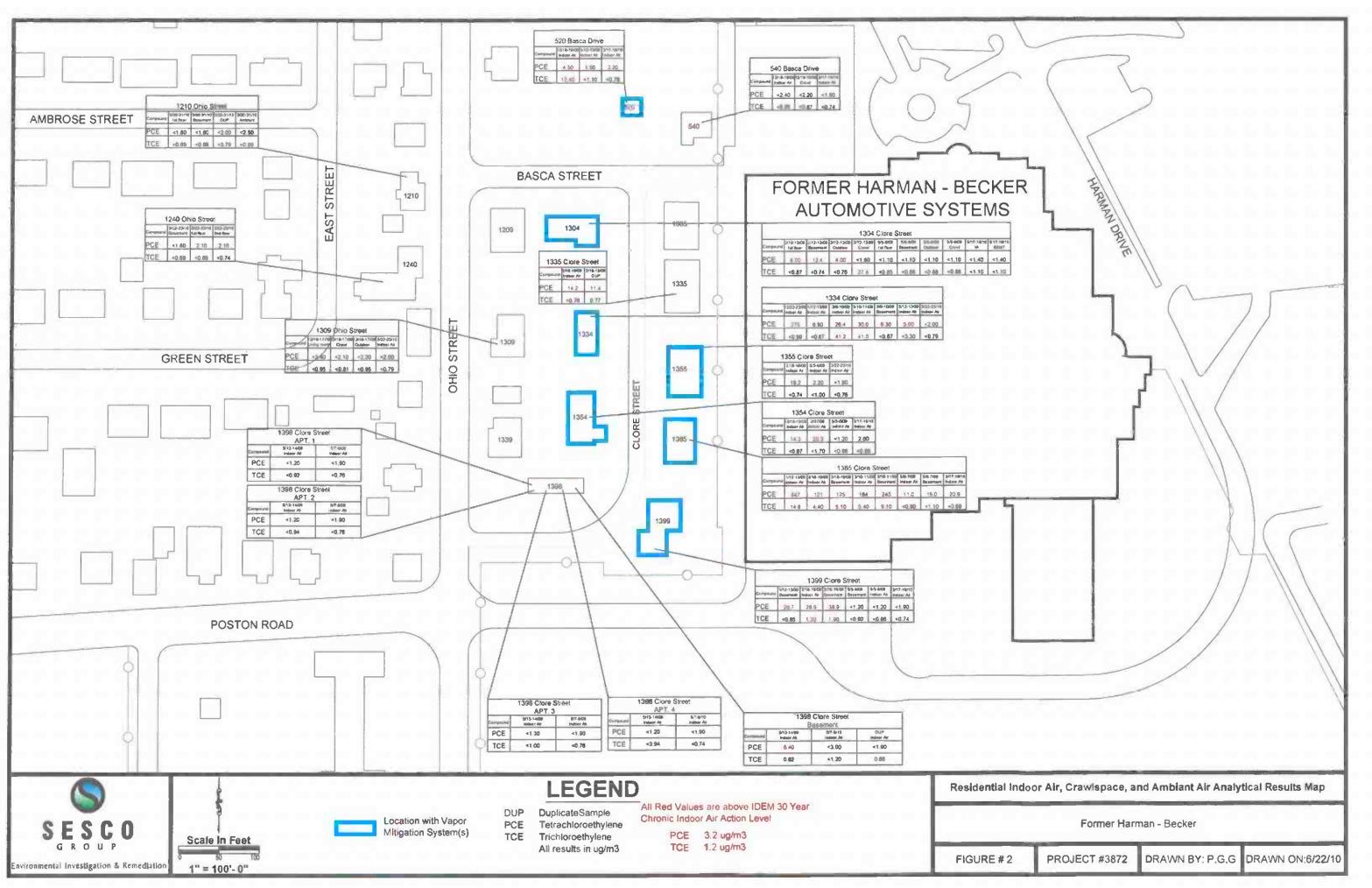
### **FIGURES**

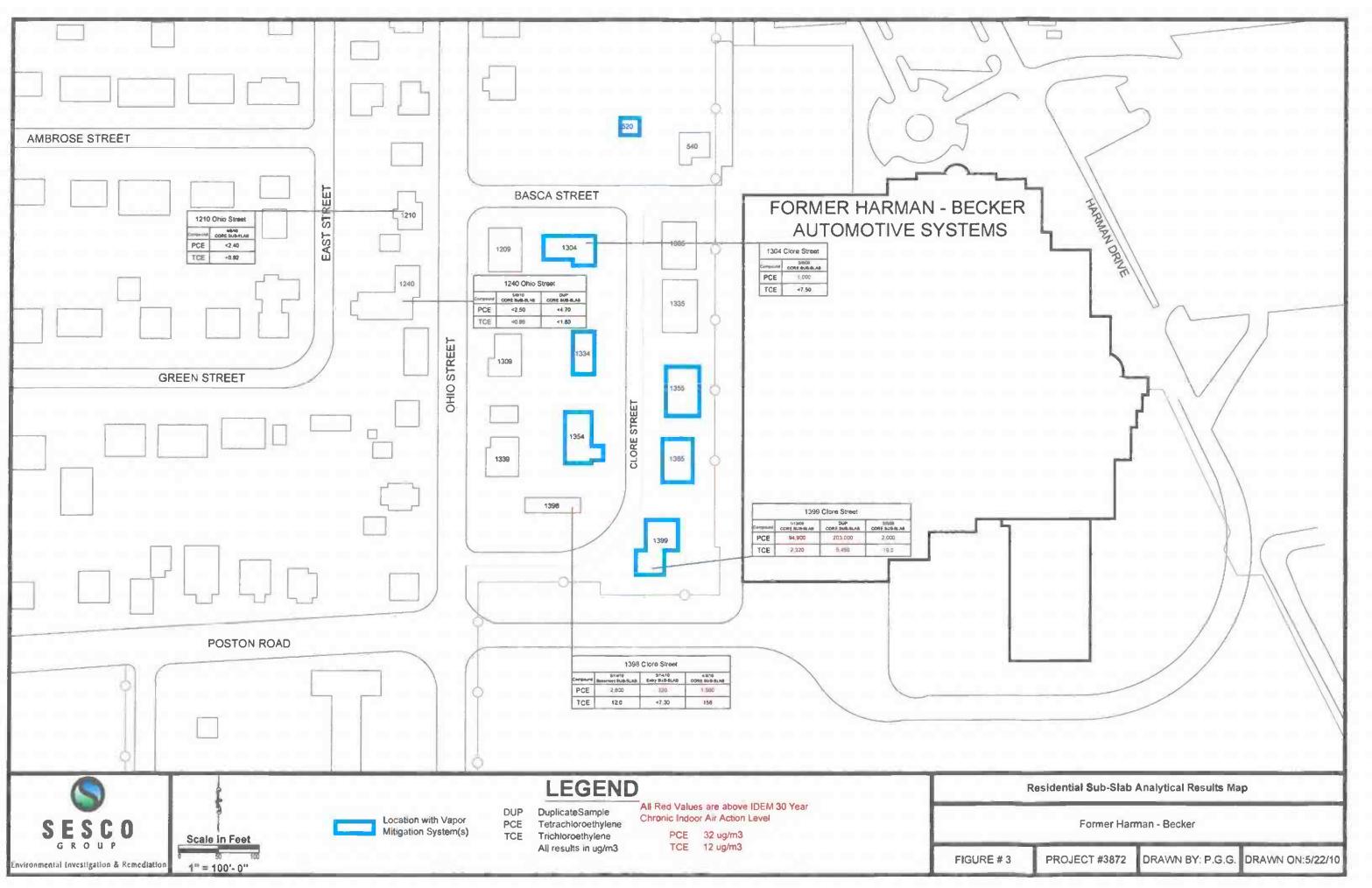
Figure 1 – Residential Location Map

Figure 2 – Residential Indoor Air, Crawl Space & Ambient Air Analytical Results Map

Figure 3 – Residential Sub-Slab Analytical Results Map







Vapor Residential Sampling & Mitigation Report Former Harman-Becker Automotive Systems, Inc. Martinsville, Indiana State Cleanup #1996-096.183

### **TABLES**

Table 1 – Residential Indoor Air, Crawl Space & Ambient Air VOC Analytical Results
Table 2 – Residential Sub-Slab Vapor VOC Analytical Results

### Table 1. Residential Indoor Air, Crawl Space, and Ambient Air VOC Analytical Results Former Harma n Beciler Automotive Systems 1201 South Ohio Street Marknoville, Indiana

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			1		1	1			u				u				All	results in u	g/m"				1		T	T			1		
Address	Hame Owner	Sa mp le t D	Date(s) Sampled	Ac ctone	B on zene	2 Businone (MEK)	Chloromethane	эмекэ цэр, Ку	Dictrio rodifisio romethan	1,1-bi-dYoroethane	1,1.0idforoefbene	ks 1,2 Diction of the ne	trans 1, 2 Okhloro ethen	Ethy Acetate.	Ethy benzene	A Ethyrick nerse	n-He prane	n He san e	4 Memyi 2 Pentanone (MiBK)	Methylene Choede	Styrene	Te trachtoro ethene	To specin c	1,1,1 Te dioroethane	Trechloroetherie	Trichloroffu oromethan e	1,2,4 Tranethylbenzene	1,3,5 Tranethy Denz enc	Viny Accepte	Viny Choede	Total Nyenes
DEM 30-Year Chro	ruc Resident a Indo	oor Air Action Level *		3,300	250	5,100	NA	6,200	N/A	530	210	37.0	73.0	8,800	1,100	N/A	N/A	2 10	3,100	42.0	1,100	3.20	5,100	2,300	1_20	730	6.20	5.20	210	2.20	110 Various
		5 20 Basca Indoor LR	12/18 - 19/2008	NA	NA	NA	NA	NA	NA	<2.40	<2.40	<2.40	<2.40	NA	NA	NA	NA	NA	N/A	NA	NA	4.50	N/A	<3.20	12.40	N/A	N/A	NA	NA	<1.50	NA NA
		S20 Basca Crawl	12/18 - 19/2008	NA	NA	NA	NA	NA	NA	<1.10	<1.10	<1.10	<1.10	NA	NA	NA	NA	NA	MA	PAA	24A	6.30	NA	<1.50	<0.74	NA	NA	NA	NA	<0.70	NA NA
		520 Basca Outdoor	12/18 19/2008	NA	NA	NA	AM	NA	AJA	<1.80	<1.80	<1.80	<1.80	NA	NA	NA	NA	NA.	AJA	AM	944	<3.00	NA	<2.40	<1.20	NA	NA	NA	NA	<1.10	NA NA
5 20 Basca Drive	Rhine	S 20 Basca Indoor LR	5/12 - 13/2009	NA	NA.	NA.	NA	NA	NA	<0.86	<0.84	<0.84	<0.84	NA NA	NA NA	NA NA	NA	NA	MA	PAA.	NA	1.50	NA	<1.20	<1.10	NA	NA.	NA.	NA.	<0.54	NA NA
		520 Basca Crawl	5/12 13/2009	NA	NA	NA	NA.	NA	NA	<0.79	<0.78	<0.78	<0.78	NA	NA	NA	NA	NA	NA	MA	944	2.60	NA	<1.10	<1.00	NA	NA	NA	NA	<0.50	NA NA
		5 20 Basca Outdoor	5/12 13/2009	NA	NA	NA	NA	NA	NA	<0.77	<0.76	<0.76	<0.76	MA	NA	NA	NA	NA	NA	NA	NA	<1.30	NA	<1.00	<1.00	NA	NA	NA	NA	<0.49	NA NA
4 2	D 5	S20 Basca IA	3/17=3/18/2010	37.6	1.10	4.10	1.30	< 0.94	1.60	<1_10	<1.10	<1.10	<1.10	<1.00	<1_20 ton System	<3.40	<1.10	<0.99	<1.10	2.60	<1.20	3.20	4.40	<1.50	<0.76	<1.50	<3.40	<3.40	3.00	<0.72	<2.40 BDL
		540 Basca Indoor LR	12/18 - 19/2008	NA.	T NA	NA.	NA.	NA.	NA.	<1.40	<1.40	<1.40	<1.40	NA.	NA	NA NA	NA NA	NA.	NA.	MA	NA.	<2.40	NA.	<1.90	<0.95	NA.	NA.	I NA	I NA	<0.90	I NA I NA
540 Basca Drive	Chastain	S40 Basca Crawl	12/18 - 19/2008	NA	NA	NA	NA	NA	NA	<1.30	<1.30	<1.30	<1.30	NA	NA	NA	NA	NA	NA	MA	NA	<2.20	NA	<1.70	<0.87	NA	NA	NA	NA.	<0.83	NA NA
		S40 Basca IA	3/17 - 3/18/2010	4.30	<0.87	<0.80	<0.56	<0.91	<1.30	<1.10	<1.10	<1.10	<1.10	1.20	<1.20	<3.40	<1.10	<0.96	<1.10	<0.95	<1.20	<1.90	<1.00	<1.50	<0.74	1.60	<3.40	<3.40	<0.95	<0.70	<2.40 BDL
		1210 Ohio IA 1F 1210 Ohio IA BSMT	3/30 · 3 1/2010 3/30 · 3 1/2010	4.00 1.50	<0.81	0.90 <0.75	<0.52 <0.52	< 0.85	<1.20 <1.20	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00	1_20 <0.91	<1.10 <1.10	<3.10	<1.00 <1.00	<0.90	<1.00	1.50 <0.89	<1.10	<1.80 <1.80	1.70 <0.96	<1.40	<0.69	<1.40	<3.10	<3.10	<0.89	<0.65	<2.20 BDL <2.20 BDL
1 210 Ohio Street	Johns	DUP-1 (1210 Onio IA BSMT)	3/30 - 3 1/2010	5.90	<0.93	<0.86	<0.60	< 0.97	<1.40	<1.20	<1.20	<1.20	<1.20	1.20	<1.30	<3.60	<1.20	1.30	<1.20	3.60	<1.20	<2.00	2.90	<1.60	<0.79	<1.60	<3.60	<3.60	<1.00	<0.74	<2.50 BDL
		AA-1	3/30 - 31/2010	13.5	<1.20	<1.10	<0.76	< 1.20	<1.80	<1.50	<1.50	<1.50	<1.50	<1.30	<1.60	<4.50	<1.50	10.5	<1.50	73.8	<1.60	<2.50	<1.40	<2.00	<0.99	<2.00	<4.50	<4.50	<1.30	<0.94	<3.20 BDL
		1240 Ohio IA ESMT	3/22 - 23/2010	13.0	18.3	<0.75	<0.52	8.80	3.00	<1.00	<1.00	<1.00	<1.00	<0.91	13.1	8.30	12.1	24.1	<1.00	<0.89	<1.10	<1.80	104	<1.40	<0.69	<1.40	24.6	7.00	<0.89	<0.65	71.2 BOL
1 240 Ohio Street	Stierwalt	1240 Ohio IA 1F 1240 Ohio IA 2F	3/22 · 23/2010 3/22 · 23/2010	32.7 74.1	26.0 26.5	6.30 42.1	<0.52 <0.56	12.0 13.2	3.80	<1.00 <1.10	<1.00 <1.10	<1.00 <1.10	<1.00 <1.10	<0.91	20.2 19.9	11.1	16.9	33.7 41.4	<1.00 <1.10	<0.89	<1.10	2.10	155 143	<1.40	<0.69	1.50	37.5 44.3	12.6	<0.89	<0.65	111 BDL 109.5 BDL
		1309 S. Ohio Indoor UR	12/16 - 17/2008	NA	NA	NA.	NA	NA	NA.	<1.40	<1.40	<1.40	<1.40	NA.	NA	NA	NA.	NA.	NA.	NA	NA.	<2.40	NA.	<1.90	<0.95	NA.	NA.	NA.	NA.	<0.90	NA NA
1 309 Ohio Street	Thomas	1309 S. Ohio Crawl	12/16 - 17/2008	NA	NA	NA	NA.	NA.	NA.	<1.20	<1.20	<1.20	<1.20	NA.	NA	NA	NA	NA	NA	MA	NA.	<2.10	NA.	<1.60	<0.81	NA.	NA	NA	NA	<0.72	NA NA
2 303 0210 30001	THO HAN	1309 S. Ohio Outdoor	12/16 - 17/2008	NA .	NA	NA.	MA	NA	NA	<1.30	<1.20	<1.20	<1.20	NA.	NA	NA	NA.	NA.	NA	MA	MA	<2.20	NA.	<1.70	<0.85	NA.	NA	NA	NA.	<0.80	NA NA
<u> </u>	<del></del>	1309 Ohio IA 1304 Oare Indoor LR	3/22 · 23/2010 2/12 · 2/13/2009	<0.69 NA	<0.93 NA	<0.86 NA	<0.60 NA	< 0.97 NA	<1.40 NA	<1.20 <1.30	<1.20 <1.30	<1.20 <1.30	<1.20 <1.30	<1.00	<1.30 NA	<3.60 NA	<1.20 NA	<1.00	<1.20	<1.00	<1.20	<2.00 8.00	<1.10 NA	<1.60	<0.79	<1.60	<3.60 NA	<3.60 NA	<1.00	<0.74	<2.50 BDL NA NA
		1304 Core Basement	2/12 - 2/13/2009	NA NA	NA NA	NA NA	NA.	NA.	NA.	<1.10	<1.10	<1.10	<1.10	NA.	NA.	NA.	NA.	NA.	NA.	NA.	NA.	12.4	NA.	2.10	<0.74	NA.	NA.	NA.	NA NA	<0.70	NA NA
		1304 Clore Crawl	2/12 2/13/2009	NA	NA	NA	MA.	NA.	NA	<1.10	<1.10	<1.10	<1.10	NA	NA	NΑ	NA	NA.	NA	NA.	NA.	4.00	NA.	<1.50	<0.76	NA	NA.	NA.	NA	<0.72	NA NA
		1304 Clare Outdoor	2/12 · 2/13/2009	NA	NA	NA	NA	NA	NA	<1.10	<1.10	<1.10	<1.10	NA.	NA stan System	NA to casilad	NA NA	NA.	NA	NA	NA	<1.90	NA	<1.50	27.A	NA	NA.	NA.	NA NA	<0.70	NA NA
1 304 Clore Street	Payne,	1304 Clore Indoor LR	5/5 5/6/2009	NA.	NA.	NA	NA.	NA	NA	<0.64	<0.63	<0.63	<0.63	NA	NA	NA.	NA NA	NA.	NA.	N/A	N/A	<1.10	NA.	<0.86	<0.85	NA.	NA	NA.	NA.	<0.85	NA NA
		1304 Core Basement	5/5-5/6/2009	NA	NA	NA	NA	NA	NA	<0.66	<0.65	<0.65	<0.65	NA	NA	NA	NA	NA	NA.	NA	NA.	<1.10	NA.	<0.89	<0.88	NA.	NA	NA	NA	<0.88	NA NA
		1304 Clare Outdoor	5/5 5/6/2009	NA	NA	NA NA	NA AVA	NA	NA.	<0.66	< 0.65	<0.65	<0.65	NA	NA	NA NA	NA NA	NA NA	NA.	NA.	NA.	<1.10	NA.	<0.89	<0.88	NA	NA NA	NA NA	NA.	<0.88	NA NA
		1304 Clore Crawl 1304 Clore IA	5/5 5/6/2009 5/17 5/18/2010	NA 48.0	4.80	7.10	1.50	NA 2.10	NA <0.99	<0.66	<0.65	<0.65	<0.65 <0.79	NA NA	NA 3.20	1.10	NA 3.20	5.60	NA <5.10	NA 2.10	NA <0.85	<1.10 <1.40	NA 27.0	<0.89	<0.88	2.90	4.10	1.10	NA <0.70	<0.88	NA NA 14.6 BDL
	Q V	1304 Core 85MT	5/17 - 5/18/2010	45.0	3.80	12.0	1.60	2.00	2.70	<0.80	<0.79	<0.79	<0.79	NA	2.40	<0.98	2.90	5.60	<5 10	0.76	1.50	<1.40	20.0	<1.10	<1.10	3.50	2.70	<0.98	<0.70	<0.51	10.1 BDL
	36	1334 Clore Indoor LR	12/22 - 23/2008	NA	NA NA	NA .	NA.	NA	- NA	<1.50	<1.50	<1.50	<1.50	NA	NA	NA	NA	NA.	NA.	NA.	NA	275	MA	<2.00	<0.99	- NA	NA.	NA	NA	<0.94	NA NA
		1334 Clore Crawl 1334 Clore Outdoor	12/22 - 23/2008 12/22 - 23/2008	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	<1.00	<1.00 <1.30	<1.00 <1.30	<1.00 <1.30	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	4.70 <2_20	NA NA	<1.40	<0.69	NA NA	NA NA	NA NA	NA NA	<0.65	NA NA
		1334 Clare Indoor	1/12 - 13/2009	NA	NA	NA.	NA.	NA.	NA	<1.30	<1.30	<1.30	<1_30	NA.	NA	NA	NA.	NA.	NA	NA.	NA	6.90	NA	<1.70	<0.87	NA.	NA.	NA	NA.	<0.83	NA NA
		1334 Clore Crawl	1/12 - 13/2009	NA	NA	NA	NA.	NA	NA	<1.20	<1.20	<1.20	<1_20	NA	NA	NA	NA	NA	NA	NA	NA	44.1	NA.	<1.60	<0.81	NA	NA	NA	NA	<0.77	NA NA
	1	1334 Clore Crawl	3/9 - 10/2009	NA	NA.	NA.	NA	NA.	NA.	<1.20	<1.20	<1.20	<1.20	NA NA	NA NA	NA NA	3/4/2009 NA	NA	NA.	NA	NA.	2.30	NA	<1.60	<0.81	NA.	NA.	NA.	NA.	<0.77	NA NA
		1334 Clore Outdoor	3/9 - 10/2009	NA	NA	NA	NA.	NA.	NA	<1.30	<1.30	<1.30	<1.30	NA	NA	NA	NA	NA	NA	NA.	NA.	<2.20	NA	<1.70	<0.87	NA	NA	NA	NA	<0.83	NA NA
1 334 Clore Street	Brock	1334 Clore Indoor LR	3/9 10/2009	NA	NA	NA	NA	NA	NA	20.4	<1.30	21.1	<1.30	NA	NA	NA	NA	NA	NA	NA	NA	26.4	NA	101	41.2	NA	NA	NA	NA	<0.83	NA NA
1		1334 Clore Indoor LR (Dip) 1334 Clore Indoor LR	3/9 10/2009 3/9 10/2009	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	<1.10 16.0	10.0	<1.10 21.0	<1.10 <0.79	NA NA	NA NA	NA NA	NA NA	NA NA	NA.	NA NA	NA NA	4.00 30.0	NA NA	<1.50 120	<0.74 41.0	NA NA	NA NA	NA NA	NA NA	<0.70 0.25J	NA NA
		1334 Clore Indoor LR (Dup)	3/9 10/2009	NA.	NA.	NA.	NA.	NA.	NA.	<0.81	<0.79	0.28J	<0.79	NA	NA.	NA	NA.	NA.	NA.	NA.	NA	4.20	NA.	<1.10	<1.10	NA.	NA.	NA.	NA.	<0.51	NA NA
		1334 Clore Indoor 8R	3/9 - 10/2009	NA	NA	NA	NA.	NA	NA	<1.30	<1.30	<1.30	<1_30		NA	NA	NA	NA	NA	NA	NA	6.30	NA	<1.70		NA	NA	NA	NA	<0.83	
		1334 Clore Indoor LR	5/12 · 13/2009	NA.	l NA	NA.	NA.	NA.	NA.	<2.50	<2.50	<2.50	<2.50	spor Witiga NA	NA NA	Upgraded NA	3/28/2009 NA	NA	L NA	NA.	NA.	\$.00	NA.	<3.40	<3.30	NA.	NA.	I NA	NA.	<1.60	NA NA
		1334 Clore Crawl	5/12 - 13/2009	NA NA	NA NA	NA NA	NA.	NA.	NA.	<0.86	<0.84	<0.84	<0.84	NA	NA.	NA.	NA.	NA NA	NA NA	NA.	NA.	<1.40	NA.	<1.20	<1.10	NA.	NA.	NA.	NA NA	<0.54	NA NA
		1334 Clore IA	3/22 23/2010	<0.64	<0.87	<0.80	<0.56	<0.91	<1.30	<1.20	<1.20	<1.20	<1.20	<0.98	<1.20	<3.40	<1.10	<0.96	<1.10	<0.95	<1.20	<2.00	<1.00	<1.60	<0.79	<1.50	<3.40	<3.40	<0.95	<0.74	<2.40 BDL
1 33S Clore Street	Everett/Stiles	1335 Gore Indoor LR	2/18 19/2009	NA	NA.	NA.	NA	NA	NA.	<1.10	<1.10	<1.10	<1.10	NA	NA.	NA	NA.	NA.	N/A	NA.	P&A.	14.2	NA	1.80	<0.76	N/A	NA.	NA.	NA.	<0.72	NA NA
		.1335 Clore Indoor (Dup)	2/18 · 19/2009 12/18 · 19/2009	NA NA	NA NA	NA NA	MA.	NA NA	NA NA	<1.10 <1.30	<1.10 <1.30	<1.10 3.00	<1.10 <1.30	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	14.3	NA NA	<1.50	<0.87	NA NA	NA.	NA NA	NA NA	<0.70	NA NA
		1354 Clare Indoor (Dup)	12/18 19/2009	NA NA	NA NA	NA NA	NA NA	NA.	NA	<1.10	<1.10	<1.10	<1.10	NA	NA NA	NA NA	NA NA	NA NA	NA	NA.	NA.	6.10	NA	<1.50	1.10	NA.	NA NA	NA NA	NA NA	<0.70	NA NA
		1354 Clore Crawl	12/18 19/2009	NA	NA	NA	NA.	NA.	NA.	<1.40	<1.40	<1.40	<1.40	NA.	NA	NA	NA	NA.	NA	NA	NA	47.7	NA.	<1.90	<0.95	NA	NA.	NA	NA	<0.90	NA NA
		13S4 Gore Crawt (Dup)	12/18 - 19/2009	NA	NA	NA	NA.	NA	NA	<1.10	<1.10	<1.10	<1.10	NA.	NA Suffee	NA to defend	NA NA	NA.	NA.	NA.	NA.	6.20	NA.	<1.50	<0.76	NA.	NA.	NA	NA NA	<0.72	NA NA
1354 Clore Street	Quakenbush	1354 Core Indoor UR	2/2 7/2009	NA	NA.	NA	NA	NA.	NA	<2.60	<2.60	<2.60	<2.60	NA NA	MA System	NA NA	NA	NA.	NA.	NA	MA	20.3	NA.	<3.50	<1.70	NA	NA.	NA.	NA.	<1.60	NA NA
		1354 Clore Crawl	2/2 7/2009	NA	NA	NA	NA.	NA	NA.	<1.90	<1.90	<1.90	<1.90	NA	NA	NA.	NA	NA	NA.	NA	NA.	11.6	NA	<3.50	<1.70	NA	NA.	NA.	NA	<1.60	NA NA
		1354 Clore Outdoor	2/27/2009	NA	NA	NA	NA.	NA	NA	<1.80	<1.80	<1.80	<1.80	NA	NA	NA	NA	NA	NA	N/A	NA	<3.10	NA	<2.60	8.10	NA	NA	NA.	NA	<1.20	NA NA
		1354 Clore Crawl 1354 Clore Indoor LR	5/5 · 6/2009 5/5 · 6/2009	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	<0.54	<0.53	<0.53	<0.53	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	<1.20	NA NA	<2.40	<1.20	NA NA	NA NA	NA NA	NA NA	<0.34	NA NA
		1354 Clore IA	3/17 - 18/2010	27.30	1.70	3.80	<0.52	2.60	1.50	<1.00	<1.00	<1.20	<1.20	5.20	<1.10	<3.10	2.90	4.30	<1.00	2.40	<1.10	2.60	13.1	<1.40	<0.69	<1.40	<3.10	<3.10	<0.89	40.65	<2.20 BDL
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### Table 1. Residential Indoor Air, Crawl Space, and Ambient Air VOC Analytical Results Former Harman Becker Automotive Systems

Former Harman Becile FAUTO motive
1201 South Ohio Street
Martenalle Indon

									٤				u					1 1 1														
																										- 4		64				11
Address Home	ome Owner	Sa mple t D	Date(s ) Sampled	Aic et anc	B en zene	2. Butanone (MEK)	Chlorome thane	ouera upp.()	Dictriorodd huoram etha	1,1 & diferenthane	1,1.Dichoroethene	kis 1,2 Dudtoroethene	Trans 1, 2 Ok Noro ether	Ethy Acetate	Ethyl benz ene	4 (17by/itoliuene	n. He prane	n Hexan e	4 Me thyl 2 Pentanone (MIBK)	Miethylene Choside	Styrence	Te was recorded hence	To kuen e	1,1,1 Techoroethane	Trechloro ethen e	Trichtorofluoromethan	1.2,4 Tranethy@benz enc	1,3,5 Tranethylberz eo	Viny Acetate	Viny Choode	Total Nytenes	All Other VOCs
DEM 30-Year Chronic Resid	dent a Indio	or Air Action Level *	7	3,300	2.90	6,100	64/ Q	6, 200	N/ Q	510	210	37.0	73-0	5, 300	1 100	NIA	N/A	2 1/0	8, 100	420	1 100	5.20	5.100	2 300	1,20	730	8.20	8.20	210	2 20	110	Warmow 6
			- 14 for 1 4 5 for 10 for						Tale 1					4.0						2.0		45.7			e0.74				111	-2.54		2 2 2 2 2
	ŀ	1355 Oore Indoor LR	2/18 19/2009 2/18 19/2009	NA NA	NA NA	NA NA	144	N4 N4	N4	<1.10 <1.80	< 1.10 < 1.30	< 1.10 < 1.30	<1.10 <1.30	144	NA NA	NA NA	NA NA	NA NA	N14	14	714	49.8	NIC.	<1.50 <1.50	40.81	114	214	NA NA	NA NA	40 A0 40 77	NA NA	N14
		1855 Clore Outdoor	2/18 19/2009	NA.	NA.	NA	14	124	24	×1.30	< 1.20	<1.30	< 1.30	114	NA	MA	NA	NA	114	244	114	<2.20	114	<1.70	00.85	*14	NA	NA	114	s0.30	214	14
1 895 Clore Street Bryant	nt T									1000					ton System							10.00								11.00	32.5	
		1836 Core Indoor IR	5/5 - 6/2009	MA	MA	NA	124	N4	N <sub>L</sub> C	40) (f6	a) /4	aj /4	< 0.74	14	NA	NA	N,4	NA	P14	214	N/A	2,30	214	×1.00	×1.00	Ma	NA.	NA	MA	-(0.48	N/A	124
	Į	1355 Clore Crawl	5/5 6/2009	NA	MA	NA	124	114	114	en) 79	<0.78	v0.78 i	40.78	N24	NA	NA.	NA.	NA	114	124	114	8,40	114	< 1.10	< 1.00	14	MG	NA	114	vi0.30	NA	114
		1355 Core (A	3/22 - 23/2010	89.4	13.5	6.00	40.58	9.20	1.70	<2.20	41.10	<1.10	41.10	4.30	114	8.40	10.9	24.6	23.6	40.98	41.20	41.90	90.9	<1.50	401.76	<1.50	19.6	5.30	40.98	10.72	64.6	804
	1	1385 Clore indoor LR	1/12 13/2009	NA	NA	NA	NA.	MA	NA	<1.10	<1.10	<1.10	<1.10	NA	NA.	₩A	NA	NA	MA	NA	MA	847	N/A	<1.50	14.8	MA	NA	NA	NA	<0.70	NA	NA
		1385 Core Crawl	1/12 - 13/2009	NA NA	NA NA	NA	NA	NA.	NA	<1.10	<1.10	1.10	<1.10	NA.	NA.	NA	NA.	NA.	NA:	AJA .	NA	1,100	NA.	<1.50	24.7	NA	NA.	NA NA	NA.	<0.70	NA NA	NA NA
	ŀ	1385 Clore Crawl (Dup) 1385 Clore Outdoor	1/12 · 13/2009 1/12 · 13/2009	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	<1.10	<1.10 <1.00	1.10 <1.00	<1.10 <1.00	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA.	NA NA	1,020 <1.80	NA NA	<1.50	<0.69	NA NA	NA NA	NA NA	NA NA	<0.70 <0.65	NA NA	NA
	1	1969 Clot Oditaro	1/11 13/1003	- AA	I IIIA	1974	rape	78A	Triple.	12.00	12.00	×2.00			ton System			HW	7494	ZIĘK	794	1.60	Title	12.40	10.03	Tipe	INA	ITA	AA	10.03	rept	FREE
	1	1385 Core Indoor LR	2/18 19/2009	NA	NA	NA	NA.	NA	NA.	<1.40	<1.40	<1.40	<1.40	NA	NA	NA	NA	NA	NA	NA.	NA.	121	NA	<1.80	4.40	NA	NA	NA	NA	<0.86	NA	NA
		1385 Clore Indoor BR	2/18 - 19/2009	NA	NA	NA	NA	NA.	NA	<1.80	<1.80	<1.80	<1.80	NA	NA	NA	NA	NA	NA	NA	NA	125	NA	<2.40	5.10	NA	NA	NA	NA	<1.10	NA	NA
		1385 Glore Crawl	2/18 19/2009	NA	NA	NA	NA	NA.	NA	<1.10	<1.10	<1.10	<1.10	NA	NA	NA	NA	NA	NA	NA	A(A	193	NA	<1.50	37.2	NA	NA	NA	NA	<0.70	NA	NA
															uan System	Lipgraded	3/4/2009															
1 385 Clore Street Ferguso	uson	1385 Clore Outdoor	3/10 11/2009	NA	NA	NA	NA	NA	NA	<1.50	<1.50	<1.50	<1.50	NA	NA	NA	NA	NA	NA	N/A	NA	3 10	AJA	<2.00	<0.99	NA	NA	NA	NA	<0.94	NA	NA
		1385 Clore Indoor LR	3/10 11/2009	NA	NA	NA	NA	NA	NA NA	<1.30	<1.30	<130	<1.30	NA	NA	NA	NA	NA	ALA.	NA	ALA	184	N/A	<1.70	5.40	NA	NA	NA	NA	<0.83	NA	NA
		1385 Clore Indoor BR 1385 Clore Indoor BR (DUP)	3/10 11/2009 3/10 11/2009	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	<1.50 <0.81	<1.50 <0.79	<1.50 <0.79	<0.79	NA NA	NA NA	NA NA	NA NA	NA NA	ALA ALA	NA NA	NA NA	240	NA NA	<2.10 0.61J	9.10 7.40	NA NA	NA NA	NA NA	NA NA	<0.98	NA NA	NA NA
		1385 Clore Indoor tex (OUP)	3/10 11/2009	NA NA	NA NA	NA	NA NA	NA NA	NA NA	<1.50	<1.50	<1.50	<0.79 <1.50	NA NA	NA NA	NA.	NA NA	NA NA	NA NA	NA NA	MA	147	NA NA	<2.00	3.80	PAGA.	NA NA	NA AK	NA NA	<0.51	NA NA	NA NA
	H	1385 Gore Crawl	5/6 7/2009	NA.	NA.	NA.	NA.	NA.	NA.	<0.72	<0.71	<0.71	<0.71	NA	NA.	NA	NA.	MA	NA.	NA.	NA	23.0	NA	<0.98	<0.96	NA.	NA	NA.	NA.	<0.96	NA NA	NA.
	1	1385 Clore Indoor LR	5/6 7/2009	NA	NA	NA	NA.	NA	NA	<0.68	<0.67	<0.67	<0.67	NA	NA	MA	NA	NA	NA	N/A	NA	11.0	NA	<0.92	<0.90	NA	NA	NA	NA	<0.43	NA	NA
		1385 Clore Outdoor	5/6 7/2009	NA	NA	NA	NA.	NA	NA	<0.68	<0.67	<0.67	<0.67	NA	NA	NA	NA	NA	N/A	NA	N/A	<1.10	NA.	<0.92	<0.90	NA	NA	NA	NA	<0.43	NA.	NA
		1385 Indoor BR	5/6 7/2009	NA	NA	NA	NA	NA	NA	<0.81	<0.80	<0.80	<0.80	NA	NA	₩A	NA	MA	ΝA	NA	NA.	15.0	ALA	<1.10	<1.10	NA	NA	NA	NA	<0.51	NA	NA
e de	4																\$/28/2009															
		1385 Clore IA	3/17 - 18/2010	9.30	0.95	1.40	1.00	< 0.85	1 70	<2.00	<1.00	<1.00	<1.00	<0.91	<1.10	<3.10	<1.00	<0.90		<0.89	<1 10	20.9	4.30	<1.40	<0.69	1.60	<3.10	<3.10	<0.89	<0.65	<2.20	BDt
	1	1398 Clore Street Apt. #1 LR	5/13 - 14/2009	NA .	NA .	NA	NA.	NA NA	ALA .	<0.69	<0.63	<0.68	<0.68	NA.	NA	NA.	NA.	NA 10.05	MA	MA	NA NA	<1.20	NA	<0.93	<0.92	NA.	NA .	NA	NA .	<0.44	NA I	NA
	-	1398 Clare APT 1 IA	5/7:5/8/2010	<0.64	<0.87	<0.80	<0.56	<0.91	<1.30	<1.10	<1.10	<1.10	<1.10	<0.98	<1.20	<3.40	<1.10	<0.96	<1.10	<0.95	<1.20	<1.90	<1.00	<1.50	<0.74	<1.50	<3.40	<3.40	<0.95	<0.70	<2.40	9 Dt.
	-	1398 Clore Sweet Apt. #2 LR 1398 Clore APT 2 IA	5/13 · 14/2009 5/7 · 5/8/2010	NA 29.7	NA 2.80	NA 5.70	NA <0.58	NA 1.50	NA 1.50	<0.71	<0.69 <1.10	<0.69 <1.10	<0.69 <1.10	NA <1.00	NA 1.80	NA <3.40	NA 2.00	NA 3.30	MA. <1.10	NA 1.20	1.70	<1.20 <1.90	10.0	<0.95 <1.50	<0.94 <0.76	NA <1.50	NA <3.40	NA <3.40	NA 4.70	<0.45 <0.72	6.60	NA BDL
		1398 Clore Street Apt. #3 LR	5/13 - 14/2009	NA NA	NA NA	NA.	NA.	NA.	NA.	<0.79	<0.78	<0.78	<0.78	NA.	NA.	NA	NA.	NA.	NA.	NA NA	NA.	<1_30	NA.	<1.10	<1.00	NA.	NA.	NA.	NA NA	<0.50	NA.	NA.
1398 Clore Street Martin	tin -	1398 Core APT 3 IA	5/7 - 5/8/2010	14.7	<0.90	2.30	<0.58	< 0.94	1.40	<1.10	<1.10	<1.10	<1.10	3.90	1.60	<3.40	1.20	<0.99	<1.10	1.30	<1.20	<1.90	2.40	<1.50	<0.76	<1.50	<3.40	<3.40	<0.98	<0.72	5.30	BDL
		1398 Clore Sweet Apt. #4 LR	5/13 - 14/2009	NA	NA.	NA	NA.	NA	NA.	<0.71	<0.69	<0.69	< 0.69	NA.	NA	NA	NA.	NA	NA.	PAG.	NA.	<1.20	NA.	<0.95	<0.94	MA	NA	NA	NA	<0.45	NA.	NA
	l l	1398 Clore APT 4 IA	5/7 - 5/8/2010	1.10	<0.87	<0.80	<0.56	1.10	<1.30	<1.10	<1.10	<1.10	<1.10	<0.98	1.40	<3.40	1.40	1.20	<1.10	3.20	<1.20	<1.90	<1.00	<1.50	<0.74	<1.50	<3.40	<3.40	<0.95	<0.70	4.60	BDL
		1398 Clore Street Apt. Basement	5/13 - 14/2009	NA	NA	NA	NA	NA	NA	<0.69	<0.68	<0.68	<0.68	NA.	NA	. NA	NA	NA	NA	NA	- NA	6.40	NA.	<0.93	<0.92	NA.	NA.	NA	NA	<0.44	NA	NA
		1398Clore BSMT IA	5/7-5 <b>/8/</b> 2010	<1.00	<1.40	<1.30	<0.89	< 1.40	<2.10	<1.70	<1.70	<1.70	<1.70	<1.60	<1.90	<5.30	<1.80	<1.50	<1.80	<1.50	<1.90	<3.00	<1.60	<2_30	<1.20	<2.30	<\$.30	<5.30	<1.50	<1.10	<3.70	9DL
		DUP-2 (1398 Clore BSV/T IA)	5/7 - 5/8/2010	14.4	< 0.87	3.50	<0.56	1.30	1.50	<1.10	<1.10	<1.10	<1.10	<0.98	1.50	<3.40	<1.10	<0.96	<1.10	1.40	<1.20	<1.90	1.90	<1.50	0.88	<1.50	<3.40	<3.40	4.30	<0.70	4.80	BOL
		1399 Clore Indoor LR	12/18 - 19/2009	NA	NA	NA.	NA	- NA	NA.	<1.20	<1.20	<1.20	<1.20	NA	NA.	NA	NA	NA	NA	NA	NA	26.6	NA.	<1.60	1.30	NA	NA	NA	NA	<0.74	NA	NA
	-	1399 Gore Basement	12/18 - 19/2009	NA.	NA	NA	NA.	NA.	NA.	<1.70	<1.70	<1.70	<1.70	NA.	NA.	NA	NA.	NA NA	NA.	NA.	NA.	38.9	NA.	<2.30	1.90	NA.	NA.	NA NA	NA	<1.10	NA NA	NA .
	-	1399 Clore Crawl	12/18 - 19/2009	NA NA	NA NA	NA NA	NA.	NA NA	NA NA	<1.10	<1.10	<1.10	<1.10	NA NA	NA NA	NA NA	NA NA	NA NA	PAR.	NA NA	NA NA	<1.90	PAR.	<1.50	<0.76	NA NA	NA NA	NA NA	NA NA	<0.72	NA NA	NA.
	ŀ	1399 Clore Outdoor 1399 Clore Basement	12/18 · 19/2009 1/12 · 13/2009	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	<1.60 <1.30	<1.60 <1.30	<1.60 <1.30	<1.60 <1.30	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	<2.80	NA NA	<2.20	1.10	NA NA	NA NA	NA NA	NA NA	<0.80	NA NA	NA NA
1 399 Clore Street Sweam	any	1339 CO C B23010011	1/12 - 13/2009	N/A	NA	P/A	TIGHT	rget	nget	4130	√1_3U	<b>√1</b> 30		epor Militira				I NA	PgA	PBA	PgAL	20.7	PgAL	V170	40.03	PgA	Pgst	PYA.	N/A	ww	N/A	TIGHT
		1399 Core Basement	5/5 - 6/2009	NA	NA	NA	NA.	NA.	NA.	<0.69	<0.68	<0.68	<0.68	NA	NA	NA	NA	NA	NA.	NA.	NA.	<1.20	NA.	<0.93	<0.92	NA	NA	NA	NA	<0.44	NA.	NA
,	I	1399 Gore Indoor LR	S/S 6/2009	NA.	NA.	NA	NA.	NA.	NA.	<0.72	<0.71	<0.71	<0.71	NA.	NA.	NA	NA	NA	NA.	NA.	NA.	<1.20	NA.	<0.98	<0.96	NA.	NA.	NA	NA.	<0.46	NA.	NA.
,		1399 Clore Crawl	S/S - 6/2009	NA	NA	NA	NA.	NA.	NA	<0.54	<0.53	<0.53	<0.53	NA	NA	NA	NA	NA	NA.	NA.	NA	1.40	NA	<0.73	<0.72	NA.	NA	NA	NA	<0.34	NA.	NA.
		1399 Clore Outdoor	S/S - 6/2009	NA	NA	NA	NA	NA.	NA	<0.69	<0.68	<0.68	<0.68	NA	NA -	NA	NA	NA	NA.	NA	NA	<1.20	NA	<0.93	<0.92	NA	NA	NA-	NA	<0.44	NA.	NA.
		1399 Oore IA	3/17 18/2010	< 0.64	<0.87	<0.80	<0.56	< 0.91	<1.30	<2.10	<1.10	<1.20	<1.20	<0.98	<1.20	<3.40	<1.10	<0.96	<1.10	<0.95	<1.20	<1.90	<1.00	<1.50	<0.74	<1.50	<3.40	<3.40	<0.95	<0.70	<2.40	BDL

All samples analyzed for volatile organic compounds (VOCs) via United States Environmental Protection Agency (USEPA) method TO -15 .

\* Indiana Department of Environmental Management (IDEM) Draft Vapor Intrusion Pilot Program Guidance Supplement (February 4, 2010). RED Exceeds IDEM 30-Year Chronic Residential Indoor Air Action Level.

NA - Not analyzed:

N/A - Not applicable.

BDL - Results are below IDEM 30 year Residential Chronic Action Level.

(A-Indoorair sample. AA - Ambientair sample.

DUP - Duplicate sample.

1F - Pirst floor. 2F - Second floor.

BSMT - Basement

APT - Apartment

LR - Using room (Keramida, inc., nomenclasure). BR - Bedroom (Keramida, inc., nomenclature).

### Table 2. Residential Sub-Slab Vapor VOC Analytical Resides Former Harman-Becter Austrinotive Systems 1201 South Ohlo Street Martinsville, andlana

																			ABI	esults in u	L/m*							and the								- 5
Address	Home Owner	Sample	Date(s) Sampled	Austros	Beroone	2- Sutanove (MEX)	Carbon Dautible	Olimotom	Olivomethane	Cyclohesane	12 Didtiorabananu	Dichlorodfleon methane	L.1. Old-loreethane	1,1 Oichhoraethene	or L1 Schloodhine	trans 1.3 Dictionerhans	Ethyl Acetate	En phonones	n-Reptane	Headline 13-butdens	to Measure	2 Heumone	Methylene Oloriffe	4-Methy 3 pentanone (MISC)	Naphthalone	2-Propanol	analytican	Shrane	Terachioroethene	Tatahydoken	Tolumene	1,13. Tach bis others	Tric Monochene	Very Osteride	Total Xylenes	All Other VOCs
DEM 30-Year Resi	dental lab list fo	orget Action Level *		N/A	25.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	%/A	N/A	N/A:	N/A	N/A	12.0	N/A	N/A	N/A	12.0	22.0	N/A	Various
1230 ONO Street	ohris	1210 ON 0 55	4/1/2010	353	4L(0)	-6.90	<1.10	<170	2.30	1.30	2.50	41.30	<1.40	<1.40	<1.40	<1,40	5.10	2:20	<1.40	<3.70	19.2	<1.40	82.0	2.80	NA.	NA:	1.60	1.80	Q.40	41.00	73.6	<1.00	<0.92	<0.027	8.90	904
1340 Ohlo Street	literwalt	1240 Ohio SS	5/6/2010	1.20	41.10	<0.10	<110	3.10	<0.76	<120	<2.20	<1.80	<1.90	<1.50	<1.50	<1.50	<1.30	<1.60	<1.50	6.30	<1.30	<1.50	<1.30	<1.50	c4.90	<4.50	-0.61	<1.60	<2.50	<1.10	41.40	<2.00	<0.99	<0.54	4.20	80%
124007853886	Election (	DUF-1 (1340 Clone SS)	5/6/2010	32.6	42.20	12.1	<2.10	21.4	<140	130	<4.00	3.45	<2.80	<2.70	<2.70	<2.36	<2.30	<3.00	<2.60	<7.46	<2.40	42.80	5.40	<2.60	9.10	1,340	410	42.90	44,70	100		4,00	<180	<1.70	E.00	BDL
		1304 Clore Sub-Slab	2/13/2009	NA	NA:	NA.	NA.	NA.	NA.	NA:	N/A	NA.	<1.40	<1.40	<1.40	<1.40	NA .	NA:	NA-	NA:	NA:	NA.	NA .	NA.	NA.	NA:	NA.	NA.	5,990	NA.	NA:	746	250	<0.87	NA.	NA
1304 Clore Street	Payrie	3304 Clore Sub-Sab (Sup)	2/13/2009	NA:	NA	NA.	NA:	NA.	NA:	NA:	NA	NA:	<27.6	<27.2	<27.2	<27.2	NA	NA:	NA	NA:	NA:	NA.	NA:	NA:	NA.	NA.	NA.	NA:	5,100	NA	NA.	@1	<38.5	<17.5	NA	NA:
10000	P-805.				1000			Market Land				-	-	12	-	apor Mitiga								11111111111		11111			-	1-1-1					4	- word
		1304 Clbre Sub-Slab	5/6/2009	NA .	. NA	NA.	NA .	NA.	NA.	NA.	NA.	NA.	<5.00	_	<s.s0< td=""><td>&lt;5.50</td><td>NA.</td><td>NA.</td><td>NA.</td><td>. NA</td><td>NA.</td><td>NA .</td><td>NA</td><td>NA.</td><td>NA.</td><td>NA.</td><td>N/A</td><td>NA NA</td><td>1,000</td><td>NA.</td><td>NA.</td><td>160</td><td>&lt;7.50</td><td>c360</td><td>NA .</td><td>NA .</td></s.s0<>	<5.50	NA.	NA.	NA.	. NA	NA.	NA .	NA	NA.	NA.	NA.	N/A	NA NA	1,000	NA.	NA.	160	<7.50	c360	NA .	NA .
	up-cui	1398 Clore Basement Sub-Stab	1/14/2009	NA:	-NA	NA.	NA:	NA.	NA.	NA:	NA.	NA:	<7.20	<7.10	<7.10	<7.20	NA.	N/A	NA.	NA:	NA.	- NA	N/A	NA:	NA:	NA.	- NA	N/A	2,600	NA.	NA.	110	120	e4.60	- NA	NA:
1358 Clore Street	Murin	1398 Gore Erany Sub-Sub	14/2009	.NA	NA.	- NA	NA:	: NA	NA.	NA:	NA.	NA .	<5.50	<5.40	<\$.40	<5.40	NA .	NA.	NA.	NA.	NA.	NA .	N/A	NA.	NA.	NA.	NA .	NA .	#30	NA .	NA.	<7.40	<7.30	<3.50	NA .	NA .
	_	1398 Clore 25	4/8/2010	201	210	7.30	140	+2.00	2.00	<1.60	<2.40	2.00	< 1.60	<1.60	<1.80	<1.80	<1.50	<1.80	2.20	₹4.40	6.20	2.50	18.2	₹1.70	NA	NA.	-0.70	<5.70	7200	<0.20	820	4.70	158	×100	5.20	50.
		1399 Clbre Sub-Slab	1/11/2009	NA.	NA:	- NA	NA.	NA.	NA .	NA:	N/A	NA.	<1.40	<1.40	7.70	1.40	NA.	NA:	NA.	NA.	NA.	NA.	NA .	NA.	N4.	NA .	NA.	NA .	94,900	NA.	.NA	512	2,120	<0.87	NA.	NA .
1399 Clore Street	Seaney	1399 Clore Sub-Sub-(Dup)	1/11/2009	, NA	NA NA	NA.	NA:	NA.	NA .	NA.	NA.	NA:	<1.40	1.90	9.00	2.80	NA.	NA.	NA NA	NA:	NA:	NA.	NA:	NA:	NA.	NA.	NA .	NA:	201,000	NA.	NA.	518	5,450	0.92	NA	NA:
	1	1100.00		-	100		1	No.		1212	-	-	17.00	120		apor Mitga			_		100			1000	1 11 11	1414	1			Trans.	1777	-		12.00	Control of the last	11000
		1399 Clore 5 5 5 b	5/4/2009	NA.	NA.	NA.	NA.	NA.	NA	NA.	764	NA.	<4.30	<4.20	c4.20	<4.20	NA.	NA.	NA.	NA:	NA.	NA .	NA .	NA.	NA:	NA.	- NA	NA	2,000	NA:	N/A	<580	180	<2.70	NA :	NA

Hotes:
A3 samples analyzed for volatile organic compounds (VOCs) via United States Environmental Protection Agency (USEPA) method TO-15.

ug/m\*, entorograms per meter cubed.

\* Indiana Department of Environmental Management (DEM) Draft Vapor Intrusion Pilot Program Guidance Supplement (February 4, 2010).

SED Exceeds DEM 30-Year Residential Sub-Stab Prompt Action Level.

NA - Not analyzed.

NA - Not analyzed.

BDL - Results are below IDBM 30-Year Residential Sub-Stab Prompt Action Level.

DUP - Duplicate sample.

SS - Sub-stab sample.

Vapor Residential Sampling & Mitigation Report Former Harman-Becker Automotive Systems, Inc. Martinsville, Indiana State Cleanup #1996-096.183

### **APPENDICES**

Appendix A – Vapor Sampling Logs

Appendix B – Indoor Air Building Survey Checklist

Appendix C – Laboratory Analytical Data

Appendix D – Individual Residential Indoor Air Reports

Appendix E – 520 Basca Drive Sub-Membrane Depressurization System Schematics

Vapor Residential Sampling & Mitigation Report Former Harman-Becker Automotive Systems, Inc. Martinsville, Indiana State Cleanup #1996-096.183

### Appendix A

**Vapor Sampling Logs** 

Former-Harman Becker Automotive Systems 3872 28 Project Name: Project Number: Task Number:

Project Address: Sample Location: Collected By:

1201 South Ohio Street, Martinsville, Indiana 520 Basca Dr., Martinsville, IN T. Yetes



			Sample Collection	collection				_		Initial	Final	Outdoor	Indoor	
	Sample Name	Start	-	Stop	۵	Semple	Candster	_	Regulator	Pressure	Pressure	Temperature	Å	Analysis
		Date	Time	Date	Time	AD6	ad.	Negber	NUMBer	(in./Hg)	(in./Hg)	(F)		
520 Basca IA		3/17/2010	9:15	3/18/2010	8:00	₫	95	940		<u>%</u>	0	41		VOCs TO-15
Notes:	Rhine Residence. Vapor mitgation system operating at time of sampling.	system opera	oting at time	of sampling.										

Sample Types: IA - Indoor Air SS - Sub-Slab SG - Soil/Gas AA - Amblent Air

Former-Harman Becker Automotive Systems 3872 28 Project Name: Project Number: Task Number:

Project Address: Sample Location: Collected By:

1201 South Ohio Street, Martinsville, Indiana 540 Basca Dr., Martinsville, IN T. Yates



		Sample C	Sample Collection		,			furtial	Final	Outdoor	Indoor	
Sample Name	Start	ب	Stop	_	ad in	Sample Canister Regulator	Canister	Pressure	Pressure	Temperature	Temperature	Analysis
	Date	Time	Date	Time	lype	ype	Number	(in./Hg)	(In./Hg)	(£)	(F)	
540 Basca IA	3/22/2010	9:33	3/23/2010	9:33	Ā	19	190	Ŗ	Ą	41	72	VOCs TO-15

Sample Types:

Chastain Residence.

Notes:

IA - Indoor Air SS - Surb-Slab SG - Soil/Gas AA - Ambient Air

Former-Harman Becker Automotive Systems 3872 28 Project Number: Task Number: Project Name:

Project Address: Sample Location: Collected By:

1201 South Ohlo Street, Martinsville, Indiana 1210 Ohlo St., Martinsville, IN T. Yates



		Sample Collection	ollection						Initial	Cloud	O. Adams	2000	
Sample Name	Start	-	Stop	9	Sample	-	Carrister	Regulator	Pressure	-	Temperature	Temperature	Analysis
	Date	Time	Date	Time	ıkbe	-ADA	Number	Number	(in./Hg)		£	(F)	
1210 Ohio IA 1F	3/30/2010	8:48	3/31/2010	8:51	¥	<b>6</b> L	1120	٠	-28	٥	45	n	VOCs TO-15
1210 Ohio IA BSMT	3/30/2010	8:49	3/31/2010	8:53	ΑI	19	695		-28	0	45	89	VOCs TO-15
OUP-1	3/30/2010	8:49	3/31/2010	8:53	¥	9	147		-28	940	45	89	VOCs TO-15
AA-1	3/30/2010	8:51	3/31/2010	8:54	*	19	296		-30	7	45		VOCs TO-15

Johns' residence. Hame unoccupied during winter months. 1f - First Floor. BSMT - Basement. DUP-1 collected at 1210 Ohio IA BSMT

Motes:

Sample Types: IA · Indoor Air

SS - Sub-Slab SG - Soil/Gas AA - Ambient Air

Former-Harman Becker Automotive Systems 3872. Project Name: Project Number; Task Number:

Project Address: Sample Location: Collected By:

1201 South Ohio Street, Martinsville, Indiana 1210 Ohio St., Martinsville, IN T. Yates



			Sample Collection	ollection						Initial	Final	Outdoor	Indoor	
	Sample Name	Start	T T	Stop	Q.		_		Regulator	- 0.0	e e	Temperature	Ä	Anahrsis
		Date	Time	Date	Time	ADE.	ıype	Rumber	Nomber	_		(4)		
1210 Ohio SS		4/8/2010	10:50	4/8/2010	11:20	SS	11	\$303		-25	0	48	12	VOCs TO-15
Notes:	Johns' residence. Sub-slab part installed on 4/6/2010 in basement.	talled on 4/6/	2010 in bas	ement.										

Sample Types: IA - Indoor Air

SS - Sub-Slab SG - Soit/Gas AA - Ambient Air

Project Name: Former-Harman Becker Automotive Systems Project Number: 3872 Task Number: 28

Project Address: Sample Location; Collected By:

1201 South Ohio Street, Martinsville, Indiana 1240 Ohio St., Martinsville, IN T. Yates



		Sample Collection			Samole	Canister	Canister	Regulator	Initial	Final	Outdoor	Indoor	
Sample Name	Start		Stop	D					Pressure	Pressure	Temperature	Temperature	Analysis
	Date	Time	Date	Тіте	adkı	adkı	Number	Number	(ln./Hg)	(in./Hg)	(£)	E	
1240 Ohio IA BSANT	3/22/2010	10:22	3/23/2010	10:22	٧	79	282	,	-26	5.	42	17	VOCs TD-15
1240 Ohio IA 1F	3/22/2010	18:12	3/23/2010	18:12	Ą	- Per	1050		zi.	٥	37	73	VOCs TO-15
1240 Ohio 1A 2F	3/22/2010	18:15	3/23/2010	18:16	*	19	1237	,	-27	٥	37	73	VOCs TD-15

Stierwalt residence. Stierwalt repairs lawn mowers in his garage, restores clocks, & has industrial cleaners in residence. Notes:

Sample Types: IA - Indoor Air

SS - Sub-Slab SG - Soil/Gas AA - Ambient Air

Former-Harman Becker Automotive Systems 3872 28 Project Name: Project Number: Task Number:

Project Address: Sample Location: Collected By:

1203 South Ohio Street, Martinsville, Indiana 1240 Ohio St., Martinsville, IN T. Yates



		Cample Collection	ollaction						0.0000	i			
Sample Name	Start	1	Stop	Ġ.	Sample	Canister		Regulator	Pressure	Pressure	Temperature	Temnerature	Anabreie
	Date	Time	Date	Time	Type	Туре	Number	Nomber	(In./Hg)	(in./Hg)	(F)		Contract of the Contract of th
1240 Ohio S\$	5/6/2010	8:25	5/6/2010	9:25	×	11	1020	,	-26	-5	52	74	VOCs TO-15
DUP-1	5/6/2010	9:41	5/6/2010	10:11	SS	H	993	,	-27	ιὑ	55	74	VOCs TO-15

Notes:

Stierwalt residence. Sub-slab port installed on 4/6/2010 in basement.

Canister Types: 1L - 1 liter canister 6L - 6 liter canister

Sample Types:
IA - Indoor Air
SS - Sub-Stab
SG - Soit/Gas
AA - Ambient Air

Project Name: Former-Harman Becker Automotive Systems Project Number: 3872 Task Number: 28

Project Address: Sample Location: Collected By:

1201 South Othio Street, Martinsville, Indiana 1309 Ohio St., Martinsville, IN T. Yates



		Samole Collection	offection		Γ				Ichiot	Cion	Orthodox	a de la constantina della cons	
Sample Name	Start	ţ	Stop		Sample	_	Canister	_		Pressure	Temperature	Temperature	Analysis
	Date	Тяте	Date	Time	ıype	ıype	Mumber	Number	(in./Hg)	(In./Hg)	(*F)	(PF) (PF)	
1309 Ohio IA	3/23/2010	7:32	3/24/2010	7:30	₹	ಹ	10		-27	2.	36	75	VOCs TO-15
										1			

Thomas residence. Notes:

Canister Types: 1L - 1 litter canister 6L - 6 liter canister

Sample Types:

LA - Indoor Air SS - Sub-Slab SG - Soil/Gas AA - Ambient Air

Former-Harman Becker Automotive Systems 3872 Project Number: Project Name: Task Number:

Project Address: Sample Location: Collected By:

1201 South Ohio Street, Martinsville, Indiana 1304 Clore St., Martinsville, IN T. Yates



		Sample (	Sample Collection						Inikla	Final	Oertdoor	Indoor	
Sample Name	Start	T.	Stop	٩	alduie.	Sample Candier Canister Regulator	Canister	Regulator	Pressure	41	Temperature	ļ.	Analysis
	Date	Time	Date	Time	lype	adk.	Number	Number		(ln./Hg)	(F)	(TF)	
1304 Clore IA	5/17/2010	90:6	5/18/2010	90:6	¥	19	254	100	-24	÷	95	74	VOCs TO-15
1304 Clore BSMT	5/17/2010	90:6	5/18/2010	90:6	Ā	19	32	88	-30	4	98	70	VOCs TO-15

Payne residence. Basement had strong ammonia odor. Residence has two (2) vapor mitigation systems; one (1) for the basement and one (1) for the crawl space. Vapor mitgation systems operating at time of sampling. Notes:

Canister Types: IL - I liter canister 6L - 6 liter canister

Sample Types: IA - Indoor Air

SS - Sub-Slab SG - Soll/Gas AA - Ambient Air

Former-Harman Becker Automotive Systems 3872 Project Number: Task Number: Project Name:

Project Address: Sample Location: Collected By:



			Sample (	Sample Collection						finitial	Flead	Childhon	Indoor		-
	Sample Name	Stan		Stop		Sample	Canister	Canister	Regulator	_	Pressure	Temperature	ļ <u>.</u>	Anabreic	
		Date	Time	Date	Time	adkı	Abe	Aumber Aumber	Mumber		[in_/He]	E			
1334 Clore IA	A	3/22/2010	18:33	3/23/2010	18:32	₫	3	596		-25	0	38	92	VOCs TO-15	
Notes:	Brock residence. Vapor mitigation system operating at time of sampling.	system opera	ting at time	of sampling.											_

Canister Types: 1L - 1 liter canister 6L - 6 liter canister Sample Types: IA - Indoor Air

SS - Sub-Slab SG - Soil/Gas AA - Ambient Air

Project Name: Former-Harman Becker Automotive Systems
Project Number: 3872
Task Number: 28 Project Manye:

Project Address: Sample Location: Collected By:

1201 South Ohio Street, Martinsville, Indiana 1354 Clore St., Martinsville, IN T. Yates



_			Sample	Sample Collection						Initial	Final	Outdoor	Indoor	
	Sample Name	Start	ب	Stop	0	and Here			Regulator	Pressure	Pressure	Temperature	Temperature	Analysis
		Date	Time	Date	Time	Lype	Гуре	Number	Nember	(In./Hg)	(in./Hg)	(*F)	(*F.)	
1354 Clore IA		3/17/2010	11:47	3/18/2010	11:37	≰	75	561		-30	0	42	7.0	VOCs TO-15
Notes:	Quakenbush residence. Vapor mitigation system operating at time of sampling,	igation system	operating	at time of sam	pling.									

Canister Types: 1L - 1 liter canister 6L - 6 liter canister

Sample Types: IA - Indoor Air SS - Sub-Slab SG - Soll/Gas AA - Ambwent Akr

Former-Harman Becker Automotive Systems 3872 28 Project Number: Task Number: Project Name:

Project Address: Sample Location; Collected By:

1201 South Ohlo Street, Martinsville, Indiana 1355 Clore St., Martinsville, IN T. Yates



		Sample Collection	ollection				[ ,		Initial	Final	Outdoor	Indon	
Sample Name	Start	_	Stop			Canister	Cankter	Regulator	Pressure	Pressure		Temperature	Analysis
	Oate	Time	Date	Time	Abbe	Type	Number	Number	(in/Hg)	(jm./Ng)	(F)	£	
1355 Clore IA	3/22/2010	9:03	3/23/2010	60:6	\$	6t	88		-22		41	82	VOCs TO-15

Bryant residence. Vapor mitigation system operating at time of sampling. Residents smoke cigarettes. Notes:

Canister Types: 1L - 1 liter canister 6L - 6 liter canister Sample Types:

tA - Indoor Air SS - Sub-Slab SG - Soil/Gas AA - Ambient Air

Former-Harman Becker Automotive Systems 3872 Project Number: Task Number: Project Name:

Project Address: Sample Location: Collected By:

1201 South Chio Street, Marbnsville, Indiana 138S Clore St., Martinsville, IN T. Yates



		Jumes	allandan										
Sample Name	Start	t Jampie Conecutori	Stop		Sample	Canister	Canister	Canister Canister Regulator	Pressure	Final	Outdoor	Indoor	Analysis
	Date	Time	Date	Тетте	1ype	lype	Number	Number	(in./Hg)	(In./Hg)	(F)	æ	
1385 Clore IA	3/17/2010	12:19	3/18/2010	12:09	¥!	19	688	٠	-30	0	44	65	VOCs TO-15

Ferguson residence. Residence vacant, electricity off, and vapor mitigation system is not currently running. Vapor mitigation system not running at time of sampling.

Canister Types: 1L - 1 liter canister Sample Types: IA - Indoor Air

Notes:

6L - 6 liter canister

SS - Sub-Slab SG - Soll/Gas AA - Ambient Air

Project Name: Former-Harman Becker Automotive Systems Project Number: 3872 Task Number: 28

Project Address: Sample Location: Collected By:

1201 South Ohio Street, Martinsville, Indiana 1398 Clore St., Martinsville, IN T. Yates



			Sample C	Sample Collection						Initial	Final	Outhdoor	Indoor	
	Sample Name	Start	-	Stop	ď		Canister	Canister	Regulator	6.	ů.	Temperature	P	Anahris
		Date	Time	Date	Time	lype	lype	Number	Number		(in./Hg)	(£)		
1398 Clore 55		4/8/2010	10:41	4/8/2010	11:11	×	11	879	٠	è	_	48		VOCs TO-15
Notes:	Martin-owned apartment building. Sub-slab port installed on 4/6/2010 in basement.	Sub-slab port	installed or	n 4/6/2010 in	basement.				·					

Canister Types: 1L - 1 liter canister 6L - 6 liter canister

Sample Types:
IA - Indoor Air
SS - Sub-Slab
SG - Soll/Gas
AA - Ambient Air

Former-Harman Becker Automotive Systems 3872 28 Project Name: Project Number: Task Number:

Sample Location: Collected By: Project Address:

2203 South Ohio Street, Martinsville, Indiana 3398 Clore St., Martinsville, IN T. Yates



		Sample Coffection	offection				-		tnitial	Final	Outdoor	tndoor	
Sample Name	S	Start		Stop	Semple	-	_	Regulator	- 04	Pressure	9	Temperature	Analogis
	Oate	Thme	Date	Time	ıype	) Jype	Number	Number	(in./Hg)	(in/Hg)	Ξ	(+1)	And I am
1398 Clore APT 1	5/6/2010	10:09	5/7/2010	9:55	\$	19	1275	330	,30	7	25	п	VOCs TO-15
1398 Clore APT 2	5/6/2010	10:11	5/7/2010	9:56	3	19	1209	197	.30	4	57	78	VOCs TO-15
1398 Clore APT 3	5/6/2010	10:13	5/7/2010	9:57	\$	75	1211	214	-28	7	57	72	VOCs TO-15
1398 Clore APT 4	40304	0.427083333	40305	0.415277778	ΙĄ	ತ	1062	397	-28	ŵ	57	78	VOCs TO-15
1398 Clore BSMT	40304	0.433333333	40305	0.417361111	ŀΑ	9	236	378	œ.	d,	57	33	VOCs TO-15
0VP-2	40304	0.433333333	40305	0.417361111	Ą	95	1194	136	-26	0	57	38	VOCs TO-15

Section Sections	apparent.
A County of the Latest	mar IIII-Owned
Manham	MCC.

Apartment #1 is vacant and has a strong ammonie smell, Apartment #2 has residents that smoke olgarettes. Apartment #3 has residents that smoke digarettes. nent building.

Apartment #4 has residents that smoke digarettes. DUP-1 collected at 1398 Clore BSMT.

Canister Types: Sample Types:

11 - 1 liter canister 6L - 6 liter canister

LA - Indoor Air SS - Sub-Stab SG - Sold/Gas AA - Ambient Air

Former-Harman Becker Automotive Systems 3872 28 Project Name: Project Number: Task Number:

Project Address: Sample Location: Collected By:

1201 South Otho Street, Martinsville, Indiana 1399 Clore St., Martinsville, IN T. Yates



			Sample Collection	ollection.		-				Initial	Final	Outdoor	Indopr	
	Sample Name	Start	T.	Stop		adulec	Canister	Canister		Pressure	-	Temperature	Temperature	Analysis
		Date	Time	Date	Time	ıype	Lype	Number	Number	(in./Hg)		(*F)	(E)	and a second
1399 Clore IA		3/17/2010	11:08	3/18/2010	10:24	M	હ	663	٠	-30		41	78	VOCs TO-15
Notes:	Sweeny residence. Vapor mitigation system not operating at time of sampling.	on system not	operating	at time of sam	pling.									

Canister Types: 11 - 1 liter canister 61 - 6 liter canister Sample Types:

IA - Indoor Ak SS - Sub-Slab SG - Sod/Gas AA - Amblent Air

Vapor Residential Sampling & Mitigation Report Former Harman-Becker Automotive Systems, Inc. Martinsville, Indiana State Cleanup #1996-096.183

### Appendix B

Indoor Air Building Survey Checklist



### INDOOR AIR BUILDING SURVEY CHECKLIST

			1 1	
Preparer's Name: #	LERLY THINE	Date:	17/10	_
Preparer's Affiliation	CUNER	Phone #:	765-382-990	8
Site Name:		Site#		
Site Address (include	city and zip): 520 =	BASCA	DRIVE	_
Part I – Occupants		MARTIN	Isville, IN	4615
List of Current Occup	ants/Occupation (include chil	dren)		
Name (Age)	Address: (Lot # or apt. #)	Sex (M/F)	Occupation	7
John Doe (42)	112 South St. Lot # 12	M	geologist	
FLERLY KHINE	520 BASCA DEWE	+	MANAGEIZ	7
	STORIAL W	7		
	A			1
		1		]
other	tial I multi-family residential			
*				
Sensitive population:	day care / nursing home / hos	spital / school	/ other (specify):	
Number of floors at or	above grade:/			
Number of floors below	w grade: (full base	ment crawl s	pace slab on grade)	
Depth of basement bel	ow grade surface: NA ft.	Basement si	ze: ft²	
Basement floor constru	action: concrete / dirt / slab /	stone / other	(specify):NA	
Foundation walls: po	oured concrete cinder blocks	/ stone / other	(specify):	
DEM Draft Vapor In	trusion Pilot Program Guid	ance April 9	26 2006 Dece IV	<i>l</i> 1

Basement sump present? Yes / No Sump	pump? Yes/No Water in sump? Yes/No			
Significant cracks present in basement floo	or? Yes / No			
Significant cracks present in basement wal	lls? Yes / No			
Are the basement walls or floor sealed with	h waterproof paint or epoxy coatings? Yes/No			
Is there a whole house fan? Yes	:/No			
Septic system? Yes	: / Yes (but not used) / No			
Irrigation/private well? Yes	s / Yes (but not used) / No			
Type of ground cover outside of building:	grass / concrete / asphalt / other (specify)			
Sub-slab vapor/moisture barrier in place?  Type of barrier:				
Type of heating system (circle all that apply):  hot air circulation hot air radiation wood steam radiation heat pump hot water radiation kerosene heater electric baseboard other (specify):				
	apply): mechanical fans bathroom ventilation fans kitchen range hood fan outside air intake			
Type of fuel utilized (circle all that apply):  Natural gas / electric / fuel of wood / coal / solar / kerosene / other (specify):				
Part III - Outside Contaminant Sources				
Contaminated site within 50-ft (BTEX) or	100-ft (Chlorinated)?			
If yes: Site Name:	Site Number:			
Other stationary sources nearby (gas stations, emission stacks, etc.):				
Heavy vehicular traffic nearby (or other mobile sources):				

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room), and whether the item was removed from the building 48 hours prior to the indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the start of the indoor air sampling event.

Potential Sources	Location (s)	Removed (Yes / No / NA)
Gasoline storage cans		500
Gas-powered equipment (mowers, etc)	-46	
Kerosene storage cans	W 4	
Paints / thinners / strippers	-20. \	VBb.
Cleaning solvents		
Oven cleaners		(0)
Carpet / upholstery cleaners		71117
Other house cleaning products		7
Moth balls	46.00	
Polishes / waxes	9.	
Insecticides	Titles Total	
Furniture / floor remover	7755.	
Nail polish / polish remover		
Hairspray	The second second	
Cologne / perfume	V 7	
Air fresheners		
Fuel tank (inside building)		NA
Wood stove or fireplace		NA
New Furniture / upholstery	A Comment of	
New carpeting / flooring		NA
Hobbies – glues, paints, lacquers, photographic darkroom chemicals, etc		
Scented trees, wreaths, potpourri, etc.		
Other (specify):		

Do any occupants of the building smoke? Yes No How oft	ten?
Last time someone smoked in the building?h	ours / days ago
Does the building have an attached garage directly connected to living space	e? Yes No
If so, is a car usually parked in the garage? Yes/No	
Are gas-powered equipment or cans of gasoline/fuels stored in the g	arage? Yes No

Do the occupants of the building have their clothes dry cleaned? Yes No
If yes, how often? Weekly / monthly / 3-4 times a year
When was the last dry cleaned garment brought home?
Do any of the occupants use solvents in work?  Yes No
If yes, what types of solvents are used?
If yes, are their clothes washed at work? Yes / No
Have any pesticides/herbicides been applied around the building or in the yard? Yes No
If so, when and which chemicals?
Has there ever been a fire in the building?  Yes No  If yes, when?
Has painting or staining been done in the building in the last 6 months?  Yes No
If yes, when? and where?
Part VI – Sampling Information
Tatt vi – camping into mattor
Company/Consultant: Phone number: ( )
Company/Consultant: Phone number: ( ) Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas  Sampler Type: 400 mL - 1.0 L Summa Canister / 6 L Summa Canister / Other
Company/Consultant: Phone number: ( ) Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas
Company/Consultant: Phone number: ( )  Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas  Sampler Type: 400 mL - 1.0 L Summa Canister / 6 L Summa Canister / Other (specify):
Company/Consultant: Phone number: ( ) Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas Sampler Type: 400 mL - 1.0 L Summa Canister / 6 L Summa Canister / Other (specify): Analytical Method: TO-14A TO-15 / TO-15 SIM / other:
Company/Consultant: Phone number: ( ) Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas  Sampler Type: 400 mL - 1.0 L Summa Canister / 6 L Summa Canister / Other (specify):  Analytical Method: TO-14A TO-15 / TO-15 SIM / other:  Laboratory:
Company/Consultant: Phone number: ( )  Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas  Sampler Type: 400 mL - 1.0 L Summa Canister / 6 L Summa Canister / Other (specify):  Analytical Method: TO-14A TO-15 / TO-15 SIM / other:  Laboratory:  Sample locations (floor, room):
Company/Consultant: Phone number: ( )  Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas  Sampler Type: 400 mL - 1.0 L Summa Canister / 6 L Summa Canister / Other (specify):  Analytical Method: TO-14A TO-15 / TO-15 SIM / other:  Laboratory:  Sample locations (floor, room):  Field/Sample ID# Field/Sample ID #
Company/Consultant: Phone number: ( )  Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas  Sampler Type: 400 mL - 1.0 L Summa Canister / 6 L Summa Canister / Other (specify):  Analytical Method: TO-14A TO-15 / TO-15 SIM / other:  Laboratory:  Sample locations (floor, room):  Field/Sample ID# Field/Sample ID #  Field/Sample ID# Field/Sample ID #

Provide Drawing of Sample Location (s) in Building
Part VII – Metrological Conditions
Was there significant precipitation within 12 hours prior to (or during) the sampling event? Yes / No
Describe the general weather conditions:
Part VIII – General Observations
Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.



Preparer's Name:	1	Date:	17-2010	_
Preparer's Affiliation:	<u> </u>	Phone #:	<u> </u>	
Site Name: Chasta	in home s	Site #		
Site Address (include o	city and zip): 540 BA	SCA D	RIVE MARTIN	SVILLE, I
Part I - Occupants				16151
List of Current Occupa	ants/Occupation (include childs	en)		
Name (Age)	Address: (Lot # or apt. #)	Sex (M/F)	Occupation	
John Doe (42)	112 South St. Lot # 12	M	geologist	
Mark Chastain 31	540 BASCA DR	M	business owner	- ACE Remodel
Joni Chartain 27	" or lar himville IN	F	home maker	
Jarob Chatain 7	46151	M	A - Hamile Sensite	
Jaylee Chastain 4		F		
Jayda Chestain 1/2		E		
other	ial multi-family residential /			
Describe building:	esidential home	Үеаг	constructed: 1953	
	day care / nursing home / hosp	ital / schoo	l / other (specify):	ily home
Number of floors at or	above grade: 1/2			
Number of floors below	v grade; (full basem	ent / crawl:	space slab on grade)	
Depth of basement bele	ow grade surface: ft.	Basement s	size: ft²	
Basement floor constru	ction: concrete dirt slab / s	tone / other	(specify):	
Foundation walls: po	ured concrete / cinder blocks/	stone / othe	er (specify):	
IDEM Draft Vapor Int	rusion Pilot Program Guidai	nce – April	26, 2006 Page I	V - 1

Basement sump present? Yes No Sump pump? Yes No Water in sump? Yes No
Significant cracks present in basement floor? No Yes / No
Significant cracks present in basement walls? ^A Yes / No
Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes / No
Is there a whole house fan? Yes No
Septic system? Yes / Yes (but not used) No
Irrigation/private well? Yes / Yes (but not used) No
Type of ground cover outside of building: grass / concrete / asphalt / other (specify)
Sub-slab vapor/moisture barrier in place? Yes No/Don't know Type of barrier:
Type of heating system (circle all that apply)  hot air circulation hot air radiation wood steam radiation heat pump hot water radiation kerosene heater other (specify):
Type or ventilation system (circle all that apply):  central air conditioning mechanical fans bathroom ventilation fans individual air conditioning units kitchen range hood fan outside air intake other (specify):
Type of fuel utilized (circle all that apply):  Natural gas electric fuel oil / wood / coal / solar / kerosene / other (specify):
Part III - Outside Contaminant Sources
Contaminated site within 50-ft (BTEX) or 100-ft (Chlorinated)?
If yes: Site Name: Site Number:
Other stationary sources nearby (gas stations, emission stacks, etc.):
Heavy vehicular traffic nearby (or other mobile sources):

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room), and whether the item was removed from the building 48 hours prior to the indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the start of the indoor air sampling event.

Potential Sources	Location (s)	Removed (Yes / No / NA)
Gasoline storage cans	outside - barn	1,
Gas-powered equipment (mowers, etc)	outside	
Kerosene storage cans	NIA	
Paints / thinners / strippers	barn	
Cleaning solvents	under sink - bleach	
Oven cleaners	N/A	TODA.
Carpet / upholstery cleaners	NIA	*S02"
Other house cleaning products	under sink - Windex/blench	17
Moth balls	N/A	
Polishes / waxes	NIA	
Insecticides	know - ham	
Furniture / floor remover	NIA	
Nail polish / polish remover		
Hairspray	undersink in hathum	
Cologne / perfume	hedroom	
Air fresheners	bathroom	
Fuel tank (inside building)	NA	NA
Wood stove or fireplace	NA	NA
New Furniture / upholstery	W/A	
New carpeting / flooring		NA
Hobbies - glues, paints, lacquers, photographic darkroom chemicals, etc	NA	
Scented trees, wreaths, potpourri, etc.	oil burner- Kitchen used in	
Other (specify):		

Do any occupants of the building smoke?	Yes (No)	How often?	
Last time someone smoked in the b	ouilding? _	hours / d	lays ago
Does the building have an attached garage	directly con	nected to living space?	Yes / No
If so, is a car usually parked in the	garage?	Yes / No	_
Are gas-powered equipment or can	s of gasoline	/fuels stored in the garage?	Yes / No
			_

Do the occupants of the building have their clot	hes dry cleaned? Yes (No
If yes, how often? Weekly / mo	nthly / 3-4 times a year
When was the last dry cleaned garment	prought home?
Do any of the occupants use solvents in work?	Yes / No
If yes, what types of solvents are used?	
If yes, are their clothes washed at work?	Yes / No
Have any pesticides/herbicides been applied aro	
If so, when and which chemicals?	ist fall - Hoursidest spray- anti
Has there ever been a fire in the building?	Yes No If yes, when?
Has painting or staining been done in the building	ng in the last 6 months? Yes No
If yes, when? and	where?
Part VI - Sampling Information	
Company/Consultant:	Phone number: ( )
Sample Source: Indoor Air / Sub-Slab / Near S	lab Soil Gas / Exterior Soil Gas
Sampler Type: 400 mL - 1.0 L Summa Caniste (specify):	er / 6 L Summa Canister / Other
/op-04-13//-	
Analytical Method: TO-14A / TO-15 / TO-15 S	
Analytical Method: TO-14A / TO-15 / TO-15 S	
Analytical Method: TO-14A / TO-15 / TO-15 S Laboratory:	IM / other:
Analytical Method: TO-14A / TO-15 / TO-15 S Laboratory:  Sample locations (floor, room):	IM / other:  Field/Sample ID #
Analytical Method: TO-14A / TO-15 / TO-15 S  Laboratory:  Sample locations (floor, room):  Field/Sample ID#	Field/Sample ID #
Analytical Method: TO-14A / TO-15 / TO-15 S  Laboratory:  Sample locations (floor, room):  Field/Sample ID#  Field/Sample ID#	Field/Sample ID #  Field/Sample ID #  Field/Sample ID #

	Provide Drawing of Sar	inpic Eccation (s)	in Building	
				-
				300
	1	746	1	
art VII - Metrologica	Conditions	A D		
as there significant pre	cipitation within 12 ho	ours prior to (or du	ring) the sampling	event?
es / No	The Pality of th		,p	
escribe the general wer	nther conditions: St	eady rain	night before	e semp
A	10 10	,		
art VIII – General Obse	ervations			
		a 41-a1:		.1 .1
terpretation process.	that may be pertinent to	o the sampling eve	ent and may assist i	n the data
	The Man Mine's	an alima		
	vas on auring	sampling.		

- Do not open windows, fireplace opening or vents
- Do not keep doors open.
- Do not operate ventilation fans.
- Do not use air fresheners or odor eliminators.
- Do not smoke in the house to the extent practical.
- Do not use wood stoves, fireplace or auxiliary heating equipment (e.g., kerosene heater)
- Do not use paints or varnishes.
- Do not use cleaning products (e.g., bathroom cleaners, furniture polish, appliance cleaners, and floor cleaners).
- Do not use cosmetics, including hair spray, nail polish, nail polish remover, perfume, etc.
- Do not partake in indoor hobbies that use solven s.
- Do not apply pesticides.
- Do not store containers of gasoline, oil or petroleum-based or other solvents within the house or attached garage (except for fuel oil tanks).
- Do not operate or store automobiles in an attached garage.



Preparer's Name:	Brad Stierwalt	Date:	41-10		
Preparer's Affiliation:		Phone #:	A.		
Site Name:		Site#			
Site Name: Site # Site # Site Address (include city and zip): 1440 Oh. Street, Matire; 116 IN					
Part I - Occupants	2	4 )			
List of Current Occup	ants/Occupation (include child	dren)			
Name (Age)	Address: (Lot # or apt. #)	Sex (M/F)	Occupation		
John Doe (42)	112 South St. Lot # 12	M	geologist		
		1200	F		
	approach to	7			
	4 1				
	NO. Ann.	100			
Part II Building Ch Building type: residen other	naracteristics tial / multi-family residential /	office / strip m	all / commercial / industrial /		
Describe building: NESIDENTIAL Year constructed:					
Sensitive population: day care / nursing home / hospital / school / other (specify):					
Number of floors at or	above grade:				
Number of floors below	w grade:(full baser	nent) crawl spa	ce / slab on grade)		
Depth of basement bel	ow grade surface: ft.	Basement size	:: ft²		
Basement floor construction: concrete dirt / slab / stone / other (specify):					
Foundation walls: po	oured concrete cinder blocks	stone / other (	specify):		
IDEM Draft Vapor In	trusion Pilot Program Guida	ance – April 26	3, 2006 Page IV - 1		

Basement sump present? (Yes)/No Sump pump? (Yes)/No Water in sump? Yes (No
Significant cracks present in basement floor? Yes/No
Significant cracks present in basement walls? Yes/No
Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes /No
Is there a whole house fan?  Yes No
Septic system? Yes / Yes (but not used) INO
Irrigation/private well? Yes (but not used) / No
Type of ground cover outside of building: grass/ concrete / asphalt / other (specify)
Sub-slab vapor/moisture barrier in place? Yes / No / Don't know Type of barrier:
Type of heating system (circle all that apply)  hot air circulation hot air radiation heat pump hot water radiation other (specify):  Type of heating system (circle all that apply):  wood steam radiation electric baseboard
Type or ventilation system (circle all that apply):  central air conditioning mechanical fans bathroom ventilation fans individual air conditioning units kitchen range hood fan outside air intake other (specify):
Type of fuel utilized (circle all that apply):  Natural gas y electric fuel oil (wood coal / solar / kerosene / other (specify):
Part III - Outside Contaminant Sources
Contaminated site within 50-ft (BTEX) or 100-ft (Chlorinated)?
If yes: Site Name: Site Number:
Other stationary sources nearby (gas stations, emission stacks, etc.):
Heavy vehicular traffic nearby (or other mobile sources):

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room), and whether the item was removed from the building 48 hours prior to the indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the start of the indoor air sampling event.

Potential Sources	Location (s)	Removed (Yes / No / NA)
Gasoline storage cans		
Gas-powered equipment (mowers, etc)	A	
Kerosene storage cans	47 7	SA.
Paints / thinners / strippers	W /	Alle.
Cleaning solvents		100
Oven cleaners	All Control	GDV.
Carpet / upholstery cleaners	and the same	All Pr
Other house cleaning products		7
Moth balls	100	
Polishes / waxes	N UP	
Insecticides	Vib. Vib.	
Furniture / floor remover	(Latinian Algoria	
Nail polish / polish remover	1	
Hairspray	- B	
Cologne / perfume	100	
Air fresheners		
Fuel tank (inside building)		NA
Wood stove or fireplace	10	NA
New Furniture / upholstery	C STREET	
New carpeting / flooring		NA
Hobbies – glues, paints, lacquers, photographic darkroom chemicals, etc		
Scented trees, wreaths, potpourri, etc.		
Other (specify):		

Do any occupants of the building smoke?	Yes /No	How often?	
Last time someone smoked in the b	uilding?	hours /	days ago
Does the building have an attached garage	directly con	nected to living space?	(Yes) No
If so, is a car usually parked in the g	garage?	Yes INO	
Are gas-powered equipment or cans	s of gasoline	/fuels stored in the garage	? Yes No

Do the occupants of the building have their clothes dry cleaned? Yes No
If yes, how often? Weekly / monthly / 3-4 times a year
When was the last dry cleaned garment brought home?
Do any of the occupants use solvents in work? $Yes / No$
If yes, what types of solvents are used?
If yes, are their clothes washed at work?  Yes / No
Have any pesticides/herbicides been applied around the building or in the yard? Yes No
If so, when and which chemicals?
Has there ever been a fire in the building? Yes/No If yes, when?
Has painting or staining been done in the building in the last 6 months?  Yes (No)
If yes, when? and where?
Part VI – Sampling Information
Company/Consultant: Phone number: ( )
Company/Consultant: Phone number: ( )
Company/Consultant: Phone number: ( )
Company/Consultant: Phone number: ( )  Sample Source: Indoor Air / Sub-Slab / Near Slab oil Gas / Exterior Soil Gas  Sampler Type: 400 mL - 1.0 Summa Canister / 6 L Summa Canister / Other (specify):
Company/Consultant: Phone number: ( )
Company/Consultant:Phone number: ( )  Sample Source: Indoor Air / Sub-Slab / Near Slab oil Gas / Exterior Soil Gas  Sampler Type: 400 mL - 1.0 Summa Canister / 6 L Summa Canister / Other (specify):  Analytical Method: TO-14A / TO-15 TO-15 SIM / other:
Company/Consultant: Phone number: ( )  Sample Source: Indoor Air / Sub-Slab / Near Slab oil Gas / Exterior Soil Gas  Sampler Type: 400 mL - 1.0 Summa Canister / 6 L Summa Canister / Other (specify):  Analytical Method: TO-14A / TO-15 SIM / other:  Cample locations (floor, room)
Company/Consultant: Phone number: ( )  Sample Source: Indoor Air / Sub-Slab / Near Slab oil Gas / Exterior Soil Gas  Sampler Type: 400 mL - 1.01 Summa Canister / 6 L Summa Canister / Other (specify):  Analytical Method: TO-14A / TO-15 TO-15 SIM / other:  Sample locations (floor, room)  Field/Sample ID# Field/Sample ID #
Company/Consultant:  Phone number: ( )  Sample Source: Indoor Air / Sub-Slab / Near Slab oil Gas / Exterior Soil Gas  Sampler Type: 400 mL - 1.01 Summa Cabister / 6 L Summa Canister / Other (specify):  Analytical Method: TO-14A / TO-15 TO-15 SIM / other:  Laboratory:  Sample locations (floor, room)  Field/Sample ID# Field/Sample ID #

			A .		
art VII – Metrological Con	ditions	V	30		
as there significant precipita		2 hours prior to	o (or during) the	sampling eve	nt?
es/No		No.	(** ***********************************	tumpung tro	
escribe the general weather	conditions:	- Control			
A N					
art VIII – General Observati	ons				
rovide any information that i	nav be pertine	ent to the samn	ling event and r	nav acciet in tl	ne d:
terpretation process.	nay oo porume	an to the sump	mig ovem and i	nuy assist in ti	10 02

- Do not open windows, fireplace opening or vents
- Do not keep doors open.
- Do not operate ventilation fans.
- Do not use air fresheners or odor eliminators.
- Do not smoke in the house to the extent practical.
- Do not use wood stoves, fireplace or auxiliary heating equipment (e.g., kerosene heater)
- Do not use paints or varnishes.
- Do not use cleaning products (e.g., bathroom cleaners, furniture polish, appliance cleaners, and floor cleaners).
- Do not use cosmetics, including hair spray, nail polish, nail polish remover, perfume, etc.
- Do not partake in indoor hobbies that use solvents.
- Do not apply pesticides.
- Do not store containers of gasoline, oil or petroleum-based or other solvents within the house or attached garage (except for fuel oil tanks).
- Do not operate or store automobiles in an attached garage.



Preparer's Name: Betty L. Paryn	Date: <u>5/19</u>	3/10
Preparer's Affiliation: Honecounes	Phone #: 7	5-342-8350
Site Name:	Site #	
Site Address (include city and zip):/304 (16	re Kr.	martinsville en 4
Part I – Occupants		
List of Current Occupants/Occupation (include child	iren)	
Name (Age)   Address:   (Lot # or apt. #)   John Doe (42)   112 South St. Lot # 12	Sex (M/F)	Occupation
John Doe (42) 112 South St. Lot # 12	M	geologist
Betty & Payneby 1304 Clare Dr mart.	F	Retired
Part II - Building Characteristics		
Building type: residential / multi-family residential / other	office / strip	mall / commercial / industrial /
Describe building:	Year	constructed:
Sensitive population: day care / nursing home / hos		
Number of floors at or above grade:/		
Number of floors below grade: (full basen	ent / crawl s	pace / slab on grade)
Depth of basement below grade surface:ft.		
Basement floor construction: concrete / dirt / slab /	stone / other (	specify):
Foundation walls: poured concrete / cinder blocks /	stone / other	(specify):
IDEM Draft Vapor Intrusion Pilot Program Guida	nce - April 1	26 2006 Page IV 1

Basement sump present? Yes / No Sump pump? Yes / No Water in sump? Yes / No
Significant cracks present in basement floor? Yes / No.
Significant cracks present in basement walls?  Yes / No
Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes / No
Is there a whole house fan?  Yes / No.
Septic system? Yes / Yes (but not used) / No
Irrigation/private well? Yes / Yes (but not used) / No
Type of ground cover outside of building: grass / concrete / asphalt / other (specify)
Sub-slab vapor/moisture barrier in place? Yes / No / Don't know  Type of barrier:
Type of heating system (circle all that apply):  hot air circulation hot air radiation wood steam radiation heat pump hot water radiation kerosene heater other (specify):
Type or ventilation system (circle all that apply):  central air conditioning mechanical fans bathroom ventilation fans individual air conditioning units other (specify):  Type of fuel utilized (circle all that apply):  Natural gas electric / fuel oil / wood / coal / solar / kerosene / other (specify):
Part III - Outside Contaminant Sources
Contaminated site within 50-ft (BTEX) or 100-ft (Chlorinated)?
If yes: Site Name: Site Number:
Other stationary sources nearby (gas stations, emission stacks, etc.):
Heavy vehicular traffic nearby (or other mobile sources):  yes (Ohio St)

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room), and whether the item was removed from the building 48 hours prior to the indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the start of the indoor air sampling event.

Potential Sources	Location (s)	Removed (Yes / No / NA)
Gasoline storage cans	Harrise	(TEST NOT INA)
Gas-powered equipment	0	190
(mowers, etc)	Darrage	ho
Kerosene storage cans	8	700
Paints / thinners / strippers	Danage Basement	. no
Cleaning solvents	House	no
Oven cleaners		1
Carpet / upholstery cleaners /	Basement	ho
Other house cleaning products	Kitchen	100
Moth balls	Lupas	no
Polishes / waxes	Marroga	no
Insecticides	8	100
Furniture / floor remover		
Nail polish / polish remover		
Hairspray	Bothroom	no
Cologne / perfume	Bathroom	100
Air fresheners	House	no
Fuel tank (inside building)		ŇA
Wood stove or fireplace		NA
New Furniture / upholstery		1771
New carpeting / flooring		NA
Hobbies - glues, paints,		1111
lacquers, photographic		
darkroom chemicals, etc		
Scented trees, wreaths,		
potpourri, etc.		
Other (specify):		

Do any occupants of the building smoke? Yes No How often?	
Last time someone smoked in the building? hours / days ago	
Does the building have an attached garage directly connected to living space? Yes / No	
If so, is a car usually parked in the garage? Yes/No	
Are gas-powered equipment or cans of gasoline/fuels stored in the garage? <u>Yes</u> / No	

Do the occupants of the building have their clot	hes dry cleaned? Yes / No
If yes, how often? Weekly / mo	onthly / 3-4 times a year
When was the last dry cleaned garment	brought home?
Do any of the occupants use solvents in work?	Yes / No.
If yes, what types of solvents are used?	
If yes, are their clothes washed at work?	Yes / No
Have any pesticides/herbicides been applied aro	und the building or in the yard? Yes / No
If so, when and which chemicals?	
Has there ever been a fire in the building?	Yes / No If yes, when?
Has painting or staining been done in the buildir	ng in the last 6 months? Yes /No
If yes, when? and	where?
Part VI – Sampling Information	
Company/Consultant:	Phone number: ( )
Company/Consultant: Sample Source: Indoor Air / Sub-Slab / Near Sl	
	lab Soil Gas / Exterior Soil Gas
Sample Source: Indoor Air / Sub-Slab / Near Sl Sampler Type: 400 mL - 1.0 L Summa Caniste	lab Soil Gas / Exterior Soil Gas
Sample Source: Indoor Air / Sub-Slab / Near Si Sampler Type: 400 mL - 1.0 L Summa Caniste (specify):	lab Soil Gas / Exterior Soil Gas
Sample Source: Indoor Air / Sub-Slab / Near Si Sampler Type: 400 mL - 1.0 L Summa Caniste (specify):	lab Soil Gas / Exterior Soil Gas
Sample Source: Indoor Air / Sub-Slab / Near Si Sampler Type: 400 mL - 1.0 L Summa Caniste (specify):	lab Soil Gas / Exterior Soil Gas  or / 6 L Summa Canister / Other  IM / other:
Sample Source: Indoor Air / Sub-Slab / Near Si Sampler Type: 400 mL - 1.0 L Summa Caniste (specify):	lab Soil Gas / Exterior Soil Gas  r / 6 L Summa Canister / Other  IM / other:  Field/Sample ID #
Sample Source: Indoor Air / Sub-Slab / Near Slab / Nea	lab Soil Gas / Exterior Soil Gas  or / 6 L Summa Canister / Other  IM / other:  Field/Sample ID #  Field/Sample ID #
Sample Source: Indoor Air / Sub-Slab / Near Si Sampler Type: 400 mL - 1.0 L Summa Caniste (specify):  Analytical Method: TO-14A / TO-15 / TO-15 Si Laboratory:  Sample locations (floor, room):  Field/Sample ID#  Field/Sample ID#	lab Soil Gas / Exterior Soil Gas  or / 6 L Summa Canister / Other  IM / other:  Field/Sample ID #  Field/Sample ID #  Field/Sample ID #
Sample Source: Indoor Air / Sub-Slab / Near Si Sampler Type: 400 mL - 1.0 L Summa Caniste (specify):  Analytical Method: TO-14A / TO-15 / TO-15 Si Laboratory:  Sample locations (floor, room):  Field/Sample ID#  Field/Sample ID#  Field/Sample ID#	lab Soil Gas / Exterior Soil Gas  or / 6 L Summa Canister / Other  IM / other:  Field/Sample ID #  Field/Sample ID #  Field/Sample ID #

Provid	de Drawing of Sample Location (s) in Building
	•
Part VII - Metrological Cond	ditions
Was there significant precipitat Yes / No	tion within 12 hours prior to (or during) the sampling event?
Describe the general weather co	onditions: Lain
Part VIII - General Observation	ns
Provide any information that m interpretation process.	ay be pertinent to the sampling event and may assist in the data

- Do not open windows, fireplace opening or vents
- Do not keep doors open.
- Do not operate ventilation fans.
- Do not use air fresheners or odor eliminators.
- Do not smoke in the house to the extent practical.
- Do not use wood stoves, fireplace or auxiliary heating equipment (e.g., kerosene heater)
- Do not use paints or varnishes.
- Do not use cleaning products (e.g., bathroom cleaners, furniture polish, appliance cleaners, and floor cleaners).
- Do not use cosmetics, including hair spray, nail polish, nail polish remover, perfume, etc.
- Do not partake in indoor hobbies that use solvents.
- Do not apply pesticides.
- Do not store containers of gasoline, oil or petroleum-based or other solvents within the house or attached garage (except for fuel oil tanks).
- Do not operate or store automobiles in an attached garage.

1:22 04



Preparer's Name:		Date:	
Preparer's Affiliation:		Phone #:	A
Site Name:		Site #	
Site Address (include	city and zip): 1334 Char	e Drive L	lastinsville IN 46151
Part I – Occupants	/	Alle	1
-		The state of	
	ants/Occupation (include chil	T	Occupation
Name (Age)	Address: (Lot # or apt. #)	Sex (M/F)	Occupation
John Doe (42)	112 South St. Lot # 12	ıM	geologist
Stephen Brock		m.	Markiter/larandic
Stukanie Brock		ji.	RN
LUCAS Brock	1/	M	Student
KAVA BLOCK	N. I	P	71 //
		1	
other  Describe building:  Sensitive population:	day care / nursing home / ho	Year	a.l.
Building type: resident other  Describe building:  Sensitive population:  Number of floors at or	day care / nursing home / hor	Year	constructed: 2/952 / other (specify)://A
Building type resident other  Describe building:  Sensitive population:  Number of floors at or	day care / nursing home / hor	Year spital / school ment / crawl	constructed: 2/952  / other (specify): NA  space slab on grade) former  convert

# \* Vapor intrusion fants & Plastic Sheeting in crawl space placed in 2009 by Karmedia (Nothing Placed under Slack)

Basement sump present? Yes / No Sump	pump? Yes / No Water in sump? Yes No				
Significant cracks present in basement floo	r? Yes/No NA				
Significant cracks present in basement wall	s? Yes/No N				
Are the basement walls or floor sealed with	waterproof paint or epoxy coatings?				
Is there a whole house fan? Yes	1160				
Septic system? Yes	/ Yes (but not used) (No				
lrrigation/private well? Yes	/ Yes (but not used) (No)				
Type of ground cover outside of building:	grass concrete / asphalt / other (specify)				
Sub-slab vapor/moisture barrier in place?  Type of barrier:	Yes / No (Don't know)				
Type of heating system (circle all that apply hot air circulation hot air radiation heat pump hot water rad other (specify): Via gas furnar	on wood steam radiation iation keroscne heater electric baseboard				
Type or ventilation system (circle all that a central air conditioning individual air conditioning other (specify):	mechanical fans bathroom ventilation fans kitchen range hood fan outside air intake				
	d / coal / solar / kerosene / other (specify):				
Part III - Ounide Contaminant Sources	Former Harmon Becker Property				
Contaminated site within 50-ft (BTEX) or	00-ft (Chlorinated)?				
If yes: Site Name:	Site Number:				
Other stationary sources nearby (gas stations, emission stacks, etc.):					
Heavy vehicular traffic nearby (or other mo	obile sources): 405 - Ohio Street				

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room), and whether the item was removed from the building 48 hours prior to the indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the start of the indoor air sampling event.

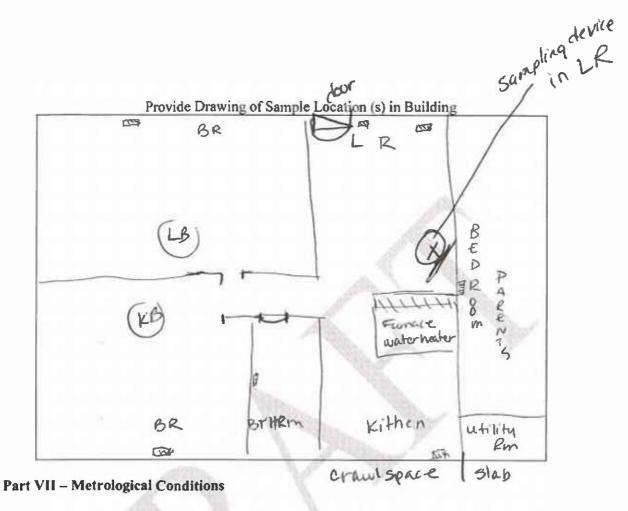
Potential Sources	Location (s) All 1900	Removed (Yes / No / NA)
Gasoline storage cans	A COLL	NA
Gas-powered equipment (mowers, etc)	16	NA
Kerosene storage cans	47 104	NA
Paints / thinners / strippers	Utility Roan	No
Cleaning solvents	Kitchen Clutility Com	No
Oven cleaners	Kitchen cabinet	No
Carpet / upholstery cleaners	Ketchen capatet	NU
Other house cleaning products	Kitchen abinet/ bathroom	NO
Moth balls		NA
Polishes / waxes	Kitchen cabinet	NO
Insecticides	Kitchen cabinet	No
Furniture / floor remover	Kitchen cabinet	No
Nail polish / polish remover	Hall closet   Sm bedroom KB	No
Hairspray	Bathroom   Sm bedroom to	No
Cologne / perfume	Bathroom \ Ste bedrooms x2	NO
Air fresheners	Living Koom Not pulkain plugged in	NO
Fuel tank (inside building)	3.7.3)	NA
Wood stove or fireplace	W_ 1/2	NA
New Furniture / upholstery	none	
New carpeting / flooring		NA
Hobbies – glues, paints, lacquers, photographic darkroom chemicals, etc	Paints-(cloth) bearon(cs)	No
Scented trees, wreaths, potpourri, etc.	Candle Duner - Living Room	NO
Other (specify):		

	# 130011001100 UD 110110					
Do any oc	cupants of the building smoke?	Yes No	How	often?		
	st time someone smoked in the bu		J			
Does the b	uilding have an attached garage o	directly co	onnected to living sp	ace?	Yes /No)	nor to)
lfs	o, is a car usually parked in the g	garage?	Yes No	190	12	
	e gas-powered equipment or cans					

Do the occupants of the building have their clothes dry cleaned? Yes/No
If yes, how often? Weekly / monthly / 3-4 times a year
When was the last dry cleaned garment brought home? Summer 2009
Do any of the occupants use solvents in work?  Yes No
If yes, what types of solvents are used?
If yes, are their clothes washed at work? Yes / No /A
Have any pesticides/herbicides been applied around the building or in the yard? Yes No
If so, when and which chemicals? not in any recent years
Has there ever been a fire in the building?  Yes No If yes, when?
Has painting or staining been done in the building in the last 6 months?  (Yes)/No  (Y
If yes, when? and where?
Part VI – Sampling Information
Company/Consultant: Phone number: ( )
Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas
Sampler Type: 400 mL - 1.0 L Summa Canister / 6 L Summa Canister / Other (specify):
Analytical Method: TO-14A / TO-15 / TO-15 SIM / other:
Laboratory:
Sample locations (floor, room): Living Room 15+ Freer
Field/Sample ID# Field/Sample ID #
Field/Sample ID# Field/Sample ID #
Field/Sample ID# Field/Sample ID #
Were "Instructions for Occupants" followed? Yes / No
If not, describe modifications:

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Was there significant precipitation within 12 hours prior to (or during) the sampling event? Yes / No

Describe the genera	if weather cond	litions:	
Æ	TA	Alpha Maria	

#### Part VIII - General Observations

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process:

# This list was given to us on the day of placement of sampling device 3/12/2010

#### Recommended Instructions for Residents

The following is a suggested list for residents to follow (to the extent practical) in order to reduce interference in obtaining representative samples. IDEM suggests that these items be followed starting at least 48 hours prior to and during the sampling event.

- Do not open windows, fireplace opening or vents
- Do not keep doors open.
- Do not operate ventilation fans. (Kitchen range hood used does not ventilate outside)
- · Do not use air fresheners or odor eliminators. (electric candle burner in place but
- Do not smoke in the house to the extent practical.
- Do not use wood stoves, fireplace or auxiliary heating equipment (e.g., kerosene heater)
- Do not use paints or varnishes.
- Do not use cleaning products (e.g., bathroom cleaners, furniture polish, appliance cleaners, and floor cleaners). Buthroom was cleaned 24 hrs prove (Lineaway)
- Do not use cosmetics, including hair spray, nail polish, nail polish remover, perfume, etc.

  This was not fillewed as we can not vacate our none.
- Do not partake in indoor hobbies that use solvents.
- Do not apply pesticides.
- Do not store containers of gasoline, oil or petroleum-based or other solvents within the house or attached garage (except for fuel oil tanks).
- Do no operate or store automobiles in an attached garage.

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Preparer's Name:	Itere Unakenbuch	Date:	-11-10
Preparer's Affiliati	on:	Phone #:	A.
Site Name:		Site #	
Site Address (inclu	de city and zip): 1354 Cl	ore Street	Marcheville IN
Part I – Occupant	s		A. Jan
List of Current Occ	cupants/Occupation (include chi	ldren)	
Name (Age)	Address: (Lot # or apt. #)	Sex (M/F)	Occupation
John Doe (42)	112 South St. Lot # 12	M	geologist
		200 hours	/
	AMERICA V	7	
	1 0	<u></u>	
	7 % Y	1	
	William Allegan		
othe	dential multi-family residential		
Sensitive population	n: day care / nursing home / ho	spital / school /	other (specify):
	or above grade:		
	elow grade:(full base	700	
Depth of basement	below grade surface:?ft.	Basement siz	ze: ft²
Basement floor con	struction: concrete / dirty slab	stone / other (	specify):
Foundation walls:	poured concrete / cinder blocks	stone / other	(specify):
IDEM Draft Vapor	Intrusion Pilot Program Guid	lance – April 2	26, 2006 Page IV - 1

Basement sump present? Yes /No Sump pump? Yes /No Water in sump? Yes /No
Significant cracks present in basement floor? Dir Yes/No
Significant cracks present in basement walls?  Yes (No)
Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes No
Is there a whole house fan?  Yes No
Septic system? Yes / Yes (but not used) No
Irrigation/private well? Yes / Yes (but not used) No
Type of ground cover outside of building: grass concrete / asphalt / other (specify)
Sub-slab vapor/moisture barrier in place? Yes (No 1) Don't know  Type of barrier:
Type of heating-system (circle all that apply)  hot air circulation hot air radiation heat pump hot water radiation other (specify):  wood steam radiation kerosene heater electric baseboard
Type or ventilation system (circle all that apply):  central air conditioning mechanical fans bathroom ventilation fans individual air conditioning units kitchen range hood fan outside air intake other (specify):
Type of fuel utilized (circle all that apply):  Natural gas / electric / fuel oil / wood / coal / solar / kerosene / other (specify):
Part III - Outside Contaminant Sources
Contaminated site within 50-ft (BTEX) or 100-ft (Chlorinated)?
If yes: Site Name: Site Number:
Other stationary sources nearby (gas stations, emission stacks, etc.):
Heavy vehicular traffic nearby (or other mobile sources):

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room), and whether the item was removed from the building 48 hours prior to the indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the start of the indoor air sampling event.

Potential Sources	Location (s)	Removed (Yes / No / NA)
Gasoline storage cans	Shack	NO
Gas-powered equipment	Grage Tank and y	
(mowers, etc)	Lucige Tank and y	No
Kerosene storage cans		
Paints / thinners / strippers	Cuance	10
Cleaning solvents	6	No
Oven cleaners	None.	No
Carpet / upholstery cleaners	None	WO
Other house cleaning products	6-1059, AUST SPICE	No
Moth balls		NO
Polishes / waxes	<u> </u>	Λ
Insecticides	Shal	
Furniture / floor remover		
Nail polish / polish remover	para	
Hairspray	poul	
Cologne / perfume	Buthlood	
Air fresheners		
Fuel tank (inside building)		NA
Wood stove or fireplace		NA
New Furniture / upholstery	desired of	4
New carpeting flooring	TIO.	(NA)
Hobbies glues, paints,	70E/s.	
lacquers, photographic	No.	
darkroom chemicals, etc		
Scented trees caths,	0 110	
potpourri, etc.	Condid Living rain	Na
Other (specify):		

Do any occupants of the building smoke?	Yes (No)	How often?	
Last time someone smoked in the b	uilding?	hours /	days ago
Does the building have an attached garage	directly con	nected to living space?	(Yes) No
If so, is a car usually parked in the	garage?	Yes /No	
Are gas-powered equipment or can	s of gasoline	/fuels stored in the garage	? (Yes) No

Do the occupants of the building have their clo	othes dry cleaned? Yes No					
If yes, how often? Weekly / monthly / 3-4 times a year						
When was the last dry cleaned garment	brought home?					
Do any of the occupants use solvents in work?	Yes (No)					
If yes, what types of solvents are used?						
If yes, are their clothes washed at work	? Yes/No					
Have any pesticides/herbicides been applied ar	round the building or in the yard? Yes No					
If so, when and which chemicals?						
Has there ever been a fire in the building?	Yes INO If yes, when?					
Has painting or staining been done in the build	ing in the last 6 months? Yes No					
If yes, when? ar	nd where?					
Part VI – Sampling Information	Part VI – Sampling Information					
Company/Consultant:	Phone number: ( )					
Company/Consultant:  Sample Source: Indoor Air / Sub-Slab / Near						
2 %	Slab Soil Gas / Exterior Soil Gas					
Sample Source: Indoor Air / Sub-Slab / Near Sampler Type: 400 mL - 1.0 L Summa Canis	Slab Soil Gas / Exterior Soil Gas ter / 6 L Summa Canister / Other					
Sample Source: Indoor Air / Sub-Slab / Near Sampler Type: 400 mL - 1.0 L Summa Canis (specify):	Slab Soil Gas / Exterior Soil Gas ter / 6 L Summa Canister / Other					
Sample Source: Indoor Air / Sub-Slab / Near Sampler Type: 400 mL - 1.0 L Summa Canis (specify):  Analytical Method: TO-14A / TO-15 / 40-15	Slab Soil Gas / Exterior Soil Gas ter / 6 L Summa Canister / Other					
Sample Source: Indoor Air / Sub-Slab / Near Sampler Type: 400 mL - 1.0 L Summa Canis (specify): Analytical Method: TO-14A / TO-15 / O-15 Laboratory:	Slab Soil Gas / Exterior Soil Gas  ter / 6 L Summa Canister / Other  SIM / other:					
Sample Source: Indoor Air / Sub-Slab / Near Sampler Type: 400 mL - 1.0 L Summa Canis (specify):  Analytical Method: TO-14A / TO-15 / 40-15 Laboratory:  Sample locations (floor, room):	Slab Soil Gas / Exterior Soil Gas  ter / 6 L Summa Canister / Other  SIM / other:  Field/Sample ID #					
Sample Source: Indoor Air / Sub-Slab / Near Sampler Type: 400 mL - 1.0 L Surmita Canis (specify): Analytical Method: TO-14A / TO-15 / O-15 Laboratory: Sample locations (floor, room): Field/Sample ID#	Slab Soil Gas / Exterior Soil Gas  ter / 6 L Summa Canister / Other  SIM / other:  Field/Sample ID #					
Sample Source: Indoor Air / Sub-Slab / Near Sampler Type: 400 mL - 1.0 L Summa Canis (specify):  Analytical Method: TO-14A / TO-15 / O-15 Laboratory:  Sample locations (floor, room):  Field/Sample ID#  Field/Sample ID#	Slab Soil Gas / Exterior Soil Gas  ter / 6 L Summa Canister / Other  SIM / other:  Field/Sample ID #  Field/Sample ID #					

			tion (s) in Building	
				Van.
				7
art VII – Metrol	ogical Conditions	No.	y	
as there significa	unit presipitation with	nin 12 hours prior t	o (or during) the sar	npling event?
es/No	The second			
	al weather condition	s: Clode -	C00 1	
escribe the genera		7		
escribe the gener	100			
escribe the general	Observations			
nrt VIII – General	anon that may be pe	ertinent to the samp	oling event and may	assist in the da

- Do not open windows, fireplace opening or vents
- Do not keep doors open.
- Do not operate ventilation fans.
- Do not use air fresheners or odor eliminators.
- Do not smoke in the house to the extent practical.
- Do not use wood stoves, fireplace or auxiliary heating equipment (e.g., kerosene heater)
- Do not use paints or varnishes.
- Do not use cleaning products (e.g., bathroom cleaners, furniture polish, appliance cleaners, and floor cleaners).
- Do not use cosmetics, including hair spray, nail polish, nail polish remover, perfume, etc.
- Do not partake in indoor hobbies that use solvents.
- Do not apply pesticides.
- not store containers of gasoline, oil or petroleum-based or other solvents within the house or attached garage (except for fuel oil tanks).
- Do not operate or store automobiles in an attached garage.



Preparer's Name:	andyDunn	Date: 3	22-10	
Preparer's Affiliation:		Phone #:		
Site Name:		Site#		
Site Address (include o	city and zip): 1355 C/o	re Driv	re Martinsville, IN	
Part I – Occupants		(	46151	
List of Current Occupa	ints/Occupation (include child	ren)		
Name (Age)	Address:	Sex	Occupation	
	(Lot # or apt. #)	(M/F)		
John Doe (42)	112 South St. Lot # 12	M	geologist	
	46 1355 clore or.	in	Construction	
Sandy Dung 4	5	4 10 10 10 10 10 10 10 10 10 10 10 10 10	COOK	
JON DUNN 20		m	construction	
Amanda Dunn	16	1=	COOK-Student	
Rachel Dunn 14		15	Student	
other	ial / multi-family residential /			
Sensitive population:	day care / nursing home / hosp			
Number of floors at or	above grade:			
Number of floors below	v grade: (full basem	ent / crawl spa	nce / slab on grade)	
Depth of basement belo	ow grade surface: ft.	Basement size	:: ft²	
Basement floor constru	ction: concrete / dirt / slab / s	stone / other (sp	pecify):	
Foundation walls: po	ured concrete / cinder blocks /	stone / other (	specify):	

Basement sump present? Yes No Sump pump? Yes No Water in sump? Yes / No
Significant cracks present in basement floor?  Yes No
Significant cracks present in basement walls?  Yes (No)
Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes / No
Is there a whole house fan?  Yes No
Septic system? (but not used) / No
Irrigation/private well?  Yes / Yes (but not used) No
Type of ground cover outside of building: grass / concrete / asphalt / other (specify)
Sub-slab vapor/moisture barrier in place? Yes / No / Don't know  Type of barrier:
Type of heating system (circle all that apply)  hot air circulation hot air radiation wood steam radiation heat pump hot water radiation where (specify):
Type or ventilation system (circle all that apply):  central air conditioning mechanical fans bathroom ventilation fans individual air conditioning units kitchen range hood fan outside air intake other (specify):
Type of fuel utilized (circle all that apply):  Natural gas electric / fuel oil wood / coal / solar / kerosene / other (specify):
Part III - Outside Contaminant Sources
Contaminated site within 50-ft (BTEX) or 100-ft (Chlorinated)?
If yes: Site Name: Site Number:
Other stationary sources nearby (gas stations, emission stacks, etc.):
Heavy vehicular traffic nearby (or other mobile sources):

### Part IV - Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room), and whether the item was removed from the building 48 hours prior to the indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the start of the indoor air sampling event.

Potential Sources	Location (s)	Removed (Yes / No / NA)
Gasoline storage cans	1,530	
Gas-powered equipment (mowers, etc)	819760m -	
Kerosene storage cans	_	
Paints / thinners / strippers	_ A \ \ \	Dis.
Cleaning solvents		910
Oven cleaners	undersink	NO
Carpet / upholstery cleaners		7000
Other house cleaning products	undersink	NO
Moth balls		
Polishes / waxes		
Insecticides		
Furniture / floor remover	- Valley Valley	
Nail polish / polish remover		
Hairspray	Bedroom	
Cologne / perfume	Becker	yes
Air fresheners	living Room	4-85
Fuel tank (inside building)		NA
Wood stove or fireplace	AL W	NA
New Furniture / upholstery		
New carpeting / flooring	(b)	NA
Hobbies = glues, paints, lacquers, photographic darkroom chemicals, etc		
Scented trees, wreaths, potpourri, etc.		
Other (specify):		

### Part V - Miscellaneous Items

Do any occupants of the building smoke?	(es) No	How often?	
Last time someone smoked in the be	uilding?	hours / d	lays ago
Does the building have an attached garage	directly con	nected to living space?	(Yes) No
If so, is a car usually parked in the g	garage?	Yes (No)	
Are gas-powered equipment or cans	of gasoline	/fuels stored in the garage?	Yes /No

Do the occupants of the building have their clothes dry cleaned? Yes No
If yes, how often? Weekly / monthly / 3-4 times a year
When was the last dry cleaned garment brought home?
Do any of the occupants use solvents in work?  Yes No
If yes, what types of solvents are used?
If yes, are their clothes washed at work?  Yes / No
Have any pesticides/herbicides been applied around the building or in the yard? Yes No
If so, when and which chemicals?
Has there ever been a fire in the building? Yes No If yes, when?
Has painting or staining been done in the <b>building</b> in the last 6 months?  Yes No
If yes, when? and where?
Part VI – Sampling Information
Company/Consultant: Phone number: ( )
Company/Consultant: Phone number: ( )
Company/Consultant: Phone number: ( )  Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas  Sampler Type: 400 mL - 1.0 L Sum in Canister / 6 L Summa Canister / Other
Company/Consultant: Phone number: ( )  Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas  Sampler Type: 400 mL - 1.0 L Sum a Canister / 6 L Summa Canister / Other (specify):
Company/Consultant: Phone number: ( )
Company/Consultant: Phone number: ( )  Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas  Sampler Type: 400 mL - 1.0 L Sum a anister / 6 L Summa Canister / Other (specify):  Analytical Method: TO-14A / TO-15 / TO-15 SIM / other:  Laboratory:
Company/Consultant: Phone number: ( )  Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas  Sampler Type: 400 mL - 1.0 L Sum a anister / 6 L Summa Canister / Other (specify):  Analytical Method: TO-14A / TO-15 / TO-15 SIM / other:  Laboratory:  Sample locations (floor, room):
Company/Consultant: Phone number: ( )  Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas  Sampler Type: 400 mL - 1.0 L Sum a anister / 6 L Summa Canister / Other (specify):  Analytical Method: TO-14A / TO-15 / TO-15 SIM / other:  Laboratory:  Sample locations (floor, room):  Field/Sample ID# Field/Sample ID #
Company/Consultant: Phone number: ( )  Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas  Sampler Type: 400 mL - 1.0 J. Sum in Canister / 6 L Summa Canister / Other (specify):  Analytical Method: TO-14A / TO-15 / TO-15 SIM / other:  Laboratory:  Sample locations (floor, room): Field/Sample ID# Field/Sample ID#  Field/Sample ID# Field/Sample ID #

art VII - Metrological Conditions  /as there significant precipitation within 12 hours prior to (or during) the sampling event? /es / No escribe the general weather conditions:  art VIII - General Observations revide any information that may be pertinent to the sampling event and may assist in the daterpretation process.		Provide Drawing		27, 2	
/as there significant precipitation within 12 hours prior to (or during) the sampling event? /es / No escribe the general weather conditions:  art VIII - General Observations rovide any information that may be pertinent to the sampling event and may assist in the date.					
as there significant precipitation within 12 hours prior to (or during) the sampling event?  escribe the general weather conditions:  art VIII - General Observations  ovide any information that may be pertinent to the sampling event and may assist in the date.					
as there significant precipitation within 12 hours prior to (or during) the sampling event?  escribe the general weather conditions:  art VIII - General Observations  ovide any information that may be pertinent to the sampling event and may assist in the date.					
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as there significant precipitation within 12 hours prior to (or during) the sampling event?  escribe the general weather conditions:  art VIII - General Observations  ovide any information that may be pertinent to the sampling event and may assist in the date.					<b>b.</b>
as there significant precipitation within 12 hours prior to (or during) the sampling event?  escribe the general weather conditions:  art VIII – General Observations  ovide any information that may be pertinent to the sampling event and may assist in the date.					AP.
as there significant precipitation within 12 hours prior to (or during) the sampling event?  escribe the general weather conditions:  art VIII - General Observations  ovide any information that may be pertinent to the sampling event and may assist in the date.					7
as there significant precipitation within 12 hours prior to (or during) the sampling event?  escribe the general weather conditions:  art VIII - General Observations  ovide any information that may be pertinent to the sampling event and may assist in the date.					
as there significant precipitation within 12 hours prior to (or during) the sampling event?  escribe the general weather conditions:  art VIII - General Observations  ovide any information that may be pertinent to the sampling event and may assist in the date.					
as there significant precipitation within 12 hours prior to (or during) the sampling event?  escribe the general weather conditions:  art VIII - General Observations  ovide any information that may be pertinent to the sampling event and may assist in the data			1 30	lan.	
es / No escribe the general weather conditions:  art VIII - General Observations  ovide any information that may be pertinent to the sampling event and may assist in the day	art VII – Metrolo <b>gi</b>	cal Conditions			
art VIII – General Observations  rovide any information that may be pertinent to the sampling event and may assist in the date	las thans significant	precipitation within	12 hours prior to (	(or during) the san	npling event?
ovide any information that may be pertinent to the sampling event and may assist in the date					
ovide any information that may be pertinent to the sampling event and may assist in the date	es/No	eather conditions:			
rovide any information that may be pertinent to the sampling event and may assist in the date terpretation process.	'es / No	eather conditions:	/		
terpretation process	escribe the general w	1	/		
	es / No escribe the general wart VIII – General Ol	oservations	nant to the compli	nu ovent and man-	analos in sha 3-

#### Recommended Instructions for Residents

The following is a suggested list for residents to follow (to the extent practical) in order to reduce interference in obtaining representative samples. IDEM suggests that these items be followed starting at least 48 hours prior to and during the sampling event.

- Do not open windows, fireplace opening or vents
- Do not keep doors open.
- Do not operate ventilation fans.
- Do not use air fresheners or odor eliminators.
- Do not smoke in the house to the extent practical.
- Do not use wood stoves, fireplace or auxiliary heating equipment (e.g., kerosene heater)
- Do not use paints or varnishes.
- Do not use cleaning products (e.g., bathroom cleaners, furniture polish, appliance cleaners, and floor cleaners).
- Do not use cosmetics, including hair spray, nail polish, nail polish remover, perfume, etc.
- Do not partake in a door hobbies that use solvents.
- Do not apply pesticides.
- Do not store containers of gasoline, oil or petroleum-based or other solvents within the house or attached garage (except for fuel oil tanks).
- Do not operate or store automobiles in an attached garage.



# INDOOR AIR BUILDING SURVEY CHECKLIST

Preparer's Name:	Nachme Ferguson	Date: 3 - 15	7-10	
Preparer's Affiliation:		Phone #: 765 - 318 - 3044		
Site Name:		Site #		
Site Address (include city and zip): 1385 Close G- Martins Villa In 4618				
Part I – Occupants				
List of Current Occupa	ants/Occupation (include child	Iren)		
Name (Age)	Address:	Sex	Occupation	
	(Lot # or apt. #)	(M/F)		
John Doe (42)	112 South St. Lot # 12	M	geologist	
none				
		-		
		+		
			1	
Part II - Building Ch	aracteristics			
Building type: resident	tial / multi-family residential /	office / strip m	all / commercial / industrial /	
Describe building:	rick Pard	Year co	enstructed: /7/94	
Sensitive population:	day care / nursing home / hos	pital / school /	other (specify):	
Number of floors at or	above grade:			
Number of floors below	w grade: (full baser	nent / crawl spa	ice slab on grade)	
Depth of basement bel	ow grade surface: ft.	Basement size	e: ft²	
Basement floor constru	uction: concrete / dirt / slab /	stone / other (s	pecify):	
Foundation walls: po	oured concrete cinder blocks	stone / other (	specify):	
IDEM Draft Vapor In	trusion Pilot Program Guida	ance – April 26	6, 2006 Page IV - 1	

Basement sump present? Yes /No Sump pump? Yes /No Water in sump? Yes /No
Significant cracks present in basement floor? Yes / No
Significant cracks present in basement walls? Yes / No
Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes / No
ls there a whole house fan?  Yes No
Septic system? Yes / Yes (but not used) (No
lrrigation/private well? Yes / Yes (but not used) No
Type of ground cover outside of building grass / concrete / asphalt / other (specify)
Sub-slab vapor/moisture barrier in place? Yes / No / Don't know  Type of barrier:
Type of heating system (circle all that apply):  hot air circulation hot air radiation wood steam radiation heat pump hot water radiation kerosene heater electric baseboard other (specify):
Type or ventilation system (circle all that apply):  central air conditioning mechanical fans bathroom ventilation fans individual air conditioning units kitchen range hood fan outside air intake other (specify):
Type of fuel utilized (circle all that apply):  Natural gas / electric / fuel oil / wood / coal / solar / kerosene / other (specify):
Part III - Outside Contaminant Sources
Contaminated site within 50-ft (BTEX) or 100-ft (Chlorinated)?
If yes: Site Name: Site Number:
Other stationary sources nearby (gas stations, emission stacks, etc.):
Heavy vehicular traffic nearby (or other mobile sources):

#### Part IV - Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room), and whether the item was removed from the building 48 hours prior to the indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the start of the indoor air sampling event.

Potential Sources	Location (s)	Removed (Yes / No / NA)
Gasoline storage cans		No
Gas-powered equipment (mowers, etc)		NE
Kerosene storage cans	-	100
Paints / thinners / strippers		16.0
Cleaning solvents		T No
Oven cleaners		NU
Carpet / upholstery cleaners		No
Other house cleaning products		NU
Moth balls		No
Polishes / waxes		11/2
Insecticides		22
Furniture / floor remover	0.0	NE
Nail polish / polish remover		No
Hairspray		No
Cologne / perfume		10-
Air fresheners		120
Fuel tank (inside building)		NA
Wood stove or fireplace		NA
New Furniture / upholstery	fillia	
New carpeting / flooring		NA
Hobbies – glues, paints, lacquers, photographic darkroom chemicals, etc		N-
Scented trees, wreaths, potpourri, etc.		120
Other (specify):		None Many

Part V - Miscellaneous Items

Do any occupants of the building smoke? Yes No	How often?
Last time someone smoked in the building?	hours / days ago
Does the building have an attached garage directly connected to liv	ving space? Yes /No
If so, is a car usually parked in the garage? Yes No	>
Are gas-powered equipment or cans of gasoline/fuels store	d in the garage? Yes No

Do the occupants of the building have their cloth	es dry cleaned? Yes No				
If yes, how often? Weekly / mon	If yes, how often? Weekly / monthly / 3-4 times a year				
When was the last dry cleaned garment be	rought home?				
Do any of the occupants use solvents in work?	Yes /No				
If yes, what types of solvents are used? _					
If yes, are their clothes washed at work?	Yes (No)				
Have any pesticides/herbicides been applied arou	and the building or in the yard? Yes No				
If so, when and which chemicals?	MS HSO Termitor				
Has there ever been a fire in the building?	Yes (No If yes, when?				
Has painting or staining been done in the building	g in the last 6 months? Yes /No				
If yes, when? and	where?				
Part VI – Sampling Information					
Company/Consultant:	Phone number: ( )				
Company/Consultant:	ab Soil Gas / Exterior Soil Gas				
Company/Consultant:  Sample Source: Indoor Air / Sub-Slab / Near Slab Sampler Type: 400 mL - 1.0 L Summa Canister	ab Soil Gas / Exterior Soil Gas  / 6 L Summa Canister / Other				
Company/Consultant:  Sample Source: Indoor Air / Sub-Slab / Near Slab  Sampler Type: 400 mL - 1.0 L Summa Canister (specify):	ab Soil Gas / Exterior Soil Gas  / 6 L Summa Canister / Other				
Company/Consultant:  Sample Source: Indoor Air / Sub-Slab / Near Slab Sampler Type: 400 mL - 1.0 L Summa Canister (specify):  Analytical Method: TO-14A / TO-15 / TO-15 Slab	ab Soil Gas / Exterior Soil Gas  / 6 L Summa Canister / Other				
Company/Consultant:  Sample Source: Indoor Air / Sub-Slab / Near Slab  Sampler Type: 400 mL - 1.0 L Summa Canister (specify):  Analytical Method: TO-14A / TO-15 / TO-15 Sl  Laboratory:  Sample locations (floor, room):	ab Soil Gas / Exterior Soil Gas  - / 6 L Summa Canister / Other   M / other:				
Company/Consultant:  Sample Source: Indoor Air / Sub-Slab / Near Slab Sampler Type: 400 mL - 1.0 L Summa Canister (specify):  Analytical Method: TO-14A / TO-15 / TO-15 Slaboratory:  Sample locations (floor, room):  Field/Sample ID#	ab Soil Gas / Exterior Soil Gas  - / 6 L Summa Canister / Other   M / other:				
Company/Consultant:  Sample Source: Indoor Air / Sub-Slab / Near Slab Sampler Type: 400 mL - 1.0 L Summa Canister (specify):  Analytical Method: TO-14A / TO-15 / TO-15 Slaboratory:	ab Soil Gas / Exterior Soil Gas  r / 6 L Summa Canister / Other  M / other:  Field/Sample ID #				
Company/Consultant:	ab Soil Gas / Exterior Soil Gas  7 / 6 L Summa Canister / Other  M / other:  Field/Sample ID #  Field/Sample ID #  Field/Sample ID #				

Provide Drawing of Sample Location (s) in Building
Part VII - Metrological Conditions
Was there significant precipitation within 12 hours prior to (or during) the sampling event? Yes / No
Describe the general weather conditions:
Part VIII - General Observations
Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.



# INDOOR AIR BUILDING SURVEY CHECKLIST

Preparer's Name: 1	nya Osborne	Date:	1 2010	
Preparer's Affiliation:		· · · · · · · · · · · · · · · · · · ·		
Site Name:		Site #		
Site Address (include o	city and zip): 1398 C	LOVE ]	Dr. Apt4	
Part I – Occupants	IO/WAL)	Lipolit	46151	
List of Current Occupa	ants/Occupation (include child	iren)		
Name (Age)	Address:	Sex	Occupation	
T. L. D. (42)	(Lot # or apt. #)	(M/F)		
John Doe (42)		M	geologist	
	1398 CLOVE DE APT4	F		
Arianna Fulforala	ATTIVITY OF THE PARTY OF THE PA	0.4		
Trevor Fultorel 3	111	101		
& MONTHS		-	_	
Criticality	TON Many	100		
Part II - Building Ch Building type: resident other		office / strip	mall / commercial / industrial	/
Describe building:		Year	constructed:	
Sensitive population:	day care / nursing home / hos	pital / school	/ other (specify):	_
Number of floors at or	above grade: 2			
Number of floors below	w grade: (full basen	nent crawl s	space / slab on grade)	
Depth of basement belo	ow grade surface: ft.	Basement s	ize: ft²	
Basement floor constru	action: concrete / dirt / slab /	stone / other	(specify):	
Foundation walls: po	ured concrete / cinder blocks	stone / othe	r (specify):	
IDEM Draft Vapor Int	rusion Pilot Program Guida	nce April	26 2006 Page IV 1	_

Basement sump present?	Yes / No	Sump pump?	Yes / No	Water in sump? Y	es / No
Significant cracks present in basement floor? Yes / No					
Significant cracks present	in baseme	ent walls?	Yes	/No	
Are the basement walls or	floor seal	ed with waterp	roof paint o	or epoxy coatings?	Yes / No
Is there a whole house fan	1?	Yes / No			
Septic system?		Yes / Yes (hi	ut not used	) / No	
Irrigation/private well?		Yes / Yes (h	ut not used	) / No	
Type of ground cover out:	side of bui	lding: grass/	concrete / a	asphalt / other (speci	fy)
Sub-slab vapor/moisture b Type of barrier: _	parrier in p	lace? Yes/Ne	o / Don't ki	пош	
Type of heating system (c hot air circulation) heat-pump other (specify):	hot air		wood kerosene		adiation baseboard
Type or ventilation system central air condition individual air condition other (specify):	ning litioning u	mecha			ilation fans air intake
Type of fuel <b>utilized</b> (circl Natural gas / electr			/ solar / ke	rosene / other (speci	fy):
Part III – Outside Conta	minant Se	ources			
Contaminated site within :	50 <b>-ft (B</b> TE	EX) or 100-ft (C	hlorinated	)?	
If yes: Site Name:			Site Num	ber:	
Other stationary sources n	earby (gas	stations, emiss	ion stacks,	etc.):	
Heavy vehicular traffic ne	arby (or or	ther mobile sout	rces):		

#### Part IV - Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room), and whether the item was removed from the building 48 hours prior to the indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the start of the indoor air sampling event.

Potential Sources	Location (s)	Removed (Yes / No / NA)
Gasoline storage cans		(100:110:111)
Gas-powered equipment (mowers, etc)	16	00
Kerosene storage cans	-07	G.
Paints / thinners / strippers	- A - A - A - A - A - A - A - A - A - A	NA.
Cleaning solvents		no
Oven cleaners	_0"	IN D
Carpet / upholstery cleaners	75h \	100
Other house cleaning products	75. 27	100
Moth balls	760-5	
Polishes / waxes		
Insecticides	TO	
Furniture / floor remover	V*100-	w.
Nail polish / polish remover	A SAME IF	
Hairspray	No. of Selling	
Cologne / perfume	7.0° B'	No
Air fresheners	7	NO
Fuel tank (inside building)		NA
Wood stove or fireplace	No.	NA
New Furniture / upholstery	Atlanta	NA
New carpeting / flooring		NA
Hobbies glues, paints, lacquers, photographic darkroom chemicals, etc		NA
Scented trees, wreaths, potpourri, etc.		NA
Other (specify):		

#### Part V - Miscellaneous tems

1 att v — Miscellaneous (eins	
Do any occupants of the building smoke? Yes / No	How often? 2 Deople 2 packs
Last time someone smoked in the building?	a.m. hours/days ago
Does the building have an attached garage directly connected to	o living space? Yes No
If so, is a car usually parked in the garage? Yes / N	Vo
Are gas-powered equipment or cans of gasoline/fuels st	tored in the garage? Yes / No

Do the occupants of the building have their clothes dry cleaned? Yes (No
If yes, how often? Weekly / monthly / 3-4 times a year
When was the last dry cleaned garment brought home?
Do any of the occupants use solvents in work?  Yes No
If yes, what types of solvents are used?
If yes, are their clothes washed at work? Yes / No
Have any pesticides/herbicides been applied around the building or in the yard? Yes No
If so, when and which chemicals?
Has there ever been a fire in the building?  Yes No. If yes, when?
Has painting or staining been done in the building in the last 6 months?
If yes, when? and where? Kirchen aby 4 hall say
Part VI – Sampling Information
Company/Consultant: Phone number: ( )
Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas
Sampler Type: 400 mL - 1.0 L Summa Canister / 6 L Summa Canister / Other (specify):
Analytical Method: TO-14A / TO-15 / TO-15 SIM / other:
Laboratory:
Sample locations (floor, room):
Field/Sample ID# Field/Sample ID #
Field/Sample ID# Field/Sample ID #
Field/Sample ID# Field/Sample ID #
Were "Instructions for Occupants" followed? Yes / No
If not, describe modifications:

		N	/31(b)	
Part VII – Met	rological Conditions			
Was there signi Yes / No	icant precipitation with	nin 12 hours prio	r to (or during) the sai	npling event?
Describe the ge	neral weather conditions	s:		
A		Dr'		
Part VIII – Gen	ral Observations			
Provide any info nterpretation pi	rmation that may be pe	rtinent to the sar	mpling event and may	assist in the da

### Recommended Instructions for Residents

The following is a suggested list for residents to follow (to the extent practical) in order to reduce interference in obtaining representative samples. IDEM suggests that these items be followed starting at least 48 hours prior to and during the sampling event.

- Do not open windows, fireplace opening or vents
- Do not keep doors open.
- Do not operate ventilation fans.
- Do not use air fresheners or odor eliminators.
- Do not smoke in the house to the extent practical
- Do not use wood stoves, fireplace or auxiliary heating equipment (e.g., kerosene heater)
- Do not use paints or varnishes.
- Do not use cleaning products (e.g., bathroom cleaners, furniture polish, appliance cleaners, and floor cleaners).
- Do not use cosmetics, including hair spray, nail polish, nail polish remover, perfume, etc.
- Do not partake in indoor hobbies that use solvents.
- Do not apply pesticides.
- Do not store containers of gasoline, oil or petroleum-based or other solvents within the house or attached garage (except for fuel oil tanks).
- Do not operate or store automobiles in an attached garage.

Vapor Residential Sampling & Mitigation Report Former Harman-Becker Automotive Systems, Inc. Martinsville, Indiana State Cleanup #1996-096.183

## Appendix C

**Laboratory Analytical Data** 

Vapor Residential Sampling & Mitigation Report Former Harman-Becker Automotive Systems, Inc. Martinsville, Indiana State Cleanup #1996-096.183

## Appendix D

Individual Residential Indoor Air Reports

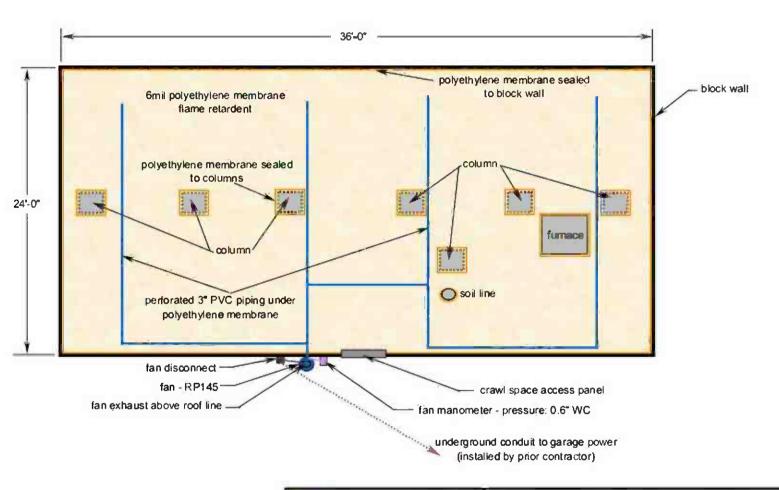
Vapor Residential Sampling & Mitigation Report Former Harman-Becker Automotive Systems, Inc. Martinsville, Indiana State Cleanup #1996-096.183

## Appendix E

520 Basca Drive Sub-Membrane Depressurization System Schematics







Abpine torucumvanitati Berricos, lace

Alpine Environmental Services, Inc. 1146 Central Avenue Albany, NY 12205 (518)453-0146

June 2010 Revision 0

Sub-Membrane Depressurization System Installed June 25, 2010

520 Basca Drive Martinsville, Indiana 46151