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401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 • Fax (317) 685-6610
1-800-508-8034

keramida@keramida.com • www.keramida.com

**INDOOR AIR SAMPLING REPORT
HARMAN BECKER AUTOMOTIVE SYSTEMS, INC.
1201 SOUTH OHIO STREET
MARTINSVILLE, INDIANA
KERAMIDA PROJECT NO. 10300**

Submitted to: **HARMAN BECKER AUTOMOTIVE SYSTEMS, INC.**
Mr. Jeremy Lindsey
Manager Safety & Environmental - North America
3100 Bowling Green Road
Franklin, Kentucky 42134

Submitted by: **KERAMIDA INC.**
401 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

Frank D. West, L.P.G.
Senior Project Manager

Reviewed by: Andrew A. Gremos, L.P.G., C.H.M.M.
Senior Vice President

February 3, 2009

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INTRODUCTION

Indoor air sampling was conducted at the Harman Becker Automotive Systems, Inc. (Harman Becker) facility and at seven residences immediately west of the facility between the period of December 16, 2008 and January 13, 2009. The Harman Becker facility is one story and is built on a slab without any crawl space or basement areas. Therefore, indoor air samples and sub-slab vapor samples were collected from fourteen areas throughout the facility.

The residences are each one story with a crawl space beneath some or all of the structure. Indoor and crawl space air samples were collected from each residence. The 1399 Clore Drive residence also has a basement under part of the house. Therefore, a basement air sample was collected and a sub-slab vapor sample was collected from beneath the basement floor at this residence.

The sampling was performed in accordance with the Indiana Department of Environmental Management's (IDEM) Draft Vapor Intrusion Pilot Program Guidance. The sampling locations and methodology are discussed below.

SAMPLING METHODOLOGY

Harman Becker Facility

Indoor air and sub-slab vapor samples were collected from the Harman Becker facility on December 22-23 and 29-30, 2008, at the locations shown on Figure 1. One outdoor air sample also was collected during each of the two sample dates to evaluate ambient volatile organic compound (VOC) concentrations in the area. The indoor and outdoor air samples were collected over a 24-hour period using 6-liter Summa canisters according to the KERAMIDA Standard Operating Procedure (SOP) presented in Attachment 1. The December 22-23, 2008 outdoor air sample canister was placed at 1334 Clore Drive west of the plant, the December 29-30, 2008 outdoor air sample was placed in the empty parking lot on the east side of the plant.

The sub-slab vapor samples were collected at the same locations as the indoor air samples. The sub-slab vapor samples were collected as grab samples into 1-liter Summa canisters according to the KERAMIDA SOP presented in Attachment 1. The indoor air, outdoor air, and sub-slab vapor samples were submitted to Pace Analytical Services, Inc., in Minneapolis, Minnesota, for VOC analysis by USEPA Method TO-15M.

Residences

Prior to sample collection, each resident was mailed a pre-sampling questionnaire and instructions to follow prior to sampling. KERAMIDA reviewed the questionnaire with each resident on the day of sampling to identify any materials or activities at the residences that could affect the sampling results, and to inform the occupants of the purpose and procedure for the sampling. Copies of completed questionnaires are provided in Attachment 2.

Indoor air samples and crawl space air samples were collected from seven residences near the Harman Becker facility. The locations of the residences are shown on Figure 2 and are listed below along with the sampling dates for each:

- 520 Basca Drive: December 18-19, 2008
- 540 Basca Drive: December 18-19, 2008
- 1334 Clore Drive: December 22-23, 2008, and January 12-13, 2009
- 1354 Clore Drive: December 18-19, 2008
- 1385 Clore Drive: January 12-13, 2009
- 1399 Clore Drive: December 18-19, 2008, and January 12-13, 2009
- 1309 Ohio Street: December 16-17, 2008

One sample was collected from the living area in each residence, and one from the crawl space. At 1399 Clore Drive, an air sample also was collected from the basement, and a sub-slab vapor sample was collected beneath the basement floor. However, upon arrival at the laboratory the sub-slab vapor sample canister was found to be defective and could not be analyzed. Therefore, this residence was re-sampled to collect a second sub-slab sample and basement air sample. Outdoor air samples were collected at select residences in the neighborhood during each sampling event to evaluate ambient VOC concentrations in the area. Outdoor air samples were collected at 520 Basca, 1334 Clore, 1385 Clore, 1399 Clore, and 1309 S. Ohio.

The indoor air, outdoor air, and crawl space air samples were collected over a 24-hour period using 6-liter Summa canisters according to the KERAMIDA SOP presented in Attachment 1. The indoor air canisters were placed in a regularly used living space away from vents, appliances, and combustion sources such as hot water heaters and furnaces. The canisters were elevated so the intake valve was between 2 and 4 feet above the floor. The crawl space canisters were placed in the center of the crawl space, and rested upright on the floor of the crawl space. The outdoor air sample canisters were placed in open areas in the neighborhood, away from buildings, cars, and roadways. The sub-slab vapor sample from 1399 Clore Drive was collected at the same location as the basement indoor air sample. The sub-slab vapor sample was collected as a grab sample into a 1-liter Summa canisters according to the KERAMIDA SOP presented in Attachment 1. All of the samples were submitted to Pace Analytical Services, Inc., in Minneapolis, Minnesota, for VOC analysis by USEPA Method TO-15M.

ANALYTICAL RESULTS

Harman Becker Facility

The indoor air and sub-slab vapor analytical results for the Harman Becker facility are summarized in Table 1. Figure 1 depicts the results graphically. The laboratory report is presented in Attachment 3.

Indoor and Outdoor Air

Tetrachloroethene (PERC) was detected in each of the indoor air samples at concentrations ranging from 2.9 to 71.4 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). The IDEM 20-year commercial indoor air action level for PERC is $8.5 \mu\text{g}/\text{m}^3$. The detected PERC concentrations in twelve of the indoor air samples exceeded this action level (see Table 1). The PERC concentrations detected in the northeast office area and test lab samples were below the action level. Trichloroethene (TCE) was detected in two samples, the Men's Locker Area and Northwest Office, at concentrations below the 20-year commercial indoor air TCE action level of $9.9 \mu\text{g}/\text{m}^3$. There were no other compounds detected in the indoor air samples. Trichloroethene (TCE) was detected at a concentration of $10.9 \mu\text{g}/\text{m}^3$ in the outdoor air sample from the east parking lot.

Sub-Slab Vapor

PERC also was detected in each of the sub-slab vapor samples at concentrations ranging from 16.8 to 3,730,000 $\mu\text{g}/\text{m}^3$ (see Table 1). The highest detected concentration was in the south warehouse sample (see Figure 1). The rest of the detected concentrations were three to six

orders of magnitude lower than this maximum. The IDEM 20-year commercial sub-slab screening level for PERC is 85 ug/m³. All of the detected PERC concentrations exceeded this screening level except for the northwest office sub-slab sample.

TCE was detected in thirteen of the fourteen sub-slab vapor samples at concentrations ranging from 3.3 to 144,000 ug/m³. The highest detected TCE concentration also was in the south warehouse sample (see Figure 1). The rest of the detected concentrations were three to four orders of magnitude lower than this maximum. The IDEM 20-year commercial sub-slab screening level for TCE is 99 ug/m³. The detected TCE concentrations in seven of the fourteen samples were above the IDEM screening level (see Table 1).

Also detected in one or more of the sub-slab vapor samples were 1,1-dichloroethane (1,1-DCA - three samples); cis-1,2-dichloroethene (cDCE - three samples); trans-1,2-dichloroethene (tDCE - three samples); and 1,1,1-trichloroethane (TCA - eleven samples). The highest detected concentration of cDCE was 21,900 ug/m³, also in the south warehouse sample, and exceeds the IDEM 20-year commercial sub-slab screening level of 510 ug/m³ for cDCE. The other detected compounds were below their respective screening levels (see Table 1).

Residences

The air sample analytical results for the residences are summarized in Table 2 and on Figure 2. The laboratory report is presented in Attachment 3. The results are discussed below for each residence.

520 Basca Drive

PERC was detected in both the indoor and crawl space air samples at 520 Basca Drive. The detected concentrations were similar (4.5 ug/m³ in indoor air and 6.3 ug/m³ in crawl space air) and were just above the 30-year residential action level of 3.2 ug/m³ for both indoor air and crawl space air. TCE was detected in the indoor air sample at this location but not the crawl space air sample. The detected TCE concentration was 12.4 ug/m³, compared to the IDEM 30-year residential action level of 1.2 ug/m³.

Because PERC was detected in both crawl space and indoor air, it could be the result of vapor intrusion from the subsurface. However, the presence of TCE only in the indoor air sample could indicate another source not related to the subsurface. The presampling questionnaire reviewed with the resident prior to sample collection did not reveal any obvious indoor sources

of PERC or TCE that could be contributing to the observed results. Regardless of the source of the detected compounds, it is recommended a crawl space ventilation system be installed at this residence to mitigate exposure to the compounds. KERAMIDA Inc., on behalf of Harman Becker, contacted this residence by letter dated January 30, 2009 to obtain permission to install a vapor mitigation system.

540 Basca Drive

There were no compounds detected in either the indoor air sample or the crawl space air sample at this location. No further action is recommended for this residence at this time.

1334 Clore Drive

PERC was detected in the indoor air sample from this residence at 275 ug/m^3 and the in crawl space sample at 4.7 ug/m^3 , which are both above the 30-year residential action level of 3.2 ug/m^3 for PERC. The 275 ug/m^3 appears anomolous because it is two orders of magnitude higher than the crawl space air sample result. The presampling questionnaire reviewed with the resident prior to sample collection did not reveal any obvious indoor sources of PERC that could be contributing to the observed results. The residence was re-sampled and the results showed an indoor air PERC concentration of 6.9 ug/m^3 and a crawl space concentration of 44.1 ug/m^3 . The re-sampling data indicate the PERC could be the result of vapor intrusion from the subsurface. It is recommended a crawl space ventilation system be installed at this residence to mitigate exposure to the compounds. KERAMIDA Inc., on behalf of Harman Becker, contacted this residence by letter dated January 30, 2009 to obtain permission to install a vapor mitigation system.

1354 Clore Drive

PERC was detected in the indoor air sample at 14.3 ug/m^3 and in the crawl space air sample at 47.7 ug/m^3 . These PERC concentrations are above the 30-year residential action level of 3.2 ug/m^3 for both indoor air and crawl space air. TCE was detected in the indoor air duplicate sample at 1.1 ug/m^3 which is below the 30-year residential action level of 1.2 ug/m^3 for TCE. TCE was not detected in the primary indoor air sample. Based on these results, the detected compounds could be from subsurface vapor intrusion into the crawl space, and subsequently into the indoor air of the residence. It is recommended a crawl space ventilation system be installed at this residence to mitigate exposure to the compounds. KERAMIDA Inc., on behalf of Harman Becker, contacted this residence by letter dated January 30, 2009 to obtain permission to install a vapor mitigation system.

1385 Clore Drive

PERC was detected in the indoor air sample at 847 ug/m³ and in the crawl space air sample at 1,100 ug/m³. These PERC concentrations are above the 30-year residential action level of 3.2 ug/m³ for both indoor air and crawl space air. TCE was detected in the indoor air sample and crawl space sample at 14.8 and 24.7 ug/m³, respectively, which is above the 30-year residential action level of 1.2 ug/m³ for TCE. Based on these results, the detected compounds could be from subsurface vapor intrusion into the crawl space, and subsequently into the indoor air of the residence. It is recommended a crawl space ventilation system be installed at this residence to mitigate exposure to the compounds. KERAMIDA Inc., on behalf of Harman Becker, contacted this residence by letter dated January 30, 2009 to obtain permission to install a vapor mitigation system.

1399 Clore Drive

PERC was detected in the indoor air and basement air samples at 26.6 and 38.9 ug/m³, respectively, which are above the 30-year residential action level of 3.2 ug/m³ for PERC. TCE was detected in the indoor air and basement air samples at 1.3 and 1.9 ug/m³, respectively, which are just above the 30-year residential action level of 1.2 ug/m³ for TCE. There were no detected compounds in the crawl space air sample from this residence. The basement re-sampling results showed PERC at 26.7 ug/m³, and no TCE was detected.

PERC was detected in the sub-slab vapor and duplicate samples at 94,900 and 203,000 ug/m³, respectively, which are above the 30-year residential screening level of 32 ug/m³ for PERC. TCE was detected in the sub-slab vapor and duplicate samples at 2,320 and 5,450 ug/m³, respectively, which are above the 30-year residential screening level of 12 ug/m³ for TCE. 1,1-dichloroethene (1,1-DCE), cDCE, tDCE, TCA, and vinyl chloride also were detected at concentrations below their respective 30-year residential screening levels.

The outdoor air sample collected at this location contained TCE at a concentration of 1.1 ug/m³. This indicates a potential outside ambient source of the TCE detected at this residence. No other compounds were detected in the outdoor air sample.

The sub-slab data confirm the potential for subsurface vapor intrusion. It is recommended a crawl space and sub-slab ventilation system be installed at this residence to mitigate exposure to the compounds. KERAMIDA Inc., on behalf of Harman Becker, contacted this residence by letter dated January 30, 2009 to obtain permission to install a vapor mitigation system.

1309 Ohio Street

There were no compounds detected in either the indoor air sample or the crawl space air sample at this location. No further action is recommended for this residence at this time.

CONCLUSIONS

The sampling results for the Harman Becker facility indicate potential excess exposure could occur during future commercial worker use of the building. It is recommended this exposure pathway be mitigated, which could include modification of the plant ventilation system, sealing of the plant floor to mitigate vapor intrusion, and/or installation of a sub-slab vapor ventilation system to remove the contaminants before they can migrate into the building.

The sampling results for the seven residences indicate no evidence of vapor intrusion at the 540 Basca Drive and 1309 Ohio Street residences. No further action is recommended for these locations at this time.

The sampling results for 520 Basca Drive, 1334 Clore Drive, 1354 Clore Drive, 1385 Clore Drive, and 1399 Clore Drive indicate subsurface vapor intrusion may be occurring at those residences. It is recommended that ventilation systems be installed at these residences to remove any compounds in crawl space air or sub-slab vapor before they can migrate into the houses. KERAMIDA Inc., on behalf of Harman Becker, has contacted these residence by letter dated January 30, 2009 to obtain permission to install vapor mitigation systems.

REFERENCES

IDEM. 2006. "Draft Vapor Intrusion Pilot Program Guidance." April 26.

TABLES

Table 1
Plant Indoor and Sub-Slab Air VOC Analytical Results (ug/m³)
Harman-Becker
Martinsville, Indiana
KERAMIDA Project No. 10300

Sample	Date Sampled	Lab Sample No.	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-dichloroethene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl Chloride
Plant Floor South	12/22-23/2008	1086904007	<1.1	<1.1	<1.1	<1.1	41.7	<1.5	<0.74	<0.70
Plant Floor South Sub-Slab	12/22/2008	1086842001	<1.4	<1.4	<1.4	<1.4	3,270	104	305	<0.87
Plant Floor North	12/22-23/2008	1086904009	<1.1	<1.1	<1.1	<1.1	39.8	<1.5	<0.76	<0.72
Plant Floor North Sub-Slab	12/22/2008	1086842003	<1.3	<1.3	<1.3	<1.3	2,030	72.5	61.6	<0.82
Warehouse North	12/22-23/2008	1086904011	<1.1	<1.1	<1.1	<1.1	32.6	<1.5	<0.74	<0.70
Warehouse North Sub-Slab	12/22/2008	1086842005	8.2	<1.4	<1.4	<1.4	96.3	400	3.3	<0.87
Warehouse Center	12/22-23/2008	1086904013	<1.0	<1.0	<1.0	<1.0	38.2	<1.4	<0.69	<0.65
Warehouse Center Sub-Slab	12/22/2008	1086842007	3.3	<1.4	<1.4	2.8	3,740	97.9	56.2	<0.87
Warehouse South	12/22-23/2008	1086904015	<1.1	<1.1	<1.1	<1.1	71.4	<1.5	<0.74	<0.70
Warehouse South Sub-Slab	12/22/2008	1086842009	<5,880	<5,810	21,900	<5,810	3,730,000	<7,890	144,000	<3,730
IT Office	12/22-23/2008	1086904017	<1.3	<1.2	<1.2	<1.2	13.2	<1.7	<0.85	<0.80
IT Office Sub-Slab	12/22/2008	1086842011	<27.6	<27.2	<27.2	<27.2	3,750	103	173	<17.5
NE Office Area	12/22-23/2008	1086904019	<1.1	<1.1	<1.1	<1.1	8.1	<1.5	<0.74	<0.70
NE Office Sub-Slab	12/22/2008	1086842013	<27.6	<27.2	<27.2	<27.2	3,180	80.5	<18.5	<17.5
Test Lab	12/22-23/2008	1086904021	<1.1	<1.1	<1.1	<1.1	2.9	<1.5	<0.74	<0.70
Test Lab Dup	12/22-23/2008	1086904023	<1.1	<1.1	<1.1	<1.1	5.5	<1.5	<0.74	<0.70
Test Lab Sub-Slab	12/22/2008	1086842015	<27.6	<27.2	<27.2	<27.2	935	<37.0	19.1	<17.5
Test Lab Sub-Slab Dup	12/22/2008	1086842017	<27.6	<27.2	<27.2	<27.2	943	<37.0	21.8	<17.5
IDEM 20-Year Indoor Air Action Level - Commercial ⁽¹⁾			720	290	51	100	8.5	3,200	9.9	11
IDEM 20-Year Sub-Slab Screening Level - Commercial ⁽¹⁾			7,200	2,900	510	1,000	85	32,000	99	110

See last page for footnotes.

Table 1
Plant Indoor and Sub-Slab Air VOC Analytical Results (ug/m³)
Harman-Becker
Martinsville, Indiana
KERAMIDA Project No. 10300

Sample	Date Sampled	Lab Sample No.	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-dichloroethene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl Chloride
Room 120	12/22-23/2008	1086904025	<1.1	<1.1	<1.1	<1.1	18.4	<1.5	<0.74	<0.70
Room 120 Sub-Slab	12/22/2008	1086842019	<2.3	<2.3	<2.3	<2.3	4,190	145	69.8	<1.5
Cafeteria	12/22-23/2008	1086904027	<1.6	<1.6	<1.6	<1.6	17.7	<2.2	<1.1	<1.0
Cafeteria Sub-Slab	12/22/2008	1086842021	<2.3	<2.3	<2.3	2.8	1,210	79.7	235	<1.5
1334 Clore Outdoor	12/22-23/2008	1086904005	<1.3	<1.3	<1.3	<1.3	<2.2	<1.7	<0.87	<0.83
Southeast Storage Room	12/29-30/2008	1087078001	<1.2	<1.2	<1.2	<1.2	13.3	<1.6	<0.79	<0.74
Southeast Storage Sub-Slab	12/30/2008	1087078013	<1.4	<1.4	<1.4	<1.4	1,010	39.7	4.0	<0.87
Mens Locker Area	12/29-30/2008	1087078003	<1.2	<1.2	<1.2	<1.2	11.6	<1.6	4.7	<0.74
Mens Locker Sub-Slab	12/30/2008	1087078015	55.4	21.2	529	97.1	19,700	988	689	<1.3
Mens Locker Sub-Slab Dup	12/30/2008	1087078017	57.8	22.8	1,520	103	54,300	2,840	1,960	<1
Lab	12/29-30/2008	1087078005	<1.1	<1.1	<1.1	<1.1	10.5	<1.5	<0.76	<0.72
Lab Dup	12/29-30/2008	1087078007	<1.4	<1.4	<1.4	<1.4	9.9	<1.9	2.9	<0.9
Lab Sub-Slab	12/30/2008	1087078019	<1.4	<1.4	2.8	<1.4	761,000	251	596	<0.87
Northwest Office	12/29-30/2008	1087078009	<1.1	<1.1	<1.1	<1.1	9.4	<1.5	4.9	<0.7
Northwest Office Sub-Slab	12/30/2008	1087078021	<1.4	<1.4	<1.4	<1.4	16.8	<1.8	1.3	<0.87
Plant East Outdoor	12/29-30/2008	1087078011	<1.1	<1.1	<1.1	<1.1	<1.9	<1.5	10.9	<0.7
IDEM 20-Year Indoor Air Action Level - Commercial ⁽¹⁾			720	290	51	100	8.5	3,200	9.9	11
IDEM 20-Year Sub-Slab Screening Level - Commercial ⁽¹⁾			7,200	2,900	510	1,000	85	32,000	99	110

Samples analyzed using USEPA Method TO-15

IDEM = Indiana Department of Environmental Management

ug/m³ = microgram per cubic meter

VOC = Volatile Organic Compound

Bold values exceed action levels

(1) Indiana Department of Environmental Management Draft Vapor Intrusion Pilot Program, April 26, 2006.

Table 2
Residential Indoor Air, Crawl Space, and Sub-Slab Vapor VOC Analytical Results (ug/m³)
Harman-Becker
Martinsville, Indiana
KERAMIDA Project No. 10300

Sample	Date Sampled	Lab Sample No.	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-dichloroethene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl Chloride
520 Basca Indoor	12/18-19/2008	1086708001	<2.4	<2.4	<2.4	<2.4	4.5	<3.2	12.4	<1.5
520 Basca Crawl	12/18-19/2008	1086708003	<1.1	<1.1	<1.1	<1.1	6.3	<1.5	<0.74	<0.7
520 Basca Outdoor	12/18-19/2008	1086708005	<1.8	<1.8	<1.8	<1.8	<3	<2.4	<1.2	<1.1
540 Basca Indoor	12/18-19/2008	1086708017	<1.4	<1.4	<1.4	<1.4	<2.4	<1.9	<0.95	<0.9
540 Basca Crawl	12/18-19/2008	1086708019	<1.1	<1.1	<1.1	<1.1	<2.2	<1.7	<0.87	<0.84
1309 Ohio Indoor	12/16-17/2008	1086591001	<1.1	<1.1	<1.1	<1.1	<1.0	<1.5	<0.74	<0.70
1309 Ohio Crawl	12/16-17/2008	1086591003	<1.2	<1.2	<1.2	<1.2	<2.1	<1.6	<0.81	<0.77
1309 Ohio Outdoor	12/16-17/2008	1086591005	<1.1	<1.1	<1.1	<1.1	<2.2	<1.1	<0.85	<0.80
1334 Clore Indoor	12/22-23/2008	1086904001	<1.5	<1.5	<1.5	<1.5	27.5	<2.0	<0.99	<0.94
1334 Clore Crawl	12/22-23/2008	1086904003	<1.0	<1.0	<1.0	<1.0	4.7	<1.4	<0.69	<0.65
1334 Clore Outdoor	12/22-23/2008	1086904005	<1.3	<1.3	<1.3	<1.3	<2.2	<1.7	<0.87	<0.83
1334 Clore Indoor	1/12-13/2009	1087648009	<1.3	<1.3	<1.3	<1.3	6.9	<1.7	<0.87	<0.83
1334 Clore Crawl	1/12-13/2009	1087648011	<1.1	<1.1	<1.1	<1.1	14.1	<1.6	<0.81	<0.77
1354 Clore Indoor	12/18-19/2008	1086708021	<1.5	<1.5	<1.5	<1.5	14.3	<1.7	<0.87	<0.84
1354 Clore Indoor Dup	12/18-19/2008	1086708023	<1.1	<1.1	<1.1	<1.1	6.1	<1.5	1.1	<0.7
1354 Clore Crawl	12/18-19/2008	1086708025	<1.4	<1.4	<1.4	<1.4	47.7	<1.9	<0.95	<0.9
1354 Clore Crawl Dup	12/18-19/2008	1086708027	<1.1	<1.1	<1.1	<1.1	6.2	<1.5	<0.76	<0.72
1385 Clore Indoor	1/12-13/2009	1087648001	<1.1	<1.1	<1.1	<1.1	847	<1.5	14.8	<0.7
1385 Clore Crawl	1/12-13/2009	1087648003	<1.1	<1.1	1.1	<1.1	1,100	<1.5	24.7	<0.7
1385 Clore Crawl Dup	1/12-13/2009	1087648007	<1.1	<1.1	1.1	<1.1	1,020	<1.5	21.1	<0.7
1385 Clore Outdoor	1/12-13/2009	1087648005	<1.0	<1.0	<1.0	<1.0	<1.8	<1.4	<0.69	<0.65
1399 Clore Indoor	12/18-19/2008	1086708007	<1.2	<1.2	<1.2	<1.2	26.6	<1.6	1.3	<0.74
1399 Clore Basement	12/18-19/2008	1086708009	<1.7	<1.7	<1.7	<1.7	38.9	<2.3	1.9	<1.1
1399 Clore Crawl	12/18-19/2008	1086708011	<1.1	<1.1	<1.1	<1.1	<1.9	<1.5	<0.76	<0.72
1399 Clore Outdoor	12/18-19/2008	1086708015	<1.6	<1.6	<1.6	<1.6	<2.8	<2.2	1.1	<1
1399 Clore Basement	1/12-13/2009	1087648013	<1.3	<1.2	<1.2	<1.2	26.7	<1.7	<0.85	<0.80
1399 Clore Sub-Slab	1/13/2009	1087648015	<1.4	<1.4	7.7	<1.4	94,900	51.2	2,320	<0.87
1399 Clore Sub-Slab Dup	1/13/2009	1087648017	<1.4	1.9	9.0	2.8	203,000	51.8	5,450	0.92
IDEM 30-Year Indoor Air/Crawl Space Action Level - Residential ⁽¹⁾			510	210	36	73	3.2	2,300	1.2	2.2
IDEM 30-Year Sub-Slab Prompt Action Level - Residential ⁽¹⁾			5,100	2,100	360	730	32	23,000	12	22

Samples analyzed using USEPA Method TO-15

IDEM = Indiana Department of Environmental Management

ug/m³ = microgram per cubic meter

VOC = Volatile Organic Compound

Bold values exceed action levels

(1) Indiana Department of Environmental Management Draft Vapor Intrusion Pilot Program, April 26, 2006.

FIGURES

LEGEND

- EXISTING MONITORING WELLS
- FORMER SOIL VAPOR EXTRACTION WELLS (LEFT IN PLACE)
- FORMER AIR INJECTION WELLS (LEFT IN PLACE, 4 REUSED)
- SOIL VAPOR EXTRACTION WELLS
- AIR INJECTION WELLS
- FORMER SOIL VAPOR EXTRACTION PIPING (LEFT IN PLACE, PORTIONS REUSED AS NOTED)
- FORMER COMPRESSED AIR PIPING (LEFT IN PLACE, PORTIONS REUSED AS NOTED)
- SOIL VAPOR EXTRACTION PIPING
- COMPRESSED AIR PIPING
- IN-LINE CONDENSATE POT
- INDOOR/SUB-SLAB AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION

RESULTS REPORTED IN MICROGRAMS PER CUBIC METER (ug/m³)

Revision/Issue	Date



401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - Fax (317) 685-6610

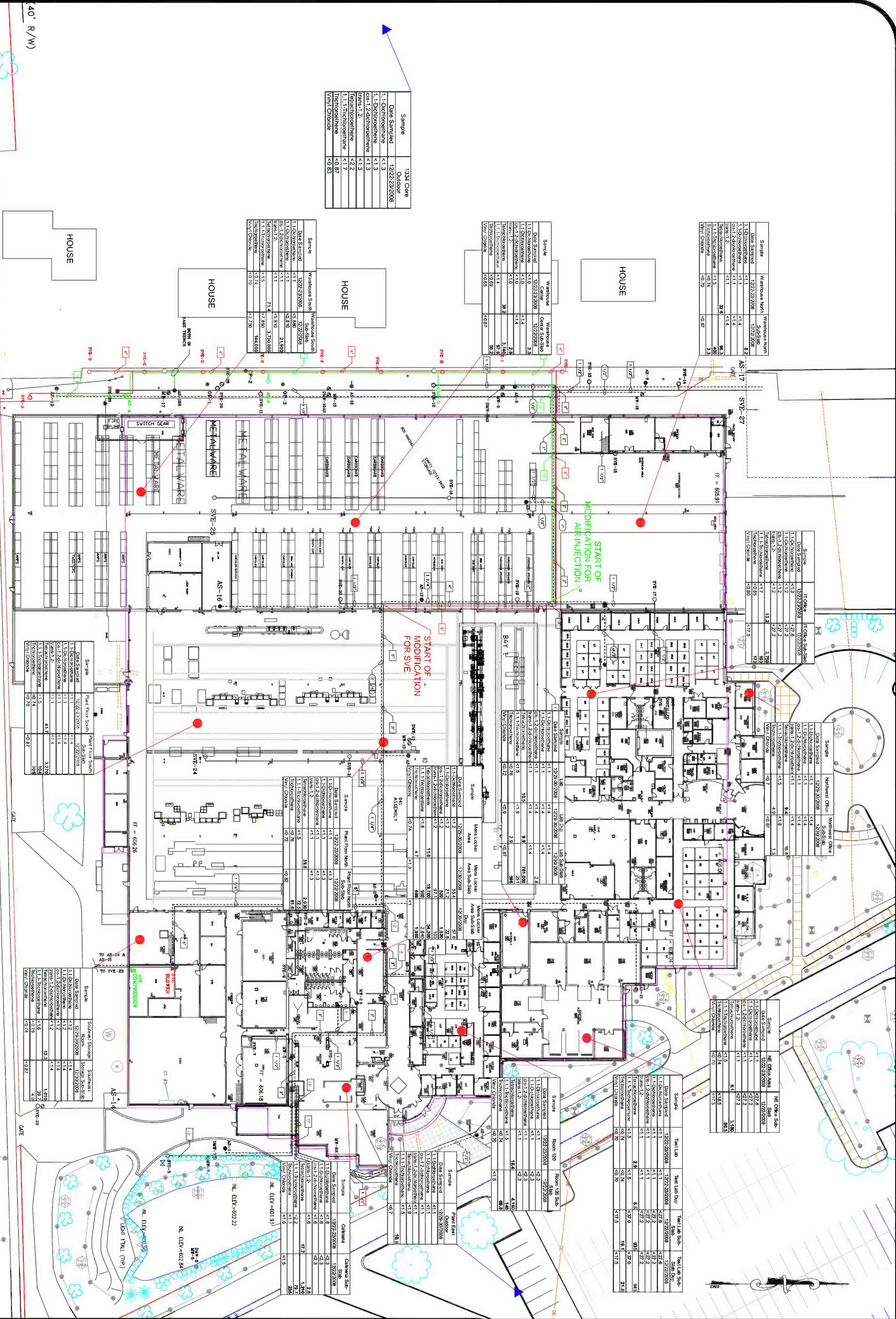
HARMAN / BECKER
AUTOMOTIVE SYSTEMS INC.
Martinsville, Indiana

Groundwater Remediation
System

Plant Indoor and Sub-Slab
Air Sample Results

Project 11151	Figure 1
Date 02/02/09	Scale 1" = 30'

40' R/W



Sample	Date Sampled	1,1-Dichloroethene	1,2-Dichloroethene	1,1,1-Trichloroethene	1,1,2,2-Tetrachloroethene	Vinyl Chloride
1334 Core Outdoor	12/22/23/2008	<1.3	<1.3	<1.3	<2.2	<0.87

Sample	Date Sampled	1,1-Dichloroethene	1,2-Dichloroethene	1,1,1-Trichloroethene	1,1,2,2-Tetrachloroethene	Vinyl Chloride
Warehouse South Sub-Slab	12/22/23/2008	<1.1	<1.1	<1.1	<1.5	<0.70

Sample	Date Sampled	1,1-Dichloroethene	1,2-Dichloroethene	1,1,1-Trichloroethene	1,1,2,2-Tetrachloroethene	Vinyl Chloride
Warehouse Center Sub-Slab	12/22/23/2008	<1.0	<1.0	<1.0	<1.0	<0.65

Sample	Date Sampled	1,1-Dichloroethene	1,2-Dichloroethene	1,1,1-Trichloroethene	1,1,2,2-Tetrachloroethene	Vinyl Chloride
Warehouse North	12/22/23/2008	<1.1	<1.4	<1.4	<2.6	<0.87

Sample	Date Sampled	1,1-Dichloroethene	1,2-Dichloroethene	1,1,1-Trichloroethene	1,1,2,2-Tetrachloroethene	Vinyl Chloride
IT Office	12/22/23/2008	<1.1	<1.2	<1.2	<2.2	<0.85

Sample	Date Sampled	1,1-Dichloroethene	1,2-Dichloroethene	1,1,1-Trichloroethene	1,1,2,2-Tetrachloroethene	Vinyl Chloride
Northwest Office Sub-Slab	12/23/30/2008	<1.1	<1.4	<1.4	<2.2	<0.87

Sample	Date Sampled	1,1-Dichloroethene	1,2-Dichloroethene	1,1,1-Trichloroethene	1,1,2,2-Tetrachloroethene	Vinyl Chloride
NE Office Area Sub-Slab	12/22/23/2008	<1.1	<1.4	<1.4	<2.2	<0.87

Sample	Date Sampled	1,1-Dichloroethene	1,2-Dichloroethene	1,1,1-Trichloroethene	1,1,2,2-Tetrachloroethene	Vinyl Chloride
Room 120 Sub-Slab	12/22/23/2008	<1.1	<1.4	<1.4	<2.2	<0.87

Sample	Date Sampled	1,1-Dichloroethene	1,2-Dichloroethene	1,1,1-Trichloroethene	1,1,2,2-Tetrachloroethene	Vinyl Chloride
Room 120 Sub-Slab	12/22/23/2008	<1.1	<1.4	<1.4	<2.2	<0.87

Sample	Date Sampled	1,1-Dichloroethene	1,2-Dichloroethene	1,1,1-Trichloroethene	1,1,2,2-Tetrachloroethene	Vinyl Chloride
Room 120 Sub-Slab	12/22/23/2008	<1.1	<1.4	<1.4	<2.2	<0.87

Sample	Date Sampled	1,1-Dichloroethene	1,2-Dichloroethene	1,1,1-Trichloroethene	1,1,2,2-Tetrachloroethene	Vinyl Chloride
Paint Floor South Sub-Slab	12/22/23/2008	<1.1	<1.4	<1.4	<2.2	<0.87

Sample	Date Sampled	1,1-Dichloroethene	1,2-Dichloroethene	1,1,1-Trichloroethene	1,1,2,2-Tetrachloroethene	Vinyl Chloride
Storage Sub-Slab	12/23/24/2008	<1.1	<1.4	<1.4	<2.2	<0.87

SCALE: 1" = 30'

Sample	520 Basca Indoor	520 Basca Crawl	520 Basca Outdoor
Date Sampled	12/18-19/2008	12/18-19/2008	12/18-19/2008
1,1-Dichloroethane	<2.4	<1.1	<1.8
1,1-Dichloroethane	<2.4	<1.1	<1.8
cis-1,2-dichloroethane	<2.4	<1.1	<1.8
trans-1,2-	<2.4	<1.1	<1.8
Tetrachloroethene	4.5	6.3	<3
1,1,1-Trichloroethane	<3.2	<1.5	<2.4
Trichloroethene	12.4	<0.74	<1.2
Vinyl Chloride	<1.5	<0.7	<1.1

Sample	540 Basca Indoor	540 Basca Crawl
Date Sampled	12/18-19/2008	12/18-19/2008
1,1-Dichloroethane	<1.4	<1.3
1,1-Dichloroethane	<1.4	<1.3
cis-1,2-dichloroethane	<1.4	<1.3
trans-1,2-	<1.4	<1.3
Tetrachloroethene	<2.4	<2.2
1,1,1-Trichloroethane	<1.9	<1.7
Trichloroethene	<0.95	<0.87
Vinyl Chloride	<0.9	<0.83

Sample	1334 Clore Indoor	1334 Clore Crawl	1334 Clore Outdoor	1334 Clore Indoor	1334 Clore Crawl
Date Sampled	12/22-23/2008	12/22-23/2008	12/22-23/2008	1/12-13/2009	1/12-13/2009
1,1-Dichloroethane	<1.5	<1.0	<1.3	<1.3	<1.2
1,1-Dichloroethane	<1.5	<1.0	<1.3	<1.3	<1.2
cis-1,2-dichloroethane	<1.5	<1.0	<1.3	<1.3	<1.2
trans-1,2-	<1.5	<1.0	<1.3	<1.3	<1.2
Tetrachloroethene	275	4.7	<2.2	6.9	44.1
1,1,1-Trichloroethane	<2.0	<1.4	<1.7	<1.6	
Trichloroethene	<0.99	<0.69	<0.87	<0.81	
Vinyl Chloride	<0.94	<0.65	<0.83	<0.77	

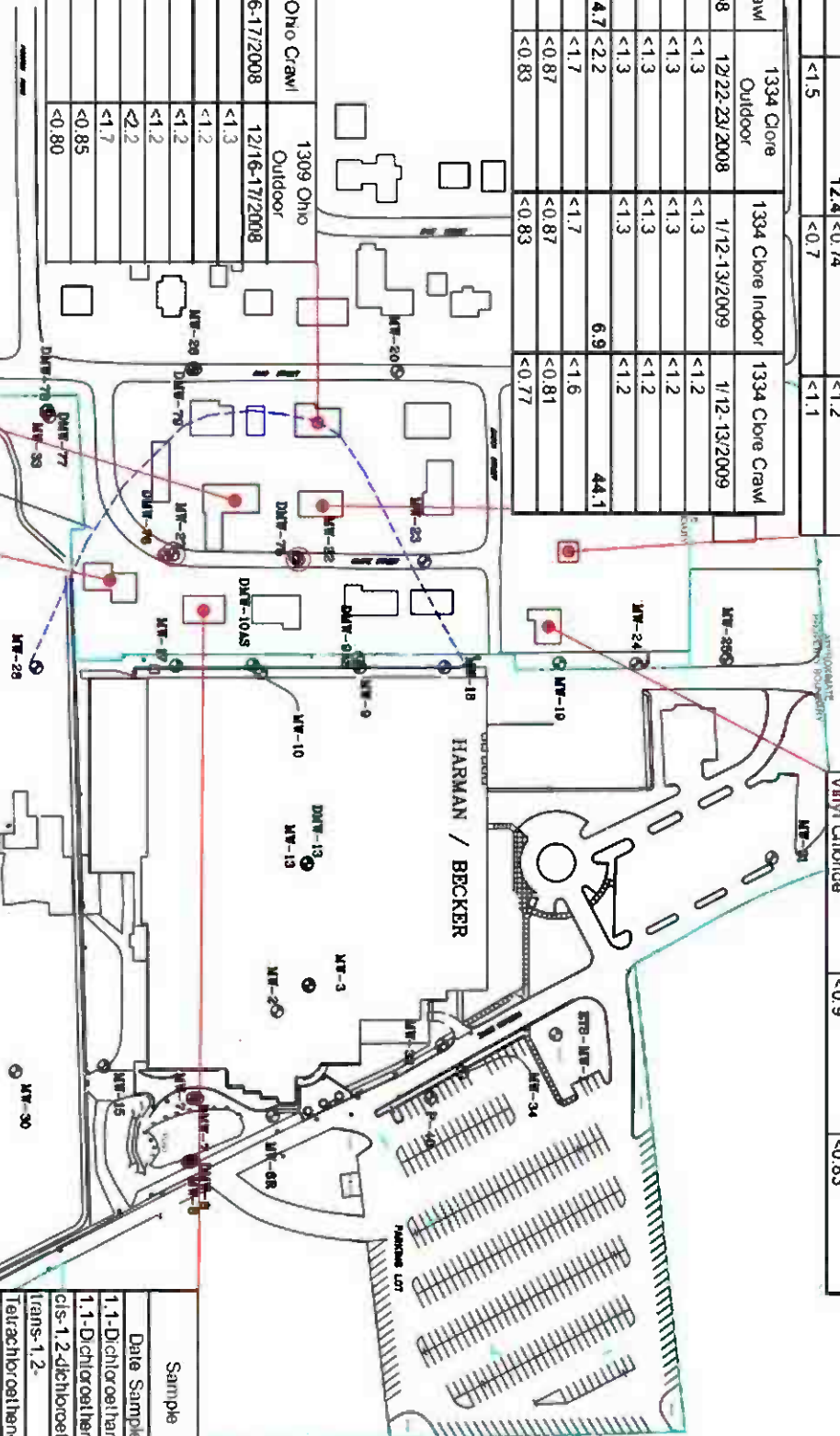
Sample	1309 Ohio Indoor	1309 Ohio Crawl	1309 Ohio Outdoor
Date Sampled	12/16-17/2008	12/16-17/2008	12/16-17/2008
1,1-Dichloroethane	<1.1	<1.2	<1.3
1,1-Dichloroethane	<1.1	<1.2	<1.2
cis-1,2-dichloroethane	<1.1	<1.2	<1.2
trans-1,2-	<1.1	<1.2	<1.2
Tetrachloroethene	<1.9	<2.1	<2.2
1,1,1-Trichloroethane	<1.5	<1.6	<1.7
Trichloroethene	<0.74	<0.81	<0.85
Vinyl Chloride	<0.70	<0.77	<0.80

ESTIMATED BOUNDARY OF GROUNDWATER PLUME ABOVE THIRTY YEAR GROUNDWATER SCREENING LEVEL

Sample	1354 Clore Indoor	1354 Clore Indoor Dup	1354 Clore Crawl	1354 Clore Crawl Dup
Date Sampled	12/18-19/2008	12/18-19/2008	12/18-19/2008	12/18-19/2008
1,1-Dichloroethane	<1.3	<1.1	<1.4	<1.1
1,1-Dichloroethane	<1.3	<1.1	<1.4	<1.1
cis-1,2-dichloroethane	3	<1.1	<1.4	<1.1
trans-1,2-	<1.3	<1.1	<1.4	<1.1
Tetrachloroethene	14.3	6.1	47.7	6.2
1,1,1-Trichloroethane	<1.7	<1.5	<1.9	<1.5
Trichloroethene	<0.87	1.1	<0.95	<0.76
Vinyl Chloride	<0.83	<0.7	<0.9	<0.72

Sample	1399 Clore Indoor	1399 Clore Basement	1399 Clore Crawl	1399 Clore Outdoor	1399 Clore Basement	1399 Clore Slab	1399 Clore Sub-Slab Dup	1399 Clore Sub-Slab Dup
Date Sampled	12/18-19/2008	12/18-19/2008	12/18-19/2008	12/18-19/2008	1/12-13/2009	1/13/2009	1/13/2009	1/13/2009
1,1-Dichloroethane	<1.2	<1.7	<1.1	<1.6	<1.3	<1.4		<1.4
1,1-Dichloroethane	<1.2	<1.7	<1.1	<1.6	<1.2	<1.4		
cis-1,2-dichloroethane	<1.2	<1.7	<1.1	<1.6	<1.2	<1.4	7.7	1.9
trans-1,2-	<1.2	<1.7	<1.1	<1.6	<1.2	<1.4		9.0
Tetrachloroethene	26.6	38.9	<1.9	<2.8	26.7	94,900	203,000	2.8
1,1,1-Trichloroethane	<1.6	<2.3	<1.5	<2.2		51.2		51.8
Trichloroethene	1.3	1.9	<0.76	<2.2	1.1	<0.85	2,320	5,490
Vinyl Chloride	<0.74	<1.1	<0.72	<1	<0.80	<0.87		0.92

Sample	1385 Clore Indoor	1385 Clore Crawl	1385 Clore Crawl Dup	1385 Clore Outdoor
Date Sampled	1/12-13/2009	1/12-13/2009	1/12-13/2009	1/12-13/2009
1,1-Dichloroethane	<1.1	<1.1	<1.1	<1.0
1,1-Dichloroethane	<1.1	<1.1	<1.1	<1.0
cis-1,2-dichloroethane	<1.1	<1.1	<1.1	<1.0
trans-1,2-	<1.1	<1.1	<1.1	<1.0
Tetrachloroethene	847	1,100	1,020	<1.8
1,1,1-Trichloroethane	<1.5	<1.5	<1.5	<1.4
Trichloroethene	14.8	24.7	21.1	<0.69
Vinyl Chloride	<0.7	<0.7	<0.7	<0.65



KEY

- MONITORING WELL (MW-1)
- PROPERTY BOUNDARY
- BOLD VALUES EXCEED 30-YEAR RESIDENTIAL ACTION LEVELS

NORTH

● Accessible Indoor air sample location

SCALE 1" = 200'

○ Off-site shallow wells that exceed thirty year residential vapor intrusion groundwater screening levels

** Groundwater Screening level based on a groundwater depth of 5 feet in sand soil.

Project: HARMAN / BECKER AUTOMOTIVE SYSTEMS
MARTINSVILLE, INDIANA

Figure 2

Residential Indoor Air Sampling Results
(ug/m³)



KERAMIDA
A Global EHS Services Provider

Project Number:	11912	Drawn By:	J. CLARK
Date:	January 19, 2009	Approved By:	File No. HARMAN/Beckfigs

ATTACHMENT 1
Standard Operating Procedures

**STANDARD OPERATING PROCEDURES
FOR
SUB-SLAB VAPOR SAMPLING**

PREPARED BY:

**KERAMIDA ENVIRONMENTAL, INC.
401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600**

Revised: January 9, 2007

MATERIALS

- Field book
- Latex or nitrile gloves
- Proper PPE
- Vacuum pump
- 2" rotary hammer drill with 1" bit and 3/8" bit
- Stainless steel or Teflon tubing with a T-fitting and in-line valve
- Cotton cloth
- Deionized water
- The following in brass or stainless steel:
 - 1/4" x 1/8" red bushing
 - 1/4" flare fitting
 - 1/4" cap
- Lime-based cement
- 6-liter Summa canister with particulate filter and pressure gauge
- Small metal rod / trim trowel

STANDARD OPERATING PROCEDURE

Pre-Mobilization

1. Review the Work Plan to understand the sequencing and locations for the sub-slab vapor collection. If there is no work plan, find out what the goal of the work is and document all procedures in the field. Review any available construction diagrams to determine the slab thickness and any insulation materials. The geology of the sub-slab materials is especially important to the collection of vapor samples.
2. Arrange for utilities to be marked at the Site, including their points of entry to the building.
3. Before mobilizing to the site, make sure all needed materials are on hand. If an access agreement is required, be certain to bring a copy of the agreement in case any questions arise.
4. Document any changes in the following port installation or sample collection procedures as they occur. Field conditions may dictate changes.

Sample Port Installation

5. Using a rotary drill fitted with a 1" bit, create a 1 to 2" deep hole in the slab. Attach a 3/8" bit to the drill and create a second hole through the center of the first that extends through the slab and into the sub-slab material approximately 2".
6. Clean the hole openings with a damp cloth to remove any particles that could interfere with port installation.

7. Assemble the port apparatus as follows: 1/4" cap fitted on a 1/4" flare fitting, attached to a 1/4" by 1/8" red bushing fitted on a 1/8" by 2.5" nipple.
8. Insert the assembled port apparatus into the inside hole allowing the bushing to rest at the base of the outside hole.
9. Mix a quick-drying lime-based cement with deionized water to form a slurry. Using a metal rod, tap the slurry into the annular space between the port and the wall of the outside hole. Allow the cement to cure for at least 24 hours prior to sample collection.

Sample Collection

10. Remove the cap from the sample port and attach one end of the tubing (the tubing should already be fitted with a closed in-line valve).
11. Attach the other end of the tubing to the vacuum pump.
12. Open the in-line valve and purge the sample port apparatus and tubing of approximately 50 milliliters of air (which is approximately 5 sample port volumes). **Record the pump rate and volume of air purged.**
13. Close the in-line valve and turn the pump off.
14. Attach the particulate filter to the Summa canister inlet port.
15. Attach the pressure gauge to the Summa Canister and **record the initial pressure on the canister sample tag.**
16. Detach the tubing from the vacuum pump and attach it to the inlet port of the Summa canister.
17. Open the Summa canister valve, then open the in-line valve and allow the Summa canister to fill with vapor from the sample port until the canister reaches atmospheric pressure (approximately 2 minutes).
18. Record the final Summa canister pressure on the canister sample tag.
19. Close the Summa canister valve and the in-line valve. Remove the tubing from the canister and the sample port.
20. Replace the cap on the sample port.
21. Remove the particulate filter from the Summa canister.
22. Complete the canister sample tag and chain-of-custody form.

**STANDARD OPERATING PROCEDURE
FOR
INDOOR AIR SAMPLING USING SUMMA CANISTERS**

Prepared By:

**KERAMIDA ENVIRONMENTAL, INC.
401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600**

Revised December 2007

BACKGROUND

An air sample collected over a few minutes of time is referred to as a grab sample and provides information on the concentrations of chemicals in the ambient air at that point in time. An air sample collected over more than a few minutes is referred to as an integrated sample and provides information on the average or composited concentrations of chemicals in the ambient air over the sampling interval. Summa canisters are used to collect integrated air samples. A Summa canister is a stainless steel container that has had the internal surfaces specially passivated using a "Summa" process. This process combines an electropolishing step with a chemical deactivation step to produce a surface that is nearly chemically inert. A Summa surface has the appearance of a mirror: bright, shiny, and smooth.

MATERIALS

The following materials should be ordered from the laboratory:

1. Summa canister – available in 6-liter and 1-liter sizes.
2. Laboratory-supplied chain-of-custody forms (not KERAMIDA forms)
3. Valve – A valve is located at the top of the canister. The valve allows vacuum to be maintained in the canister prior to sampling and seals off the canister once the sample has been collected.
4. Brass Cap – Each canister comes with a brass cap secured to the inlet of the valve assembly. The cap serves two purposes: It ensures that there is no loss of vacuum due to a leaky valve or valve that is accidentally opened during handling and it prevents dust and other particulate matter from fouling the valve. The cap is removed prior to sampling and replaced following sample collection. Always replace the brass cap following canister sampling.
5. Particulate Filter – Each canister comes with a particulate filter provided separately in the packing box. The filter prevents particulate matter from fouling the valve (or flow controller) and entering the canister.
6. Vacuum Gauge and Flow Controller – When ordering canisters from the laboratory, specify the sampling interval (for example: 8 hours, 24 hours) so they can pre-set the flow controllers before shipping.

PROCEDURES

Field Preparation

1. Verify all required equipment is included in the package received from the laboratory.
2. Verify initial vacuum of each canister:
 - Confirm that the valve is closed.
 - Remove the brass cap and attach the vacuum gauge.
 - Attach the brass cap to the gauge tee fitting.
 - Open and close the valve quickly (a few seconds). No more than a half turn by hand is required to open the valve. Do not over-tighten the valve or it may become damaged. A damaged valve can leak and possibly compromise the sample.
 - Read vacuum on the gauge and record the reading on the "Initial Vacuum" column of the chain-of-custody form.
 - Verify that the canister valve is closed and then remove the gauge and replace the brass cap.

Sample Set Up and Collection

1. The sampling train should be set up in a location that is out of direct sunlight during sampling. There will be some flow rate drift if the temperature of the controllers is allowed to vary significantly.
2. Remove the brass cap from the canister.
3. Attach the flow controller.
4. Attach the particulate filter to the flow controller.
5. Open the valve ½ turn.

Sample Monitoring

The volume of air sampled is a linear function of the canister vacuum. For example, halfway into an 8-hour sampling interval, the canister should be approximately half-filled and the gauge should read approximately 17 inches of mercury (in. Hg). More vacuum than 17 in. Hg indicates that the canister is filling too slowly; less than 17 in. Hg and the canister is filling too quickly. If the canister is filling too slowly, a valid sample can still be collected. If the canister is filling too quickly because of a leak or incorrect flow controller setting, corrective action can also be taken. Ensuring all connections are tight may eliminate a leak. It is possible to take an intermittent sample. The time interval need not be continuous. Eight 1-hour increments, taken by opening and closing the canister valve, will yield a valid sample.

Sample Retrieval

1. Verify and record the final vacuum of the canister on the canister tag and the chain-of-custody.
2. Close the valve by hand-tightening the knob clockwise. No more than a half turn by hand is required to open the valve. Do not over-tighten the valve after sampling or it may become damaged. A damaged valve can leak and possibly compromise the sample.
3. Replace the brass cap.
4. Fill out the sample tag attached to the canister.
5. Return the canisters and all associated equipment to the laboratory in the boxes in which they were shipped.

ATTACHMENT 2
Pre-Sampling Questionnaires

PRE-SAMPLING QUESTIONNAIRE AND INSTRUCTIONS

Indoor Air Assessment Survey

Date: 12/18/08

1. Name: (Ann) Beverly Rhine
Address: 520 Bosca
Home Phone: _____ Work Phone: _____
2. What is the best time to call to speak with you? _____ At: Work ☐ or Home ☐
3. Are you the Owner ☒, Renter ☐, Other ☐ (please specify) _____ of this Home/Structure?
4. Total number of occupants/persons at this location? 1
Number of children? — Ages? —
5. How long have you lived/worked at this location? 21 yrs

General Home/Structure Description

6. Type of Home/Structure (check only one): Single Family Home ☒, Duplex ☐, Condominium ☐, Townhouse ☐, Retail Business ☐, Commercial/Industrial Business ☐, Other ☐
7. Home/Structure Description: number of floors 1
Basement? Yes ☐ No ☒
If Yes, under how much of the house/structure area? _____ %
Crawl Space? Yes ☒ No ☐
If Yes, under how much of the house/structure area? _____ %
8. Age of Home/Structure: 1950/51 years, Not sure/Unknown ☐
9. General Above-Ground Home/Structure construction (check all that apply):
Wood ☐, Brick ☐, Concrete ☐, Cement block ☐, Other ☐ Frame
10. Foundation Construction (check all that apply):
Concrete slab ☐
Fieldstone ☐
Concrete block ☐
Elevated above ground/grade ☐
Other packed dirt w/ vapor barrier

11. What is the source of your drinking water (check all that apply)?
 Public water supply ☒
 Private well ☐
 Bottled water ☐
 Other, please specify _____
12. Do you have a private well for purposes other than drinking?
 Yes ☐ No ☒
 If yes, please describe what you use the well for: _____
13. Do you have a septic system? Yes ☐ No ☒ Not used ☐ Unknown ☐
14. Do you have standing or flowing water outside the house/structure (pond, ditch, swale)?
 Yes ☐ No ☒

Basement Description, please check appropriate boxes.

If you do not have a basement go to question 22.

15. Is the basement finished ☐ or unfinished ☐?
16. If finished, how many rooms are in the basement? _____
 How many are used for more than 2 hours/day? _____
17. Is the basement floor (check all that apply) concrete ☐, tile ☐, carpeted ☐, dirt ☐, other (describe) _____?
18. Are the basement walls poured concrete ☐, cement block ☐, stone ☐, wood ☐, brick ☐, other _____?
19. Does the basement have a moisture problem (check one only)?
 Yes, frequently (3 or more times/yr) ☐
 Yes, occasionally (1-2 times/yr) ☐
 Yes, rarely (less than 1 time/yr) ☐
 No ☐
20. Does the basement ever flood (check one only)?
 Yes, frequently (3 or more times/yr) ☐
 Yes, occasionally (1-2 times/yr) ☐
 Yes, rarely (less than 1 time/yr) ☐
 No ☐
21. Does the basement have any of the following? (check all that apply) Floor cracks ☐,
 Wall cracks ☐, Sump ☐, Floor drain ☐, Other hole/opening in floor ☐ (describe) _____

22. Are any of the following used or stored in the home/structure (check all that apply). If yes, list their locations.

Paint ☒ <i>lgt - closet</i>	Paint stripper/remover ☐
Paint thinner ☐	Metal degreaser/cleaner ☐
Gasoline ☐	Diesel fuel ☐
Solvents ☐	Glue ☐
Laundry spot removers ☒ <i>laundry room</i>	Drain cleaners ☐
Pesticides ☒ <i>garage</i>	

23. Have you recently (within the last six months) done any painting or remodeling in your home/structure? Yes ☒ No ☐

If yes, please specify what was done, where, and what month:

touch up painting only

24. Have you installed new carpeting in your home/structure within the last year
Yes ☐ No ☒

If yes, when and where? _____

25. Do you regularly use or work in a dry cleaning service (check only one box)?

Yes, use dry-cleaning regularly (at least weekly) ☐

Yes, use dry-cleaning infrequently (monthly or less) ☐

Yes, work at a dry cleaning service ☐

No ☒

26. Does anyone in your home/structure use solvents at work?

Yes ☐ If yes, how many persons _____

No ☒ If no, go to question 28

27. If yes for question 26 above, are the work clothes washed at home or in the structure?
Yes ☐ No ☐

28. Where is the washer/dryer located?

Basement ☐

Upstairs utility room ☒

Kitchen ☐

Garage ☐

Use a Laundromat ☐

Other, please specify ☐

29. If you have a dryer, is it vented to the outdoors? Yes ☒ No ☐

30. What type(s) of home heating do you have (check all that apply)
 Fuel type: Gas ☒, Oil ☐, Electric ☐, Wood ☐, Coal ☐, Other forced air
 Heat conveyance system:
 Forced hot air ☒
 Forced hot water ☐
 Steam ☐
 Radiant floor heat ☐
 Wood stove ☐
 Coal furnace ☐
 Fireplace ☐
 Other ☐
31. Do you have air conditioning? Yes ☒ No ☐. If yes, please check the appropriate type(s)
 Central air conditioning ☒
 Window air conditioning unit(s) ☐
 Other please specify _____
32. Do you use any of the following? Room fans ☐, Ceiling fans ☒, Attic fan ☐
 Do you ventilate using the fan-only mode of your central air conditioning or forced air heating system? Yes ☐ No ☒ Humidifier
33. Has your home/structure had termite or other pesticide treatment: Yes ☒ No ☐
 Unknown ☐
 If yes, please specify type of pest controlled, Arab Roast Chl. Zyrsago and approximate date of service _____
34. Water Heater Type: Gas ☒, Electric ☐, By furnace ☐, Other _____
 Water heater location: Basement ☐, Upstairs utility room ☒, Garage ☐, Other (please describe) _____
35. What type of cooking appliance do you have? Electric ☐, Gas ☒, Other _____
36. Is there a stove exhaust hood present? Yes ☒ No ☐
 Does it vent to the outdoors? Yes ☐ No ☒
37. Smoking in Home/Structure:
 None ☒, Rare (only guests) ☐, Moderate (residents light smokers) ☐, Heavy (at least one heavy smoker in household) ☐
38. If yes to above, what do they smoke?
 Cigarettes ☐ Cigars ☐
 Pipe ☐ Other ☐
39. Do you regularly use air fresheners? Yes ☒ No ☐

40. Does anyone in the home/structure have indoor hobbies or work tasks involving:
 None ☒, Heating ☐, soldering ☐, welding ☐, model glues ☐, paint ☐, spray paint ☐,
 wood finishing ☐, Other ☐ Please specify what type of hobby: _____

41. General family/home/worker use of consumer products (please circle appropriate):
 Assume that **Never** = never used, **Hardly ever** = less than once/month, **Occasionally** =
 about once/month, **Regularly** = about once/week, and **Often** = more than once/week.

<u>Product</u>	<u>Frequency of Use</u>				
Spray-on deodorant	<u>Never</u>	Hardly ever	Occasionally	Regularly	Often
Aerosol deodorizers	Never	Hardly ever	Occasionally	Regularly	<u>Often</u>
Insecticides	Never	<u>Hardly ever</u>	Occasionally	Regularly	Often
Disinfectants	Never	Hardly ever	Occasionally	<u>Regularly</u>	Often
Window cleaners	Never	Hardly ever	<u>Occasionally</u>	Regularly	Often
Spray-on oven cleaners	<u>Never</u>	Hardly ever	Occasionally	Regularly	Often
Nail polish remover	Never	<u>Hardly ever</u>	Occasionally	Regularly	Often
Hair sprays	<u>Never</u>	Hardly ever	Occasionally	Regularly	Often

42. Please check weekly cleaning practices:

Dusting ☒

Dry sweeping ☒

Vacuuming ☐

Polishing (furniture, etc) ☐

Washing/waxing floors ☐

Other _____

43. Other comments: _____

Outdoor Sources of Contamination:

Is there any stationary emission source in the vicinity of the home/structure? _____

Are there any mobile emission sources (e.g., highway; bus stop; high-traffic area) in the vicinity of the home/structure? _____

SAMPLING INFORMATION

Outside Temperature (°F): high around 30°F

Prevailing wind direction: _____

Describe the general weather conditions (e.g., sunny, cloudy, rain): overcast

Was there any significant precipitation (0.1 inches) within 12 hours preceding the sampling event? no

Type of ground cover (e.g., grass, pavement, etc.) outside the building: grass

Is there any other information about the structural features of this building, the habits of its occupants or potential sources of chemical contaminants to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building? _____

PRE-SAMPLING QUESTIONNAIRE AND INSTRUCTIONS

Indoor Air Assessment Survey

Date: 12-17-08

1. Name: Joni Marie Chastain
Address: 540 BASCA DRIVE MARTINSVILLE, INDIANA 46015
Home Phone: (765) 318-1254 Work Phone: _____
2. What is the best time to call to speak with you? Anytime At: Work ☐ or Home ☒
3. Are you the Owner ☒, Renter ☐, Other ☐ (please specify) _____ of this Home/Structure?
4. Total number of occupants/persons at this location? 5
Number of children? 3 Ages? 10 yrs. 3 yrs. 6 mo.
5. How long have you lived/worked at this location? 2 yrs. 1 mo.

General Home/Structure Description

6. Type of Home/Structure (check only one): Single Family Home ☒, Duplex ☐, Condominium ☐, Townhouse ☐, Retail Business ☐, Commercial/Industrial Business ☐, Other ☐
7. Home/Structure Description: number of floors 1 & 1/2 floors
Basement? Yes ☐ No ☒
If Yes, under how much of the house/structure area? _____ %
Crawl Space? Yes ☒ No ☐
If Yes, under how much of the house/structure area? 100 %
8. Age of Home/Structure: 55 years, Not sure/Unknown ☐
9. General Above-Ground Home/Structure construction (check all that apply):
Wood ☐, Brick ☐, Concrete ☐, Cement block ☒, Other ☐
10. Foundation Construction (check all that apply):
Concrete slab ☐
Fieldstone ☐
Concrete block ☒
Elevated above ground/grade ☐
Other crawl space

11. What is the source of your drinking water (check all that apply)?
 Public water supply ☒
 Private well ☐
 Bottled water ☒
 Other, please specify We usually drink bottled but cook/clean etc with public water.
12. Do you have a private well for purposes other than drinking?
 Yes ☐ No ☒
 If yes, please describe what you use the well for: _____
13. Do you have a septic system? Yes ☐ No ☒ Not used ☐ Unknown ☐
14. Do you have standing or flowing water outside the house/structure (pond, ditch, swale)?
 Yes ☐ No ☒

Basement Description, please check appropriate boxes.
If you do not have a basement go to question 22.

15. Is the basement finished ☐ or unfinished ☐?
16. If finished, how many rooms are in the basement? _____
 How many are used for more than 2 hours/day? _____
17. Is the basement floor (check all that apply) concrete ☐, tile ☐, carpeted ☐, dirt ☐, other (describe) _____?
18. Are the basement walls poured concrete ☐, cement block ☐, stone ☐, wood ☐, brick ☐, other _____?
19. Does the basement have a moisture problem (check one only)?
 Yes, frequently (3 or more times/yr) ☐
 Yes, occasionally (1-2 times/yr) ☐
 Yes, rarely (less than 1 time/yr) ☐
 No ☐
20. Does the basement ever flood (check one only)?
 Yes, frequently (3 or more times/yr) ☐
 Yes, occasionally (1-2 times/yr) ☐
 Yes, rarely (less than 1 time/yr) ☐
 No ☐
21. Does the basement have any of the following? (check all that apply) Floor cracks ☐, Wall cracks ☐, Sump ☐, Floor drain ☐, Other hole/opening in floor ☐ (describe) _____

22. Are any of the following used or stored in the home/structure (check all that apply). If yes, list their locations.

Paint ☐

Paint thinner ☐

Gasoline ☐

Solvents ☐

Laundry spot removers ☐

Pesticides ☐

Paint stripper/remover ☐

Metal degreaser/cleaner ☐

Diesel fuel ☐

Glue ☐

Drain cleaners ☐

23. Have you recently (within the last six months) done any painting or remodeling in your home/structure? Yes ☐ No ☒

If yes, please specify what was done, where, and what month:

24. Have you installed new carpeting in your home/structure within the last year

Yes ☒ No ☐

If yes, when and where? Hall / Stairs / Upper floor / Lower EASTERN BDRM.
MAY 2008

25. Do you regularly use or work in a dry cleaning service (check only one box)?

Yes, use dry-cleaning regularly (at least weekly) ☐

Yes, use dry-cleaning infrequently (monthly or less) ☐

Yes, work at a dry cleaning service ☐

No ☒

26. Does anyone in your home/structure use solvents at work?

Yes ☐ If yes, how many persons _____

No ☒ If no, go to question 28

27. If yes for question 26 above, are the work clothes washed at home or in the structure?

Yes ☐ No ☐

28. Where is the washer/dryer located?

Basement ☐

Upstairs utility room ☒

Kitchen ☐

Garage ☐

Use a Laundromat ☐

Other, please specify ☐

29. If you have a dryer, is it vented to the outdoors? Yes ☒ No ☐

30. What type(s) of home heating do you have (check all that apply)
 Fuel type: Gas ☒, Oil ☐, Electric ☒, Wood ☐, Coal ☐, Other _____
 Heat conveyance system:
 Forced hot air ☒ *room heaters*
 Forced hot water ☐ *portable*
 Steam ☐
 Radiant floor heat ☐
 Wood stove ☐
 Coal furnace ☐
 Fireplace ☐
 Other ☐
31. Do you have air conditioning? Yes ☒ No ☐. If yes, please check the appropriate type(s)
 Central air conditioning ☐
 Window air conditioning unit(s) ☒
 Other please specify _____
32. ? Do you use any of the following? Room fans ☐, Ceiling fans ☒, Attic fan ☐
 Do you ventilate using the fan-only mode of your central air conditioning or forced air heating system? Yes ☐ No ☐
33. Has your home/structure had termite or other pesticide treatment: Yes ☒ No ☐
 Unknown ☐
 If yes, please specify type of pest controlled, Termites and
 approximate date of service Last treatment (bait) installed over 1 yr. ago
34. Water Heater Type: Gas ☐, Electric ☒, By furnace ☐, Other _____
 Water heater location: Basement ☐, Upstairs utility room ☐, Garage ☒, Other (please describe) My bedroom closet
35. What type of cooking appliance do you have? Electric ☐, Gas ☒, Other _____
36. Is there a stove exhaust hood present? Yes ☒ No ☐
 Does it vent to the outdoors? Yes ☐ No ☒
37. Smoking in Home/Structure:
 None ☒, Rare (only guests) ☐, Moderate (residents light smokers) ☐, Heavy (at least one heavy smoker in household) ☐
38. If yes to above, what do they smoke?
 Cigarettes ☐ Cigars ☐
 Pipe ☐ Other ☐
39. Do you regularly use air fresheners? Yes ☒ No ☐
in the bathroom only. "

40. Does anyone in the home/structure have indoor hobbies or work tasks involving:
 None ☒, Heating ☐, soldering ☐, welding ☐, model glues ☐, paint ☐, spray paint ☐,
 wood finishing ☐, Other ☐ Please specify what type of hobby: _____

41. General family/home/worker use of consumer products (please circle appropriate):
 Assume that **Never** = never used, **Hardly ever** = less than once/month, **Occasionally** =
 about once/month, **Regularly** = about once/week, and **Often** = more than once/week.

<u>Product</u>	<u>Frequency of Use</u>				
	Never	Hardly ever	Occasionally	Regularly	Often
Spray-on deodorant	Never	Hardly ever	Occasionally	Regularly	Often
Aerosol deodorizers	Never	Hardly ever	Occasionally	Regularly	Often
Insecticides	Never	Hardly ever	Occasionally	Regularly	Often
Disinfectants	Never	Hardly ever	Occasionally	Regularly	Often
Window cleaners	Never	Hardly ever	Occasionally	Regularly	Often
Spray-on oven cleaners	Never	Hardly ever	Occasionally	Regularly	Often
Nail polish remover	Never	Hardly ever	Occasionally	Regularly	Often
Hair sprays	Never	Hardly ever	Occasionally	Regularly	Often

42. Please check ~~weekly~~ cleaning practices:

Dusting	☒ <u>monthly</u>
Dry sweeping	☐
Vacuuming	☒ <u>EVERY OTHER WEEK</u>
Polishing (furniture, etc)	☐
Washing/waxing floors	☒ <u>BLEACH</u>
Other	_____

43. Other comments: _____

Outdoor Sources of Contamination:

Is there any stationary emission source in the vicinity of the home/structure? NO

Are there any mobile emission sources (e.g., highway; bus stop; high-traffic area) in the vicinity of the home/structure? NO

SAMPLING INFORMATION

Outside Temperature (°F): _____

Prevailing wind direction: _____

Describe the general weather conditions (e.g., sunny, cloudy, rain): _____

Was there any significant precipitation (0.1 inches) within 12 hours preceding the sampling event? _____

Type of ground cover (e.g., grass, pavement, etc.) outside the building: _____

Is there any other information about the structural features of this building, the habits of its occupants or potential sources of chemical contaminants to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building? _____

Instructions for Residents
(to be followed starting at least 48 hours prior to and during the sampling event)

- Do not open windows, fireplace openings or vents.
- Do not keep exterior doors open.
- Do not operate ventilation fans or air conditioning.
- Do not use air fresheners or odor eliminators.
- Do not smoke in the house/structure.
- 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, all-purpose cleaners, floor cleaners).
- Do not use cosmetics, including hair spray, nail polish remover, perfume, etc.
- Do not partake in indoor hobbies or work tasks that use solvents.
- Do not apply pesticides.
- Do not store containers of gasoline, oil or petroleum-based or other solvents within the house/structure or attached (except for fuel oil tanks).
- Do not operate or store gasoline/diesel powered equipment (i.e., automobiles, lawn mowers) in the house/structure or attached garage.

PRE-SAMPLING QUESTIONNAIRE AND INSTRUCTIONS

Indoor Air Assessment Survey

Date: 12-22-08

1. Name: Stephen & Stephanie Brock
Address: 1334 Cloie Drive
Martinsville, IN 46151
Home Phone: 765-342-1250 Work Phone: 317-834-5044
2. What is the best time to call to speak with you? evening At: Work ☐ or Home ☒
3. Are you the Owner ☒, Renter ☐, Other ☐ (please specify) _____ of this Home/Structure?
4. Total number of occupants/persons at this location? 4
Number of children? 2 Ages? 12 & 11
5. How long have you lived/worked at this location? 16 years

General Home/Structure Description

6. Type of Home/Structure (check only one): Single Family Home ☒, Duplex ☐, Condominium ☐, Townhouse ☐, Retail Business ☐, Commercial/Industrial Business ☐, Other ☐ _____
7. Home/Structure Description: number of floors Ranch style home
Basement? Yes ☐ No ☒
If Yes, under how much of the house/structure area? _____ %
Crawl Space? Yes ☒ No ☐
If Yes, under how much of the house/structure area? 100 %
8. Age of Home/Structure: 56 years, Not sure/Unknown ☐
9. General Above-Ground Home/Structure construction (check all that apply):
Wood ☒, Brick ☐, Concrete ☐, Cement block ☐, Other ☐ _____
10. Foundation Construction (check all that apply):
Concrete slab ☐
Fieldstone ☐
Concrete block ☒
Elevated above ground/grade ☐
Other _____

11. What is the source of your drinking water (check all that apply)?
 Public water supply ☒
 Private well ☐
 Bottled water ☐
 Other, please specify _____
12. Do you have a private well for purposes other than drinking?
 Yes ☐ No ☒
 If yes, please describe what you use the well for: _____
13. Do you have a septic system? Yes ☒ No ☐ Not used ☐ Unknown ☒
14. Do you have standing or flowing water outside the house/structure (pond, ditch, swale)?
 Yes ☐ No ☒

Basement Description, please check appropriate boxes.
If you do not have a basement go to question 22.

15. Is the basement finished ☐ or unfinished ☐?
16. If finished, how many rooms are in the basement? _____
 How many are used for more than 2 hours/day? _____
17. Is the basement floor (check all that apply) concrete ☐, tile ☐, carpeted ☐, dirt ☐, other (describe) _____?
18. Are the basement walls poured concrete ☐, cement block ☐, stone ☐, wood ☐, brick ☐, other _____?
19. Does the basement have a moisture problem (check one only)?
 Yes, frequently (3 or more times/yr) ☐
 Yes, occasionally (1-2 times/yr) ☐
 Yes, rarely (less than 1 time/yr) ☐
 No ☐
20. Does the basement ever flood (check one only)?
 Yes, frequently (3 or more times/yr) ☐
 Yes, occasionally (1-2 times/yr) ☐
 Yes, rarely (less than 1 time/yr) ☐
 No ☐
21. Does the basement have any of the following? (check all that apply) Floor cracks ☐,
 Wall cracks ☐, Sump ☐, Floor drain ☐, Other hole/opening in floor ☐ (describe) _____

22. Are any of the following used or stored in the home/structure (check all that apply). If yes, list their locations.

Paint ☐

Paint thinner ☐

Gasoline ☐

Solvents ☐

Laundry spot removers ☒

Pesticides ☐

Paint stripper/remover ☐

Metal degreaser/cleaner ☐

Diesel fuel ☐

Glue ☐

Drain cleaners ☒ kitchen

23. Have you recently (within the last six months) done any painting or remodeling in your home/structure? Yes ☒ No ☐

If yes, please specify what was done, where, and what month:

Painted children's rooms Nov. '08

24. Have you installed new carpeting in your home/structure within the last year
Yes ☐ No ☒

If yes, when and where? _____

25. Do you regularly use or work in a dry cleaning service (check only one box)?

Yes, use dry-cleaning regularly (at least weekly) ☐

Yes, use dry-cleaning infrequently (monthly or less) ☐

Yes, work at a dry cleaning service ☐

No ☒

26. Does anyone in your home/structure use solvents at work?

Yes ☐

If yes, how many persons _____

No ☒

If no, go to question 28

27. If yes for question 26 above, are the work clothes washed at home or in the structure?

Yes ☐ No ☐

28. Where is the washer/dryer located?

Basement ☐

Upstairs utility room ☐

Kitchen ☐

Garage ☐

Use a Laundromat ☐

Other, please specify ☒ Laundry Room

29. If you have a dryer, is it vented to the outdoors? Yes ☒ No ☐

30. What type(s) of home heating do you have (check all that apply)
 Fuel type: Gas ☒, Oil ☐, Electric ☐, Wood ☐, Coal ☐, Other _____
 Heat conveyance system:
 Forced hot air ☐
 Forced hot water ☐
 Steam ☐
 Radiant floor heat ☐
 Wood stove ☐
 Coal furnace ☐
 Fireplace ☐
 Other ☐
31. Do you have air conditioning? Yes ☒ No ☐. If yes, please check the appropriate type(s)
 Central air conditioning ☒
 Window air conditioning unit(s) ☐
 Other please specify _____
32. Do you use any of the following? Room fans ☐, Ceiling fans ☒, Attic fan ☐
 Do you ventilate using the fan-only mode of your central air conditioning or forced air heating system? Yes ☒ No ☐
33. Has your home/structure had termite or other pesticide treatment: Yes ☐ No ☒
 Unknown ☐
 If yes, please specify type of pest controlled. _____ and
 approximate date of service _____
34. Water Heater Type: Gas ☒, Electric ☐, By furnace ☐, Other _____
 Water heater location: Basement ☐, Upstairs utility room ☐, Garage ☐, Other (please describe) _____
35. What type of cooking appliance do you have? Electric ☐, Gas ☒, Other _____
36. Is there a stove exhaust hood present? Yes ☒ No ☐
 Does it vent to the outdoors? Yes ☐ No ☐
37. Smoking in Home/Structure:
 None ☒, Rare (only guests) ☐, Moderate (residents light smokers) ☐, Heavy (at least one heavy smoker in household) ☐
38. If yes to above, what do they smoke?
 Cigarettes ☐ Cigars ☐
 Pipe ☐ Other ☐
39. Do you regularly use air fresheners? Yes ☒ No ☐

40. Does anyone in the home/structure have indoor hobbies or work tasks involving:
 None ☒, Heating ☐, soldering ☐, welding ☐, model glues ☐, paint ☐, spray paint ☐,
 wood finishing ☐, Other ☐ Please specify what type of hobby: _____

41. General family/home/worker use of consumer products (please circle appropriate):
 Assume that **Never** = never used, **Hardly ever** = less than once/month, **Occasionally** =
 about once/month, **Regularly** = about once/week, and **Often** = more than once/week.

<u>Product</u>		<u>Frequency of Use</u>			
Spray-on deodorant	Never	Hardly ever	Occasionally	Regularly	Often
Aerosol deodorizers	Never	Hardly ever	Occasionally	Regularly	Often
Insecticides	Never	Hardly ever	Occasionally	Regularly	Often
Disinfectants	Never	Hardly ever	Occasionally	Regularly	Often
Window cleaners	Never	Hardly ever	Occasionally	Regularly	Often
Spray-on oven cleaners	Never	Hardly ever	Occasionally	Regularly	Often
Nail polish remover	Never	Hardly ever	Occasionally	Regularly	Often
Hair sprays	Never	Hardly ever	Occasionally	Regularly	Often

42. Please check weekly cleaning practices:

Dusting ☐

Dry sweeping ☐

Vacuuming ☒

Polishing (furniture, etc) ☐

Washing/waxing floors ☐

Other _____

43. Other comments: _____

Outdoor Sources of Contamination:

Is there any stationary emission source in the vicinity of the home/structure? no

Are there any mobile emission sources (e.g., highway; bus stop; high-traffic area) in the vicinity of the home/structure? yes Apprx 300 yds away

SAMPLING INFORMATION

Outside Temperature (°F): _____

Prevailing wind direction: _____

Describe the general weather conditions (e.g., sunny, cloudy, rain): _____

Was there any significant precipitation (0.1 inches) within 12 hours preceding the sampling event? _____

Type of ground cover (e.g., grass, pavement, etc.) outside the building: _____

Is there any other information about the structural features of this building, the habits of its occupants or potential sources of chemical contaminants to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building? _____

Instructions for Residents
(to be followed starting at least 48 hours prior to and during the sampling event)

- Do not open windows, fireplace openings or vents.
- Do not keep doors open.
- Do not operate ventilation fans or air conditioning.
- Do not use air fresheners or odor eliminators.
- Do not smoke in the house/structure.
- 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, all-purpose cleaners, floor cleaners).
- Do not use cosmetics, including hair spray, nail polish remover, perfume, etc.
- Do not partake in indoor hobbies or work tasks that use solvents.
- Do not apply pesticides.
- Do not store containers of gasoline, oil or petroleum-based or other solvents within the house/structure or attached (except for fuel oil tanks).
- Do not operate or store gasoline/diesel powered equipment (i.e., automobiles, lawn mowers) in the house/structure or attached garage.

PRE-SAMPLING QUESTIONNAIRE AND INSTRUCTIONS

Indoor Air Assessment Survey

Date: 12/15/2008

1. Name: STEVE QUAKENBUSH
Address: 1354 CLORE DRIVE
Home Phone: 765-3425803 Work Phone: _____
2. What is the best time to call to speak with you? 6 pm At: Work ☐ or Home ☒
3. Are you the Owner ☒, Renter ☐, Other ☐ (please specify) _____ of this Home/Structure?
4. Total number of occupants/persons at this location? Two
Number of children? _____ Ages? _____
5. How long have you lived/worked at this location? 18 yrs.

General Home/Structure Description

6. Type of Home/Structure (check only one): Single Family Home ☒, Duplex ☐, Condominium ☐, Townhouse ☐, Retail Business ☐, Commercial/Industrial Business ☐, Other ☐ _____
7. Home/Structure Description: number of floors ONE
Basement? Yes ☐ No ☒
If Yes, under how much of the house/structure area? _____ %
Crawl Space? Yes ☒ No ☐
If Yes, under how much of the house/structure area? 80 %
8. Age of Home/Structure: 40 years, Not sure/Unknown ☐
9. General Above-Ground Home/Structure construction (check all that apply):
Wood ☒, Brick ☒, Concrete ☒, Cement block ☒, Other ☐ _____
10. Foundation Construction (check all that apply):
Concrete slab ☐
Fieldstone ☐
Concrete block ☒
Elevated above ground/grade ☐
Other _____

11. What is the source of your drinking water (check all that apply)?
 Public water supply ☒
 Private well ☐
 Bottled water ☐
 Other, please specify _____
12. Do you have a private well for purposes other than drinking?
 Yes ☐ No ☒
 If yes, please describe what you use the well for: _____
13. Do you have a septic system? Yes ☐ No ☒ Not used ☐ Unknown ☐
14. Do you have standing or flowing water outside the house/structure (pond, ditch, swale)?
 Yes ☐ No ☒

Basement Description, please check appropriate boxes.
If you do not have a basement go to question 22.

15. Is the basement finished ☐ or unfinished ☐?
16. If finished, how many rooms are in the basement? _____
 How many are used for more than 2 hours/day? _____
17. Is the basement floor (check all that apply) concrete ☐, tile ☐, carpeted ☐, dirt ☐, other (describe) _____?
18. Are the basement walls poured concrete ☐, cement block ☐, stone ☐, wood ☐, brick ☐, other _____?
19. Does the basement have a moisture problem (check one only)?
 Yes, frequently (3 or more times/yr) ☐
 Yes, occasionally (1-2 times/yr) ☐
 Yes, rarely (less than 1 time/yr) ☐
 No ☐
20. Does the basement ever flood (check one only)?
 Yes, frequently (3 or more times/yr) ☐
 Yes, occasionally (1-2 times/yr) ☐
 Yes, rarely (less than 1 time/yr) ☐
 No ☐
21. Does the basement have any of the following? (check all that apply) Floor cracks ☐,
 Wall cracks ☐, Sump ☐, Floor drain ☐, Other hole/opening in floor ☐ (describe) _____

22. Are any of the following used or stored in the home/structure (check all that apply). If yes, list their locations.

Paint ☐
Paint thinner ☐
Gasoline ☐
Solvents ☐
Laundry spot removers ☐
Pesticides ☒

Paint stripper/remover ☐
Metal degreaser/cleaner ☐
Diesel fuel ☐
Glue ☐
Drain cleaners ☒

23. Have you recently (within the last six months) done any painting or remodeling in your home/structure? Yes ☐ No ☒

If yes, please specify what was done, where, and what month:

24. Have you installed new carpeting in your home/structure within the last year
Yes ☐ No ☒
If yes, when and where? _____

25. Do you regularly use or work in a dry cleaning service (check only one box)?
Yes, use dry-cleaning regularly (at least weekly) ☐
Yes, use dry-cleaning infrequently (monthly or less) ☐
Yes, work at a dry cleaning service ☐
No ☒

26. Does anyone in your home/structure use solvents at work?
Yes ☐ If yes, how many persons _____
No ☒ If no, go to question 28

27. If yes for question 26 above, are the work clothes washed at home or in the structure?
Yes ☐ No ☒

28. Where is the washer/dryer located?

Basement ☐
Upstairs utility room ☐
Kitchen ☐
Garage ☒
Use a Laundromat ☐
Other, please specify ☒

DRYER

WASHER UTILITY ROOM / DRYER GA

29. If you have a dryer, is it vented to the outdoors? Yes ☒ No ☐

30. What type(s) of home heating do you have (check all that apply)
 Fuel type: Gas ☒, Oil ☐, Electric ☐, Wood ☐, Coal ☐, Other _____
 Heat conveyance system:
 Forced hot air ☒
 Forced hot water ☐
 Steam ☐
 Radiant floor heat ☐
 Wood stove ☐
 Coal furnace ☐
 Fireplace ☐
 Other ☐
31. Do you have air conditioning? Yes ☒ No ☐. If yes, please check the appropriate type(s)
 Central air conditioning ☒
 Window air conditioning unit(s) ☐
 Other please specify _____
32. Do you use any of the following? Room fans ☐, Ceiling fans ☒, Attic fan ☒
 Do you ventilate using the fan-only mode of your central air conditioning or forced air heating system? Yes ☐ No ☒
33. Has your home/structure had termite or other pesticide treatment: Yes ☒ No ☐
 Unknown ☐
 If yes, please specify type of pest controlled, _____ and
 approximate date of service NOT IN LAST 18 YRS.
34. Water Heater Type: Gas ☒, Electric ☐, By furnace ☐, Other _____
 Water heater location: Basement ☐, Upstairs utility room ☐, Garage ☐, Other (please describe) _____
35. What type of cooking appliance do you have? Electric ☒, Gas ☐, Other _____
36. Is there a stove exhaust hood present? Yes ☒ No ☐
 Does it vent to the outdoors? Yes ☐ No ☒
37. Smoking in Home/Structure:
 None ☒, Rare (only guests) ☐, Moderate (residents light smokers) ☐, Heavy (at least one heavy smoker in household) ☐
38. If yes to above, what do they smoke?
 Cigarettes ☐ Cigars ☐
 Pipe ☐ Other ☐
39. Do you regularly use air fresheners? Yes ☒ No ☐

40. Does anyone in the home/structure have indoor hobbies or work tasks involving:
 None ☒, Heating ☐, soldering ☐, welding ☐, model glues ☐, paint ☐, spray paint ☐,
 wood finishing ☐, Other ☐ Please specify what type of hobby: _____

41. General family/home/worker use of consumer products (please circle appropriate):
 Assume that **Never** = never used, **Hardly ever** = less than once/month, **Occasionally** =
 about once/month, **Regularly** = about once/week, and **Often** = more than once/week.

<u>Product</u>		<u>Frequency of Use</u>			
Spray-on deodorant	Never	Hardly ever	Occasionally	Regularly	Often
Aerosol deodorizers	Never	Hardly ever	Occasionally	Regularly	Often
Insecticides	Never	Hardly ever	Occasionally	Regularly	Often
Disinfectants	Never	Hardly ever	Occasionally	Regularly	Often
Window cleaners	Never	Hardly ever	Occasionally	Regularly	Often
Spray-on oven cleaners	Never	Hardly ever	Occasionally	Regularly	Often
Nail polish remover	Never	Hardly ever	Occasionally	Regularly	Often
Hair sprays	Never	Hardly ever	Occasionally	Regularly	Often

42. Please check weekly cleaning practices:

Dusting ☒
 Dry sweeping ☒
 Vacuuming ☒
 Polishing (furniture, etc) ☐
 Washing/waxing floors ☐
 Other _____

43. Other comments: _____

Outdoor Sources of Contamination:

Is there any stationary emission source in the vicinity of the home/structure? _____

Are there any mobile emission sources (e.g., highway; bus stop; high-traffic area) in the vicinity of the home/structure? _____

Instructions for Residents
(to be followed starting at least 48 hours prior to and during the sampling event)

- Do not open windows, fireplace openings or vents.
- Do not keep doors open.
- Do not operate ventilation fans or air conditioning.
- Do not use air fresheners or odor eliminators.
- Do not smoke in the house/structure.
- 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, all-purpose cleaners, floor cleaners).
- Do not use cosmetics, including hair spray, nail polish remover, perfume, etc.
- Do not partake in indoor hobbies or work tasks that use solvents.
- Do not apply pesticides.
- Do not store containers of gasoline, oil or petroleum-based or other solvents within the house/structure or attached (except for fuel oil tanks).
- Do not operate or store gasoline/diesel powered equipment (i.e., automobiles, lawn mowers) in the house/structure or attached garage.

SAMPLING INFORMATION

Outside Temperature (°F): 20 - 30

Prevailing wind direction: Westerly

Describe the general weather conditions (e.g., sunny, cloudy, rain): Overcast

Was there any significant precipitation (0.1 inches) within 12 hours preceding the sampling event? No

Type of ground cover (e.g., grass, pavement, etc.) outside the building: Grass

Is there any other information about the structural features of this building, the habits of its occupants or potential sources of chemical contaminants to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building? _____

Instructions for Residents
(to be followed starting at least 48 hours prior to and during the sampling event)

- Do not open windows, fireplace openings or vents.
- Do not keep exterior doors open.
- Do not operate ventilation fans or air conditioning.
- Do not use air fresheners or odor eliminators.
- Do not smoke in the house/structure.
- 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, all-purpose cleaners, floor cleaners).
- Do not use cosmetics, including hair spray, nail polish remover, perfume, etc.
- Do not partake in indoor hobbies or work tasks that use solvents.
- Do not apply pesticides.
- Do not store containers of gasoline, oil or petroleum-based or other solvents within the house/structure or attached (except for fuel oil tanks).
- Do not operate or store gasoline/diesel powered equipment (i.e., automobiles, lawn mowers) in the house/structure or attached garage.

PRE-SAMPLING QUESTIONNAIRE AND INSTRUCTIONS

Indoor Air Assessment Survey

Date: 1-11-09

1. Name: Nadine Ferguson
Address: 1385 Close St Martinsville In 40151
Home Phone: cell 765-318-3044 Work Phone: 765-342-8435
2. What is the best time to call to speak with you? 8-5 WTH At: Work ☐ or Home ☒ After 5 PM
3. Are you the Owner ☒, Renter ☐, Other ☐ (please specify) _____ of this Home/Structure?
4. Total number of occupants/persons at this location? 2
Number of children? 1 Ages? 13
5. How long have you lived/worked at this location? 13 yrs

General Home/Structure Description

6. Type of Home/Structure (check only one): Single Family Home ☒, Duplex ☐, Condominium ☐, Townhouse ☐, Retail Business ☐, Commercial/Industrial Business ☐, Other ☐ _____
7. Home/Structure Description: number of floors 1
Basement? Yes ☐ No ☒
If Yes, under how much of the house/structure area? _____ %
Crawl Space? Yes ☒ No ☐
If Yes, under how much of the house/structure area? _____ % 28/ocks
8. Age of Home/Structure: 44 years, Not sure/Unknown ☐
9. General Above-Ground Home/Structure construction (check all that apply):
Wood ☐, Brick ☒, Concrete ☐, Cement block ☐, Other ☐ _____
10. Foundation Construction (check all that apply):
Concrete slab ☐
Fieldstone ☐
Concrete block ☒
Elevated above ground/grade ☐
Other _____

11. What is the source of your drinking water (check all that apply)?
 Public water supply ☒
 Private well ☐
 Bottled water ☒
 Other, please specify _____
12. Do you have a private well for purposes other than drinking?
 Yes ☐ No ☒
 If yes, please describe what you use the well for: _____
13. Do you have a septic system? Yes ☐ No ☒ Not used ☐ Unknown ☐
14. Do you have standing or flowing water outside the house/structure (pond, ditch, swale)?
 Yes ☐ No ☒

Basement Description, please check appropriate boxes.

If you do not have a basement go to question 22.

15. Is the basement finished ☐ or unfinished ☐?
16. If finished, how many rooms are in the basement? _____
 How many are used for more than 2 hours/day? _____
17. Is the basement floor (check all that apply) concrete ☐, tile ☐, carpeted ☐, dirt ☐, other (describe) _____?
18. Are the basement walls poured concrete ☐, cement block ☐, stone ☐, wood ☐, brick ☐, other _____?
19. Does the basement have a moisture problem (check one only)?
 Yes, frequently (3 or more times/yr) ☐
 Yes, occasionally (1-2 times/yr) ☐
 Yes, rarely (less than 1 time/yr) ☐
 No ☐
20. Does the basement ever flood (check one only)?
 Yes, frequently (3 or more times/yr) ☐
 Yes, occasionally (1-2 times/yr) ☐
 Yes, rarely (less than 1 time/yr) ☐
 No ☐
21. Does the basement have any of the following? (check all that apply) Floor cracks ☐, Wall cracks ☐, Sump ☐, Floor drain ☐, Other hole/opening in floor ☐ (describe) _____

22. Are any of the following used or stored in the home/structure (check all that apply). If yes, list their locations.

Paint ☒
Paint thinner ☐
Gasoline ☐
Solvents ☐
Laundry spot removers ☐
Pesticides ☒

Paint stripper/remover ☐
Metal degreaser/cleaner ☐
Diesel fuel ☐
Glue ☐
Drain cleaners ☒

23. Have you recently (within the last six months) done any painting or remodeling in your home/structure? Yes ☒ No ☐

If yes, please specify what was done, where, and what month:

(Paint) Front Room

24. Have you installed new carpeting in your home/structure within the last year
Yes ☒ No ☐

If yes, when and where? 4 Bedrooms June 2008

25. Do you regularly use or work in a dry cleaning service (check only one box)?

Yes, use dry-cleaning regularly (at least weekly) ☐
Yes, use dry-cleaning infrequently (monthly or less) ☐
Yes, work at a dry cleaning service ☐
No ☒

26. Does anyone in your home/structure use solvents at work?

Yes ☐ If yes, how many persons _____
No ☒ If no, go to question 28

27. If yes for question 26 above, are the work clothes washed at home or in the structure?
Yes ☐ No ☐

28. Where is the washer/dryer located?

Basement ☐
Upstairs utility room ☐
Kitchen ☐
Garage ☐
Use a Laundromat ☐
Other, please specify ☒ Located In what used to be garage

29. If you have a dryer, is it vented to the outdoors? Yes ☒ No ☐

30. What type(s) of home heating do you have (check all that apply)
 Fuel type: Gas ☒, Oil ☐, Electric ☐, Wood ☐, Coal ☐, Other _____
 Heat conveyance system:
 Forced hot air ☒
 Forced hot water ☐
 Steam ☐
 Radiant floor heat ☐
 Wood stove ☐
 Coal furnace ☐
 Fireplace ☐
 Other ☐
31. Do you have air conditioning? Yes ☒ No ☐. If yes, please check the appropriate type(s)
 Central air conditioning ☒
 Window air conditioning unit(s) ☐
 Other please specify _____
32. Do you use any of the following? Room fans ☐, Ceiling fans ☒, Attic fan ☐
 Do you ventilate using the fan-only mode of your central air conditioning or forced air heating system? Yes ☐ No ☒
33. Has your home/structure had termite or other pesticide treatment: Yes ☒ No ☐
 Unknown ☐
 If yes, please specify type of pest controlled, ? and
 approximate date of service 2006 Last check And Treatment
34. Water Heater Type: Gas ☒, Electric ☐, By furnace ☐, Other _____
 Water heater location: Basement ☐, Upstairs utility room ☐, Garage ☒, Other (please describe) Closet 1st Floor
35. What type of cooking appliance do you have? Electric ☒, Gas ☐, Other _____
36. Is there a stove exhaust hood present? Yes ☐ No ☒
 Does it vent to the outdoors? Yes ☐ No ☐
37. Smoking in Home/Structure:
 None ☒, Rare (only guests) ☐, Moderate (residents light smokers) ☐, Heavy (at least one heavy smoker in household) ☐
38. If yes to above, what do they smoke?
 Cigarettes ☐ Cigars ☐
 Pipe ☐ Other ☐
39. Do you regularly use air fresheners? Yes ☒ No ☐

40. Does anyone in the home/structure have indoor hobbies or work tasks involving:
 None ☒, Heating ☐, soldering ☐, welding ☐, model glues ☐, paint ☐, spray paint ☐,
 wood finishing ☐, Other ☐ Please specify what type of hobby: _____

41. General family/home/worker use of consumer products (please circle appropriate):
 Assume that **Never** = never used, **Hardly ever** = less than once/month, **Occasionally** =
 about once/month, **Regularly** = about once/week, and **Often** = more than once/week.

<u>Product</u>	<u>Frequency of Use</u>				
Spray-on deodorant	<u>Never</u>	Hardly ever	Occasionally	Regularly	Often
Aerosol deodorizers	Never	Hardly ever	Occasionally	Regularly	<u>Often</u>
Insecticides	<u>Never</u>	Hardly ever	Occasionally	Regularly	Often
Disinfectants	Never	Hardly ever	Occasionally	<u>Regularly</u>	Often
Window cleaners	<u>Never</u>	Hardly ever	Occasionally	Regularly	Often
Spray-on oven cleaners	<u>Never</u>	Hardly ever	Occasionally	Regularly	Often
Nail polish remover	Never	Hardly ever	<u>Occasionally</u>	Regularly	Often
Hair sprays	Never	<u>Hardly ever</u>	Occasionally	Regularly	Often

42. Please check weekly cleaning practices:

Dusting ☐
 Dry sweeping ☒
 Vacuuming ☒
 Polishing (furniture, etc) ☐
 Washing/waxing floors ☐
 Other _____

43. Other comments: _____

Outdoor Sources of Contamination: ?

Is there any stationary emission source in the vicinity of the home/structure? _____

Are there any mobile emission sources (e.g., highway; bus stop; high-traffic area) in the vicinity of the home/structure? _____

SAMPLING INFORMATION

Outside Temperature (°F): _____

Prevailing wind direction: _____

Describe the general weather conditions (e.g., sunny, cloudy, rain): _____

Was there any significant precipitation (0.1 inches) within 12 hours preceding the sampling event? _____

Type of ground cover (e.g., grass, pavement, etc.) outside the building: _____

Is there any other information about the structural features of this building, the habits of its occupants or potential sources of chemical contaminants to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building? _____

PRE-SAMPLING QUESTIONNAIRE AND INSTRUCTIONS

Indoor Air Assessment Survey

Date: _____

1. Name: Barbara Swcany
Address: 1399 Clove Dr
MARIETTA IN 46151
Home Phone: 765-342-3815 Work Phone: 765-722-1027
2. What is the best time to call to speak with you? anytime At: Work ☐ or Home ☐?
3. Are you the Owner ☒, Renter ☐, Other ☐ (please specify) _____ of this Home/Structure?
4. Total number of occupants/persons at this location? 2
Number of children? 0 Ages? _____
5. How long have you lived/worked at this location? 50+ years

General Home/Structure Description

6. Type of Home/Structure (check only one): Single Family Home ☒, Duplex ☐, Condominium ☐, Townhouse ☐, Retail Business ☐, Commercial/Industrial Business ☐, Other ☐ _____
7. Home/Structure Description: number of floors 1
Basement? Yes ☒ No ☐
If Yes, under how much of the house/structure area? 50 %
Crawl Space? Yes ☒ No ☐
If Yes, under how much of the house/structure area? 50 %
8. Age of Home/Structure: 50+ years, Not sure/Unknown ☐
9. General Above-Ground Home/Structure construction (check all that apply):
Wood ☒, Brick ☐, Concrete ☐, Cement block ☐, Other ☐ _____
10. Foundation Construction (check all that apply):
Concrete slab ☐
Fieldstone ☐
Concrete block ☒
Elevated above ground/grade ☐
Other _____

11. What is the source of your drinking water (check all that apply)?
 Public water supply ☒
 Private well ☐
 Bottled water ☐
 Other, please specify _____
12. Do you have a private well for purposes other than drinking?
 Yes ☐ No ☒
 If yes, please describe what you use the well for: _____
13. Do you have a septic system? Yes ☐ No ☒ Not used ☐ Unknown ☐
14. Do you have standing or flowing water outside the house/structure (pond, ditch, swale)?
 Yes ☐ No ☒

Basement Description, please check appropriate boxes.

If you do not have a basement go to question 22.

15. Is the basement finished ☐ or unfinished ☒?
16. If finished, how many rooms are in the basement? _____
 How many are used for more than 2 hours/day? _____
17. Is the basement floor (check all that apply) concrete ☒, tile ☐, carpeted ☐, dirt ☐, other (describe) _____?
18. Are the basement walls poured concrete ☐, cement block ☒, stone ☐, wood ☐, brick ☐, other _____?
19. Does the basement have a moisture problem (check one only)?
 Yes, frequently (3 or more times/yr) ☐
 Yes, occasionally (1-2 times/yr) ☐
 Yes, rarely (less than 1 time/yr) ☒
 No ☐
20. Does the basement ever flood (check one only)?
 Yes, frequently (3 or more times/yr) ☐
 Yes, occasionally (1-2 times/yr) ☐
 Yes, rarely (less than 1 time/yr) ☒
 No ☐
21. Does the basement have any of the following? (check all that apply) Floor cracks ☒, Wall cracks ☒, Sump ☒, Floor drain ☐, Other hole/opening in floor ☐ (describe) _____

22. Are any of the following used or stored in the home/structure (check all that apply). If yes, list their locations.

Paint ☒

Paint thinner ☐

Gasoline ☐

Solvents ☐

Laundry spot removers ☐

Pesticides ☐

Paint stripper/remover ☐

Metal degreaser/cleaner ☐

Diesel fuel ☐

Glue ☐

Drain cleaners ☐

23. Have you recently (within the last six months) done any painting or remodeling in your home/structure? Yes ☒ No ☐

If yes, please specify what was done, where, and what month:

Some painting of Basement walls due to Flood

24. Have you installed new carpeting in your home/structure within the last year

Yes ☐ No ☒

If yes, when and where? _____

25. Do you regularly use or work in a dry cleaning service (check only one box)?

Yes, use dry-cleaning regularly (at least weekly) ☐

Yes, use dry-cleaning infrequently (monthly or less) ☐

Yes, work at a dry cleaning service ☐

No ☒

26. Does anyone in your home/structure use solvents at work?

Yes ☐ If yes, how many persons _____

No ☒ If no, go to question 28

27. If yes for question 26 above, are the work clothes washed at home or in the structure?

Yes ☐ No ☐

28. Where is the washer/dryer located?

Basement ☐

Upstairs utility room ☒

Kitchen ☐

Garage ☐

Use a Laundromat ☐

Other, please specify ☐

29. If you have a dryer, is it vented to the outdoors? Yes ☒ No ☐

30. What type(s) of home heating do you have (check all that apply)
 Fuel type: Gas ☒, Oil ☐, Electric ☒, Wood ☐, Coal ☐, Other _____
 Heat conveyance system:
 Forced hot air ☒
 Forced hot water ☐
 Steam ☐
 Radiant floor heat ☐
 Wood stove ☐
 Coal furnace ☐
 Fireplace ☒ Gas
 Other ☐
31. Do you have air conditioning? Yes ☒ No ☐. If yes, please check the appropriate type(s)
 Central air conditioning ☒
 Window air conditioning unit(s) ☐
 Other please specify _____
32. Do you use any of the following? Room fans ☐, Ceiling fans ☒, Attic fan ☐
 Do you ventilate using the fan-only mode of your central air conditioning or forced air heating system? Yes ☐ No ☒
33. Has your home/structure had termite or other pesticide treatment: Yes ☐ No ☒
 Unknown ☐
 If yes, please specify type of pest controlled, _____ and
 approximate date of service _____
34. Water Heater Type: Gas ☒, Electric ☐, By furnace ☐, Other _____
 Water heater location: Basement ☒, Upstairs utility room ☐, Garage ☐, Other (please describe) _____
35. What type of cooking appliance do you have? Electric ☒, Gas ☐, Other _____
36. Is there a stove exhaust hood present? Yes ☐ No ☒
 Does it vent to the outdoors? Yes ☐ No ☐
37. Smoking in Home/Structure:
 None ☐, Rare (only guests) ☒, Moderate (residents light smokers) ☐, Heavy (at least one heavy smoker in household) ☐
38. If yes to above, what do they smoke?
 Cigarettes ☒ Cigars ☐
 Pipe ☐ Other ☐
39. Do you regularly use air fresheners? Yes ☒ No ☐

40. Does anyone in the home/structure have indoor hobbies or work tasks involving:
None ☒, Heating ☐, soldering ☐, welding ☐, model glues ☐, paint ☐, spray paint ☐,
wood finishing ☐, Other ☐ Please specify what type of hobby: _____

41. General family/home/worker use of consumer products (please circle appropriate):
Assume that **Never** = never used, **Hardly ever** = less than once/month, **Occasionally** =
about once/month, **Regularly** = about once/week, and **Often** = more than once/week.

<u>Product</u>	<u>Frequency of Use</u>				
Spray-on deodorant	<u>Never</u>	Hardly ever	Occasionally	Regularly	Often
Aerosol deodorizers	Never	<u>Hardly ever</u>	Occasionally	Regularly	Often
Insecticides	Never	<u>Hardly ever</u>	Occasionally	Regularly	Often
Disinfectants	Never	Hardly ever	<u>Occasionally</u>	Regularly	Often
Window cleaners	Never	Hardly ever	<u>Occasionally</u>	Regularly	Often
Spray-on oven cleaners	<u>Never</u>	Hardly ever	Occasionally	Regularly	Often
Nail polish remover	<u>Never</u>	Hardly ever	Occasionally	Regularly	Often
Hair sprays	Never	Hardly ever	<u>Occasionally</u>	Regularly	Often

42. Please check weekly cleaning practices:

Dusting ☒
Dry sweeping ☒
Vacuuming ☐
Polishing (furniture, etc) ☐
Washing/waxing floors ☐
Other _____

43. Other comments: _____

Outdoor Sources of Contamination:

Is there any stationary emission source in the vicinity of the home/structure? NO

Are there any mobile emission sources (e.g., highway; bus stop; high-traffic area) in the vicinity of the home/structure? NO

SAMPLING INFORMATION

Outside Temperature (°F): 20-30

Prevailing wind direction: West

Describe the general weather conditions (e.g., sunny, cloudy, rain): Overcast

Was there any significant precipitation (0.1 inches) within 12 hours preceding the sampling event? No

Type of ground cover (e.g., grass, pavement, etc.) outside the building: Grass

Is there any other information about the structural features of this building, the habits of its occupants or potential sources of chemical contaminants to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building? _____

PRE-SAMPLING QUESTIONNAIRE AND INSTRUCTIONS

Indoor Air Assessment Survey

Date: 12-15-08

1. Name: Christopher Thomas
Address: 309 S Oak St
Martinsville TN 37051
Home Phone: 262-342-0701 Work Phone: _____
2. What is the best time to call to speak with you? _____ At: Work ☐ or Home ☒
3. Are you the Owner ☒, Renter ☐, Other ☐ (please specify) _____ of this Home/Structure?
4. Total number of occupants/persons at this location? 2
Number of children? 0 Ages? _____
5. How long have you lived/worked at this location? 6

General Home/Structure Description

6. Type of Home/Structure (check only one): Single Family Home ☒, Duplex ☐, Condominium ☐, Townhouse ☐, Retail Business ☐, Commercial/Industrial Business ☐, Other ☐ _____
7. Home/Structure Description: number of floors 1
Basement? Yes ☐ No ☒
If Yes, under how much of the house/structure area? _____ %
Crawl Space? Yes ☒ No ☐
If Yes, under how much of the house/structure area? 90 %
8. Age of Home/Structure: _____ years, Not sure/Unknown ☒
9. General Above-Ground Home/Structure construction (check all that apply):
Wood ☐, Brick ☒, Concrete ☐, Cement block ☐, Other ☐ _____
10. Foundation Construction (check all that apply):
Concrete slab ☐
Fieldstone ☐
Concrete block ☐
Elevated above ground/grade ☒
Other _____

11. What is the source of your drinking water (check all that apply)?
 Public water supply ☒
 Private well ☐
 Bottled water ☐
 Other, please specify _____
12. Do you have a private well for purposes other than drinking?
 Yes ☐ No ☒
 If yes, please describe what you use the well for: _____
13. Do you have a septic system? Yes ☐ No ☒ Not used ☐ Unknown ☐
14. Do you have standing or flowing water outside the house/structure (pond, ditch, swale)?
 Yes ☒ No ☐ *pond*

Basement Description, please check appropriate boxes.

If you do not have a basement go to question 22.

15. Is the basement finished ☐ or unfinished ☐?
16. If finished, how many rooms are in the basement? _____
 How many are used for more than 2 hours/day? _____
17. Is the basement floor (check all that apply) concrete ☐, tile ☐, carpeted ☐, dirt ☐, other (describe) _____?
18. Are the basement walls poured concrete ☐, cement block ☐, stone ☐, wood ☐, brick ☐, other _____?
19. Does the basement have a moisture problem (check one only)?
 Yes, frequently (3 or more times/yr) ☐
 Yes, occasionally (1-2 times/yr) ☐
 Yes, rarely (less than 1 time/yr) ☐
 No ☐
20. Does the basement ever flood (check one only)?
 Yes, frequently (3 or more times/yr) ☐
 Yes, occasionally (1-2 times/yr) ☐
 Yes, rarely (less than 1 time/yr) ☐
 No ☐
21. Does the basement have any of the following? (check all that apply) Floor cracks ☐,
 Wall cracks ☐, Sump ☐, Floor drain ☐, Other hole/opening in floor ☐ (describe) _____

22. Are any of the following used or stored in the home/structure (check all that apply). If yes, list their locations.

Paint ☒ *garage*
Paint thinner ☐ *garage*
Gasoline ☐
Solvents ☐
Laundry spot removers ☐
Pesticides ☐

Paint stripper/remover ☐
Metal degreaser/cleaner ☐
Diesel fuel ☐
Glue ☒ *garage*
Drain cleaners ☐

23. Have you recently (within the last six months) done any painting or remodeling in your home/structure? Yes ☒ No ☐

If yes, please specify what was done, where, and what month:

in Nov.

24. Have you installed new carpeting in your home/structure within the last year
Yes ☒ No ☐

If yes, when and where? in Living Room & in Nov 08

25. Do you regularly use or work in a dry cleaning service (check only one box)?

Yes, use dry-cleaning regularly (at least weekly) ☐

Yes, use dry-cleaning infrequently (monthly or less) ☐

Yes, work at a dry cleaning service ☐

No ☒

26. Does anyone in your home/structure use solvents at work?

Yes ☐ If yes, how many persons _____

No ☒ If no, go to question 28

27. If yes for question 26 above, are the work clothes washed at home or in the structure?

Yes ☐ No ☐

28. Where is the washer/dryer located?

Basement ☐

~~Upstairs~~ utility room ☒

Kitchen ☐

Garage ☐

Use a Laundromat ☐

Other, please specify ☐

29. If you have a dryer, is it vented to the outdoors? Yes ☒ No ☐

30. What type(s) of home heating do you have (check all that apply)
 Fuel type: Gas ☒, Oil ☐, Electric ☐, Wood ☐, Coal ☐, Other _____
 Heat conveyance system:
 Forced hot air ☒
 Forced hot water ☐
 Steam ☐
 Radiant floor heat ☐
 Wood stove ☐
 Coal furnace ☐
 Fireplace ☐
 Other ☐
31. Do you have air conditioning? Yes ☒ No ☐. If yes, please check the appropriate type(s)
 Central air conditioning ☒
 Window air conditioning unit(s) ☐
 Other please specify _____
32. Do you use any of the following? Room fans ☒, Ceiling fans ☐, Attic fan ☐
 Do you ventilate using the fan-only mode of your central air conditioning or forced air heating system? Yes ☐ No ☒
33. Has your home/structure had termite or other pesticide treatment: Yes ☐ No ☒
 Unknown ☐
 If yes, please specify type of pest controlled, _____ and
 approximate date of service _____
34. Water Heater Type: Gas ☒, Electric ☐, By furnace ☐, Other _____
 Water heater location: Basement ☐, Upstairs utility room ☐, Garage ☐, Other (please describe) _____
35. What type of cooking appliance do you have? Electric ☒, Gas ☒, Other _____
36. Is there a stove exhaust hood present? Yes ☐ No ☒
 Does it vent to the outdoors? Yes ☐ No ☐
37. Smoking in Home/Structure:
 None ☒, Rare (only guests) ☐, Moderate (residents light smokers) ☐, Heavy (at least one heavy smoker in household) ☐
38. If yes to above, what do they smoke?
 Cigarettes ☐ Cigars ☐
 Pipe ☐ Other ☐
39. Do you regularly use air fresheners? Yes ☒ No ☐

40. Does anyone in the home/structure have indoor hobbies or work tasks involving:
None ☐, Heating ☐, soldering ☐, welding ☐, model glues ☐, paint ☐, spray paint ☐,
wood finishing ☐, Other ☐ Please specify what type of hobby: _____

41. General family/home/worker use of consumer products (please circle appropriate):
Assume that **Never** = never used, **Hardly ever** = less than once/month, **Occasionally** =
about once/month, **Regularly** = about once/week, and **Often** = more than once/week.

<u>Product</u>	<u>Frequency of Use</u>				
Spray-on deodorant	Never	Hardly ever	Occasionally	Regularly	Often
Aerosol deodorizers	Never	Hardly ever	Occasionally	Regularly	Often
Insecticides	Never	Hardly ever	Occasionally	Regularly	Often
Disinfectants	Never	Hardly ever	Occasionally	Regularly	Often
Window cleaners	Never	Hardly ever	Occasionally	Regularly	Often
Spray-on oven cleaners	Never	Hardly ever	Occasionally	Regularly	Often
Nail polish remover	Never	Hardly ever	Occasionally	Regularly	Often
Hair sprays	Never	Hardly ever	Occasionally	Regularly	Often

42. Please check weekly cleaning practices:

Dusting ☒

Dry sweeping ☒

Vacuuming ☒

Polishing (furniture, etc) ☒

Washing/waxing floors ☐

Other _____

43. Other comments: _____
- _____
- _____
- _____
- _____
- _____

Outdoor Sources of Contamination:

Is there any stationary emission source in the vicinity of the home/structure? unknown

Are there any mobile emission sources (e.g., highway; bus stop; high-traffic area) in the vicinity of the home/structure? BUSY STREET

Instructions for Residents
(to be followed starting at least 48 hours prior to and during the sampling event)

- Do not open windows, fireplace openings or vents.
- Do not keep doors open.
- Do not operate ventilation fans or air conditioning.
- Do not use air fresheners or odor eliminators.
- Do not smoke in the house/structure.
- 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, all-purpose cleaners, floor cleaners).
- Do not use cosmetics, including hair spray, nail polish remover, perfume, etc.
- Do not partake in indoor hobbies or work tasks that use solvents.
- Do not apply pesticides.
- Do not store containers of gasoline, oil or petroleum-based or other solvents within the house/structure or attached (except for fuel oil tanks).
- Do not operate or store gasoline/diesel powered equipment (i.e., automobiles, lawn mowers) in the house/structure or attached garage.

SAMPLING INFORMATION

Outside Temperature (°F): _____

Prevailing wind direction: _____

Describe the general weather conditions (e.g., sunny, cloudy, rain): _____

Was there any significant precipitation (0.1 inches) within 12 hours preceding the sampling event? _____

Type of ground cover (e.g., grass, pavement, etc.) outside the building: _____

Is there any other information about the structural features of this building, the habits of its occupants or potential sources of chemical contaminants to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building? _____

ATTACHMENT 3
Laboratory Analytical Reports

December 30, 2008

Frank West
Keramida Environmental, INC.
401 North College Ave.
Indianapolis, IN 46202

RE: Project: 10300 Harman Becker Martinsv.
Pace Project No.: 1086591

Dear Frank West:

Enclosed are the analytical results for sample(s) received by the laboratory on December 19, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Colin Schuft

colin.schuft@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 13

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CERTIFICATIONS

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086591

Minnesota Certification IDs

Tennessee Certification #: 02818
Wisconsin Certification #: 999407970
Washington Certification #: C754
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137

Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Alaska Certification #: UST-078

REPORT OF LABORATORY ANALYSIS

Page 2 of 13

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SAMPLE SUMMARY

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086591

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1086591001	1309 Ohio Indoor	Air	12/17/08 10:00	12/19/08 09:37
1086591002	1309 Ohio Indoor-CERT	Air	12/17/08 10:00	12/19/08 09:37
1086591003	1309 Ohio Crawl	Air	12/17/08 10:15	12/19/08 09:37
1086591004	1309 Ohio Crawl-CERT	Air	12/17/08 10:15	12/19/08 09:37
1086591005	1309 Ohio Outdoor	Air	12/17/08 10:30	12/19/08 09:37
1086591006	1309 Ohio Outdoor-CERT	Air	12/17/08 10:30	12/19/08 09:37

REPORT OF LABORATORY ANALYSIS

Page 3 of 13

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SAMPLE ANALYTE COUNT

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086591

Lab ID	Sample ID	Method	Analysts	Analytes Reported
1086591001	1309 Ohio Indoor	TO-15	LCW	8
1086591002	1309 Ohio Indoor-CERT	TO-15	DB1	8
1086591003	1309 Ohio Crawl	TO-15	LCW	8
1086591004	1309 Ohio Crawl-CERT	TO-15	DB1	8
1086591005	1309 Ohio Outdoor	TO-15	LCW	8
1086591006	1309 Ohio Outdoor-CERT	TO-15	LCW	8

REPORT OF LABORATORY ANALYSIS

Page 4 of 13

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ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086591

Sample: 1309 Ohio Indoor		Lab ID: 1086591001	Collected: 12/17/08 10:00	Received: 12/19/08 09:37	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.1	1.34		12/29/08 17:08	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.1	1.34		12/29/08 17:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		12/29/08 17:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		12/29/08 17:08	156-60-5	
Tetrachloroethene	ND	ug/m3	1.9	1.34		12/29/08 17:08	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.34		12/29/08 17:08	71-55-6	
Trichloroethene	ND	ug/m3	0.74	1.34		12/29/08 17:08	79-01-6	
Vinyl chloride	ND	ug/m3	0.70	1.34		12/29/08 17:08	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086591

Sample: 1309 Ohio Indoor-CERT		Lab ID: 1086591002	Collected: 12/17/08 10:00	Received: 12/19/08 09:37	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/08/08 09:52	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/08/08 09:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/08/08 09:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/08/08 09:52	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/08/08 09:52	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/08/08 09:52	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/08/08 09:52	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/08/08 09:52	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086591

Sample: 1309 Ohio Crawl		Lab ID: 1086591003	Collected: 12/17/08 10:15	Received: 12/19/08 09:37	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.2	1.48		12/29/08 17:38	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.2	1.48		12/29/08 17:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.48		12/29/08 17:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.48		12/29/08 17:38	156-60-5	
Tetrachloroethene	ND	ug/m3	2.1	1.48		12/29/08 17:38	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.48		12/29/08 17:38	71-55-6	
Trichloroethene	ND	ug/m3	0.81	1.48		12/29/08 17:38	79-01-6	
Vinyl chloride	ND	ug/m3	0.77	1.48		12/29/08 17:38	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086591

Sample: 1309 Ohio Crawl-CERT		Lab ID: 1086591004	Collected: 12/17/08 10:15	Received: 12/19/08 09:37	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/08/08 10:23	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/08/08 10:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/08/08 10:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/08/08 10:23	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/08/08 10:23	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/08/08 10:23	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/08/08 10:23	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/08/08 10:23	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086591

Sample: 1309 Ohio Outdoor		Lab ID: 1086591005	Collected: 12/17/08 10:30	Received: 12/19/08 09:37	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.3	1.54		12/29/08 18:09	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.2	1.54		12/29/08 18:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.54		12/29/08 18:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.54		12/29/08 18:09	156-60-5	
Tetrachloroethene	ND	ug/m3	2.2	1.54		12/29/08 18:09	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.54		12/29/08 18:09	71-55-6	
Trichloroethene	ND	ug/m3	0.85	1.54		12/29/08 18:09	79-01-6	
Vinyl chloride	ND	ug/m3	0.80	1.54		12/29/08 18:09	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086591

Sample: 1309 Ohio Outdoor-CERT Lab ID: 1086591006 Collected: 12/17/08 10:30 Received: 12/19/08 09:37 Matrix: Air								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15								
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/05/08 14:43	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/05/08 14:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/05/08 14:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/05/08 14:43	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/05/08 14:43	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/05/08 14:43	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/05/08 14:43	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/05/08 14:43	75-01-4	

QUALITY CONTROL DATA

Project: 10300 Harman Becker Martinsv.
Pace Project No.: 1086591

QC Batch: AIR/7910 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSVAIR Low Level
Associated Lab Samples: 1086591001, 1086591003, 1086591005

METHOD BLANK: 568573 Matrix: Air
Associated Lab Samples: 1086591001, 1086591003, 1086591005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	12/29/08 15:07	
1,1-Dichloroethane	ug/m3	ND	0.82	12/29/08 15:07	
1,1-Dichloroethene	ug/m3	ND	0.81	12/29/08 15:07	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	12/29/08 15:07	
Tetrachloroethene	ug/m3	ND	1.4	12/29/08 15:07	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	12/29/08 15:07	
Trichloroethene	ug/m3	ND	0.55	12/29/08 15:07	
Vinyl chloride	ug/m3	ND	0.52	12/29/08 15:07	

LABORATORY CONTROL SAMPLE: 568574

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	61	62.8	103	60-134	
1,1-Dichloroethane	ug/m3	37	37.6	101	59-136	
1,1-Dichloroethene	ug/m3	41.5	43.0	104	60-137	
cis-1,2-Dichloroethene	ug/m3	41.1	38.0	92	62-135	
Tetrachloroethene	ug/m3	73.1	68.5	94	60-137	
trans-1,2-Dichloroethene	ug/m3	43.1	43.6	101	50-150	
Trichloroethene	ug/m3	55.2	61.9	112	60-134	
Vinyl chloride	ug/m3	25.2	25.8	102	66-132	

SAMPLE DUPLICATE: 568575

Parameter	Units	1086591005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

QUALIFIERS

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086591

DEFINITIONS

DF - Dilution Factor, If reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086591

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1086591002	1309 Ohlo Indoor-CERT	TO-15	AIR/7886		
1086591004	1309 Ohlo Crawl-CERT	TO-15	AIR/7886		
1086591006	1309 Ohlo Outdoor-CERT	TO-15	AIR/7886		
1086591001	1309 Ohlo Indoor	TO-15	AIR/7910		
1086591003	1309 Ohlo Crawl	TO-15	AIR/7910		
1086591005	1309 Ohlo Outdoor	TO-15	AIR/7910		

Section D Required Client Information		Matrix Codes MATRIX / CODE		COLLECTED		SAMPLE TYPE (G-GRAB C-COMP)		MATRIX CODE (500 vialst codes to left)		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		PRESERVATIVES		ANALYSIS TEST		Temp in °C		Received on ice (Y/N)		Custody Sealed Cooler (Y/N)		Samples Intact (Y/N)	
SAMPLE ID (A-Z, 0-9 / -)		SAMPLE ID (A-Z, 0-9 / -)		COMPOSITE START		COMPOSITE END		DATE		TIME		DATE		TIME		H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other		Analysis Test 1		Residual Chlorine (Y/N)		Pace Project No./ Lab I.D.			
1309 Ohio Indoor	ARC	12/16/08	1015	12/17	1000	70	1	Unpreserved																1086591001, 009	
1309 Ohio Crawl	↓	↓	1025	↓	0915	40	1																	003, 009	
1309 Ohio Outdoor	↓	↓	1030	↓	1030	45	1																	005, 006	
Shipped via ORIGINAL SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):																									

Sample Condition Upon Receipt

Face Analytical

Client Name: KERAMIDA

Project # 1086591

Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Tracking #: 12 E40 56X 13 9167 6926

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other

Temp Blank: Yes ☐ No ☒

Thermometer Used 00344042 179425

Type of Ice: Wet ☐ Blue ☒ None

☐ Samples on ice, cooling process has begun

Cooler Temperature AWS

Biological Tissue is Frozen: Yes ☐ No ☐

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 12-17-08 A

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☐ Yes ☒ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>AW (CAN)</u>		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐ Yes ☐ No ☒ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WA-DRO (water)	☐ Yes ☐ No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	15.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	16.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: 3 CANS, 2 FC'S

Project Manager Review: _____

Date: 12/19/08

December 30, 2008

Frank West
Keramida Environmental, INC.
401 North College Ave.
Indianapolis, IN 46202

RE: Project: 10300 Harman Becker Martinsv.
Pace Project No.: 1086708

Dear Frank West:

Enclosed are the analytical results for sample(s) received by the laboratory on December 20, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Colin Schuft

colin.schuft@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086708

Minnesota Certification IDs

Tennessee Certification #: 02818
Wisconsin Certification #: 999407970
Washington Certification #: C754
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137

Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Alaska Certification #: UST-078

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SAMPLE SUMMARY

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086708

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1086708001	520 Basca Indoor	Air	12/19/08 08:00	12/20/08 09:45
1086708002	520 Basca Indoor-CERT	Air	12/19/08 08:00	12/20/08 09:45
1086708003	520 Basca Crawl	Air	12/19/08 08:15	12/20/08 09:45
1086708004	520 Basca Crawl-CERT	Air	12/19/08 08:15	12/20/08 09:45
1086708005	520 Basca Outdoor	Air	12/19/08 08:05	12/20/08 09:45
1086708006	520 Basca Outdoor-CERT	Air	12/19/08 08:05	12/20/08 09:45
1086708007	1399 Clore Indoor	Air	12/19/08 09:25	12/20/08 09:45
1086708008	1399 Clore Indoor-CERT	Air	12/19/08 09:25	12/20/08 09:45
1086708009	1399 Clore Basement	Air	12/19/08 09:30	12/20/08 09:45
1086708010	1399 Clore Basement-CERT	Air	12/19/08 09:30	12/20/08 09:45
1086708011	1399 Clore Crawl	Air	12/19/08 09:15	12/20/08 09:45
1086708012	1399 Clore Crawl-CERT	Air	12/19/08 09:15	12/20/08 09:45
1086708013	1399 Clore Sub-Slab	Air	12/19/08 09:55	12/20/08 09:45
1086708014	1399 Clore Sub-Slab-CERT	Air	12/19/08 09:55	12/20/08 09:45
1086708015	1399 Clore Outdoor	Air	12/19/08 09:10	12/20/08 09:45
1086708016	1399 Clore Outdoor-CERT	Air	12/19/08 09:10	12/20/08 09:45
1086708017	540 Basca Indoor	Air	12/19/08 10:15	12/20/08 09:45
1086708018	540 Basca Indoor-CERT	Air	12/19/08 10:15	12/20/08 09:45
1086708019	540 Basca Crawl	Air	12/19/08 10:10	12/20/08 09:45
1086708020	540 Basca Crawl-CERT	Air	12/19/08 10:10	12/20/08 09:45
1086708021	1354 Clore Indoor	Air	12/19/08 10:35	12/20/08 09:45
1086708022	1354 Clore Indoor-CERT	Air	12/19/08 10:35	12/20/08 09:45
1086708023	1354 Clore Indoor Dup	Air	12/19/08 10:35	12/20/08 09:45
1086708024	1354 Clore Indoor Dup-CERT	Air	12/19/08 10:35	12/20/08 09:45
1086708025	1354 Clore Crawl	Air	12/19/08 10:50	12/20/08 09:45
1086708026	1354 Clore Crawl-CERT	Air	12/19/08 10:50	12/20/08 09:45
1086708027	1354 Clore Crawl Dup	Air	12/19/08 10:50	12/20/08 09:45
1086708028	1354 Clore Crawl Dup-CERT	Air	12/19/08 10:50	12/20/08 09:45

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SAMPLE ANALYTE COUNT

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086708

Lab ID	Sample ID	Method	Analysts	Analytes Reported
1086708001	520 Basca Indoor	TO-15	LCW	8
1086708002	520 Basca Indoor-CERT	TO-15	LCW	8
1086708003	520 Basca Crawl	TO-15	LCW	8
1086708004	520 Basca Crawl-CERT	TO-15	DB1	8
1086708005	520 Basca Outdoor	TO-15	LCW	8
1086708006	520 Basca Outdoor-CERT	TO-15	DB1	8
1086708007	1399 Clore Indoor	TO-15	LCW	8
1086708008	1399 Clore Indoor-CERT	TO-15	LCW	8
1086708009	1399 Clore Basement	TO-15	LCW	8
1086708010	1399 Clore Basement-CERT	TO-15	DB1	8
1086708011	1399 Clore Crawl	TO-15	LCW	8
1086708012	1399 Clore Crawl-CERT	TO-15	DB1	8
1086708014	1399 Clore Sub-Slab-CERT	TO-15	DB1	8
1086708015	1399 Clore Outdoor	TO-15	LCW	8
1086708016	1399 Clore Outdoor-CERT	TO-15	LCW	8
1086708017	540 Basca Indoor	TO-15	LCW	8
1086708018	540 Basca Indoor-CERT	TO-15	DB1	8
1086708019	540 Basca Crawl	TO-15	LCW	8
1086708020	540 Basca Crawl-CERT	TO-15	DB1	8
1086708021	1354 Clore Indoor	TO-15	LCW	8
1086708022	1354 Clore Indoor-CERT	TO-15	DB1	8
1086708023	1354 Clore Indoor Dup	TO-15	LCW	8
1086708024	1354 Clore Indoor Dup-CERT	TO-15	DB1	8
1086708025	1354 Clore Crawl	TO-15	LCW	8
1086708026	1354 Clore Crawl-CERT	TO-15	LCW	8
1086708027	1354 Clore Crawl Dup	TO-15	LCW	8
1086708028	1354 Clore Crawl Dup-CERT	TO-15	LCW	8

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086708

Sample: 520 Basca Indoor		Lab ID: 1086708001	Collected: 12/19/08 08:00	Received: 12/20/08 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	2.4	2.93		12/29/08 19:10	75-34-3	
1,1-Dichloroethene	ND	ug/m3	2.4	2.93		12/29/08 19:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	2.4	2.93		12/29/08 19:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	2.4	2.93		12/29/08 19:10	156-60-5	
Tetrachloroethene	4.5	ug/m3	4.1	2.93		12/29/08 19:10	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	3.2	2.93		12/29/08 19:10	71-55-6	
Trichloroethene	12.4	ug/m3	1.6	2.93		12/29/08 19:10	79-01-6	
Vinyl chloride	ND	ug/m3	1.5	2.93		12/29/08 19:10	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086708

Sample: 520 Basca Indoor-CERT		Lab ID: 1086708002	Collected: 12/19/08 08:00	Received: 12/20/08 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/16/08 09:15	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/16/08 09:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/16/08 09:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/16/08 09:15	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/16/08 09:15	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/16/08 09:15	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/16/08 09:15	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/16/08 09:15	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086708

Sample: 520 Basca Crawl		Lab ID: 1086708003	Collected: 12/19/08 08:15	Received: 12/20/08 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.1	1.34		12/29/08 19:40	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.1	1.34		12/29/08 19:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		12/29/08 19:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		12/29/08 19:40	156-60-5	
Tetrachloroethene	6.3	ug/m3	1.9	1.34		12/29/08 19:40	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.34		12/29/08 19:40	71-55-6	
Trichloroethene	ND	ug/m3	0.74	1.34		12/29/08 19:40	79-01-6	
Vinyl chloride	ND	ug/m3	0.70	1.34		12/29/08 19:40	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086708

Sample: 520 Basca Crawl-CERT		Lab ID: 1086708004	Collected: 12/19/08 08:15	Received: 12/20/08 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/12/08 08:41	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/12/08 08:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/12/08 08:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/12/08 08:41	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/12/08 08:41	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/12/08 08:41	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/12/08 08:41	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/12/08 08:41	75-01-4	

ANALYTICAL RESULTS

Project: 10300 Harman Becker Martinsv.
Pace Project No.: 1086708

Sample: 520 Basca Outdoor		Lab ID: 1086708005	Collected: 12/19/08 08:05	Received: 12/20/08 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.8	2.17		12/29/08 20:11	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.8	2.17		12/29/08 20:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.8	2.17		12/29/08 20:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.8	2.17		12/29/08 20:11	156-60-5	
Tetrachloroethene	ND	ug/m3	3.0	2.17		12/29/08 20:11	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	2.4	2.17		12/29/08 20:11	71-55-6	
Trichloroethene	ND	ug/m3	1.2	2.17		12/29/08 20:11	79-01-6	
Vinyl chloride	ND	ug/m3	1.1	2.17		12/29/08 20:11	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086708

Sample: 520 Basca Outdoor-CERT		Lab ID: 1086708006	Collected: 12/19/08 08:05	Received: 12/20/08 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/11/08 15:46	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/11/08 15:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/11/08 15:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/11/08 15:46	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/11/08 15:46	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/11/08 15:46	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/11/08 15:46	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/11/08 15:46	75-01-4	

ANALYTICAL RESULTS

Project: 10300 Harman Becker Martinsv.
Pace Project No.: 1086708

Sample: 1399 Clore Indoor		Lab ID: 1086708007	Collected: 12/19/08 09:25	Received: 12/20/08 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.2	1.43		12/29/08 20:41	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.2	1.43		12/29/08 20:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.43		12/29/08 20:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.43		12/29/08 20:41	156-60-5	
Tetrachloroethene	26.6	ug/m3	2.0	1.43		12/29/08 20:41	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.43		12/29/08 20:41	71-55-6	
Trichloroethene	1.3	ug/m3	0.79	1.43		12/29/08 20:41	79-01-6	
Vinyl chloride	ND	ug/m3	0.74	1.43		12/29/08 20:41	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086708

Sample: 1399 Clore Indoor-CERT		Lab ID: 1086708008	Collected: 12/19/08 09:25	Received: 12/20/08 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/15/08 10:39	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/15/08 10:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/15/08 10:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/15/08 10:39	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/15/08 10:39	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/15/08 10:39	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/15/08 10:39	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/15/08 10:39	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086708

Sample: 1399 Clore Basement		Lab ID: 1086708009	Collected: 12/19/08 09:30	Received: 12/20/08 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.7	2.07		12/29/08 21:11	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.7	2.07		12/29/08 21:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.7	2.07		12/29/08 21:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.7	2.07		12/29/08 21:11	156-60-5	
Tetrachloroethene	38.9	ug/m3	2.9	2.07		12/29/08 21:11	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	2.3	2.07		12/29/08 21:11	71-55-6	
Trichloroethene	1.9	ug/m3	1.1	2.07		12/29/08 21:11	79-01-6	
Vinyl chloride	ND	ug/m3	1.1	2.07		12/29/08 21:11	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086708

Sample: 1399 Clore Basement-CERT Lab ID: 1086708010 Collected: 12/19/08 09:30 Received: 12/20/08 09:45 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/11/08 08:55	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/11/08 08:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/11/08 08:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/11/08 08:55	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/11/08 08:55	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/11/08 08:55	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/11/08 08:55	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/11/08 08:55	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086708

Sample: 1399 Clore Crawl		Lab ID: 1086708011	Collected: 12/19/08 09:15	Received: 12/20/08 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.1	1.38		12/29/08 21:42	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.1	1.38		12/29/08 21:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.38		12/29/08 21:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.38		12/29/08 21:42	156-60-5	
Tetrachloroethene	ND	ug/m3	1.9	1.38		12/29/08 21:42	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.38		12/29/08 21:42	71-55-6	
Trichloroethene	ND	ug/m3	0.76	1.38		12/29/08 21:42	79-01-6	
Vinyl chloride	ND	ug/m3	0.72	1.38		12/29/08 21:42	75-01-4	

ANALYTICAL RESULTS

Project: 10300 Harman Becker Martinsv.
Pace Project No.: 1086708

Sample: 1399 Clore Crawl-CERT		Lab ID: 1086708012	Collected: 12/19/08 09:15	Received: 12/20/08 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/15/08 08:35	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/15/08 08:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/15/08 08:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/15/08 08:35	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/15/08 08:35	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/15/08 08:35	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/15/08 08:35	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/15/08 08:35	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086708

Sample: 1399 Clore Sub-Slab-CERT Lab ID: 1086708014 Collected: 12/19/08 09:55 Received: 12/20/08 09:45 Matrix: Air								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15								
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/06/08 12:40	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/06/08 12:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/06/08 12:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/06/08 12:40	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/06/08 12:40	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/06/08 12:40	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/06/08 12:40	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/06/08 12:40	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086708

Sample: 1399 Clore Outdoor		Lab ID: 1086708015	Collected: 12/19/08 09:10	Received: 12/20/08 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.6	1.97		12/29/08 22:12	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.6	1.97		12/29/08 22:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.6	1.97		12/29/08 22:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.6	1.97		12/29/08 22:12	156-60-5	
Tetrachloroethene	ND	ug/m3	2.8	1.97		12/29/08 22:12	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	2.2	1.97		12/29/08 22:12	71-55-6	
Trichloroethene	1.1	ug/m3	1.1	1.97		12/29/08 22:12	79-01-6	
Vinyl chloride	ND	ug/m3	1.0	1.97		12/29/08 22:12	75-01-4	

ANALYTICAL RESULTS

Project: 10300 Harman Becker Martinsv.
Pace Project No.: 1086708

Sample: 1399 Clore Outdoor-CERT		Lab ID: 1086708016	Collected: 12/19/08 09:10	Received: 12/20/08 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/15/08 14:17	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/15/08 14:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/15/08 14:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/15/08 14:17	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/15/08 14:17	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/15/08 14:17	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/15/08 14:17	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/15/08 14:17	75-01-4	

ANALYTICAL RESULTS

Project: 10300 Harman Becker Martinsv.
Pace Project No.: 1086708

Sample: 540 Basca Indoor		Lab ID: 1086708017	Collected: 12/19/08 10:15	Received: 12/20/08 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.4	1.73		12/29/08 22:42	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.73		12/29/08 22:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.73		12/29/08 22:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.73		12/29/08 22:42	156-60-5	
Tetrachloroethene	ND	ug/m3	2.4	1.73		12/29/08 22:42	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.73		12/29/08 22:42	71-55-6	
Trichloroethene	ND	ug/m3	0.95	1.73		12/29/08 22:42	79-01-6	
Vinyl chloride	ND	ug/m3	0.90	1.73		12/29/08 22:42	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086708

Sample: 540 Basca Indoor-CERT		Lab ID: 1086708018	Collected: 12/19/08 10:15	Received: 12/20/08 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/12/08 14:55	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/12/08 14:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/12/08 14:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/12/08 14:55	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/12/08 14:55	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/12/08 14:55	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/12/08 14:55	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/12/08 14:55	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086708

Sample: 540 Basca Crawl		Lab ID: 1086708019	Collected: 12/19/08 10:10	Received: 12/20/08 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.3	1.59		12/29/08 23:13	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.3	1.59		12/29/08 23:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.59		12/29/08 23:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.59		12/29/08 23:13	156-60-5	
Tetrachloroethene	ND	ug/m3	2.2	1.59		12/29/08 23:13	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.59		12/29/08 23:13	71-55-6	
Trichloroethene	ND	ug/m3	0.87	1.59		12/29/08 23:13	79-01-6	
Vinyl chloride	ND	ug/m3	0.83	1.59		12/29/08 23:13	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086708

Sample: 540 Basca Crawl-CERT		Lab ID: 1086708020	Collected: 12/19/08 10:10	Received: 12/20/08 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/11/08 16:31	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/11/08 16:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/11/08 16:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/11/08 16:31	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/11/08 16:31	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/11/08 16:31	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/11/08 16:31	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/11/08 16:31	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086708

Sample: 1354 Clore Indoor		Lab ID: 1086708021	Collected: 12/19/08 10:35	Received: 12/20/08 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.3	1.59		12/29/08 23:44	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.3	1.59		12/29/08 23:44	75-35-4	
cis-1,2-Dichloroethene	3.0	ug/m3	1.3	1.59		12/29/08 23:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.59		12/29/08 23:44	156-60-5	
Tetrachloroethene	14.3	ug/m3	2.2	1.59		12/29/08 23:44	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.59		12/29/08 23:44	71-55-6	
Trichloroethene	ND	ug/m3	0.87	1.59		12/29/08 23:44	79-01-6	
Vinyl chloride	ND	ug/m3	0.83	1.59		12/29/08 23:44	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086708

Sample: 1354 Clore Indoor-CERT		Lab ID: 1086708022	Collected: 12/19/08 10:35		Received: 12/20/08 09:45	Matrix: Air		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/12/08 15:40	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/12/08 15:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/12/08 15:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/12/08 15:40	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/12/08 15:40	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/12/08 15:40	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/12/08 15:40	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/12/08 15:40	75-01-4	

ANALYTICAL RESULTS

Project: 10300 Harman Becker Martinsv.
Pace Project No.: 1086708

Sample: 1354 Clore Indoor Dup		Lab ID: 1086708023	Collected: 12/19/08 10:35		Received: 12/20/08 09:45		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.1	1.34		12/30/08 00:44	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.1	1.34		12/30/08 00:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		12/30/08 00:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		12/30/08 00:44	156-60-5	
Tetrachloroethene	6.1	ug/m3	1.9	1.34		12/30/08 00:44	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.34		12/30/08 00:44	71-55-6	
Trichloroethene	1.1	ug/m3	0.74	1.34		12/30/08 00:44	79-01-6	
Vinyl chloride	ND	ug/m3	0.70	1.34		12/30/08 00:44	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086708

Sample: 1354 Clore Indoor Dup- Lab ID: 1086708024 Collected: 12/19/08 10:35 Received: 12/20/08 09:45 Matrix: Air
CERT

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/10/08 14:29	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/10/08 14:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/10/08 14:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/10/08 14:29	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/10/08 14:29	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/10/08 14:29	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/10/08 14:29	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/10/08 14:29	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086708

Sample: 1354 Clore Crawl		Lab ID: 1086708025	Collected: 12/19/08 10:50	Received: 12/20/08 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.4	1.73		12/30/08 01:15	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.73		12/30/08 01:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.73		12/30/08 01:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.73		12/30/08 01:15	156-60-5	
Tetrachloroethene	47.7	ug/m3	2.4	1.73		12/30/08 01:15	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.73		12/30/08 01:15	71-55-6	
Trichloroethene	ND	ug/m3	0.95	1.73		12/30/08 01:15	79-01-6	
Vinyl chloride	ND	ug/m3	0.90	1.73		12/30/08 01:15	75-01-4	

ANALYTICAL RESULTS

Project: 10300 Harman Becker Martinsv.

Pace Project No.: 1086708

Sample: 1354 Clore Crawl-CERT		Lab ID: 1086708026	Collected: 12/19/08 10:50	Received: 12/20/08 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		11/06/08 14:36	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		11/06/08 14:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		11/06/08 14:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		11/06/08 14:36	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		11/06/08 14:36	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		11/06/08 14:36	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		11/06/08 14:36	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		11/06/08 14:36	75-01-4	

ANALYTICAL RESULTS

Project: 10300 Harman Becker Martinsv.
Pace Project No.: 1086708

Sample: 1354 Clore Crawl Dup		Lab ID: 1086708027	Collected: 12/19/08 10:50		Received: 12/20/08 09:45		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.1	1.38		12/30/08 01:46	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.1	1.38		12/30/08 01:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.38		12/30/08 01:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.38		12/30/08 01:46	156-60-5	
Tetrachloroethene	6.2	ug/m3	1.9	1.38		12/30/08 01:46	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.38		12/30/08 01:46	71-55-6	
Trichloroethene	ND	ug/m3	0.76	1.38		12/30/08 01:46	79-01-6	
Vinyl chloride	ND	ug/m3	0.72	1.38		12/30/08 01:46	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086708

Sample: 1354 Clore Crawl Dup- Lab ID: 1086708028 Collected: 12/19/08 10:50 Received: 12/20/08 09:45 Matrix: Air
CERT

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/11/08 09:46	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/11/08 09:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/11/08 09:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/11/08 09:46	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/11/08 09:46	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/11/08 09:46	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/11/08 09:46	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/11/08 09:46	75-01-4	

QUALITY CONTROL DATA

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086708

QC Batch: AIR/7910 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 1086708001, 1086708003, 1086708005, 1086708007, 1086708009, 1086708011, 1086708015, 1086708017, 1086708019, 1086708021, 1086708023, 1086708025, 1086708027

METHOD BLANK: 568573 Matrix: Air
Associated Lab Samples: 1086708001, 1086708003, 1086708005, 1086708007, 1086708009, 1086708011, 1086708015, 1086708017, 1086708019, 1086708021, 1086708023, 1086708025, 1086708027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	12/29/08 15:07	
1,1-Dichloroethane	ug/m3	ND	0.82	12/29/08 15:07	
1,1-Dichloroethene	ug/m3	ND	0.81	12/29/08 15:07	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	12/29/08 15:07	
Tetrachloroethene	ug/m3	ND	1.4	12/29/08 15:07	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	12/29/08 15:07	
Trichloroethene	ug/m3	ND	0.55	12/29/08 15:07	
Vinyl chloride	ug/m3	ND	0.52	12/29/08 15:07	

LABORATORY CONTROL SAMPLE: 568574

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	61	62.8	103	60-134	
1,1-Dichloroethane	ug/m3	37	37.6	101	59-136	
1,1-Dichloroethene	ug/m3	41.5	43.0	104	60-137	
cis-1,2-Dichloroethene	ug/m3	41.1	38.0	92	62-135	
Tetrachloroethene	ug/m3	73.1	68.5	94	60-137	
trans-1,2-Dichloroethene	ug/m3	43.1	43.6	101	50-150	
Trichloroethene	ug/m3	55.2	61.9	112	60-134	
Vinyl chloride	ug/m3	25.2	25.8	102	66-132	

SAMPLE DUPLICATE: 568575

Parameter	Units	1086591005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

QUALIFIERS

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086708

DEFINITIONS

DF - Dilution Factor, If reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086708

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1086708002	520 Basca Indoor-CERT	TO-15	AIR/7886		
1086708004	520 Basca Crawl-CERT	TO-15	AIR/7886		
1086708006	520 Basca Outdoor-CERT	TO-15	AIR/7886		
1086708008	1399 Clore Indoor-CERT	TO-15	AIR/7886		
1086708010	1399 Clore Basement-CERT	TO-15	AIR/7886		
1086708012	1399 Clore Crawl-CERT	TO-15	AIR/7886		
1086708014	1399 Clore Sub-Slab-CERT	TO-15	AIR/7886		
1086708016	1399 Clore Outdoor-CERT	TO-15	AIR/7886		
1086708018	540 Basca Indoor-CERT	TO-15	AIR/7886		
1086708020	540 Basca Crawl-CERT	TO-15	AIR/7886		
1086708022	1354 Clore Indoor-CERT	TO-15	AIR/7886		
1086708024	1354 Clore Indoor Dup-CERT	TO-15	AIR/7886		
1086708026	1354 Clore Crawl-CERT	TO-15	AIR/7886		
1086708028	1354 Clore Crawl Dup-CERT	TO-15	AIR/7886		
1086708001	520 Basca Indoor	TO-15	AIR/7910		
1086708003	520 Basca Crawl	TO-15	AIR/7910		
1086708005	520 Basca Outdoor	TO-15	AIR/7910		
1086708007	1399 Clore Indoor	TO-15	AIR/7910		
1086708009	1399 Clore Basement	TO-15	AIR/7910		
1086708011	1399 Clore Crawl	TO-15	AIR/7910		
1086708015	1399 Clore Outdoor	TO-15	AIR/7910		
1086708017	540 Basca Indoor	TO-15	AIR/7910		
1086708019	540 Basca Crawl	TO-15	AIR/7910		
1086708021	1354 Clore Indoor	TO-15	AIR/7910		
1086708023	1354 Clore Indoor Dup	TO-15	AIR/7910		
1086708025	1354 Clore Crawl	TO-15	AIR/7910		
1086708027	1354 Clore Crawl Dup	TO-15	AIR/7910		



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1086708

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: WESAM IDA	Report To: Frank J. West	Attention: SAME	Page: 1 of 2		
Address: 401 N. College Ave.	Copy To:	Company Name:	1221319		
Indian IN 46202		Address:	REGULATORY AGENCY		
Email To: twett@kernida.com	Purchase Order No.: 10300	Pace Quote Reference:	☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER		
977635625	Project Name: Herman Becker Martinson	Pace Project Manager:	☐ UST ☐ RCRA ☐ OTHER		
Requested Due Date/TAT:	Project Number: 10300	Pace Profile #:	State Location: IN		

ITEM #	Section D Required Client Information	Matrix Codes MATRIX CODES Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WIP Air AR Tissue TS Other OT	MATRIX CODE (see field codes in bill)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Analysis Test	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB					
1	520 Barca Indoor		AR C 12/18/08	G	0820	0820	1	Unpreserved	XXXX		1086708 001 001
2	520 Barca Crawl		0820		0820	0820	1	NaOH	XXXX		003 004
3	520 Barca Outdoor		0825		0825	0825	1	NaOH	XXXX		005 006
4	1399 Clore Indoor		0925		0925	0925	1	NaOH	XXXX		007 008
5	1399 Clore Basement		0930		0930	0930	1	NaOH	XXXX		009 010
6	1399 Clore Crawl		0915		0915	0915	1	NaOH	XXXX		011 012
7	1399 Clore Sub-Slab		0935	G	0935	0935	1	NaOH	XXXX		013 014
8	1399 Clore Outdoor		1015	C	1015	1015	1	NaOH	XXXX		015 016
9	540 Barca Indoor		1015		1015	1015	1	NaOH	XXXX		017 018
10	540 Barca Crawl		1005		1005	1005	1	NaOH	XXXX		019 020
11	1354 Clore Indoor		1030		1030	1030	1	NaOH	XXXX		021 022
12	1354 Clore Indoor Dug		1030		1030	1030	1	NaOH	XXXX		023 024

ADDITIONAL COMMENTS	RELINQUISHED BY (AFFILIATION)	DATE	TIME	ACCEPTED BY (AFFILIATION)	DATE	TIME	SAMPLE CONDITIONS
24 collect		12/18/08	1530	Fed-Ex	12/20/08	1545	N N
37							
ORIGINAL				SAMPLE NAME AND SIGNATURE			
				PRINT Name of SAMPLER:			
				SIGNATURE of SAMPLER:			
				DATE Signed (MM/DD/YY):			
				Received on			
				Custody Sealed Cooler (Y/N)			
				Samples Intact (Y/N)			

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical
www.pace325.com

1086708

Temp in °C	Recoiled in Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
10			
20			
30			
40			
50			
60			
70			
80			
90			
100			

DATE Signed
(MM/DD/YY):

PRINT NAME of SAMPLER:

SIGNATURE of SAMPLER:

Sample Condition Upon Receipt

Face Analytical

Client Name: KERAMIDA

Project # 1086708

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Tracking #: 7962 0218 4606, 4640, 4720 ; 7971 9873 3760

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other

Temp Blank: Yes ☐ No ☒

Thermometer Used 80244042, 170435

Type of Ice: Wet ☐ Blue ☒ None

☐ Samples on ice, cooling process has begun

Cooler Temperature 48.5

Biological Tissue is Frozen: Yes ☐ No ☐

Date and Initials of person examining contents: 12.22.08

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>MR (CNS)</u>		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐ Yes ☐ No ☒ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes ☐ No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	15.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	16.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution: 14 CNS, 13 EC'S

Project Manager Review:

Date:

12/22/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

REVIEWED 12/22/08

December 31, 2008

Frank West
Keramida Environmental, INC.
401 North College Ave.
Indianapolis, IN 46202

RE: Project: 10300 Harman Becker Martinsv.
Pace Project No.: 1086904

Dear Frank West:

Enclosed are the analytical results for sample(s) received by the laboratory on December 24, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Colin Schuft

colin.schuft@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 36

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CERTIFICATIONS

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086904

Minnesota Certification IDs

Tennessee Certification #: 02818
Wisconsin Certification #: 999407970
Washington Certification #: C754
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137

Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Alaska Certification #: UST-078

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086904

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1086904001	1334 Clore Indoor	Air	12/23/08 09:50	12/24/08 10:15
1086904002	1334 Clore Indoor-Cert	Air	12/23/08 09:50	12/24/08 10:15
1086904003	1334 Clore Crawl	Air	12/23/08 10:00	12/24/08 10:15
1086904004	1334 Clore Crawl-Cert	Air	12/23/08 10:00	12/24/08 10:15
1086904005	1334 Clore Outdoor	Air	12/23/08 10:05	12/24/08 10:15
1086904006	1334 Clore Outdoor-Cert	Air	12/23/08 10:05	12/24/08 10:15
1086904007	Plant Floor South	Air	12/23/08 12:45	12/24/08 10:15
1086904008	Plant Floor South-Cert	Air	12/23/08 12:45	12/24/08 10:15
1086904009	Plant Floor North	Air	12/23/08 12:50	12/24/08 10:15
1086904010	Plant Floor North-Cert	Air	12/23/08 12:50	12/24/08 10:15
1086904011	Warehouse North	Air	12/23/08 12:50	12/24/08 10:15
1086904012	Warehouse North-Cert	Air	12/23/08 12:50	12/24/08 10:15
1086904013	Warehouse Center	Air	12/23/08 12:55	12/24/08 10:15
1086904014	Warehouse Center-Cert	Air	12/23/08 12:55	12/24/08 10:15
1086904015	Warehouse South	Air	12/23/08 13:00	12/24/08 10:15
1086904016	Warehouse South-Cert	Air	12/23/08 13:00	12/24/08 10:15
1086904017	IT Office	Air	12/23/08 13:05	12/24/08 10:15
1086904018	IT Office-Cert	Air	12/23/08 13:05	12/24/08 10:15
1086904019	NE Office Area	Air	12/23/08 13:10	12/24/08 10:15
1086904020	NE Office Area-Cert	Air	12/23/08 13:10	12/24/08 10:15
1086904021	Test Lab	Air	12/23/08 13:15	12/24/08 10:15
1086904022	Test Lab-Cert	Air	12/23/08 13:15	12/24/08 10:15
1086904023	Test Lab Dup	Air	12/23/08 13:15	12/24/08 10:15
1086904024	Test Lab Dup-Cert	Air	12/23/08 13:15	12/24/08 10:15
1086904025	Room 120	Air	12/23/08 13:20	12/24/08 10:15
1086904026	Room 121-Cert	Air	12/23/08 13:20	12/24/08 10:15
1086904027	Cafeteria	Air	12/23/08 13:25	12/24/08 10:15
1086904028	Cafeteria-Cert	Air	12/23/08 13:25	12/24/08 10:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086904

Lab ID	Sample ID	Method	Analysts	Analytes Reported
1086904001	1334 Clore Indoor	TO-15	DB1	8
1086904002	1334 Clore Indoor-Cert	TO-15	DB1	8
1086904003	1334 Clore Crawl	TO-15	DB1	8
1086904004	1334 Clore Crawl-Cert	TO-15	LCW	8
1086904005	1334 Clore Outdoor	TO-15	DB1	8
1086904006	1334 Clore Outdoor-Cert	TO-15	DB1	8
1086904007	Plant Floor South	TO-15	DB1	8
1086904008	Plant Floor South-Cert	TO-15	AEP	8
1086904009	Plant Floor North	TO-15	DB1	8
1086904010	Plant Floor North-Cert	TO-15	LCW	8
1086904011	Warehouse North	TO-15	DB1	8
1086904012	Warehouse North-Cert	TO-15	DB1	8
1086904013	Warehouse Center	TO-15	DB1	8
1086904014	Warehouse Center-Cert	TO-15	DB1	8
1086904015	Warehouse South	TO-15	DB1	8
1086904016	Warehouse South-Cert	TO-15	DB1	8
1086904017	IT Office	TO-15	DB1	8
1086904018	IT Office-Cert	TO-15	DB1	8
1086904019	NE Office Area	TO-15	DB1	8
1086904020	NE Office Area-Cert	TO-15	DB1	8
1086904021	Test Lab	TO-15	DB1	8
1086904022	Test Lab-Cert	TO-15	DB1	8
1086904023	Test Lab Dup	TO-15	DB1	8
1086904024	Test Lab Dup-Cert	TO-15	LCW	8
1086904025	Room 120	TO-15	DB1	8
1086904026	Room 121-Cert	TO-15	DB1	8
1086904027	Cafeteria	TO-15	DB1	8
1086904028	Cafeteria-Cert	TO-15	AEP	8

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: 1334 Clore Indoor		Lab ID: 1086904001	Collected: 12/23/08 09:50	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.5	1.8		12/30/08 17:17	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.5	1.8		12/30/08 17:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.5	1.8		12/30/08 17:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.5	1.8		12/30/08 17:17	156-60-5	
Tetrachloroethene	275	ug/m3	2.5	1.8		12/30/08 17:17	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	2.0	1.8		12/30/08 17:17	71-55-6	
Trichloroethene	ND	ug/m3	0.99	1.8		12/30/08 17:17	79-01-6	
Vinyl chloride	ND	ug/m3	0.94	1.8		12/30/08 17:17	75-01-4	

ANALYTICAL RESULTS

Project: 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: 1334 Clore Indoor-Cert		Lab ID: 1086904002	Collected: 12/23/08 09:50	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/08/08 10:54	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/08/08 10:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/08/08 10:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/08/08 10:54	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/08/08 10:54	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/08/08 10:54	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/08/08 10:54	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/08/08 10:54	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: 1334 Clore Crawl		Lab ID: 1086904003	Collected: 12/23/08 10:00	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.0	1.25		12/30/08 17:50	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.0	1.25		12/30/08 17:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.0	1.25		12/30/08 17:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.0	1.25		12/30/08 17:50	156-60-5	
Tetrachloroethene	4.7	ug/m3	1.8	1.25		12/30/08 17:50	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.4	1.25		12/30/08 17:50	71-55-6	
Trichloroethene	ND	ug/m3	0.69	1.25		12/30/08 17:50	79-01-6	
Vinyl chloride	ND	ug/m3	0.65	1.25		12/30/08 17:50	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: 1334 Clore Crawl-Cert		Lab ID: 1086904004	Collected: 12/23/08 10:00	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/05/08 16:28	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/05/08 16:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/05/08 16:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/05/08 16:28	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/05/08 16:28	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/05/08 16:28	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/05/08 16:28	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/05/08 16:28	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: 1334 Clore Outdoor		Lab ID: 1086904005	Collected: 12/23/08 10:05	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.3	1.59		12/30/08 18:22	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.3	1.59		12/30/08 18:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.59		12/30/08 18:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.59		12/30/08 18:22	156-60-5	
Tetrachloroethene	ND	ug/m3	2.2	1.59		12/30/08 18:22	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.59		12/30/08 18:22	71-55-6	
Trichloroethene	ND	ug/m3	0.87	1.59		12/30/08 18:22	79-01-6	
Vinyl chloride	ND	ug/m3	0.83	1.59		12/30/08 18:22	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: 1334 Clore Outdoor-Cert		Lab ID: 1086904006	Collected: 12/23/08 10:05	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/05/08 15:29	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/05/08 15:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/05/08 15:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/05/08 15:29	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/05/08 15:29	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/05/08 15:29	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/05/08 15:29	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/05/08 15:29	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: Plant Floor South		Lab ID: 1086904007	Collected: 12/23/08 12:45	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.1	1.34		12/30/08 18:55	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.1	1.34		12/30/08 18:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		12/30/08 18:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		12/30/08 18:55	156-60-5	
Tetrachloroethene	41.7	ug/m3	1.9	1.34		12/30/08 18:55	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.34		12/30/08 18:55	71-55-6	
Trichloroethene	ND	ug/m3	0.74	1.34		12/30/08 18:55	79-01-6	
Vinyl chloride	ND	ug/m3	0.70	1.34		12/30/08 18:55	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: Plant Floor South-Cert		Lab ID: 1086904008	Collected: 12/23/08 12:45	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		11/18/08 09:12	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		11/18/08 09:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		11/18/08 09:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		11/18/08 09:12	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		11/18/08 09:12	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		11/18/08 09:12	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		11/18/08 09:12	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		11/18/08 09:12	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: Plant Floor North		Lab ID: 1086904009	Collected: 12/23/08 12:50	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.1	1.38		12/30/08 19:59	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.1	1.38		12/30/08 19:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.38		12/30/08 19:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.38		12/30/08 19:59	156-60-5	
Tetrachloroethene	39.8	ug/m3	1.9	1.38		12/30/08 19:59	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.38		12/30/08 19:59	71-55-6	
Trichloroethene	ND	ug/m3	0.76	1.38		12/30/08 19:59	79-01-6	
Vinyl chloride	ND	ug/m3	0.72	1.38		12/30/08 19:59	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: Plant Floor North-Cert		Lab ID: 1086904010	Collected: 12/23/08 12:50	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/17/08 05:13	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/17/08 05:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/17/08 05:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/17/08 05:13	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/17/08 05:13	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/17/08 05:13	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/17/08 05:13	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/17/08 05:13	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: Warehouse North		Lab ID: 1086904011	Collected: 12/23/08 12:50	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.1	1.34		12/30/08 20:31	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.1	1.34		12/30/08 20:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		12/30/08 20:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		12/30/08 20:31	156-60-5	
Tetrachloroethene	32.6	ug/m3	1.9	1.34		12/30/08 20:31	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.34		12/30/08 20:31	71-55-6	
Trichloroethene	ND	ug/m3	0.74	1.34		12/30/08 20:31	79-01-6	
Vinyl chloride	ND	ug/m3	0.70	1.34		12/30/08 20:31	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: Warehouse North-Cert		Lab ID: 1086904012	Collected: 12/23/08 12:50	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/17/08 16:57	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/17/08 16:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/17/08 16:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/17/08 16:57	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/17/08 16:57	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/17/08 16:57	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/17/08 16:57	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/17/08 16:57	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: Warehouse Center		Lab ID: 1086904013	Collected: 12/23/08 12:55	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO 15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.0	1.25		12/30/08 21:04	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.0	1.25		12/30/08 21:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.0	1.25		12/30/08 21:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.0	1.25		12/30/08 21:04	156-60-5	
Tetrachloroethene	38.2	ug/m3	1.8	1.25		12/30/08 21:04	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.4	1.25		12/30/08 21:04	71-55-6	
Trichloroethene	ND	ug/m3	0.69	1.25		12/30/08 21:04	79-01-6	
Vinyl chloride	ND	ug/m3	0.65	1.25		12/30/08 21:04	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: Warehouse Center-Cert		Lab ID: 1086904014	Collected: 12/23/08 12:55	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/18/08 09:27	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/18/08 09:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/18/08 09:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/18/08 09:27	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/18/08 09:27	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/18/08 09:27	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/18/08 09:27	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/18/08 09:27	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: Warehouse South		Lab ID: 1086904015	Collected: 12/23/08 13:00	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.1	1.34		12/30/08 21:35	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.1	1.34		12/30/08 21:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		12/30/08 21:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		12/30/08 21:35	156-60-5	
Tetrachloroethene	71.4	ug/m3	1.9	1.34		12/30/08 21:35	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.34		12/30/08 21:35	71-55-6	
Trichloroethene	ND	ug/m3	0.74	1.34		12/30/08 21:35	79-01-6	
Vinyl chloride	ND	ug/m3	0.70	1.34		12/30/08 21:35	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: Warehouse South-Cert		Lab ID: 1086904016	Collected: 12/23/08 13:00	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/17/08 16:26	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/17/08 16:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/17/08 16:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/17/08 16:26	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/17/08 16:26	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/17/08 16:26	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/17/08 16:26	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/17/08 16:26	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: IT Office		Lab ID: 1086904017	Collected: 12/23/08 13:05	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.3	1.54		12/30/08 22:07	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.2	1.54		12/30/08 22:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.54		12/30/08 22:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.54		12/30/08 22:07	156-60-5	
Tetrachloroethene	13.2	ug/m3	2.2	1.54		12/30/08 22:07	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.54		12/30/08 22:07	71-55-6	
Trichloroethene	ND	ug/m3	0.85	1.54		12/30/08 22:07	79-01-6	
Vinyl chloride	ND	ug/m3	0.80	1.54		12/30/08 22:07	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: IT Office-Cert		Lab ID: 1086904018	Collected: 12/23/08 13:05	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/07/08 15:54	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 15:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 15:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 15:54	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/07/08 15:54	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/07/08 15:54	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/07/08 15:54	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/07/08 15:54	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: NE Office Area		Lab ID: 1086904019	Collected: 12/23/08 13:10	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.1	1.34		12/30/08 22:39	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.1	1.34		12/30/08 22:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		12/30/08 22:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		12/30/08 22:39	156-60-5	
Tetrachloroethene	8.1	ug/m3	1.9	1.34		12/30/08 22:39	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.34		12/30/08 22:39	71-55-6	
Trichloroethene	ND	ug/m3	0.74	1.34		12/30/08 22:39	79-01-6	
Vinyl chloride	ND	ug/m3	0.70	1.34		12/30/08 22:39	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: NE Office Area-Cert		Lab ID: 1086904020	Collected: 12/23/08 13:10	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/07/08 16:57	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 16:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 16:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 16:57	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/07/08 16:57	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/07/08 16:57	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/07/08 16:57	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/07/08 16:57	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: Test Lab		Lab ID: 1086904021	Collected: 12/23/08 13:15	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.1	1.34		12/30/08 23:11	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.1	1.34		12/30/08 23:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		12/30/08 23:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		12/30/08 23:11	156-60-5	
Tetrachloroethene	2.9	ug/m3	1.9	1.34		12/30/08 23:11	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.34		12/30/08 23:11	71-55-6	
Trichloroethene	ND	ug/m3	0.74	1.34		12/30/08 23:11	79-01-6	
Vinyl chloride	ND	ug/m3	0.70	1.34		12/30/08 23:11	75-01-4	

ANALYTICAL RESULTS

Project: 10300 Harman Becker Martinsv.
Pace Project No.: 1086904

Sample: Test Lab-Cert		Lab ID: 1086904022	Collected: 12/23/08 13:15	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/07/08 16:26	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 16:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 16:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 16:26	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/07/08 16:26	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/07/08 16:26	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/07/08 16:26	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/07/08 16:26	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: Test Lab Dup		Lab ID: 1086904023	Collected: 12/23/08 13:15	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.1	1.34		12/30/08 23:42	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.1	1.34		12/30/08 23:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		12/30/08 23:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		12/30/08 23:42	156-60-5	
Tetrachloroethene	5.5	ug/m3	1.9	1.34		12/30/08 23:42	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.34		12/30/08 23:42	71-55-6	
Trichloroethene	ND	ug/m3	0.74	1.34		12/30/08 23:42	79-01-6	
Vinyl chloride	ND	ug/m3	0.70	1.34		12/30/08 23:42	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: Test Lab Dup-Cert		Lab ID: 1086904024	Collected: 12/23/08 13:15	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/17/08 04:42	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/17/08 04:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/17/08 04:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/17/08 04:42	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/17/08 04:42	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/17/08 04:42	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/17/08 04:42	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/17/08 04:42	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: Room 120		Lab ID: 1086904025	Collected: 12/23/08 13:20	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.1	1.34		12/31/08 00:14	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.1	1.34		12/31/08 00:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		12/31/08 00:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		12/31/08 00:14	156-60-5	
Tetrachloroethene	18.4	ug/m3	1.9	1.34		12/31/08 00:14	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.34		12/31/08 00:14	71-55-6	
Trichloroethene	ND	ug/m3	0.74	1.34		12/31/08 00:14	79-01-6	
Vinyl chloride	ND	ug/m3	0.70	1.34		12/31/08 00:14	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: Room 121-Cert		Lab ID: 1086904026	Collected: 12/23/08 13:20	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/17/08 17:28	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/17/08 17:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/17/08 17:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/17/08 17:28	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/17/08 17:28	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/17/08 17:28	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/17/08 17:28	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/17/08 17:28	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: Cafeteria		Lab ID: 1086904027	Collected: 12/23/08 13:25	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.6	1.97		12/31/08 00:46	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.6	1.97		12/31/08 00:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.6	1.97		12/31/08 00:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.6	1.97		12/31/08 00:46	156-60-5	
Tetrachloroethene	17.7	ug/m3	2.8	1.97		12/31/08 00:46	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	2.2	1.97		12/31/08 00:46	71-55-6	
Trichloroethene	ND	ug/m3	1.1	1.97		12/31/08 00:46	79-01-6	
Vinyl chloride	ND	ug/m3	1.0	1.97		12/31/08 00:46	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086904

Sample: Cafeteria-Cert		Lab ID: 1086904028	Collected: 12/23/08 13:25	Received: 12/24/08 10:15	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		11/11/08 16:29	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		11/11/08 16:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		11/11/08 16:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		11/11/08 16:29	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		11/11/08 16:29	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		11/11/08 16:29	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		11/11/08 16:29	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		11/11/08 16:29	75-01-4	

QUALITY CONTROL DATA

Project: 10300 Harman Becker Martinsv.
Pace Project No.: 1086904

QC Batch: AIR/7915 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 1086904001, 1086904003, 1086904005, 1086904007, 1086904009, 1086904011, 1086904013, 1086904015, 1086904017, 1086904019, 1086904021, 1086904023, 1086904025, 1086904027

METHOD BLANK: 568834 Matrix: Air
Associated Lab Samples: 1086904001, 1086904003, 1086904005, 1086904007, 1086904009, 1086904011, 1086904013, 1086904015, 1086904017, 1086904019, 1086904021, 1086904023, 1086904025, 1086904027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	12/30/08 16:11	
1,1-Dichloroethane	ug/m3	ND	0.82	12/30/08 16:11	
1,1-Dichloroethene	ug/m3	ND	0.81	12/30/08 16:11	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	12/30/08 16:11	
Tetrachloroethene	ug/m3	ND	1.4	12/30/08 16:11	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	12/30/08 16:11	
Trichloroethene	ug/m3	ND	0.55	12/30/08 16:11	
Vinyl chloride	ug/m3	ND	0.52	12/30/08 16:11	

LABORATORY CONTROL SAMPLE: 568835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	61	62.9	103	60-134	
1,1-Dichloroethane	ug/m3	37	38.4	104	59-136	
1,1-Dichloroethene	ug/m3	41.5	42.5	102	60-137	
cis-1,2-Dichloroethene	ug/m3	41.1	42.4	103	62-135	
Tetrachloroethene	ug/m3	73.1	73.0	100	60-137	
trans-1,2-Dichloroethene	ug/m3	43.1	44.8	104	50-150	
Trichloroethene	ug/m3	55.2	65.7	119	60-134	
Vinyl chloride	ug/m3	25.2	27.2	108	66-132	

SAMPLE DUPLICATE: 569018

Parameter	Units	1086842005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	400	399	.3	25	E
1,1-Dichloroethane	ug/m3	8.2	8.1	2	25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	96.3	88.9	8	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	3.3	3.1	7	25	
Vinyl chloride	ug/m3	ND	ND		25	

SAMPLE DUPLICATE: 569019

Parameter	Units	1086904007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	

Date: 12/31/2008 12:42 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086904

SAMPLE DUPLICATE: 569019

Parameter	Units	1086904007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	41.7	41.6	.1	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

QUALIFIERS

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086904

DEFINITIONS

DF - Dilution Factor, If reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086904

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1086904002	1334 Clore Indoor-Cert	TO-15	AIR/7897		
1086904004	1334 Clore Crawl-Cert	TO-15	AIR/7897		
1086904006	1334 Clore Outdoor-Cert	TO-15	AIR/7897		
1086904008	Plant Floor South-Cert	TO-15	AIR/7897		
1086904010	Plant Floor North-Cert	TO-15	AIR/7897		
1086904012	Warehouse North-Cert	TO-15	AIR/7897		
1086904014	Warehouse Center-Cert	TO-15	AIR/7897		
1086904016	Warehouse South-Cert	TO-15	AIR/7897		
1086904018	IT Office-Cert	TO-15	AIR/7898		
1086904020	NE Office Area-Cert	TO-15	AIR/7898		
1086904022	Test Lab-Cert	TO-15	AIR/7898		
1086904024	Test Lab Dup-Cert	TO-15	AIR/7898		
1086904026	Room 121-Cert	TO-15	AIR/7898		
1086904028	Cafeteria-Cert	TO-15	AIR/7898		
1086904001	1334 Clore Indoor	TO-15	AIR/7915		
1086904003	1334 Clore Crawl	TO-15	AIR/7915		
1086904005	1334 Clore Outdoor	TO-15	AIR/7915		
1086904007	Plant Floor South	TO-15	AIR/7915		
1086904009	Plant Floor North	TO-15	AIR/7915		
1086904011	Warehouse North	TO-15	AIR/7915		
1086904013	Warehouse Center	TO-15	AIR/7915		
1086904015	Warehouse South	TO-15	AIR/7915		
1086904017	IT Office	TO-15	AIR/7915		
1086904019	NE Office Area	TO-15	AIR/7915		
1086904021	Test Lab	TO-15	AIR/7915		
1086904023	Test Lab Dup	TO-15	AIR/7915		
1086904025	Room 120	TO-15	AIR/7915		
1086904027	Cafeteria	TO-15	AIR/7915		

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1086904

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: KERAMIDA	Report To: Frank West	Report To: Frank West	Attention: Frank West	Company Name: SAWEE	Invoice Number: 1221285
Address: 1401 N. College Ave.	Copy To:	Address: SAWEE	Company Address:	Address:	
City/State/Zip: Indpls, IN 46202		Purchase Order No.: 10300	Price Quote Reference:	Price Quote:	
Email: twoto@keramida.com		Project Name: Harman Becker	Price Project Manager:	Price Project #:	
Phone: 317-685-4675		Project Number: 10300			
Requested Due Date/TAT:					

ITEM #	Matrix Codes MATRIX CODE	Matrix Codes MATRIX CODE	SAMPLE CODE (see field codes to left)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB						
1	1334 Clave Indoor		C 1334	1010	1010	950	1	Unpreserved	X		1086904 001, 002
2	1334 Clave Crawl			1030	1030	1000	1		X		003, 004
3	1334 Clave Outdoor			1035	1035	1005	1		X		005, 006
4	Plant Floor South			1305	1305	1245	1		X		007, 008
5	Plant Floor North			1310	1310	1250	2		X		009, 010
6	Warehouse North			1315	1315	1250	1		X		011, 012
7	Warehouse Center			1320	1320	1255	1		X		013, 014
8	Warehouse South			1325	1325	1300	1		X		015, 016
9	IT Office			1330	1330	1305	1		X		017, 018
10	NE Office Area			1335	1335	1310	1		X		019, 020
11	Test Lab			1350	1350	1315	1		X		021, 022
12	Test Lab Day			1350	1350	1315	1		X		023, 024

ADDITIONAL COMMENTS:		RELINQUISHED BY/ AFFILIATION		DATE		TIME		ACCEPTED BY/ AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
		Frank West		12/20/08		1600		Frank West		12/20/08		1015		N Y	
ORIGINAL SAMPLER NAME AND SIGNATURE PRINT NAME OF SAMPLER: SIGNATURE OF SAMPLER:															
Temp in °C Received on Sealed Cooler Custody Samples Intake															

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1086904
Page: 2 of 2
1198182

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:		Report To:		Attention:	
Address:		Copy To:		Company Name:	
Email To:		Purchase Order No.:		Address:	
Phone:		Project Name:		Pace Quote Reference:	
Requested Due Date/TAT:		Project Number:		Pace Project Manager:	
				Pace Profile #:	

REGULATORY AGENCY	
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER	☐ UST ☐ RCRA ☐ OTHER
Site Location:	State:

ITEM #	Section D Required Client Information	Matrix Codes MATRIX CODE Drinking Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	MATRIX CODE (See valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N	↓ Analysis Test ↓	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
					COMPOSITE START	COMPOSITE END/GROUP	DATE	TIME			DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
1	Room 120		ALC	C	12/2/04	1355	12/2/04	1320		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	20.0.0.0	12/2/04	1600	Fed. 29	12/2/04	10:15	AS N N X

ORIGINAL		Temp in °C	Received on	Custody	Sealed Cooler	Samples Intact
SAMPLER NAME AND SIGNATURE						
PRINT Name of SAMPLER:						
SIGNATURE of SAMPLER:						
DATE Signed (MM/DD/YYYY):						

*Important Note: By signing this form you are accepting Pace's MET 30 day payment terms and agreeing to use charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Face Analytical

Client Name: KERAMINA

Project # 1086904

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Tracking #: 7922 0762 5939 6889; 7962 1114 6345, 6242

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Optional:
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other

Temp Blank: Yes ☐ No ☒

Thermometer Used 60344042, 179425

Type of Ice: Wet ☐ Blue ☒ None

☐ Samples on ice, cooling process has begun

Cooler Temperature Amb

Biological Tissue is Frozen: Yes ☐ No ☐

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 12/24/08

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Reinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☐ Yes ☒ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>BR (CAN)</u>		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐ Yes ☐ No ☒ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, W-DRO (water)	☐ Yes ☐ No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	15.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	16.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: 15 GMS, 15 FC'S

Project Manager Review:

DKP

Date: 12/24/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

REVIEWED

12/24/08

AP

December 31, 2008

Frank West
Keramida Environmental, INC.
401 North College Ave.
Indianapolis, IN 46202

RE: Project: 10300 Harman Becker Martinsv.
Pace Project No.: 1086842

Dear Frank West:

Enclosed are the analytical results for sample(s) received by the laboratory on December 23, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Colin Schuft

colin.schuft@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 31

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CERTIFICATIONS

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086842

Minnesota Certification IDs

Tennessee Certification #: 02818
Wisconsin Certification #: 999407970
Washington Certification #: C754
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137

Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Alaska Certification #: UST-078

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086842

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1086842001	Plant Floor South Sub Slab	Air	12/22/08 14:05	12/23/08 10:10
1086842002	Plant Floor South Sub Slab-Cer	Air	12/22/08 14:05	12/23/08 10:10
1086842003	Plant Floor North Sub Slab	Air	12/22/08 14:10	12/23/08 10:10
1086842004	Plant Floor North Sub Slab-Cer	Air	12/22/08 14:10	12/23/08 10:10
1086842005	Warehouse North Sub Slab	Air	12/22/08 14:15	12/23/08 10:10
1086842006	Warehouse North Sub Slab-Cert	Air	12/22/08 14:15	12/23/08 10:10
1086842007	Warehouse Center Sub Slab	Air	12/22/08 14:20	12/23/08 10:10
1086842008	Warehouse Center Sub Slab-Cert	Air	12/22/08 14:20	12/23/08 10:10
1086842009	Warehouse South Sub Slab	Air	12/22/08 14:25	12/23/08 10:10
1086842010	Warehouse South Sub Slab-Cert	Air	12/22/08 14:25	12/23/08 10:10
1086842011	IT Office Sub Slab	Air	12/22/08 14:30	12/23/08 10:10
1086842012	IT Office Sub Slab-Cert	Air	12/22/08 14:30	12/23/08 10:10
1086842013	NE Office Sub Slab	Air	12/22/08 14:35	12/23/08 10:10
1086842014	NE Office Sub Slab-Cert	Air	12/22/08 14:35	12/23/08 10:10
1086842015	Test Lab Sub Slab	Air	12/22/08 14:40	12/23/08 10:10
1086842016	Test Lab Sub Slab-Cert	Air	12/22/08 14:40	12/23/08 10:10
1086842017	Test Lab Sub Slab-Dup	Air	12/22/08 14:40	12/23/08 10:10
1086842018	Test Lab Sub Slab-Dup-Cert	Air	12/22/08 14:40	12/23/08 10:10
1086842019	Room 120 Sub Slab	Air	12/22/08 14:50	12/23/08 10:10
1086842020	Room 120 Sub Slab-Cert	Air	12/22/08 14:50	12/23/08 10:10
1086842021	Cafeteria Sub Slab	Air	12/22/08 14:55	12/23/08 10:10
1086842022	Cafeteria Sub Slab-Cert	Air	12/22/08 14:55	12/23/08 10:10

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SAMPLE ANALYTE COUNT

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086842

Lab ID	Sample ID	Method	Analysts	Analytes Reported
1086842001	Plant Floor South Sub Slab	TO-15	DB1	8
1086842002	Plant Floor South Sub Slab-Cer	TO-15	DB1	8
1086842003	Plant Floor North Sub Slab	TO-15	DB1	8
1086842004	Plant Floor North Sub Slab-Cer	TO-15	DB1	8
1086842005	Warehouse North Sub Slab	TO-15	DB1	8
1086842006	Warehouse North Sub Slab-Cert	TO-15	DB1	8
1086842007	Warehouse Center Sub Slab	TO-15	DB1	8
1086842008	Warehouse Center Sub Slab-Cert	TO-15	DB1	8
1086842009	Warehouse South Sub Slab	TO-15	AEP	8
1086842010	Warehouse South Sub Slab-Cert	TO-15	DB1	8
1086842011	IT Office Sub Slab	TO-15	AEP	8
1086842012	IT Office Sub Slab-Cert	TO-15	DB1	8
1086842013	NE Office Sub Slab	TO-15	AEP	8
1086842014	NE Office Sub Slab-Cert	TO-15	DB1	8
1086842015	Test Lab Sub Slab	TO-15	AEP	8
1086842016	Test Lab Sub Slab-Cert	TO-15	DB1	8
1086842017	Test Lab Sub Slab-Dup	TO-15	AEP	8
1086842018	Test Lab Sub Slab-Dup-Cert	TO-15	DB1	8
1086842019	Room 120 Sub Slab	TO-15	AEP	8
1086842020	Room 120 Sub Slab-Cert	TO-15	DB1	8
1086842021	Cafeteria Sub Slab	TO-15	AEP	8
1086842022	Cafeteria Sub Slab-Cert	TO-15	DB1	8

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ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086842

Sample: Plant Floor South Sub Slab		Lab ID: 1086842001	Collected: 12/22/08 14:05	Received: 12/23/08 10:10	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.4	1.68		12/31/08 01:18	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.68		12/31/08 01:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		12/31/08 01:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		12/31/08 01:18	156-60-5	
Tetrachloroethene	3270	ug/m3	2.4	1.68		12/31/08 01:18	127-18-4	E
1,1,1-Trichloroethane	104	ug/m3	1.8	1.68		12/31/08 01:18	71-55-6	
Trichloroethene	305	ug/m3	0.92	1.68		12/31/08 01:18	79-01-6	E
Vinyl chloride	ND	ug/m3	0.87	1.68		12/31/08 01:18	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086842

Sample: Plant Floor South Sub Slab-Cer Lab ID: 1086842002 Collected: 12/22/08 14:05 Received: 12/23/08 10:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/06/08 10:07	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/06/08 10:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/06/08 10:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/06/08 10:07	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/06/08 10:07	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/06/08 10:07	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/06/08 10:07	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/06/08 10:07	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086842

Sample: Plant Floor North Sub Slab		Lab ID: 1086842003	Collected: 12/22/08 14:10	Received: 12/23/08 10:10	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.3	1.57		12/31/08 01:49	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.3	1.57		12/31/08 01:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/31/08 01:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.57		12/31/08 01:49	156-60-5	
Tetrachloroethene	2030	ug/m3	2.2	1.57		12/31/08 01:49	127-18-4	E
1,1,1-Trichloroethane	72.5	ug/m3	1.7	1.57		12/31/08 01:49	71-55-6	
Trichloroethene	61.6	ug/m3	0.86	1.57		12/31/08 01:49	79-01-6	
Vinyl chloride	ND	ug/m3	0.82	1.57		12/31/08 01:49	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086842

Sample: Plant Floor North Sub Slab-Cer Lab ID: 1086842004 Collected: 12/22/08 14:10 Received: 12/23/08 10:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/02/08 12:41	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/02/08 12:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/02/08 12:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/02/08 12:41	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/02/08 12:41	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/02/08 12:41	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/02/08 12:41	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/02/08 12:41	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086842

Sample: Warehouse North Sub Slab		Lab ID: 1086842005	Collected: 12/22/08 14:15	Received: 12/23/08 10:10	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	8.2 ug/m3		1.4	1.68		12/31/08 02:21	75-34-3	
1,1-Dichloroethene	ND ug/m3		1.4	1.68		12/31/08 02:21	75-35-4	
cis-1,2-Dichloroethene	ND ug/m3		1.4	1.68		12/31/08 02:21	156-59-2	
trans-1,2-Dichloroethene	ND ug/m3		1.4	1.68		12/31/08 02:21	156-60-5	
Tetrachloroethene	96.3 ug/m3		2.4	1.68		12/31/08 02:21	127-18-4	
1,1,1-Trichloroethane	400 ug/m3		1.8	1.68		12/31/08 02:21	71-55-6	E
Trichloroethene	3.3 ug/m3		0.92	1.68		12/31/08 02:21	79-01-6	
Vinyl chloride	ND ug/m3		0.87	1.68		12/31/08 02:21	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086842

Sample: Warehouse North Sub Lab ID: 1086842006 Collected: 12/22/08 14:15 Received: 12/23/08 10:10 Matrix: Air
Slab-Cert

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/05/08 19:54	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/05/08 19:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/05/08 19:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/05/08 19:54	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/05/08 19:54	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/05/08 19:54	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/05/08 19:54	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/05/08 19:54	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086842

Sample: Warehouse Center Sub Slab Lab ID: 1086842007 Collected: 12/22/08 14:20 Received: 12/23/08 10:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	3.3 ug/m3		1.4	1.68		12/31/08 03:24	75-34-3	
1,1-Dichloroethene	ND ug/m3		1.4	1.68		12/31/08 03:24	75-35-4	
cis-1,2-Dichloroethene	ND ug/m3		1.4	1.68		12/31/08 03:24	156-59-2	
trans-1,2-Dichloroethene	2.8 ug/m3		1.4	1.68		12/31/08 03:24	156-60-5	
Tetrachloroethene	3740 ug/m3		2.4	1.68		12/31/08 03:24	127-18-4	E
1,1,1-Trichloroethane	97.9 ug/m3		1.8	1.68		12/31/08 03:24	71-55-6	
Trichloroethene	56.2 ug/m3		0.92	1.68		12/31/08 03:24	79-01-6	
Vinyl chloride	ND ug/m3		0.87	1.68		12/31/08 03:24	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086842

Sample: Warehouse Center Sub Slab-Cert Lab ID: 1086842008 Collected: 12/22/08 14:20 Received: 12/23/08 10:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/07/08 10:35	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 10:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 10:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 10:35	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/07/08 10:35	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/07/08 10:35	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/07/08 10:35	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/07/08 10:35	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086842

Sample: Warehouse South Sub Slab Lab ID: 1086842009 Collected: 12/22/08 14:25 Received: 12/23/08 10:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	5880	7175.2		12/31/08 13:59	75-34-3	
1,1-Dichloroethene	ND	ug/m3	5810	7175.2		12/31/08 13:59	75-35-4	
cis-1,2-Dichloroethene	21900	ug/m3	5810	7175.2		12/31/08 13:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	5810	7175.2		12/31/08 13:59	156-60-5	
Tetrachloroethene	3730000	ug/m3	10000	7175.2		12/31/08 13:59	127-18-4	E
1,1,1-Trichloroethane	ND	ug/m3	7890	7175.2		12/31/08 13:59	71-55-6	
Trichloroethene	144000	ug/m3	3950	7175.2		12/31/08 13:59	79-01-6	
Vinyl chloride	ND	ug/m3	3730	7175.2		12/31/08 13:59	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086842

Sample: Warehouse South Sub Lab ID: 1086842010 Collected: 12/22/08 14:25 Received: 12/23/08 10:10 Matrix: Air
Slab-Cert

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/07/08 15:22	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 15:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 15:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 15:22	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/07/08 15:22	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/07/08 15:22	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/07/08 15:22	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/07/08 15:22	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086842

Sample: IT Office Sub Slab		Lab ID: 1086842011	Collected: 12/22/08 14:30	Received: 12/23/08 10:10	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	27.6	33.6		12/31/08 12:01	75-34-3	
1,1-Dichloroethene	ND	ug/m3	27.2	33.6		12/31/08 12:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	27.2	33.6		12/31/08 12:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	27.2	33.6		12/31/08 12:01	156-60-5	
Tetrachloroethene	3750	ug/m3	47.0	33.6		12/31/08 12:01	127-18-4	
1,1,1-Trichloroethane	103	ug/m3	37.0	33.6		12/31/08 12:01	71-55-6	
Trichloroethene	173	ug/m3	18.5	33.6		12/31/08 12:01	79-01-6	
Vinyl chloride	ND	ug/m3	17.5	33.6		12/31/08 12:01	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086842

Sample: IT Office Sub Slab-Cert		Lab ID: 1086842012	Collected: 12/22/08 14:30	Received: 12/23/08 10:10	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		11/26/08 13:36	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		11/26/08 13:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		11/26/08 13:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		11/26/08 13:36	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		11/26/08 13:36	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		11/26/08 13:36	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		11/26/08 13:36	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		11/26/08 13:36	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086842

Sample: NE Office Sub Slab		Lab ID: 1086842013	Collected: 12/22/08 14:35	Received: 12/23/08 10:10	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	27.6	33.6		12/31/08 12:31	75-34-3	
1,1-Dichloroethene	ND	ug/m3	27.2	33.6		12/31/08 12:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	27.2	33.6		12/31/08 12:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	27.2	33.6		12/31/08 12:31	156-60-5	
Tetrachloroethene	3180	ug/m3	47.0	33.6		12/31/08 12:31	127-18-4	
1,1,1-Trichloroethane	80.5	ug/m3	37.0	33.6		12/31/08 12:31	71-55-6	
Trichloroethene	ND	ug/m3	18.5	33.6		12/31/08 12:31	79-01-6	
Vinyl chloride	ND	ug/m3	17.5	33.6		12/31/08 12:31	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086842

Sample: NE Office Sub Slab-Cert		Lab ID: 1086842014	Collected: 12/22/08 14:35	Received: 12/23/08 10:10	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/07/08 09:32	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 09:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 09:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 09:32	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/07/08 09:32	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/07/08 09:32	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/07/08 09:32	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/07/08 09:32	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086842

Sample: Test Lab Sub Slab		Lab ID: 1086842015	Collected: 12/22/08 14:40	Received: 12/23/08 10:10	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	27.6	33.6		12/31/08 13:00	75-34-3	
1,1-Dichloroethene	ND	ug/m3	27.2	33.6		12/31/08 13:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	27.2	33.6		12/31/08 13:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	27.2	33.6		12/31/08 13:00	156-60-5	
Tetrachloroethene	935	ug/m3	47.0	33.6		12/31/08 13:00	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	37.0	33.6		12/31/08 13:00	71-55-6	
Trichloroethene	19.1	ug/m3	18.5	33.6		12/31/08 13:00	79-01-6	
Vinyl chloride	ND	ug/m3	17.5	33.6		12/31/08 13:00	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086842

Sample: Test Lab Sub Slab-Cert		Lab ID: 1086842016	Collected: 12/22/08 14:40	Received: 12/23/08 10:10	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/05/08 18:44	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/05/08 18:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/05/08 18:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/05/08 18:44	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/05/08 18:44	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/05/08 18:44	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/05/08 18:44	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/05/08 18:44	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086842

Sample: Test Lab Sub Slab-Dup		Lab ID: 1086842017	Collected: 12/22/08 14:40	Received: 12/23/08 10:10	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	27.6	33.6		12/31/08 13:29	75-34-3	
1,1-Dichloroethene	ND	ug/m3	27.2	33.6		12/31/08 13:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	27.2	33.6		12/31/08 13:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	27.2	33.6		12/31/08 13:29	156-60-5	
Tetrachloroethene	943	ug/m3	47.0	33.6		12/31/08 13:29	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	37.0	33.6		12/31/08 13:29	71-55-6	
Trichloroethene	21.8	ug/m3	18.5	33.6		12/31/08 13:29	79-01-6	
Vinyl chloride	ND	ug/m3	17.5	33.6		12/31/08 13:29	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086842

Sample: Test Lab Sub Slab-Dup- Lab ID: 1086842018 Collected: 12/22/08 14:40 Received: 12/23/08 10:10 Matrix: Air
Cert

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/06/08 12:07	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/06/08 12:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/06/08 12:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/06/08 12:07	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/06/08 12:07	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/06/08 12:07	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/06/08 12:07	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/06/08 12:07	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086842

Sample: Room 120 Sub Slab		Lab ID: 1086842019	Collected: 12/22/08 14:50	Received: 12/23/08 10:10	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	2.3	2.82		12/31/08 11:01	75-34-3	
1,1-Dichloroethene	ND	ug/m3	2.3	2.82		12/31/08 11:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	2.3	2.82		12/31/08 11:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	2.3	2.82		12/31/08 11:01	156-60-5	
Tetrachloroethene	4190	ug/m3	3.9	2.82		12/31/08 11:01	127-18-4	E
1,1,1-Trichloroethane	145	ug/m3	3.1	2.82		12/31/08 11:01	71-55-6	
Trichloroethene	69.8	ug/m3	1.6	2.82		12/31/08 11:01	79-01-6	
Vinyl chloride	ND	ug/m3	1.5	2.82		12/31/08 11:01	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086842

Sample: Room 120 Sub Slab-Cert		Lab ID: 1086842020	Collected: 12/22/08 14:50	Received: 12/23/08 10:10	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/06/08 13:12	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/06/08 13:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/06/08 13:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/06/08 13:12	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/06/08 13:12	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/06/08 13:12	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/06/08 13:12	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/06/08 13:12	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086842

Sample: Cafeteria Sub Slab		Lab ID: 1086842021	Collected: 12/22/08 14:55	Received: 12/23/08 10:10	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	2.3	2.82		12/31/08 11:32	75-34-3	
1,1-Dichloroethene	ND	ug/m3	2.3	2.82		12/31/08 11:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	2.3	2.82		12/31/08 11:32	156-59-2	
trans-1,2-Dichloroethene	2.8	ug/m3	2.3	2.82		12/31/08 11:32	156-60-5	
Tetrachloroethene	1210	ug/m3	3.9	2.82		12/31/08 11:32	127-18-4	E
1,1,1-Trichloroethane	79.7	ug/m3	3.1	2.82		12/31/08 11:32	71-55-6	
Trichloroethene	235	ug/m3	1.6	2.82		12/31/08 11:32	79-01-6	
Vinyl chloride	ND	ug/m3	1.5	2.82		12/31/08 11:32	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1086842

Sample: Cafeteria Sub Slab-Cert		Lab ID: 1086842022	Collected: 12/22/08 14:55	Received: 12/23/08 10:10	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/07/08 08:28	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 08:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 08:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 08:28	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/07/08 08:28	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/07/08 08:28	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/07/08 08:28	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/07/08 08:28	75-01-4	

QUALITY CONTROL DATA

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086842

QC Batch: AIR/7915 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 1086842001, 1086842003, 1086842005, 1086842007

METHOD BLANK: 568834 Matrix: Air
Associated Lab Samples: 1086842001, 1086842003, 1086842005, 1086842007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	12/30/08 16:11	
1,1-Dichloroethane	ug/m3	ND	0.82	12/30/08 16:11	
1,1-Dichloroethene	ug/m3	ND	0.81	12/30/08 16:11	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	12/30/08 16:11	
Tetrachloroethene	ug/m3	ND	1.4	12/30/08 16:11	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	12/30/08 16:11	
Trichloroethene	ug/m3	ND	0.55	12/30/08 16:11	
Vinyl chloride	ug/m3	ND	0.52	12/30/08 16:11	

LABORATORY CONTROL SAMPLE: 568835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	61	62.9	103	60-134	
1,1-Dichloroethane	ug/m3	37	38.4	104	59-136	
1,1-Dichloroethene	ug/m3	41.5	42.5	102	60-137	
cis-1,2-Dichloroethene	ug/m3	41.1	42.4	103	62-135	
Tetrachloroethene	ug/m3	73.1	73.0	100	60-137	
trans-1,2-Dichloroethene	ug/m3	43.1	44.8	104	50-150	
Trichloroethene	ug/m3	55.2	65.7	119	60-134	
Vinyl chloride	ug/m3	25.2	27.2	108	66-132	

SAMPLE DUPLICATE: 569018

Parameter	Units	1086842005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	400	399	.3	25	E
1,1-Dichloroethane	ug/m3	8.2	8.1	2	25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	96.3	88.9	8	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	3.3	3.1	7	25	
Vinyl chloride	ug/m3	ND	ND		25	

SAMPLE DUPLICATE: 569019

Parameter	Units	1086904007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	

Date: 12/31/2008 02:58 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086842

SAMPLE DUPLICATE: 569019

Parameter	Units	1086904007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethene	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	41.7	41.6	.1	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

QUALITY CONTROL DATA

Project: 10300 Harman Becker Martinsv.
Pace Project No.: 1086842

QC Batch: AIR/7918 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 1086842009, 1086842011, 1086842013, 1086842015, 1086842017, 1086842019, 1086842021

METHOD BLANK: 568989 Matrix: Air
Associated Lab Samples: 1086842009, 1086842011, 1086842013, 1086842015, 1086842017, 1086842019, 1086842021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	12/31/08 10:00	
1,1-Dichloroethane	ug/m3	ND	0.82	12/31/08 10:00	
1,1-Dichloroethene	ug/m3	ND	0.81	12/31/08 10:00	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	12/31/08 10:00	
Tetrachloroethene	ug/m3	ND	1.4	12/31/08 10:00	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	12/31/08 10:00	
Trichloroethene	ug/m3	ND	0.55	12/31/08 10:00	
Vinyl chloride	ug/m3	ND	0.52	12/31/08 10:00	

LABORATORY CONTROL SAMPLE: 568990

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	61	58.4	96	60-134	
1,1-Dichloroethane	ug/m3	37	36.9	100	59-136	
1,1-Dichloroethene	ug/m3	41.5	41.2	99	60-137	
cis-1,2-Dichloroethene	ug/m3	41.1	38.1	93	62-135	
Tetrachloroethene	ug/m3	73.1	66.4	91	60-137	
trans-1,2-Dichloroethene	ug/m3	43.1	42.3	98	50-150	
Trichloroethene	ug/m3	55.2	60.4	109	60-134	
Vinyl chloride	ug/m3	25.2	25.7	102	66-132	

QUALIFIERS

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086842

DEFINITIONS

DF - Dilution Factor, If reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

SAMPLE QUALIFIERS

Sample: 1086842009

[1] This result is reported from a serial dilution

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1086842

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1086842002	Plant Floor South Sub Slab-Cer	TO-15	AIR/7897		
1086842004	Plant Floor North Sub Slab-Cer	TO-15	AIR/7897		
1086842006	Warehouse North Sub Slab-Cert	TO-15	AIR/7897		
1086842008	Warehouse Center Sub Slab-Cert	TO-15	AIR/7897		
1086842010	Warehouse South Sub Slab-Cert	TO-15	AIR/7897		
1086842012	IT Office Sub Slab-Cert	TO-15	AIR/7897		
1086842014	NE Office Sub Slab-Cert	TO-15	AIR/7897		
1086842016	Test Lab Sub Slab-Cert	TO-15	AIR/7897		
1086842018	Test Lab Sub Slab-Dup-Cert	TO-15	AIR/7897		
1086842020	Room 120 Sub Slab-Cert	TO-15	AIR/7897		
1086842022	Cafeteria Sub Slab-Cert	TO-15	AIR/7897		
1086842001	Plant Floor South Sub Slab	TO-15	AIR/7915		
1086842003	Plant Floor North Sub Slab	TO-15	AIR/7915		
1086842005	Warehouse North Sub Slab	TO-15	AIR/7915		
1086842007	Warehouse Center Sub Slab	TO-15	AIR/7915		
1086842009	Warehouse South Sub Slab	TO-15	AIR/7918		
1086842011	IT Office Sub Slab	TO-15	AIR/7918		
1086842013	NE Office Sub Slab	TO-15	AIR/7918		
1086842015	Test Lab Sub Slab	TO-15	AIR/7918		
1086842017	Test Lab Sub Slab-Dup	TO-15	AIR/7918		
1086842019	Room 120 Sub Slab	TO-15	AIR/7918		
1086842021	Cafeteria Sub Slab	TO-15	AIR/7918		



401 North College Avenue
Indianapolis, IN 46202
(317) 685-6600 • FAX (317)

CHAIN OF CUSTODY RECORD

401 North College Avenue
Indianapolis, IN 46202
(317) 685-6600 • FAX (317) 685-6610

COC# 5298

2589801

Project No.	Project Name	Report to:
0300	Herman Becker Martinsville	Frank West
Client	Samplers: (signature)	Summit
KERAMIDA Environmental, Inc.	JM West	
Sampled By:	# and Type of Containers	
	Date	Time
	Comp	Grab
	HCl	NaOH
	HNO ₃	H ₂ SO ₄
	Unpreserved	Other - TL
Sample ID/Description		
Plant Floor South Sub Slab	12/2/08	1405
Plant Floor North Sub Slab		1410
Warehouse North Sub Slab		1415
Warehouse Center Sub Slab		1420
Warehouse South Sub Slab		1425
IT Office Sub Slab		1430
NE Office Area Sub Slab		1435
Test Lab Sub Slab		1440
Test Lab Sub Slab - Dup		1440
Room 120 Sub Slab		1450
Cafeteria Sub Slab		1455
Relinquished by: Sign/Date/Time	Received by: Sign/Date/Time	Relinquished by: Sign/Date/Time
JM West 1625	Fedex 12/2/08	JM West 1625
Relinquished by: Sign/Date/Time	Received by: Sign/Date/Time	Relinquished by: Sign/Date/Time
JM West 1625	JM West 1625	JM West 1625
Remarks:	1) No method substitution will be performed by the laboratory without KERAMIDA's authorization 2) Please notify KERAMIDA immediately upon receipt, if sample integrity is in question 3) If analysis cannot be conducted within required holding times, please notify KERAMIDA immediately 4) If requested detection limits cannot be achieved, please contact KERAMIDA immediately	

Sample Condition Upon Receipt

Face Analytical

Client Name: KCAAMIDA

Project # 1086842

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Tracking #: 8679 8329 1963

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other Temp Blank: Yes ☐ No ☒

Thermometer Used 80344042, 170425

Type of Ice: Wet ☐ Blue ☒ None ☐ Samples on ice, cooling process has begun

Cooler Temperature Am B

Biological Tissue is Frozen: Yes ☐ No ☐

Temp should be above freezing to 8°C

Comments:

Date and Initials of person examining contents: 12-23-08 AK

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>AK(CAN)</u>		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐ Yes ☐ No ☒ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, Wt-DRO (water)	☐ Yes ☐ No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	15.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	16.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: 11 CANS

Project Manager Review: AK

Date: 12/24/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

January 09, 2009

Frank West
Keramida Environmental, INC.
401 North College Ave.
Indianapolis, IN 46202

RE: Project: 10300 Harman Becker Martinsv.
Pace Project No.: 1087078

Dear Frank West:

Enclosed are the analytical results for sample(s) received by the laboratory on December 31, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Daryl Peterson for
Colin Schuft
colin.schuft@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1087078

Minnesota Certification IDs

Tennessee Certification #: 02818
Wisconsin Certification #: 999407970
Washington Certification #: C754
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137

Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Alaska Certification #: UST-078

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1087078

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1087078001	Souteast Storage Room	Air	12/30/08 15:25	12/31/08 09:11
1087078002	Souteast Storage Room-Cert	Air	12/30/08 15:25	12/31/08 09:11
1087078003	Mens Locker Area	Air	12/30/08 15:30	12/31/08 09:11
1087078004	Mens Locker Area-Cert	Air	12/30/08 15:30	12/31/08 09:11
1087078005	Lab	Air	12/30/08 15:35	12/31/08 09:11
1087078006	Lab-Cert	Air	12/30/08 15:35	12/31/08 09:11
1087078007	Lab Dup	Air	12/30/08 15:35	12/31/08 09:11
1087078008	Lab Dup-Cert	Air	12/30/08 15:35	12/31/08 09:11
1087078009	Northwest Office	Air	12/30/08 15:40	12/31/08 09:11
1087078010	Northwest Office-Cert	Air	12/30/08 15:40	12/31/08 09:11
1087078011	Plant East Outdoor	Air	12/30/08 15:45	12/31/08 09:11
1087078012	Plant East Outdoor-Cert	Air	12/30/08 15:45	12/31/08 09:11
1087078013	Southeast Storage Sub Slab	Air	12/30/08 14:50	12/31/08 09:11
1087078014	Southeast Storage SubSlab-Cert	Air	12/30/08 14:50	12/31/08 09:11
1087078015	Mens Locker SubSlab	Air	12/30/08 15:00	12/31/08 09:11
1087078016	Mens Locker SubSlab-Cert	Air	12/30/08 15:00	12/31/08 09:11
1087078017	Mens Locker SubSlab Dup	Air	12/30/08 15:00	12/31/08 09:11
1087078018	Mens Locker SubSlab Dup-Cert	Air	12/30/08 15:00	12/31/08 09:11
1087078019	Lab SubSlab	Air	12/30/08 15:10	12/31/08 09:11
1087078020	Lab SubSlab-Cert	Air	12/30/08 15:10	12/31/08 09:11
1087078021	Northwest Office SubSlab	Air	12/30/08 15:20	12/31/08 09:11
1087078022	Northwest Office SubSlab-Cert	Air	12/30/08 15:20	12/31/08 09:11

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SAMPLE ANALYTE COUNT

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1087078

Lab ID	Sample ID	Method	Analysts	Analytes Reported
1087078001	Southeast Storage Room	TO-15	LCW	8
1087078002	Southeast Storage Room-Cert	TO-15	DB1	8
1087078003	Mens Locker Area	TO-15	LCW	8
1087078004	Mens Locker Area-Cert	TO-15	AEP	8
1087078005	Lab	TO-15	LCW	8
1087078006	Lab-Cert	TO-15	LCW	8
1087078007	Lab Dup	TO-15	LCW	8
1087078008	Lab Dup-Cert	TO-15	DB1	8
1087078009	Northwest Office	TO-15	LCW	8
1087078010	Northwest Office-Cert	TO-15	AEP	8
1087078011	Plant East Outdoor	TO-15	LCW	8
1087078012	Plant East Outdoor-Cert	TO-15	DB1	8
1087078013	Southeast Storage Sub Slab	TO-15	LCW	8
1087078014	Southeast Storage SubSlab-Cert	TO-15	DB1	8
1087078015	Mens Locker SubSlab	TO-15	LCW	8
1087078016	Mens Locker SubSlab-Cert	TO-15	LCW	8
1087078017	Mens Locker SubSlab Dup	TO-15	LCW	8
1087078018	Mens Locker SubSlab Dup-Cert	TO-15	LCW	8
1087078019	Lab SubSlab	TO-15	LCW	8
1087078020	Lab SubSlab-Cert	TO-15	DB1	8
1087078021	Northwest Office SubSlab	TO-15	LCW	8
1087078022	Northwest Office SubSlab-Cert	TO-15	DB1	8

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ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087078

Sample: Southeast Storage Room		Lab ID: 1087078001	Collected: 12/30/08 15:25	Received: 12/31/08 09:11	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.2	1.43		01/07/09 16:30	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.2	1.43		01/07/09 16:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.43		01/07/09 16:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.43		01/07/09 16:30	156-60-5	
Tetrachloroethene	13.3	ug/m3	2.0	1.43		01/07/09 16:30	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.43		01/07/09 16:30	71-55-6	
Trichloroethene	ND	ug/m3	0.79	1.43		01/07/09 16:30	79-01-6	
Vinyl chloride	ND	ug/m3	0.74	1.43		01/07/09 16:30	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087078

Sample: Southeast Storage Room-Cert Lab ID: 1087078002 Collected: 12/30/08 15:25 Received: 12/31/08 09:11 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/18/08 09:59	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/18/08 09:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/18/08 09:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/18/08 09:59	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/18/08 09:59	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/18/08 09:59	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/18/08 09:59	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/18/08 09:59	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087078

Sample: Mens Locker Area		Lab ID: 1087078003	Collected: 12/30/08 15:30		Received: 12/31/08 09:11	Matrix: Air		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.2	1.43		01/07/09 17:00	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.2	1.43		01/07/09 17:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.43		01/07/09 17:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.43		01/07/09 17:00	156-60-5	
Tetrachloroethene	11.6	ug/m3	2.0	1.43		01/07/09 17:00	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.43		01/07/09 17:00	71-55-6	
Trichloroethene	4.7	ug/m3	0.79	1.43		01/07/09 17:00	79-01-6	
Vinyl chloride	ND	ug/m3	0.74	1.43		01/07/09 17:00	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087078

Sample: Mens Locker Area-Cert		Lab ID: 1087078004	Collected: 12/30/08 15:30	Received: 12/31/08 09:11	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/22/08 17:03	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/22/08 17:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/22/08 17:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/22/08 17:03	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/22/08 17:03	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/22/08 17:03	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/22/08 17:03	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/22/08 17:03	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087078

Sample: Lab		Lab ID: 1087078005	Collected: 12/30/08 15:35	Received: 12/31/08 09:11	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.1	1.38		01/07/09 17:32	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.1	1.38		01/07/09 17:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.38		01/07/09 17:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.38		01/07/09 17:32	156-60-5	
Tetrachloroethene	10.5	ug/m3	1.9	1.38		01/07/09 17:32	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.38		01/07/09 17:32	71-55-6	
Trichloroethene	ND	ug/m3	0.76	1.38		01/07/09 17:32	79-01-6	
Vinyl chloride	ND	ug/m3	0.72	1.38		01/07/09 17:32	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087078

Sample: Lab-Cert		Lab ID: 1087078006	Collected: 12/30/08 15:35	Received: 12/31/08 09:11	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/23/08 09:28	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/23/08 09:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/23/08 09:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/23/08 09:28	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/23/08 09:28	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/23/08 09:28	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/23/08 09:28	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/23/08 09:28	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087078

Sample: Lab Dup		Lab ID: 1087078007	Collected: 12/30/08 15:35	Received: 12/31/08 09:11	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.4	1.73		01/07/09 18:03	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.73		01/07/09 18:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.73		01/07/09 18:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.73		01/07/09 18:03	156-60-5	
Tetrachloroethene	9.9	ug/m3	2.4	1.73		01/07/09 18:03	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.73		01/07/09 18:03	71-55-6	
Trichloroethene	2.9	ug/m3	0.95	1.73		01/07/09 18:03	79-01-6	
Vinyl chloride	ND	ug/m3	0.90	1.73		01/07/09 18:03	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087078

Sample: Lab Dup-Cert		Lab ID: 1087078008	Collected: 12/30/08 15:35	Received: 12/31/08 09:11	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		11/10/08 09:14	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		11/10/08 09:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		11/10/08 09:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		11/10/08 09:14	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		11/10/08 09:14	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		11/10/08 09:14	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		11/10/08 09:14	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		11/10/08 09:14	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087078

Sample: Northwest Office		Lab ID: 1087078009	Collected: 12/30/08 15:40	Received: 12/31/08 09:11	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO 15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.1	1.34		01/07/09 18:34	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.1	1.34		01/07/09 18:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		01/07/09 18:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		01/07/09 18:34	156-60-5	
Tetrachloroethene	9.4	ug/m3	1.9	1.34		01/07/09 18:34	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.34		01/07/09 18:34	71-55-6	
Trichloroethene	4.9	ug/m3	0.74	1.34		01/07/09 18:34	79-01-6	
Vinyl chloride	ND	ug/m3	0.70	1.34		01/07/09 18:34	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087078

Sample: Northwest Office-Cert		Lab ID: 1087078010	Collected: 12/30/08 15:40	Received: 12/31/08 09:11	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/19/08 15:55	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/19/08 15:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/19/08 15:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/19/08 15:55	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/19/08 15:55	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/19/08 15:55	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/19/08 15:55	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/19/08 15:55	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087078

Sample: Plant East Outdoor		Lab ID: 1087078011	Collected: 12/30/08 15:45	Received: 12/31/08 09:11	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.1	1.34		01/07/09 19:35	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.1	1.34		01/07/09 19:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		01/07/09 19:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		01/07/09 19:35	156-60-5	
Tetrachloroethene	ND	ug/m3	1.9	1.34		01/07/09 19:35	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.34		01/07/09 19:35	71-55-6	
Trichloroethene	10.9	ug/m3	0.74	1.34		01/07/09 19:35	79-01-6	
Vinyl chloride	ND	ug/m3	0.70	1.34		01/07/09 19:35	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087078

Sample: Plant East Outdoor-Cert		Lab ID: 1087078012	Collected: 12/30/08 15:45	Received: 12/31/08 09:11	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/19/08 14:19	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/19/08 14:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/19/08 14:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/19/08 14:19	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/19/08 14:19	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/19/08 14:19	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/19/08 14:19	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/19/08 14:19	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087078

Sample: Southeast Storage Sub Slab Lab ID: 1087078013 Collected: 12/30/08 14:50 Received: 12/31/08 09:11 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.4	1.68		01/07/09 20:06	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.68		01/07/09 20:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		01/07/09 20:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		01/07/09 20:06	156-60-5	
Tetrachloroethene	1010	ug/m3	23.5	16.8		01/09/09 09:18	127-18-4	
1,1,1-Trichloroethane	39.7	ug/m3	1.8	1.68		01/07/09 20:06	71-55-6	
Trichloroethene	4.0	ug/m3	0.92	1.68		01/07/09 20:06	79-01-6	
Vinyl chloride	ND	ug/m3	0.87	1.68		01/07/09 20:06	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087078

Sample: Southeast Storage SubSlab-Cert		Lab ID: 1087078014	Collected: 12/30/08 14:50	Received: 12/31/08 09:11	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/05/08 16:33	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/05/08 16:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/05/08 16:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/05/08 16:33	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/05/08 16:33	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/05/08 16:33	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/05/08 16:33	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/05/08 16:33	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087078

Sample: Mens Locker SubSlab		Lab ID: 1087078015	Collected: 12/30/08 15:00	Received: 12/31/08 09:11	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	55.4 ug/m3		2.0	2.47		01/07/09 20:36	75-34-3	
1,1-Dichloroethene	21.2 ug/m3		2.0	2.47		01/07/09 20:36	75-35-4	
cis-1,2-Dichloroethene	529 ug/m3		320	395.2		01/09/09 09:47	156-59-2	A3
trans-1,2-Dichloroethene	97.1 ug/m3		2.0	2.47		01/07/09 20:36	156-60-5	
Tetrachloroethene	19700 ug/m3		553	395.2		01/09/09 09:47	127-18-4	
1,1,1-Trichloroethane	988 ug/m3		435	395.2		01/09/09 09:47	71-55-6	
Trichloroethene	689 ug/m3		217	395.2		01/09/09 09:47	79-01-6	
Vinyl chloride	ND ug/m3		1.3	2.47		01/07/09 20:36	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087078

Sample: Mens Locker SubSlab-Cert		Lab ID: 1087078016	Collected: 12/30/08 15:00	Received: 12/31/08 09:11	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/26/08 14:49	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/26/08 14:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/26/08 14:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/26/08 14:49	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/26/08 14:49	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/26/08 14:49	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/26/08 14:49	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/26/08 14:49	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087078

Sample: Mens Locker SubSlab Dup		Lab ID: 1087078017	Collected: 12/30/08 15:00	Received: 12/31/08 09:11	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	57.8 ug/m3		1.6	2		01/07/09 21:07	75-34-3	
1,1-Dichloroethene	22.8 ug/m3		1.6	2		01/07/09 21:07	75-35-4	
cis-1,2-Dichloroethene	1520 ug/m3		518	640		01/09/09 10:17	156-59-2	A3
trans-1,2-Dichloroethene	103 ug/m3		1.6	2		01/07/09 21:07	156-60-5	
Tetrachloroethene	54300 ug/m3		896	640		01/09/09 10:17	127-18-4	
1,1,1-Trichloroethane	2840 ug/m3		704	640		01/09/09 10:17	71-55-6	
Trichloroethene	1960 ug/m3		352	640		01/09/09 10:17	79-01-6	
Vinyl chloride	ND ug/m3		1.0	2		01/07/09 21:07	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087078

Sample: Mens Locker SubSlab Dup- Lab ID: 1087078018 Collected: 12/30/08 15:00 Received: 12/31/08 09:11 Matrix: Air
Cert

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/09/08 12:51	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/09/08 12:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/09/08 12:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/09/08 12:51	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/09/08 12:51	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/09/08 12:51	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/09/08 12:51	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/09/08 12:51	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087078

Sample: Lab SubSlab		Lab ID: 1087078019	Collected: 12/30/08 15:10	Received: 12/31/08 09:11	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.4	1.68		01/07/09 21:37	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.68		01/07/09 21:37	75-35-4	
cis-1,2-Dichloroethene	2.8	ug/m3	1.4	1.68		01/07/09 21:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		01/07/09 21:37	156-60-5	
Tetrachloroethene	761000	ug/m3	12000	8601.6		01/09/09 10:46	127-18-4	A3
1,1,1-Trichloroethane	251	ug/m3	1.8	1.68		01/07/09 21:37	71-55-6	
Trichloroethene	596	ug/m3	0.92	1.68		01/07/09 21:37	79-01-6	E
Vinyl chloride	ND	ug/m3	0.87	1.68		01/07/09 21:37	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087078

Sample: Lab SubSlab-Cert		Lab ID: 1087078020	Collected: 12/30/08 15:10	Received: 12/31/08 09:11	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		11/26/08 14:10	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		11/26/08 14:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		11/26/08 14:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		11/26/08 14:10	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		11/26/08 14:10	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		11/26/08 14:10	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		11/26/08 14:10	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		11/26/08 14:10	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087078

Sample: Northwest Office SubSlab		Lab ID: 1087078021	Collected: 12/30/08 15:20		Received: 12/31/08 09:11		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.4	1.68		01/07/09 22:08	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.68		01/07/09 22:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		01/07/09 22:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		01/07/09 22:08	156-60-5	
Tetrachloroethene	16.8	ug/m3	2.4	1.68		01/07/09 22:08	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.8	1.68		01/07/09 22:08	71-55-6	
Trichloroethene	1.3	ug/m3	0.92	1.68		01/07/09 22:08	79-01-6	
Vinyl chloride	ND	ug/m3	0.87	1.68		01/07/09 22:08	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087078

Sample: Northwest Office SubSlab-Cert Lab ID: 1087078022 Collected: 12/30/08 15:20 Received: 12/31/08 09:11 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/07/08 11:39	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 11:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 11:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/07/08 11:39	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/07/08 11:39	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/07/08 11:39	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/07/08 11:39	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/07/08 11:39	75-01-4	

QUALITY CONTROL DATA

Project: 10300 Harman Becker Martinsv.
Pace Project No.: 1087078

QC Batch: AIR/7954 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 1087078001, 1087078003, 1087078005, 1087078007, 1087078009, 1087078011, 1087078013, 1087078015, 1087078017, 1087078019, 1087078021

METHOD BLANK: 570535 Matrix: Air
Associated Lab Samples: 1087078001, 1087078003, 1087078005, 1087078007, 1087078009, 1087078011, 1087078013, 1087078015, 1087078017, 1087078019, 1087078021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	01/07/09 15:11	
1,1-Dichloroethane	ug/m3	ND	0.82	01/07/09 15:11	
1,1-Dichloroethene	ug/m3	ND	0.81	01/07/09 15:11	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	01/07/09 15:11	
Tetrachloroethene	ug/m3	ND	1.4	01/07/09 15:11	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	01/07/09 15:11	
Trichloroethene	ug/m3	ND	0.55	01/07/09 15:11	
Vinyl chloride	ug/m3	ND	0.52	01/07/09 15:11	

LABORATORY CONTROL SAMPLE: 570536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	57.2	57.9	101	60-134	
1,1-Dichloroethane	ug/m3	41.2	34.0	83	59-136	
1,1-Dichloroethene	ug/m3	40.3	37.7	93	60-137	
cis-1,2-Dichloroethene	ug/m3	41.5	40.7	98	62-135	
Tetrachloroethene	ug/m3	71.7	68.3	95	60-137	
trans-1,2-Dichloroethene	ug/m3	41.9	41.5	99	50-150	
Trichloroethene	ug/m3	55.2	64.3	117	60-134	
Vinyl chloride	ug/m3	26.8	25.0	93	66-132	

SAMPLE DUPLICATE: 570697

Parameter	Units	1087078009 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	9.4	9.1	3	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	4.9	4.7	4	25	
Vinyl chloride	ug/m3	ND	ND		25	

QUALIFIERS

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1087078

DEFINITIONS

DF - Dilution Factor, If reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

A3 The sample was analyzed by serial dilution.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1087078

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1087078002	Souteast Storage Room-Cert	TO-15	AIR/7940		
1087078004	Mens Locker Area-Cert	TO-15	AIR/7940		
1087078006	Lab-Cert	TO-15	AIR/7940		
1087078008	Lab Dup-Cert	TO-15	AIR/7940		
1087078010	Northwest Office-Cert	TO-15	AIR/7940		
1087078012	Plant East Outdoor-Cert	TO-15	AIR/7940		
1087078014	Southeast Storage SubSlab-Cert	TO-15	AIR/7940		
1087078016	Mens Locker SubSlab-Cert	TO-15	AIR/7940		
1087078018	Mens Locker SubSlab Dup-Cert	TO-15	AIR/7940		
1087078020	Lab SubSlab-Cert	TO-15	AIR/7940		
1087078022	Northwest Office SubSlab-Cert	TO-15	AIR/7940		
1087078001	Souteast Storage Room	TO-15	AIR/7954		
1087078003	Mens Locker Area	TO-15	AIR/7954		
1087078005	Lab	TO-15	AIR/7954		
1087078007	Lab Dup	TO-15	AIR/7954		
1087078009	Northwest Office	TO-15	AIR/7954		
1087078011	Plant East Outdoor	TO-15	AIR/7954		
1087078013	Southeast Storage Sub Slab	TO-15	AIR/7954		
1087078015	Mens Locker SubSlab	TO-15	AIR/7954		
1087078017	Mens Locker SubSlab Dup	TO-15	AIR/7954		
1087078019	Lab SubSlab	TO-15	AIR/7954		
1087078021	Northwest Office SubSlab	TO-15	AIR/7954		

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1087078

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: K&A-MIDA	Report To: Frank West	Copy To:	Attention: Frank West	Company Name:	Company Address:
Address: 404 N. College Ave					
Indiv. ID: 42302					
Engr. ID: 10300					
Phone: 517 685 6600					
Fax: 517 685 6610					
Project Name: Harmon Becker					
Project Number: 10300					
Requested Due Date/TAT:					

1198181

REGULATORY AGENCY	
☐ NPDES	☐ GROUND WATER
☐ UST	☐ RCRA
☐ DRINKING WATER	☐ OTHER
Site Location:	STATE:

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE ID (A-Z, 0-9 / -)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyte Test	Requested Analysis Filtered (Y/N)	Pace Project No. / Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB						
1	Southwest Storage Room	DW WT WW P SL OL WP AR TS OT	AR	C	1525	1525	1525	1				1087078 001, 002
2	Harmon Becker Area		1	C	1540	1540	1540	1				003, 004
3	Lab Dup		1	C	1545	1545	1545	1				005, 006
4	Northwest Office		1	C	1545	1545	1545	1				007, 008
5	Harmon Becker Area		1	C	1545	1545	1545	1				009, 010
6	Southwest Storage Room		1	C	1545	1545	1545	1				011, 012
7	Harmon Becker Area		1	C	1545	1545	1545	1				013, 014
8	Northwest Office		1	C	1545	1545	1545	1				015, 016
9	Lab Dup		1	C	1545	1545	1545	1				017, 018
10	Southwest Storage Room		1	C	1545	1545	1545	1				019, 020
11	Harmon Becker Area		1	C	1545	1545	1545	1				021, 022
12	Northwest Office		1	C	1545	1545	1545	1				

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
24-01-15		Pace		12/20/08		10:45		Pace		12/20/08		09:11		N N Y	
ORIGINAL		SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:		SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY):		Temp in °C		Received on		Custody	

Sample Condition Upon Receipt

Pace Analytical

Client Name: KARANDAProject # 1087078Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace OtherTracking #: 7962 2108 6984, 6976Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ OtherTemp Blank: Yes ☐ No ☒Thermometer Used 89314042, 179426Type of Ice: Wet Blue None☐ Samples on ice, cooling process has begunCooler Temperature 6.5Biological Tissue is Frozen: Yes ☐ No ☐

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 12-31-08 R

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☐ Yes ☒ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	10.
Filled volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>HR (CMU)</u>		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐ Yes ☐ No ☒ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, Wt-DRO (water)	☐ Yes ☐ No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	15.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	16.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution: 11 CMU's, 6 FC'S

Project Manager Review:

Date: 12/31/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

REVIEWED 12/31/08 R

January 16, 2009

Frank West
Keramida Environmental, INC.
401 North College Ave.
Indianapolis, IN 46202

RE: Project: 10300 Harman Becker Martinsv.
Pace Project No.: 1087648

Dear Frank West:

Enclosed are the analytical results for sample(s) received by the laboratory on January 14, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Colin Schuft

colin.schuft@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 25

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CERTIFICATIONS

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1087648

Minnesota Certification IDs

Tennessee Certification #: 02818
Wisconsin Certification #: 999407970
Washington Certification #: C754
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137

Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Alaska Certification #: UST-078

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1087648

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1087648001	1385 Clore Indoor	Air	01/13/09 17:15	01/14/09 09:20
1087648002	1385 Clore Indoor-Cert	Air	01/13/09 17:15	01/14/09 09:20
1087648003	1385 Clore Crawl	Air	01/13/09 17:25	01/14/09 09:20
1087648004	1385 Clore Crawl-Cert	Air	01/13/09 17:25	01/14/09 09:20
1087648005	1385 Clore Outdoor	Air	01/13/09 17:30	01/14/09 09:20
1087648006	1385 Clore Outdoor-Cert	Air	01/13/09 17:30	01/14/09 09:20
1087648007	1385 Clore Crawl Dup	Air	01/13/09 17:25	01/14/09 09:20
1087648008	1385 Clore Crawl Dup-Cert	Air	01/13/09 17:25	01/14/09 09:20
1087648009	1334 Clore Indoor	Air	01/13/09 17:45	01/14/09 09:20
1087648010	1334 Clore Indoor-Cert	Air	01/13/09 17:45	01/14/09 09:20
1087648011	1334 Clore Crawl	Air	01/13/09 17:55	01/14/09 09:20
1087648012	1334 Clore Crawl-Cert	Air	01/13/09 17:55	01/14/09 09:20
1087648013	1399 Basement Indoor	Air	01/13/09 18:25	01/14/09 09:20
1087648014	1399 Basement Indoor-Cert	Air	01/13/09 18:25	01/14/09 09:20
1087648015	1399 Basement Sub-Slab	Air	01/13/09 18:15	01/14/09 09:20
1087648016	1399 Basement Sub-Slab-Cert	Air	01/13/09 18:15	01/14/09 09:20
1087648017	1399 Basement Sub-Slab Dup	Air	01/13/09 18:15	01/14/09 09:20
1087648018	1399 Basement Sub-Slab Dup-Cer	Air	01/13/09 18:15	01/14/09 09:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1087648

Lab ID	Sample ID	Method	Analysts	Analytes Reported
1087648001	1385 Clore Indoor	TO-15	DB1	8
1087648002	1385 Clore Indoor-Cert	TO-15	AEP	8
1087648003	1385 Clore Crawl	TO-15	DB1	8
1087648004	1385 Clore Crawl-Cert	TO-15	DB1	8
1087648005	1385 Clore Outdoor	TO-15	DB1	8
1087648006	1385 Clore Outdoor-Cert	TO-15	DB1	8
1087648007	1385 Clore Crawl Dup	TO-15	DB1	8
1087648008	1385 Clore Crawl Dup-Cert	TO-15	DB1	8
1087648009	1334 Clore Indoor	TO-15	DB1	8
1087648010	1334 Clore Indoor-Cert	TO-15	AEP	8
1087648011	1334 Clore Crawl	TO-15	DB1	8
1087648012	1334 Clore Crawl-Cert	TO-15	LCW	8
1087648013	1399 Basement Indoor	TO-15	DB1	8
1087648014	1399 Basement Indoor-Cert	TO-15	LCW	8
1087648015	1399 Basement Sub-Slab	TO-15	DB1	8
1087648016	1399 Basement Sub-Slab-Cert	TO-15	DB1	8
1087648017	1399 Basement Sub-Slab Dup	TO-15	DB1	8
1087648018	1399 Basement Sub-Slab Dup-Cer	TO-15	DB1	8

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087648

Sample: 1385 Clore Indoor		Lab ID: 1087648001	Collected: 01/13/09 17:15	Received: 01/14/09 09:20	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.1	1.34		01/14/09 19:07	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.1	1.34		01/14/09 19:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		01/14/09 19:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		01/14/09 19:07	156-60-5	
Tetrachloroethene	847	ug/m3	37.5	26.8		01/15/09 10:55	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.34		01/14/09 19:07	71-55-6	
Trichloroethene	14.8	ug/m3	0.74	1.34		01/14/09 19:07	79-01-6	
Vinyl chloride	ND	ug/m3	0.70	1.34		01/14/09 19:07	75-01-4	

ANALYTICAL RESULTS

Project: 10300 Harman Becker Martinsv.

Pace Project No.: 1087648

Sample: 1385 Clore Indoor-Cert		Lab ID: 1087648002	Collected: 01/13/09 17:15		Received: 01/14/09 09:20	Matrix: Air		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		01/02/09 11:00	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		01/02/09 11:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		01/02/09 11:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		01/02/09 11:00	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		01/02/09 11:00	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		01/02/09 11:00	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		01/02/09 11:00	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		01/02/09 11:00	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087648

Sample: 1385 Clore Crawl		Lab ID: 1087648003	Collected: 01/13/09 17:25	Received: 01/14/09 09:20	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.1	1.34		01/14/09 20:13	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.1	1.34		01/14/09 20:13	75-35-4	
cis-1,2-Dichloroethene	1.1	ug/m3	1.1	1.34		01/14/09 20:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		01/14/09 20:13	156-60-5	
Tetrachloroethene	1100	ug/m3	37.5	26.8		01/15/09 11:24	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.34		01/14/09 20:13	71-55-6	
Trichloroethene	24.7	ug/m3	0.74	1.34		01/14/09 20:13	79-01-6	
Vinyl chloride	ND	ug/m3	0.70	1.34		01/14/09 20:13	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087648

Sample: 1385 Clore Crawl-Cert		Lab ID: 1087648004	Collected: 01/13/09 17:25	Received: 01/14/09 09:20	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/24/08 10:34	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/24/08 10:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/24/08 10:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/24/08 10:34	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/24/08 10:34	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/24/08 10:34	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/24/08 10:34	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/24/08 10:34	75-01-4	

ANALYTICAL RESULTS

Project: 10300 Harman Becker Martinsv.

Pace Project No.: 1087648

Sample: 1385 Clore Outdoor		Lab ID: 1087648005	Collected: 01/13/09 17:30	Received: 01/14/09 09:20	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.0	1.25		01/14/09 20:46	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.0	1.25		01/14/09 20:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.0	1.25		01/14/09 20:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.0	1.25		01/14/09 20:46	156-60-5	
Tetrachloroethene	ND	ug/m3	1.8	1.25		01/14/09 20:46	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.4	1.25		01/14/09 20:46	71-55-6	
Trichloroethene	ND	ug/m3	0.69	1.25		01/14/09 20:46	79-01-6	
Vinyl chloride	ND	ug/m3	0.65	1.25		01/14/09 20:46	75-01-4	

ANALYTICAL RESULTS

Project: 10300 Harman Becker Martinsv.

Pace Project No.: 1087648

Sample: 1385 Clore Outdoor-Cert		Lab ID: 1087648006	Collected: 01/13/09 17:30	Received: 01/14/09 09:20	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		01/03/09 16:21	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		01/03/09 16:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		01/03/09 16:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		01/03/09 16:21	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		01/03/09 16:21	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		01/03/09 16:21	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		01/03/09 16:21	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		01/03/09 16:21	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087648

Sample: 1385 Clore Crawl Dup		Lab ID: 1087648007	Collected: 01/13/09 17:25	Received: 01/14/09 09:20	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.1	1.34		01/14/09 21:20	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.1	1.34		01/14/09 21:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		01/14/09 21:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		01/14/09 21:20	156-60-5	
Tetrachloroethene	1020	ug/m3	37.5	26.8		01/15/09 11:54	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.34		01/14/09 21:20	71-55-6	
Trichloroethene	21.1	ug/m3	0.74	1.34		01/14/09 21:20	79-01-6	
Vinyl chloride	ND	ug/m3	0.70	1.34		01/14/09 21:20	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087648

Sample: 1385 Clore Crawl Dup-Cert Lab ID: 1087648008 Collected: 01/13/09 17:25 Received: 01/14/09 09:20 Matrix: Air								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15								
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/24/08 11:05	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/24/08 11:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/24/08 11:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/24/08 11:05	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/24/08 11:05	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/24/08 11:05	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/24/08 11:05	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/24/08 11:05	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087648

Sample: 1334 Clore Indoor		Lab ID: 1087648009	Collected: 01/13/09 17:45	Received: 01/14/09 09:20	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.3	1.59		01/14/09 21:53	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.3	1.59		01/14/09 21:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.59		01/14/09 21:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.59		01/14/09 21:53	156-60-5	
Tetrachloroethene	6.9	ug/m3	2.2	1.59		01/14/09 21:53	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.59		01/14/09 21:53	71-55-6	
Trichloroethene	ND	ug/m3	0.87	1.59		01/14/09 21:53	79-01-6	
Vinyl chloride	ND	ug/m3	0.83	1.59		01/14/09 21:53	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087648

Sample: 1334 Clore Indoor-Cert		Lab ID: 1087648010	Collected: 01/13/09 17:45	Received: 01/14/09 09:20	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		01/02/09 21:22	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		01/02/09 21:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		01/02/09 21:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		01/02/09 21:22	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		01/02/09 21:22	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		01/02/09 21:22	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		01/02/09 21:22	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		01/02/09 21:22	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087648

Sample: 1334 Clore Crawl		Lab ID: 1087648011	Collected: 01/13/09 17:55	Received: 01/14/09 09:20	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.2	1.48		01/14/09 22:26	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.2	1.48		01/14/09 22:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.48		01/14/09 22:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.48		01/14/09 22:26	156-60-5	
Tetrachloroethene	44.1	ug/m3	2.1	1.48		01/14/09 22:26	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.48		01/14/09 22:26	71-55-6	
Trichloroethene	ND	ug/m3	0.81	1.48		01/14/09 22:26	79-01-6	
Vinyl chloride	ND	ug/m3	0.77	1.48		01/14/09 22:26	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087648

Sample: 1334 Clore Crawl-Cert		Lab ID: 1087648012	Collected: 01/13/09 17:55	Received: 01/14/09 09:20	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/28/08 23:10	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/28/08 23:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/28/08 23:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/28/08 23:10	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/28/08 23:10	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/28/08 23:10	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/28/08 23:10	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/28/08 23:10	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087648

Sample: 1399 Basement Indoor		Lab ID: 1087648013	Collected: 01/13/09 18:25	Received: 01/14/09 09:20	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO 15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.3	1.54		01/14/09 22:59	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.2	1.54		01/14/09 22:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.54		01/14/09 22:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.54		01/14/09 22:59	156-60-5	
Tetrachloroethene	26.7	ug/m3	2.2	1.54		01/14/09 22:59	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.54		01/14/09 22:59	71-55-6	
Trichloroethene	ND	ug/m3	0.85	1.54		01/14/09 22:59	79-01-6	
Vinyl chloride	ND	ug/m3	0.80	1.54		01/14/09 22:59	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087648

Sample: 1399 Basement Indoor-Cert Lab ID: 1087648014 Collected: 01/13/09 18:25 Received: 01/14/09 09:20 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		12/29/08 00:40	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		12/29/08 00:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/29/08 00:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		12/29/08 00:40	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		12/29/08 00:40	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		12/29/08 00:40	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		12/29/08 00:40	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		12/29/08 00:40	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087648

Sample: 1399 Basement Sub-Slab		Lab ID: 1087648015	Collected: 01/13/09 18:15	Received: 01/14/09 09:20	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.4	1.68		01/15/09 09:53	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.68		01/15/09 09:53	75-35-4	
cis-1,2-Dichloroethene	7.7	ug/m3	1.4	1.68		01/15/09 09:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		01/15/09 09:53	156-60-5	
Tetrachloroethene	94900	ug/m3	753	537.6		01/15/09 15:53	127-18-4	A3
1,1,1-Trichloroethane	51.2	ug/m3	1.8	1.68		01/15/09 09:53	71-55-6	
Trichloroethene	2320	ug/m3	296	537.6		01/15/09 15:53	79-01-6	A3
Vinyl chloride	ND	ug/m3	0.87	1.68		01/15/09 09:53	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087648

Sample: 1399 Basement Sub-Slab-Cert Lab ID: 1087648016 Collected: 01/13/09 18:15 Received: 01/14/09 09:20 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		01/09/09 02:30	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		01/09/09 02:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		01/09/09 02:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		01/09/09 02:30	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		01/09/09 02:30	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		01/09/09 02:30	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		01/09/09 02:30	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		01/09/09 02:30	75-01-4	

ANALYTICAL RESULTS

Project 10300 Harman Becker Martinsv.

Pace Project No.: 1087648

Sample: 1399 Basement Sub-Slab Dup Lab ID: 1087648017 Collected: 01/13/09 18:15 Received: 01/14/09 09:20 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	1.4	1.68		01/15/09 10:25	75-34-3	
1,1-Dichloroethene	1.9	ug/m3	1.4	1.68		01/15/09 10:25	75-35-4	
cis-1,2-Dichloroethene	9.0	ug/m3	1.4	1.68		01/15/09 10:25	156-59-2	
trans-1,2-Dichloroethene	2.8	ug/m3	1.4	1.68		01/15/09 10:25	156-60-5	
Tetrachloroethene	203000	ug/m3	753	537.6		01/15/09 16:22	127-18-4	A3, E
1,1,1-Trichloroethane	51.8	ug/m3	1.8	1.68		01/15/09 10:25	71-55-6	
Trichloroethene	5450	ug/m3	296	537.6		01/15/09 16:22	79-01-6	A3
Vinyl chloride	0.92	ug/m3	0.87	1.68		01/15/09 10:25	75-01-4	

ANALYTICAL RESULTS

Project: 10300 Harman Becker Martinsv.
Pace Project No.: 1087648

Sample: 1399 Basement Sub-Slab Dup-Cer Lab ID: 1087648018 Collected: 01/13/09 18:15 Received: 01/14/09 09:20 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,1-Dichloroethane	ND	ug/m3	0.82	1		01/09/09 03:03	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		01/09/09 03:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		01/09/09 03:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.81	1		01/09/09 03:03	156-60-5	
Tetrachloroethene	ND	ug/m3	1.4	1		01/09/09 03:03	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		01/09/09 03:03	71-55-6	
Trichloroethene	ND	ug/m3	0.55	1		01/09/09 03:03	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	1		01/09/09 03:03	75-01-4	

QUALITY CONTROL DATA

Project: 10300 Harman Becker Martinsv.
Pace Project No.: 1087648

QC Batch: AIR/7977 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSVAIR Low Level
Associated Lab Samples: 1087648001, 1087648003, 1087648005, 1087648007, 1087648009, 1087648011, 1087648013, 1087648015, 1087648017

METHOD BLANK: 572543 Matrix: Air
Associated Lab Samples: 1087648001, 1087648003, 1087648005, 1087648007, 1087648009, 1087648011, 1087648013, 1087648015, 1087648017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	01/14/09 18:02	
1,1-Dichloroethane	ug/m3	ND	0.82	01/14/09 18:02	
1,1-Dichloroethene	ug/m3	ND	0.81	01/14/09 18:02	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	01/14/09 18:02	
Tetrachloroethene	ug/m3	ND	1.4	01/14/09 18:02	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	01/14/09 18:02	
Trichloroethene	ug/m3	ND	0.55	01/14/09 18:02	
Vinyl chloride	ug/m3	ND	0.52	01/14/09 18:02	

LABORATORY CONTROL SAMPLE: 572544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	57.2	59.7	104	60-134	
1,1-Dichloroethane	ug/m3	41.2	36.4	88	59-136	
1,1-Dichloroethene	ug/m3	40.3	39.8	99	60-137	
cis-1,2-Dichloroethene	ug/m3	41.5	40.0	96	62-135	
Tetrachloroethene	ug/m3	71.7	66.3	92	60-137	
trans-1,2-Dichloroethene	ug/m3	41.9	40.9	98	50-150	
Trichloroethene	ug/m3	55.2	60.7	110	60-134	
Vinyl chloride	ug/m3	26.8	25.2	94	66-132	

SAMPLE DUPLICATE: 572740

Parameter	Units	1087648001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	847	459	59	25	E.R1
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	14.8	15.2	2	25	
Vinyl chloride	ug/m3	ND	ND		25	

QUALIFIERS

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1087648

DEFINITIONS

DF - Dilution Factor, If reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

A3 The sample was analyzed by serial dilution.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

R1 RPD value was outside control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project 10300 Harman Becker Martinsv.
Pace Project No.: 1087648

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1087648001	1385 Clore Indoor	TO-15	AIR/7977		
1087648003	1385 Clore Crawl	TO-15	AIR/7977		
1087648005	1385 Clore Outdoor	TO-15	AIR/7977		
1087648007	1385 Clore Crawl Dup	TO-15	AIR/7977		
1087648009	1334 Clore Indoor	TO-15	AIR/7977		
1087648011	1334 Clore Crawl	TO-15	AIR/7977		
1087648013	1399 Basement Indoor	TO-15	AIR/7977		
1087648015	1399 Basement Sub-Slab	TO-15	AIR/7977		
1087648017	1399 Basement Sub-Slab Dup	TO-15	AIR/7977		
1087648002	1385 Clore Indoor-Cert	TO-15	AIR/7981		
1087648004	1385 Clore Crawl-Cert	TO-15	AIR/7981		
1087648006	1385 Clore Outdoor-Cert	TO-15	AIR/7981		
1087648008	1385 Clore Crawl Dup-Cert	TO-15	AIR/7981		
1087648010	1334 Clore Indoor-Cert	TO-15	AIR/7981		
1087648012	1334 Clore Crawl-Cert	TO-15	AIR/7981		
1087648014	1399 Basement Indoor-Cert	TO-15	AIR/7981		
1087648016	1399 Basement Sub-Slab-Cert	TO-15	AIR/7981		
1087648018	1399 Basement Sub-Slab Dup-Cer	TO-15	AIR/7981		

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1087648

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: KERAMIDA	Resort To: Frank West	Attention: Same	Company Name:	Page: 1 of 1	REGULATORY AGENCY ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER Site Location: IN
Address: 401 N. College Ave	Copy To:	Company Address:			
Phone: 707 635 6610	Purchase Order No.: 10300	Pace Quote Reference:			
Project Name: Hickman Barker Murdineville	Project Number: 10300	Pace Project Manager:			
Requested Due Date/TAT:		Pace Profile A:			

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	V/N	Requested Analysis - Filtered (V/N)	Residual Chlorine (V/N)	Pace Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other							
1	1385 Clove Indoor	DW	C	12/19 1725	12/19 1745		1											1087648 001 002				
2	1385 Clove Gravel	WT	C	1740	1745		1											003 004				
3	1385 Clove Outdoor	WW	C	1750	1755		1											005 006				
4	1385 Clove Gravel Trip	P	C	1740	1745		1											007 008				
5	1334 Clove Indoor	SL	C	1800	1745		1											009 010				
6	1334 Clove Gravel	OL	C	1810	1755		1											011 012				
7	1399 Movement Indoor	VP	C	1825	1825		1											013 014				
8	1399 Movement Sub-Globe	AR	C	1835	1815		1											015 016				
9	1399 Movement Sub-Globe Trip	TS	C	1845	1815		1											017 018				
10		OT																				
11																						
12																						

ADDITIONAL COMMENTS		RECEIVED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
Received compound list per previous samples		JW West		1/13/09		1745		Jed-ty		1/13/09		1745		Received on Ice (V/N)	
								Jed-ty		1/13/09		1745		Sealed Cooler (V/N)	
								Jed-ty		1/13/09		1745		Custody (V/N)	
								Jed-ty		1/13/09		1745		Temp in °C	
								Jed-ty		1/13/09		1745		Samples intact (V/N)	

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical

Client Name: KERMIDA

Project # 1087648

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Tracking #: 7955 2463 2918 8683 9549 5648

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals Intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other

Temp Blank: Yes ☐ No ☒

Thermometer Used 30344042-178425

Type of Ice: Wet Blue None

☐ Samples on ice, cooling process has begun

Cooler Temperature AMB

Biological Tissue is Frozen: Yes ☐ No ☐

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 1-14-09 JK

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☐ Yes ☒ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>ARCAN</u>		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐ Yes ☐ No ☒ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, W-DRO (water)	☐ Yes ☐ No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	15.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	16.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required?

Y / I / N

Person Contacted:

Date/Time:

Comments/ Resolution: 9 CANS, 2 FC'S

Project Manager Review:

Date: 1/14/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

11404