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Environment

Prepared for:
Prairie Ronde Realty
Dowagiac, Michigan

Prepared by:
AECOM
Grand Rapids, Michigan
60143510
April 2012

INDOOR AIR and SUB-SLAB SOIL GAS SAMPLING REPORT FOR PRR BUILDING

Prairie Ronde Realty Company
415 East Prairie Ronde Street
Dowagiac, Michigan
MID 005 068 507

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Prepared By Glenn A. Hendrix

Reviewed By James Tolbert

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1.0 Introduction

AECOM prepared this Indoor Air and Sub-Slab Soil Gas Sampling Report on behalf of Prairie Ronde Realty (PRR) in response to a request from the U.S. Environmental Protection Agency (USEPA) Region 5 for sampling indoor air and sub-slab soil gas at the former PRR manufacturing building (PRR building). The PRR building is located at 415 East Prairie Ronde Road in Dowagiac, Michigan.

During a meeting on January 13, 2012 and in a letter dated February 21, 2012, USEPA Region 5 requested the following at the PRR building:

- Investigation of indoor air quality;
- Collection of paired sub-slab soil gas samples to assist in the evaluation of indoor air quality; and
- Collection of one ambient air quality sample upwind of the PRR building to assist in the evaluation of indoor air quality.

The investigation was completed in accordance with the *Indoor Air and Sub-Sampling Soil Gas Sampling Work Plan for PRR Building* submitted by AECOM on behalf of PRR on March 7, 2012 (AECOM, 2012). The work plan was approved by Michelle Kaysen of the USEPA on March 14, 2012 by email notification. The field work was completed on March 21-23, 2012.

1.1 Objectives

The specific objectives of this work were to:

- Collect seven indoor air samples from occupied areas of the PRR building;
- Collect sub-slab soil gas samples from approximately the same locations as the indoor air samples;
- Collect an ambient air sample from upwind of the PRR building;
- Analyze the air and soil gas samples for specified chlorinated volatile organic compounds (CVOCs); and
- Report the results to the USEPA.

1.2 Prairie Ronde Realty Building

Several tenants lease portions of the PRR building. The leased areas are used for offices, manufacturing, storage of antiques, and storage of recreational vehicles and boats. Approximately 36 people work full-time in the building in a single 8-hour shift. Several additional people each work approximately 10 hours a month in storage and warehousing operations. PRR and the tenants do not use or store CVOCs in the building.

The building occupies approximately 617,000 square feet, and has 6 to 8-inch thick concrete floors.

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2.0 Methods and Procedures

The following methods and procedures summarize the sampling event conducted on March 21 through March 23, 2012. The samples were collected as specified in the *Indoor Air and Sub-Sampling Soil Gas Sampling Work Plan for PRR Building* (AECOM, 2012), except as described in Section 2.1.5.

2.1 Sampling Locations

Seven locations were sampled within the PRR building (**Figure 1**) at currently leased locations. The samples were collected using Summa™ canisters located in the seven areas of the building:

- JMT (Machine Shop);
- PRR Office;
- Quality Trucking Parts;
- Michigan Precision (Machine Shop);
- Velthouse Antiques;
- South Recreational Vehicle and Boat Parking;
- North Recreational Vehicle and Boat Parking.

New sub-slab monitoring points were established adjacent to each indoor air sample location. The samples were collected from each room in the area with the highest occupancy that did not interfere with work. The sample locations also were not located near known storage of petroleum or cleaning products. The indoor air samples were collected approximately 5 feet above the slab surface. All indoor air samples were collected in accordance with the protocol outlined in the following sections. Photographs of each sample location are in **Appendix A**.

The ambient air sample was collected from an outdoor location (**Figure 1**) on the northeast corner of the PRR property, up-wind of the PRR building and approximately 1.5 feet above the ground surface. To the extent possible, this ambient air sample was collected away from obvious potential sources such as storage, parking and loading areas. The ambient air sample location was determined based on wind conditions at the time the samples were collected. The wind was from the southeast. Photographs of the ambient air sampling location are in **Appendix A**.

2.1.1 Sampling and Analytical Methods

Sampling methods used were consistent with USEPA protocols for collecting air samples using TO-15 Summa™ canister sampling and analysis methods (USEPA, 1999). Each batch of canisters was certified clean by the laboratory (TestAmerica) according to USEPA Method TO-15. TO-15 SIM was used for the indoor air samples to obtain a lower detection limit for CVOCs. The samples were shipped to the laboratory under chain-of-custody. TestAmerica in Los Angeles, California analyzed the samples.

Field notes are in **Appendix B**.

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2.1.2 Indoor Air Sampling

One indoor air sample was collected from each of the seven sample locations presented on **Figure 1**.

The indoor air samples were collected using a Summa™ canister (6-Liter capacity) equipped with a critical orifice flow regulation device sized to allow an air sample to be collected over a 24-hour sampling period. Care was taken to deploy the canisters away from the direct influence of any forced air emanating from air conditioning units, central air conditioning vents, furnaces or heaters.

The indoor air sampling procedure is described as follows.

- Building spaces were examined to determine a location for collecting the sample. An attempt was made to deploy the canister in areas not subject to disturbances and which would not interfere with the occupant's normal activities.
- Air sample canisters were labeled with a unique sample designation number. The sample number and location were recorded in the field log book.
- The canister vacuum was measured using an integrated vacuum gauge immediately prior to canister deployment, and recorded in the field log book. The critical orifice flow controller was installed, as supplied by the laboratory, on the canister, the canister was opened fully at the beginning of sample collection period, and the start time was recorded. (Two pressure gages did not function properly, see Section 2.1.5.)
- Other data recorded included: outside and interior temperatures at the start and end of the sample period, equipment serial numbers, sampler name, and any comments.
- The canister valve was closed fully at the end of the sample period (after 24-hours) and the end time recorded. Any evidence of canister disturbance during the sample collection was recorded.
- The canister vacuum was measured and recorded immediately after canister retrieval at the end of the sample period. Once the vacuum was measured, the safety cap was securely tightened on the canister inlet. (Two pressure gages did not function properly, see Section 2.1.5.)
- Building occupants were requested to keep out of the sampling area, if possible, during the sampling event.

2.1.3 Sub-Slab Soil Gas Sampling

Sub-slab sampling points were installed to collect soil gas immediately below the slab at each of the seven indoor air sampling locations. Sub-slab gas samples were collected using a 6-Liter Summa™ canister fitted with a flow orifice pre-calibrated to collect a 6-Liter sample over a 24-hour period. Once the 24-hour sampling period was completed, the canister was boxed and shipped to the laboratory for analysis.

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The sub-slab vapor points were installed by first advancing a small diameter hole (approximately 3/8-inches in diameter) through the floor slab to determine thickness followed by a 1-inch hole several inches deep. The holes were drilled with a hammer drill. The core hole extended through the slab and terminated at the interface with underlying material. A sample point consisting of a stainless length of tubing fitted with compression fittings and was placed into the hole. The cored slab annulus was then filled with quick-setting cement placed around the stainless steel sub-slab vapor point. The bottom of the sub-slab vapor point extended to the bottom of slab. The new sub-slab vapor collection points were allowed to equilibrate for approximately 24 hours before the samples were collected.

Prior to sub-slab soil gas sample collection, the monitoring point and above grade tubing were purged at a rate not exceeding 200 mL/min. The total volume purged prior to sample collection was equal to three volumes of air in the open space of tubing and the sample point. Isopropyl alcohol (IPA) was used as a field tracer during sampling. The IPA was introduced as a spray next to the above grade sampling train and Summa™ canister.

At the start and the end of the sampling event, a pressure gauge reading was performed and values recorded. Flow rates were less than 200 mL/min, and sampling continued until a complete 24-hour sample had been collected.

The 6-Liter canister with a calibrated 24-hour orifice was connected to the stainless steel vapor point via nylon tubing. (Collecting with a calibrated orifice ensured the flow rate was no greater than 200 mL/min, which is the flow threshold above which CVOCs stripping from soil may occur.) After the sample was collected, the safety cap was installed.

All data concerning sample collection was documented in the field notebook and respective canister sampling forms in **Appendix B**.

2.1.4 Ambient Air Sampling

The ambient air sample was collected in the same manner as the indoor air samples.

2.1.5 Departures from Work Plan

A duplicate sample was requested by the USEPA in their approval of the work plan, but was inadvertently not collected.

Pressure gages provided by the laboratory failed at two locations (SREC-IA-032312 and NREC-IA-032312, the two recreational vehicle storage areas), so the initial field vacuum and the final field vacuum could not be recorded on the Canister Field Data Record forms (Appendix C). The laboratory measures pressure of the canisters before they are shipped to the Site and after the canisters are received back at the laboratory. The pressures before the canisters are sent are recorded on the Canister Field Data Records as the “Initial Vacuum Check” near the top of the form. The pressures after the samples are returned to the laboratory are recorded as the “Initial Vacuum” in the laboratory Canister pressurization part of the form. For both samples without field pressure gage readings the Initial Vacuum Check was 30 inches of mercury. The initial vacuum of SREC-IA-032312 upon return to the laboratory was 12.72 PSIA, which is equal to approximately 3 inches of mercury. The initial vacuum of NREC-IA-032312 was 13.00 PSIA, or approximately 2.44 inches of mercury. These pressure readings are consistent with the other samples where field measurements were made and indicate the integrity of the samples was not compromised.

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The ambient air sample was collected from approximately 1.5 feet above ground, not 5 feet as specified in the work plan. This was done to limit visibility of the canister and reduce the possibility of theft. This deviation from the work plan did not affect interpretation of the results of indoor air and sub-slab samples.

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3.0 Results

Table 1 presents the indoor and ambient air analytical results. **Table 2** presents the sub-slab soil vapor results. The complete analytical report is in **Appendix C**.

Table 1 and **Table 2** compare these results to USEPA's Regional Screening Levels (USEPA, 2011) for indoor air at industrial sites. Use of the PRR property is limited to industrial purposes by zoning and a deed restriction, so the industrial screening levels are applicable.

The Regional Screening Levels in **Tables 1 and 2** are based on a target excess lifetime cancer risk of $1x10^{-5}$ and a hazard quotient of 1. The Regional Screening Level for tetrachloroethylene is based on updated toxicity information from the USEPA's Integrated Risk Information System (IRIS) from February 10, 2012 (USEPA, 2012) that is not reflected in the Regional Screening Levels (USEPA, November 2011). A Regional Screening Level for cis-1,2-dichloroethene is not available; therefore the screening level for trans-1,2-dichlorethene was used as a surrogate value.

3.1 Indoor Air Analytical Result Summary

Table 1 presents the indoor and ambient air analytical results and compares these results to USEPA's Regional Screening Levels for indoor air.

Concentrations of trichloroethylene (TCE) in indoor air exceeded the screening level at every location except the room occupied by Michigan Precision. The screening level is 8.8 ug/m^3 and the concentrations of TCE ranged from 6.0 to 39 ug/m^3.

Concentrations of all other CVOCs in indoor air were less than the screening levels at every location.

Concentrations of all the CVOCs were less than the Occupational Safety and Health Administration's Permissible Exposure Limits (PELs).

3.2 Sub-Slab Soil Gas Analytical Result Summary

Table 2 presents the sub-slab soil vapor analytical results and compares these results to sub-slab soil vapor screening levels. Sub-slab soil vapor screening levels were derived by dividing the Regional Screening Levels for indoor air by USEPA's default sub-slab soil vapor to indoor air attenuation factor of 0.1 (USEPA, 2008).

Concentrations of TCE in sub-slab soil vapor exceeded the screening level at every sub-slab sample location. The screening level is 88 ug/m^3 and the concentrations of TCE ranged from 670 to 33,000 ug/m^3.

Concentrations of all other CVOCs in the sub-slab soil vapor were less than the screening levels at every location.

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4.0 Response Actions

4.1 Short-Term Response Action

PRR implemented a short-term response action on April 17, 2012. PRR opened large overhead doors on the east and west sides of the building to increase ventilation and reduce concentrations of TCE in indoor air.

Additional indoor air samples were collected during the week of April 23-27, 2012 from four occupied areas of the PRR building where concentrations of TCE exceeded the screening level. These samples were collected to evaluate the effectiveness of the short-term response action (increasing ventilation). The results of the post-ventilation sampling will be provided when they are available.

4.2 Long-Term Interim Response Actions

PRR will implement an interim measure consistent with the final remedy to address the concentrations of TCE in indoor air. Long-term response actions may include inspection of the building's floor and sealing cracks or other conditions that could allow sub-slab soil vapor to enter the building; and installation and operation of a sub-slab depressurization system (SSDPS).

4.2.1 Inspection and Sealing Floor

PRR will inspect the floor of the building for conditions that could allow sub-slab soil vapor to enter the building. Such conditions may include, but are not limited to:

- Floor and foundation cracks;
- Sumps;
- Floor drains;
- Floor or wall slab joints;
- Floor penetrations for structural elements, piping, wiring and ducts;
- Penetrations for monitoring wells, air sparge injection, SVE wells, sub-slab soil vapor monitoring points, and
- Exposed earth.

If such potential vapor entry conditions are identified, they will be sealed by:

- Repairing damaged concrete slabs;
- CVOC resistant caulk or expanding foam for openings and cracks;
- Covering and sealing areas of exposed earth;
- Placing airtight covers on sumps and vents to the exterior of the building; and
- Other appropriate measures depending on specific conditions.

4.2.2 Sub-Slab Depressurization System (SSDPS)

PRR will convert the existing – but not currently operating - soil vapor extraction (SVE) system to a SSDPS as an interim response action. The SSDPS will control migration of sub-slab vapors into the building by reducing air pressure below the slab. The collected soil vapor will be discharged to

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outdoor air through an 80-foot tall stack, which was formerly used for discharge of soil vapor from the SVE system and is still used for discharge from the air stripper.

The existing SVE system was operated from 1994 to 2008 as a voluntary soil remediation system that was not required by regulatory agencies. The SVE system was shut down after notice to the USEPA due to decreased concentrations of VOCs in soil vapor (see Section 1.3.1.3 of the CMP). The SVE wells and associated soil vapor monitoring points are still functional, but the SVE blower was removed.

PRR will install a new blower and operate the SVE system as a SSDPS. The SSDPS will reduce air pressure below the slab, thereby reducing or eliminating intrusion of vapor into the building.

PRR will provide a *Work Plan for Interim Sub-Slab Depressurization System* that will provide the details of this interim response. This interim response work plan will describe:

- Conversion of the former SVE system to a SSDPS;
- Modification of PRR's air permit, if necessary, to accept the modified system;
- Sub-slab pressure monitoring to document depressurization beneath the PRR building;
- Monitoring of emissions as required by the MDEQ air emission permit; and
- A contingency plan to address problems that may be identified by the monitoring programs.

4.2.3 Monitoring

Monitoring related to the interim response measures for indoor air at the PRR building will include:

- Collection of indoor air samples after building ventilation was increased, but before implementation of the SSDPS;
- Monitoring required by the air emission permit; and
- Monitoring sub-slab air pressure after implementation of the SSDPS.

Proposed monitoring is described in more detail in the *Work Plan for Interim Sub-Slab Depressurization System.*

Building ventilation was increased on April 17, 2012. Additional indoor air samples were collected during the week of April 22, 2012.

The building will be inspected for conditions that could allow sub-slab soil vapor to enter the building. A schedule for addressing such conditions will be provided after the specific conditions, if any, are identified.

4.2.4 Schedule

A schedule for conversion of the SVE system to a SSDPS and related monitoring will be included in the *Interim Response Work Plan for Sub-Slab Depressurization System at the PRR Building.*

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5.0 References

AECOM, 2012. Indoor Air and Sub-Sampling Soil Gas Sampling Work Plan for PRR Building (March, 2012).

Centers for Disease Control, 2010. NIOSH Pocket Guide to Chemical Hazards.

U.S. EPA, 1999. Compendium of Methods for the Determination of Compounds in Ambient Air, Second Edition, Compendium Method TO-15, Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GCMS). EPA/625/R96/01b, 1999).

U.S. EPA, 2008. Draft U.S. EPA's Vapor Intrusion Database: Preliminary Evaluation of Attenuation Factors. Office of Solid Waste, U.S. EPA, Washington, DC.

U.S. EPA 2011. United States Environmental Protection Agency Regional Screening Levels (RSLs). November 2011. http://www.epa.gov/region9/superfund//prg/index.html.

U.S.EPA, 2012. USEPA's Integrated Risk Information System (IRIS), www.epa.gov/IRIS. Accessed February 10, 2012 for current toxicity information for tetrachloroethene.

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Figure

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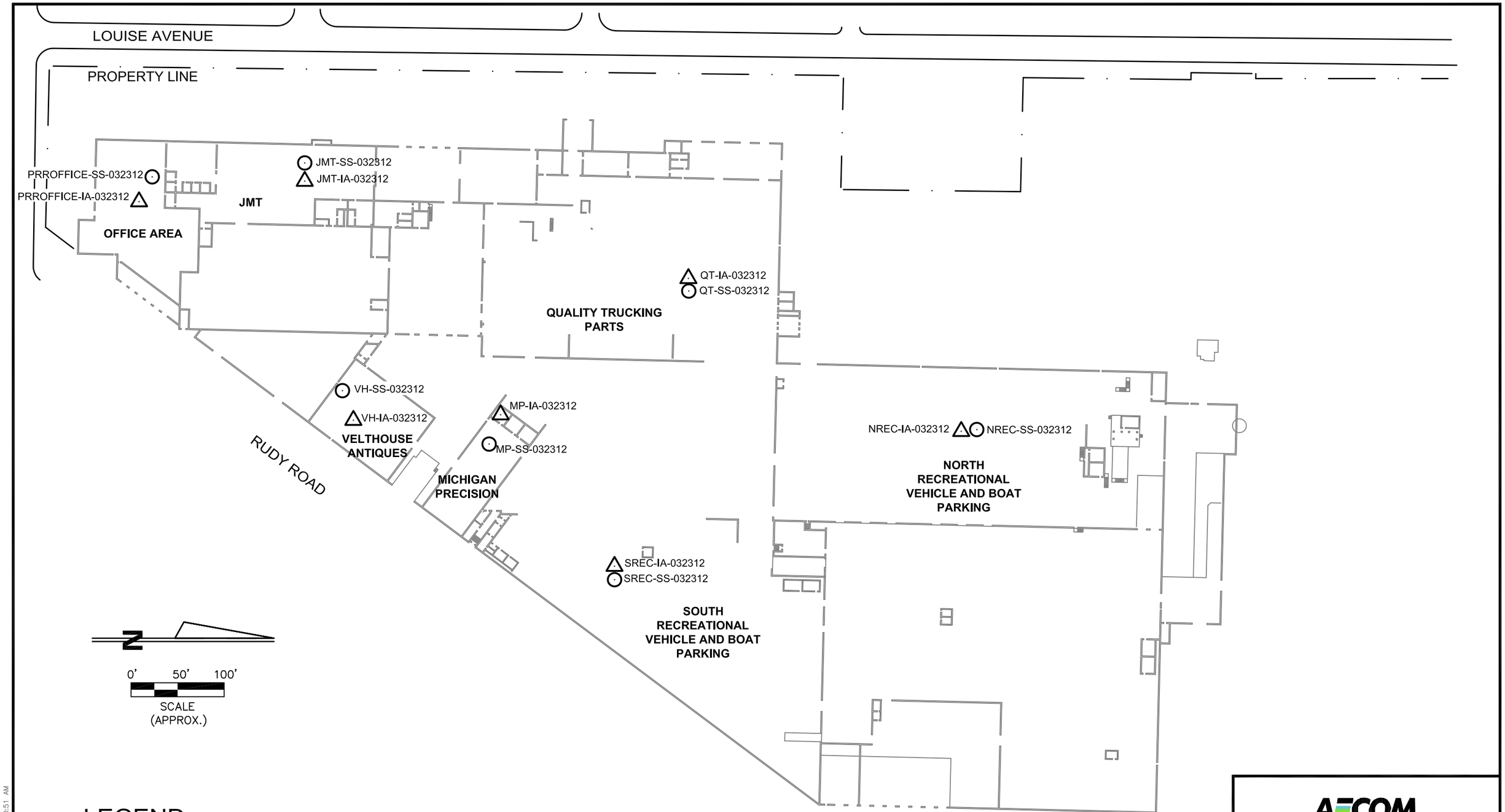

LEGEND:

△ APPROXIMATE INDOOR AIR SAMPLING LOCATION

○ APPROXIMATE LOCATION OF SUB-SLAB VAPOR SAMPLE

APPROXIMATE LOCATION OF AMBIENT AIR SAMPLE △ AA-032312

ORIGINAL BASEMAP PREPARED BY R. DAVID MURSCH, PE.

AECOM

FIGURE 1

APPROXIMATE INDOOR AND SUB-SLAB SOIL GAS SAMPLING LOCATIONS

NATIONAL COPPER PRODUCTS, INC
415 EAST PRAIRIE RONDE, DOWAGIAC, MICHIGAN 49047

FILE NAME:	DRN	PROJECT NO.	DATE	FIGURE NO.
60143510_F1_Samp.DWG	DPE	60143510	4/2012	1

Plotted By: eggerdingd
Layout-Sheet Name: FIGURE-1B
Plot File Date Created: Apr/26/2012 10:51 AM

Filename: P:\60143510\CAD\ES\60143510_F1_SAMP.DWG

Tables

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Table 1
Summary of Indoor Air Data in Comparison to Risk-Based Screening Levels
Prairie Ronde Realty
Dowagiac, Michigan

Compound	CAS	OSHA PEL	Indoor Air Screening Level (Industrial) (a)	PRR Office PRR Office-IA-032312 3-23-2012	JMT JMT-IA-032312 3-23-2012	Velthouse Antiques VH-IA-032312 3-23-2012	Michigan Precision MP-IA-032312 3-23-2012	Quality Trucking QT-IA-032312 3-23-2012	South Rec. Park SREC-IA-032312 3-23-2012	North Rec. Park NREC-IA-032312 3-23-2012	Ambient Air AA-032312 3-23-2012
Chloroethane	75-00-3	2,600,000	44,000	0.12 U	0.12 U	0.12 U	0.12 U	0.22 U	0.12 U	0.12 U	0.12 U
1,1-Dichloroethane	75-34-3	400,000	77	0.028	0.081	0.025	0.020 U	1.9	0.12	0.091	0.020 U
cis-1,2-Dichloroethene	156-59-2	NA	260 (b)	8.0	13	0.82	0.36	3.3	3.6	2.5	0.056 U
trans-1,2-Dichloroethene	156-60-5	NA	260	0.056 U	0.056 U	0.056 U	0.056 U	0.10 U	0.056 U	0.056 U	0.056 U
Tetrachloroethene	127-18-4	678,000	175 (c)	0.41	0.67	0.41	0.23	0.92	0.49	0.30	0.17
1,1,1-Trichloroethane	71-55-6	1,900,000	22,000	0.74	2.1	1.6	0.14	4.1	1.1	0.75	0.11 U
Trichloroethene	79-01-6	537,000	8.8	**17**	**39**	**26**	6.0	**30**	**20**	**20**	0.14
Vinyl Chloride	75-01-4	2,560	28	0.023	0.013 U	0.016	0.013 U	0.091	0.089	0.065	0.013 U

Notes:

All data presented in ug/m^3.
Compounds analyzed by USEPA Method TO-15 Selective Ion Monitoring (SIM).
Shaded results exceed the industrial indoor air screening levels.
CAS - Chemical Abstracts Service.
NA - Not available.
U - Not detected at or above the reported detection limit.
USEPA - United States Environmental Protection Agency.
OSHA PEL - Occupational Safety and Health Administration Permissable Exposure Limit (Centers for Disease Control, 2010).
(a) USEPA Regional Screening Level for Industrial Air (USEPA, November 2011), adjusted for target risk of 1x10-5 and target hazard quotient of 1.
(b) Screening level not available. Screening level for trans-1,2-dichloroethene was used due to structural similarities.
(c) Screening level calculated using updated toxicity information available through USEPA Integrated Risk Information System (IRIS) (2/10/2012). URL: http://www.epa.gov/iris.

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Table 2
Summary of Sub-Slab Vapor Data in Comparison to Risk-Based Screening Levels
Prairie Ronde Realty
Dowagiac, Michigan

Compound	CAS	Sub-Slab Vapor Screening Level (Industrial)(a)	PRR Office PRR Office-SS-032312 3-23-2012	JMT JMT-SS-032312 3-23-2012	Velthouse Antiques VH-SS-032312 3-23-2012	Michigan Precision MP-SS-032312 3-23-2012	Quality Trucking QT-SS-032312 3-23-2012	South Rec. Park SREC-SS-032312 3-23-2012	North Rec. Park NREC-SS-032312 3-23-2012
Chloroethane	75-00-3	440,000	10 U	20 U	140 U	88 U	370 U	150 U	2.1 U
1,1-Dichloroethane	75-34-3	770	5.8 U	12 U	80 U	51 U	520	89 U	1.7
cis-1,2-Dichloroethene	156-59-2	2,600 (b)	7.6 U	380	170	66 U	750	120 U	8.2
trans-1,2-Dichloroethene	156-60-5	2,600	7.6 U	15 U	100 U	66 U	270 U	120 U	1.6 U
Tetrachloroethene	127-18-4	1,750 (c)	17	26 U	180 U	110 U	470 U	200 U	170
1,1,1-Trichloroethane	71-55-6	220,000	51	160	3,300	68 U	10,000	120 U	58
Trichloroethene	79-01-6	88	**1,000**	**1,800**	**32,000**	**8,900**	**33,000**	**14,000**	**670**
Vinyl Chloride	75-01-4	280	2.4 U	4.9 U	34 U	21 U	88 U	37 U	0.51 U
Tracer									
Isopropyl Alcohol	67-63-0	NA	ND	ND	140	ND	ND	ND	ND

Notes:
All data presented in ug/m^3 except for the tracer Isopropyl Alcohol reported in parts per billion by volume (ppbv).
Compounds analyzed by USEPA Method TO-15.
Shaded results exceed the industrial sub-slab vapor screening levels.
CAS - Chemical Abstracts Service.
IRIS - USEPA's Integrated Risk Information System. [URL: http://www.epa.gov/iris].
NA - Not applicable.
ND - Not detected.
U - Not detected at or above the reported detection limit.
USEPA - United States Environmental Protection Agency.
(a) USEPA Regional Screening Level for Industrial Air (USEPA, November 2011), adjusted for target risk of 1x10-5 and target hazard quotient of 1, divided by USEPA default attenuation factor of 0.1.
(b) Screening level not available. Screening level for trans-1,2-dichloroethene was used due to structural similarities.
(c) Screening level calculated using updated toxicity information available through USEPA Integrated Risk Information System (IRIS) (2/10/2012). URL: http://www.epa.gov/iris.

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Appendix A

Photographic Log

Site: **Prairie Ronde Realty Company**
Project No.: 60143510

Photographic Log

1. Ambient Air Location 3-22-2012

2. Ambient Air Location 3-22-2012

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Site: **Prairie Ronde Realty Company**
Project No.: 60143510

Photographic Log

3. JMP-Sub-Slab Sample Location 3-21-2012

4. JMP- Sub-Slab Sample Location 3-23-2012

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Photographic Log

5. **Michigan Precision Sub-Slab Location 3-21-2012**

6. **Michigan Precision Sub-Slab Location 3-21-2012**

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Site: **Prairie Ronde Realty Company**
Project No.: 60143510

Photographic Log

1. Ambient Air Location 3-22-2012

2. Ambient Air Location 3-22-2012

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Site: **Prairie Ronde Realty Company**
Project No.: 60143510

Photographic Log

3. JMP-Sub-Slab Sample Location 3-21-2012

4. JMP- Sub-Slab Sample Location 3-23-2012

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Photographic Log

5. **Michigan Precision Sub-Slab Location 3-21-2012**

6. **Michigan Precision Sub-Slab Location 3-21-2012**

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Site: **Prairie Ronde Realty Company**
Project No.: 60143510

Photographic Log

7. **PRR Office Sub-Slab Sample Location 3-21-2012**

8. **PRR Office Sub-Slab Sample Location 3-21-2012**

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Site: **Prairie Ronde Realty Company**
Project No.: 60143510

Photographic Log

9. **North Rec Parking Sub-Slab Sample Location 3-21-2012**

8.

10. North Rec Parking Sub-Slab Sample Location 3-23-2012

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Photographic Log

11. South Rec Parking Sub-Slab Sample Location 3-21-2012

12. South Rec Parking Sub-Slab Sample Location 3-23-2012

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Site: **Prairie Ronde Realty Company**
Project No.: 60143510

Photographic Log

13. Quality Trucking Parts Sub-Slab Sample Location 3-21-2012

14. Quality Trucking Parts Sub-Slab Sample Location 3-23-2012

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15. Velthouse Antiques Sub-Slab Sample Location 3-21-2012

16. Velthouse Antiques Sub-Slab Sample Location 3-23-2012

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Appendix B

Field Notes

AECOM

Prairie Ronde Realty (PRR)
SS Sampling Field Form
Dowagiac, MI

Location	Sample Name	Cannister	Controller	Sample Time Start	Sample Time End	Leak Check	Initial Vacuum ("Hg)	Initial Temp (F)	Initial Barometric Pressure ("Hg)	Final Vacuum ("Hg)	Final Temp (F)	Final Barometric Pressure ("Hg)	PID Readings (ppb)
PRR Office	IA-032312	34001197	24177	0904	0904	—	29.5	67.9	29.34	4.0	68	29.22	166
	SS-032312	34000044	24229	0910	0910	✓	28.5	69.9	29.33	2.0	70.8	29.22	~~7090~~ 0.0 AM 3/27/12
JMT	IA-032312	34000612	24152	0924	0924	—	30	66.2	29.33	3.0	66.1	29.21	0.0
	SS-032312	34000047	24124	0924	0924	✓	30	66.2	29.33	5.0	66.1	29.21	0.0
Velthouse Ant.	IA-032312	34000607	24128	0946	0946	—	30	65.0	29.31	5.0	65.5	29.20	0.0
(VH)	SS-032312	34000038	24198	0946	0946	✓	30	65.0	29.31	4.5	65.5	29.20	0.0
Michigan Prec.	IA-032312	34001222	24001	0938	0938	—	29	72.7	29.32	4.0	73.2	29.20	0.0
(MP)	SS-032312	34000137	24084	0936	0936	✓	30	71.3	29.32	3.0	70.6	29.21	0.0
Quality Trucking	IA-032312	34000608	24244	0958	0958	✓	30	65.1	29.31	3.0	66.1	29.20	0.0
(QT)	SS-032312	34000070	24242	0957	0957	✓	30	65.0	29.32	4.5	65.8	29.20	0.0
~~North~~ South Rec. Park	IA-032312	34001276	24060	1005	1005	—	unk.	63.5	29.32	unk.	64.4	29.19	0.0
(S Rec)	SS-032312	34000444	24078	1005	1005	✓	30	63.5	29.32	4.0	64.4	29.19	0.0
North Rec. Park	IA-032312	34001200	24006	1016	1016	—	unk.	63.3	29.32	unk.	64.2	29.20	0.0
(N Rec)	SS-032312	34000275	24036	1016	1016	✓	29.5	63.3	29.32	4.0	64.2	29.20	0.0
Ambient Air	AA-032312	34001153	24248	1027	1027	—	28.5	80.5	29.34	2.5	68.0	29.21	0.0

Sampler Name: Michael PAPP
Date: 3/22/12 to 3/23/12
Sample Methodolgy: 6L summa canister @ 24-hr/sample.
Sample Analytical Meth: TO-15 (analyte list) + IPA on SS only.
Project Number: 60143510

Comments: Three volumes of air (open space of tubing and sample point) were purged with a flow rate not exceeding 200 ml/minute from sub-slab via a 60ml Luer-Lok™ Syringe.
Isoproply Alcohol (IPA) for leak check: Anhydrous 99.8+%, provided by Accutest.
VOC readings collected using a rental PPB RAE Plus (#HAZ0168).
N Rec and S Rec IA have no vacuum gauge.

TestAmerica Los Angeles
3585 Cadillac Ave., Suite A
Costa Mesa, CA 92626
Phone 714-258-8610 Fax 714-258-0921

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: Glenn Hendrix	1 of 4 COCs
Company: AECOM	Phone: 616-940-4406	Samples Collected By: Mike PAPP / Michael L. Tapp
Address: 5555 Glenwood Hills PKwy	Email: Glenn.Hendrix@aecom.com	
City/State/Zip: Grand Rapids, MI 49512	Site Contact:	
Phone: 616-940-4406	LAB Contact: Sonia Tabirara	
FAX:	Analysis Turnaround Time	
Project Name: PRR Dowagiac	Standard (Specify) 10 days	
Site:	Rush (Specify)	
PO #		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 SIM	TO-15 IS SCAN	TO-3	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
PRROffice-IA-032312	3/23/12	0904	0904	29.5	4.0	24177	1197	X								X				
PRROffice-SS-032312	↓	0910	0910	28.5	2.0	24239	0044		X					X				X		
JMT-IA-032312	↓	0924	0924	30	3.0	24152	0612	X								X				
JMT-SS-032312	↓	0924	0924	30	5.0	24124	0047		X					X				X		

Temperature (Fahrenheit)	Interior	Ambient
Start		
Stop		

Pressure (Inches of Hg)	Interior	Ambient
Start		
Stop		

*IPA analysis on SS samples only.

Special Instructions/QC Requirements & Comments:
Target Analyte List: Tetrachloroethylene, TCE, c-1,2-DCE, t-1,2-DCE, Vinyl chloride, 1,1,1-TCA, 1,1-DCA, chloroethane, IPA

Samples Shipped by: Michael L. Tapp	Date/Time: 3/27/12 / 1700	Samples Received by:
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

Lab Use Only Shipper Name: Opened by: Condition:

TestAmerica Los Angeles
3585 Cadillac Ave., Suite A
Costa Mesa, CA 92626
Phone 714-258-8610 Fax 714-258-0921

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: Glenn Hendrix	2 of 4 COCs
Company: AECOM	Phone: 616-940-4906	Samples Collected By: Mike PAPP / Michael W. Papp
Address: 5555 Glenwood Hills Pkwy	Email: Glenn.Hendrix@aecom.com	
City/State/Zip Grand Rapids, MI 49512	Site Contact:	
Phone: 616-940-4906	LAB Contact: Sonia Tabracca	
FAX:	Analysis Turnaround Time	
Project Name: IRR Douglas	Standard (Specify) 10 days	
Site:	Rush (Specify)	
PO #		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 SIM	TO-15 SCAN	TO-3	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type: Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
VH-IA-032312	3/23/12	0946	0946	30	5.0	24128	0607	X							X				
VH-SS-032312	↓	0946	0946	30	4.5	24188	0308		X					X			X		
MP-IA-032312		0938	0938	29	4.0	24001	1222	X							X				
MP-SS-032312	↓	0936	0936	30	3.0	24084	0137		X					X			X		

Temperature (Fahrenheit)	Interior	Ambient
Start		
Stop		

Pressure (Inches of Hg)	Interior	Ambient
Start		
Stop		

*IPA analysis on SS samples only.

Special Instructions/QC Requirements & Comments:
Target Analyte List: Tetrachloroethylene, TCE, c-1,2-DCE, t-1,2-DCE, Vinyl chloride, 1,1,1-TCA, 1,1-DCA, chloroethane, IPA

Samples Shipped by:	Date/Time:	Samples Received by:
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

Lab Use Only Shipper Name: Opened by: Condition:

TestAmerica Los Angeles
3585 Cadillac Ave., Suite A
Costa Mesa, CA 92626
Phone 714-258-8610 Fax 714-258-0921

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

3 of 4 COCs

Client Contact Information		Project Manager: Glenn Hendrix	Samples Collected By: Mike P. Rapp
Company: AECOM		Phone: 616-940-4406	
Address: 5555 Glenwood Hills Pkwy		Email: Glenn.Hendrix@aecom.com	
City/State/Zip Grand Rapids, MI 49512		Site Contact:	
Phone: 616-940-4406		LAB Contact: Sonia Tabirara	
FAX:		Analysis Turnaround Time	
Project Name: PRR Dowagrac		Standard (Specify) 10 days	
Site:		Rush (Specify)	
PO #			

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 SIM	TO-15 SCAN	TO-3	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type: Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
QT-IA-032312	3/23/12	0958	0958	30	3.0	24244	0608	X							X				
QT-SS-032312	↓	0957	0957	30	4.5	24242	0070		X					X			X		
SRec-IA-032312	↓	1005	1005	–	–	24060	1276	X							X				
SRec-SS-032312	↓	1005	1005	30	4.0	24078	0444		X					X			X		

SRec-IA-032312: no vacuum gauge on controller.

Temperature (Fahrenheit)	Interior	Ambient
Start		
Stop		

Pressure (Inches of Hg)	Interior	Ambient
Start		
Stop		

* IPA analysis on SS samples only.

Special Instructions/QC Requirements & Comments:
Target Analyte List: Tetrachloroethylene; TCE; c-1,2-DCE; t-1,2-DCE; vinyl chloride; 1,1,1-TCA; 1,1-DCA; chloroethane; IPA.

Samples Shipped by: Michael P. Rapp	Date/Time: 3/27/12 / 1700	Samples Received by:
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

Lab Use Only: Shipper Name: Opened by: Condition:

TestAmerica Los Angeles
3585 Cadillac Ave., Suite A
Costa Mesa, CA 92626
Phone 714-258-8610 Fax 714-258-0921

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4 of 4 COCs

Client Contact Information		Project Manager: Glenn Hendrix	Samples Collected By: Mike PARR / Matthew J. Lagge
Company: AECOM		Phone: 616-940-4406	
Address: 5555 Glenwood Hills Pkwy		Email: Glenn.Hendrix@aecom.com	
City/State/Zip Grand Rapids MI 49512		Site Contact:	
Phone: 616-940-4466		LAB Contact: Sonia Tabirara	
FAX:		Analysis Turnaround Time	
Project Name: PRR Donaghue		Standard (Specify) 10 days	
Site:		Rush (Specify)	
PO #			

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 SIM	TO-15 SCAN	TO-3	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type: Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
NRec-IA-032312	3/23/12	1016	1016	—	—	24006	1200	X							X				
NRec-SS-032312	↓	1016	1016	29.5	4.0	24036	0275		X					X			X		
AA-032312	↓	1027	1027	28.5	2.5	24248	1153	X								X			

NRec-IA-032312: no vacuum gauge on controller.

Temperature (Fahrenheit)	Interior	Ambient
Start		
Stop		

Pressure (Inches of Hg)	Interior	Ambient
Start		
Stop		

*IPA analysis on SS samples only.

Special Instructions/QC Requirements & Comments:
Target Analyte List: Tetrachloroethylene; TCE; c-1,2-DCE; t-1,2-DCE; Vinyl Chloride; 1,1,1-TCA; 1,1-DCA; Chloroethane; IPA

Samples Shipped by:	Date/Time:	Samples Received by:
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

Lab Use Only Shipper Name: Opened by: Condition:

PRRoffice-IA-032312

FORM A-1
CANISTER DATA FORM

I. GENERAL INFORMATION

Company Name: AECOM
Canister ID No.: 34001197
Company Contact: Mike PAPP
Sampler ID No.:
Company Address: Grand Rapids, MI
Vacuum Controller ID No.: 24177
Flow Controller ID No.: 24177
Telephone No.: 859-802-1709
Canister Leak Check Date: NA
Facsimile No.:
Shipping Date: 3/27/12

II. SAMPLING INFORMATION

Sampling Date: 3/22/12 - 3/23/12
Sampling Address: 415 E. Prairie Ronde St, Paw Paw, MI
Location of Canister is Place: PRR Office - See Map
Use of Room Where Canister is Place: office
Room Furnishings: ~~Metal shelving~~ none
Materials Stored in Room: none
Weather Conditions During Test: sunny + clear / overcast, rain

TEMPERATURE: 67.9°F / 68°F
BAROMETRIC PRESSURE

	INTERIOR AMBIENT	MAXIMUM	MINIMUM
START	29.34 "Hg		
STOP	29.22 "Hg		

Canister VACUUM on OPENING Valve: 29.5 "Hg
DATE Canister Valve OPENED: 3/22/12 TIME Canister Valve OPENED: 0904
DATE Canister Valve CLOSED: 3/23/12 TIME Canister Valve CLOSED: 0904
Canister VACUUM on CLOSING Valve: 4 "Hg

Mike A. Papp
Signature

3/23/12
Date

PRR Office-SS-032312

FORM A-1
CANISTER DATA FORM

I. GENERAL INFORMATION

Company Name: AECOM

Canister ID No.: 3400 0044

Company Contact: Mike PAPP

Sampler ID No.: —

Company Address: Grand Rapids, MI

Vacuum Controller ID No.: —

Flow Controller ID No.: 24229

Telephone No.: 859-802-1709

Canister Leak Check Date: 3/22/12 and 3/23/12

Facsimile No.: —

Shipping Date: 3/27/12

II. SAMPLING INFORMATION

Sampling Date: 3/22/12 to 3/23/12

Sampling Address: 415 E. Prairie Ronde St., Paragiac, MI

Location of Canister is Place: PRR Office - utility closet in between west RR.

Use of Room Where Canister is Place: storage, W.H.

Room Furnishings: WH

Materials Stored in Room: Swiffer Mop

Weather Conditions During Test: sunny + clear / overcast, rain

TEMPERATURE: 69.9°F / 70.8°F
BAROMETRIC PRESSURE

	INTERIOR AMBIENT	MAXIMUM	MINIMUM
START	29.33 "Hg		
STOP	29.22		

Canister VACUUM on OPENING Valve: 28.5 "Hg

DATE Canister Valve OPENED: 3/22/12 TIME Canister Valve OPENED: 0910

DATE Canister Valve CLOSED: 3/23/12 TIME Canister Valve CLOSED: 0910

Canister VACUUM on CLOSING Valve: 2 "Hg

Signature: Michael J. Papp

Date: 3/23/12

JMT-IA-032312

FORM A-1
CANISTER DATA FORM

I. GENERAL INFORMATION

Company Name: AECOM
Canister ID No.: 3400 0612
Company Contact: Mike PAPP
Sampler ID No.: —
Company Address: Grand Rapids, MI
Vacuum Controller ID No.: —
Flow Controller ID No.: 24152
Telephone No.: 859-802-1709
Canister Leak Check Date: NA
Facsimile No.: —
Shipping Date: 3/27/12

II. SAMPLING INFORMATION

Sampling Date: 3/22/12 to 3/23/12
Sampling Address: 415 E. Prairie Ronde, Douaglac, MI
Location of Canister is Place: JMT
Use of Room Where Canister is Place: storage + machine shop.
Room Furnishings: metal shelving, machinery
Materials Stored in Room: Various oils, cleaners, window
Weather Conditions During Test: sunny + clear / overcast, rain

TEMPERATURE: 66.2°F / 66.1°F
BAROMETRIC PRESSURE

	INTERIOR AMBIENT	MAXIMUM	MINIMUM
START	29.33 "Hg		
STOP	29.21 "Hg		

Canister VACUUM on OPENING Valve: 30 "Hg
DATE Canister Valve OPENED: 3/22/12 TIME Canister Valve OPENED: 0924
DATE Canister Valve CLOSED: 3/23/12 TIME Canister Valve CLOSED: 0924
Canister VACUUM on CLOSING Valve: 3 "Hg

Michael J. Papp
Signature

3/23/12
Date

JMT-SS-032312

FORM A-1
CANISTER DATA FORM

I. GENERAL INFORMATION

Company Name: AECOM
Canister ID No.: 34000047

Company Contact: Mike PAPP
Sampler ID No.: —

Company Address: Grand Rapids, MI
Vacuum Controller ID No.: —

Flow Controller ID No.: 24124

Telephone No.: 859-802-1709
Canister Leak Check Date: 3/22/12 + 3/23/12

Facsimile No.: —
Shipping Date: 3/22/12

II. SAMPLING INFORMATION

Sampling Date: 3/22/12 to 3/23/12
Sampling Address: 415 E. Prairie Ronde, Douaglas, MI
Location of Canister is Place: JMT
Use of Room Where Canister is Place: storage / machine shop
Room Furnishings: metal shelving, machinery
Materials Stored in Room: various oils, window cleaner
Weather Conditions During Test: sunny + clear / overcast, rain

TEMPERATURE: 66.2°F / 66.1°F
BAROMETRIC PRESSURE

	INTERIOR AMBIENT	MAXIMUM	MINIMUM
START	29.33" Hg		
STOP	29.21" Hg		

Canister VACUUM on OPENING Valve: 30" Hg

DATE Canister Valve OPENED: 3/22/12 TIME Canister Valve OPENED: 0924

DATE Canister Valve CLOSED: 3/23/12 TIME Canister Valve CLOSED: 0924

Canister VACUUM on CLOSING Valve: 5" Hg

Michael J. Papp
Signature

3/23/12
Date

VH-IA-032312

FORM A-1
CANISTER DATA FORM

I. GENERAL INFORMATION

Company Name: AECOM
Canister ID No.: 34000607

Company Contact: Mike PAPP
Sampler ID No.: —

Company Address: Grand Rapids, MI
Vacuum Controller ID No.: —

Flow Controller ID No.: 24128

Telephone No.: 859-802-1709
Canister Leak Check Date: NA

Facsimile No.: —
Shipping Date: 3/22/12

II. SAMPLING INFORMATION

Sampling Date: 3/22/12 to 3/23/12
Sampling Address: 415 E. Prairie Ronde, Portageac, MI
Location of Canister is Place: Velthouse Antiques
Use of Room Where Canister is Place: antique storage
Room Furnishings: furniture, various clothes, books/magazines
Materials Stored in Room: cleaning chems, stain, WD40 in SE room.
Weather Conditions During Test: sunny + clear

TEMPERATURE: 65°F / 65.5°F
BAROMETRIC PRESSURE

	INTERIOR AMBIENT	MAXIMUM	MINIMUM
START	29.31" Hg		
STOP	29.20" Hg		

Canister VACUUM on OPENING Valve: 30" Hg

DATE Canister Valve OPENED: 3/22/12 TIME Canister Valve OPENED: 0946

DATE Canister Valve CLOSED: 3/23/12 TIME Canister Valve CLOSED: 0946

Canister VACUUM on CLOSING Valve: 5" Hg

Michael J. Papp
Signature

3/23/12
Date

VH-SS-032312

FORM A-1
CANISTER DATA FORM

I. GENERAL INFORMATION

Company Name: AECOM
Canister ID No.: 34000308

Company Contact: Mike PAPP
Sampler ID No.: —

Company Address: Grand Rapids, MI
Vacuum Controller ID No.: —

Flow Controller ID No.: 24198

Telephone No.: 859-802-1709
Canister Leak Check Date: 3/22/12 and 3/23/12

Facsimile No.: —
Shipping Date: 3/07/12

II. SAMPLING INFORMATION

Sampling Date: 3/22/12 to 3/23/12
Sampling Address: 415 E. Prairie Rande, Douagiac, MI
Location of Canister is Place: Velthouse Antiques
Use of Room Where Canister is Place: antique storage
Room Furnishings: none
Materials Stored in Room: cleaning chems in a SE room,
Weather Conditions During Test: sunny + clear / overcast, rain

TEMPERATURE: 65°F / 65.5°F
BAROMETRIC PRESSURE

	INTERIOR AMBIENT	MAXIMUM	MINIMUM
START	29.31"Hg		
STOP	29.20"Hg		

Canister VACUUM on OPENING Valve: 30"Hg
DATE Canister Valve OPENED: 3/22/12 TIME Canister Valve OPENED: 0946
DATE Canister Valve CLOSED: 3/23/12 TIME Canister Valve CLOSED: 0946
Canister VACUUM on CLOSING Valve: 4.5"Hg

Signature: Mike A. Papp
Date: 3/23/12

MP-IA-032312

FORM A-1
CANISTER DATA FORM

I. GENERAL INFORMATION

Company Name: AECOM
Canister ID No.: 34001222
Company Contact: Mike PAPP
Sampler ID No.: —
Company Address: Grand Rapids, MI
Vacuum Controller ID No.: —
Flow Controller ID No.: 24001
Telephone No.: 859-802-1709
Canister Leak Check Date: NA
Facsimile No.: —
Shipping Date: 3/27/12

II. SAMPLING INFORMATION

Sampling Date: 3/22/12 to 3/23/12
Sampling Address: 415 E. Prairie Road, Dowagiac, MI
Location of Canister is Place: Michigan Precision
Use of Room Where Canister is Place: Machine shop office
Room Furnishings: tables, chairs, computer
Materials Stored in Room: none
Weather Conditions During Test: sunny + clear / overcast, rain

TEMPERATURE: 72.7°F / 73.2°F
BAROMETRIC PRESSURE

	INTERIOR AMBIENT	MAXIMUM	MINIMUM
START	29.32" Hg		
STOP	29.20" Hg		

Canister VACUUM on OPENING Valve: 29" Hg
DATE Canister Valve OPENED: 3/22/12 TIME Canister Valve OPENED: 0938
DATE Canister Valve CLOSED: 3/23/12 TIME Canister Valve CLOSED: 0938
Canister VACUUM on CLOSING Valve: 4" Hg

Michael J. Papp
Signature

3/23/12
Date

MP-SS-032312

FORM A-1
CANISTER DATA FORM

I. GENERAL INFORMATION

Company Name: AECOM
Canister ID No.: 34000137

Company Contact: Mike PAPP
Sampler ID No.: —

Company Address: Grand Rapids, MI
Vacuum Controller ID No.: —

Flow Controller ID No.: 24084

Telephone No.: 859-581-2540
Canister Leak Check Date: 3/22/12 and 3/23/12

Facsimile No.: —
Shipping Date: 3/27/12

II. SAMPLING INFORMATION

Sampling Date: 3/22/12 to 3/23/12
Sampling Address: 415 E. Prairie Ronde, Dowagiac, MI
Location of Canister is Place: Michigan Precision
Use of Room Where Canister is Place: Machine shop
Room Furnishings: Machinery
Materials Stored in Room: Water soluable oils
Weather Conditions During Test: sunny + clear / overcast, rain

TEMPERATURE: 71.3°F / 70.6°F
BAROMETRIC PRESSURE

	INTERIOR AMBIENT	MAXIMUM	MINIMUM
START	29.32" Hg		
STOP	29.21" Hg		

Canister VACUUM on OPENING Valve: 30" Hg

DATE Canister Valve OPENED: 3/22/12 TIME Canister Valve OPENED: 0936

DATE Canister Valve CLOSED: 3/23/12 TIME Canister Valve CLOSED: 0936

Canister VACUUM on CLOSING Valve: 3" Hg

Signature: Mike P. Papp Date: 3/23/12

QT-IA-032312

FORM A-1
CANISTER DATA FORM

I. GENERAL INFORMATION

Company Name: AECOM
Canister ID No.: 34000608
Company Contact: Mike PAPP
Sampler ID No.: —
Company Address: Grand Rapids, MI
Vacuum Controller ID No.: —
Flow Controller ID No.: 24244
Telephone No.: 859-802-1709
Canister Leak Check Date: NA
Facsimile No.: —
Shipping Date: 3/22/12

II. SAMPLING INFORMATION

Sampling Date: 3/22/12 to 3/23/12
Sampling Address: 415 E. Prairie Ronde, Pavagiac, MI
Location of Canister is Place: Quality Trucking
Use of Room Where Canister is Place: break room.
Room Furnishings: tables
Materials Stored in Room: none
Weather Conditions During Test: sunny + clear / overcast, rain

TEMPERATURE: 69.1°F / 66.1°F
BAROMETRIC PRESSURE

	INTERIOR AMBIENT	MAXIMUM	MINIMUM
START	29.32" Hg		
STOP	29.20" Hg		

Canister VACUUM on OPENING Valve: 30" Hg
DATE Canister Valve OPENED: 3/22/12 TIME Canister Valve OPENED: 0958
DATE Canister Valve CLOSED: 3/22/12 TIME Canister Valve CLOSED: 0958
Canister VACUUM on CLOSING Valve: 3" Hg

Signature: Michael J. Papp
Date: 3/23/12

QT-SS-032312

FORM A-1
CANISTER DATA FORM

I. GENERAL INFORMATION

Company Name: AECOM
Canister ID No.: 3400 0070

Company Contact: Mike PAPP
Sampler ID No.: —

Company Address: Grand Rapids, MI
Vacuum Controller ID No.: —

Flow Controller ID No.: 24242

Telephone No.: 859-802-1709
Canister Leak Check Date: 3/22/12 and 3/23/12

Facsimile No.: —
Shipping Date: 3/27/12

II. SAMPLING INFORMATION

Sampling Date: 3/22/12 to 3/23/12
Sampling Address: 415 E. Prairie Ronde, Douagiac, MI
Location of Canister is Place: Quality Trucking
Use of Room Where Canister is Place: none, just outside breakroom in warehouse area
Room Furnishings: none
Materials Stored in Room: none
Weather Conditions During Test: sunny + clear / overcast, rain

TEMPERATURE: 65°F / 65.8°F
BAROMETRIC PRESSURE

	INTERIOR AMBIENT	MAXIMUM	MINIMUM
START	29.32 "Hg		
STOP	29.20 "Hg		

Canister VACUUM on OPENING Valve: 30 "Hg

DATE Canister Valve OPENED: 3/22/12 TIME Canister Valve OPENED: 0957

DATE Canister Valve CLOSED: 3/23/12 TIME Canister Valve CLOSED: 0957

Canister VACUUM on CLOSING Valve: 4.5 "Hg

Signature: Mike P. Papp Date: 3/23/12

SRec-IA-032312

FORM A-1
CANISTER DATA FORM

I. GENERAL INFORMATION

Company Name: AECOM
Canister ID No.: 34001276

Company Contact: Mike PAPP
Sampler ID No.: —

Company Address: Grand Rapids, MI
Vacuum Controller ID No.: —

Flow Controller ID No.: 24060

Telephone No.: 859-802-1709
Canister Leak Check Date: NA

Facsimile No.: —
Shipping Date: 3/17/12

II. SAMPLING INFORMATION

Sampling Date: 3/22/12 to 3/23/12
Sampling Address: 415 E. Prairie Ronde, Dowagiac, MI.
Location of Canister is Place: South Rec. Vehicle/Boat Parking
Use of Room Where Canister is Place: Parking
Room Furnishings: misc. boats + trailers
Materials Stored in Room: none, oil in nearby stored machinery
Weather Conditions During Test: sunny + clear / overcast, rain

TEMPERATURE: 63.5°F / 69.4°F
BAROMETRIC PRESSURE

	INTERIOR AMBIENT	MAXIMUM	MINIMUM
START	29.32" Hg		
STOP	29.19" Hg		

Canister VACUUM on OPENING Valve: unk. (no gauge)
DATE Canister Valve OPENED: 3/22/12 TIME Canister Valve OPENED: 1005
DATE Canister Valve CLOSED: 3/23/12 TIME Canister Valve CLOSED: 1005
Canister VACUUM on CLOSING Valve: unk. (no vacuum gauge)

Signature: Mike A. Papp Date: 3/23/12

SRec-SS-032312

FORM A-1
CANISTER DATA FORM

I. GENERAL INFORMATION

Company Name: AECOM
Canister ID No.: 3900 0444
Company Contact: Mike PAPP
Sampler ID No.: —
Company Address: Grand Rapids, MI
Vacuum Controller ID No.: —
Flow Controller ID No.: 24078
Telephone No.: 859-802-1709
Canister Leak Check Date: 3/22/12 and 3/23/12
Facsimile No.: —
Shipping Date: 3/22/12

II. SAMPLING INFORMATION

Sampling Date: 3/22/12 to 3/23/12
Sampling Address: 415 E. Prairie Rande, Douagiac, MI
Location of Canister is Place: South Rec. Vehicle/Boat Parking
Use of Room Where Canister is Place: Parking, storage for machinery
Room Furnishings: misc. boats, trailers
Materials Stored in Room: oil inside machinary
Weather Conditions During Test: sunny + clear / overcast, rain

TEMPERATURE: 63.5°F / 64.4°F
BAROMETRIC PRESSURE

	INTERIOR AMBIENT	MAXIMUM	MINIMUM
START	29.32 "Hg		
STOP	29.19 "Hg		

Canister VACUUM on OPENING Valve: 30" Hg
DATE Canister Valve OPENED: 3/22/12 TIME Canister Valve OPENED: 1005
DATE Canister Valve CLOSED: 3/23/12 TIME Canister Valve CLOSED: 1005
Canister VACUUM on CLOSING Valve: 4" Hg

Signature: [signature] Date: 3/22/12

NRec-IA-032312

FORM A-1
CANISTER DATA FORM

I. GENERAL INFORMATION

Company Name: AECOM
Canister ID No.: 34001200
Company Contact: Mike PAPP
Sampler ID No.: —
Company Address: Grand Rapids, MI
Vacuum Controller ID No.: —
Flow Controller ID No.: 24006
Telephone No.: 859-802-1709
Canister Leak Check Date: NA
Facsimile No.: —
Shipping Date: 3/22/12

II. SAMPLING INFORMATION

Sampling Date: 3/22/12 to 3/23/12
Sampling Address: 415 E. Prairie Ronde, Douaglas, MI
Location of Canister is Place: North Rec. Vehicle/Boat Parking
Use of Room Where Canister is Place: Parking
Room Furnishings: boats, trailers, RVs.
Materials Stored in Room: none
Weather Conditions During Test: sunny + clear / overcast, rain

TEMPERATURE: 63.3°F / 64.2°F
BAROMETRIC PRESSURE

	INTERIOR AMBIENT	MAXIMUM	MINIMUM
START	29.32" Hg		
STOP	29.20" Hg		

Canister VACUUM on OPENING Valve: unk. (no gauge)
DATE Canister Valve OPENED: 3/22/12 TIME Canister Valve OPENED: 1016
DATE Canister Valve CLOSED: 3/23/12 TIME Canister Valve CLOSED: 1016
Canister VACUUM on CLOSING Valve: unk. (no vacuum gauge)

Signature: Mike J. Papp
Date: 3/23/12

NRec-SS-032312

FORM A-1
CANISTER DATA FORM

I. GENERAL INFORMATION

Company Name: AECOM

Canister ID No.: 34000275

Company Contact: Mike PAPP

Sampler ID No.: —

Company Address: Grand Rapids, MI

Vacuum Controller ID No.: —

Flow Controller ID No.: 24036

Telephone No.: 859-802-1709

Canister Leak Check Date: 3/22/12 and 3/23/12

Facsimile No.: —

Shipping Date: 3/27/12

II. SAMPLING INFORMATION

Sampling Date: 3/22/12 to 3/23/12

Sampling Address: 415 E. Prairie Ronde, Douagiac, MI

Location of Canister is Place: North Rec. Vehicle/Boat Parking

Use of Room Where Canister is Place: Parking

Room Furnishings: boats, trailers, RVs.

Materials Stored in Room: none

Weather Conditions During Test: sunny + clear / overcast, rain

TEMPERATURE: 63.3 °F / 64.2 °F

BAROMETRIC PRESSURE

	INTERIOR AMBIENT	MAXIMUM	MINIMUM
START	29.32" Hg		
STOP	29.20" Hg		

Canister VACUUM on OPENING Valve: 29.5" Hg

DATE Canister Valve OPENED: 3/22/12 TIME Canister Valve OPENED: 1016

DATE Canister Valve CLOSED: 3/23/12 TIME Canister Valve CLOSED: 1016

Canister VACUUM on CLOSING Valve: 4" Hg

Mike N. Papp
Signature

3/23/12
Date

AA-032312

FORM A-1
CANISTER DATA FORM

I. GENERAL INFORMATION

Company Name: AECOM
Canister ID No.: 3400 1153
Company Contact: Mike PAPP
Sampler ID No.: —
Company Address: Grand Rapids, MI
Vacuum Controller ID No.: —
Flow Controller ID No.: 24248
Telephone No.: 859-802-1709
Canister Leak Check Date: NA
Facsimile No.: —
Shipping Date: 3/22/12

II. SAMPLING INFORMATION

Sampling Date: 3/22/12 to 3/23/12
Sampling Address: 415 E. Prairie Ronde, Douagiac, MI
Location of Canister is Place: NE section of property near fenceline.
Use of Room Where Canister is Place: outside
Room Furnishings: none
Materials Stored in Room: none
Weather Conditions During Test: sunny/clear/overcast, rain

TEMPERATURE: 80.5°F / 68°F
BAROMETRIC PRESSURE

	INTERIOR AMBIENT	MAXIMUM	MINIMUM
START	29.39 "Hg		
STOP	29.21 "Hg		

Canister VACUUM on OPENING Valve: 28.5 "Hg
DATE Canister Valve OPENED: 3/22/12 TIME Canister Valve OPENED: 1027
DATE Canister Valve CLOSED: 3/23/12 TIME Canister Valve CLOSED: 1027
Canister VACUUM on CLOSING Valve: 2.5 "Hg

Signature

3/23/12
Date

PRR office

FORM A-2
BUILDING INFORMATION FORM

Date: 3/21/12 Time: 1238 Inspector: Mike Papp

Pictures Allowed: ☑ Yes ☐ No

Sample No. —

Address: 415 E. Prairie Ronde St., Pontiac, MI

Contact Name: Brian DeLong

Years at this Address: since 1995

BUILDING TYPE: One story: ✓ Multi-story ____ Brick ✓ Siding ____ Stucco ____

WEATHER SEALS: General Condition: Good ✓ Fair ____ Poor ____

BASEMENT:	None	☑ Finished	Unfinished	Depth below grade
	Partial	☐ — ☐	☐	_____
	Full	☐ — ☐	☐	_____
	Crawl space	☐ na	na	_____

Foundation construction: Poured concrete ☑ Cinder block ☐

Condition at floor/wall joint (if visible) Good

Floor drains, sump none

Vents, fans, windows windows

Floor condition (type, cracks, drains) cement, covered by carpet

Wall openings, utility pipe penetrations electric, restroom piping

Moisture Condition (dry, damp, wet) Dry

FURNACE: Location: Overhead

Type: gas ☑ Forced air ☑

oil ☐ hot water ☑

electric ☐ other _____

Blower capacity (if applicable) unk.

Does furnace have outside combustion air vent? Yes

Winter temperature setting: day 60's night 60's

45 unocc
to 50°F

PRR Office

AIR CONDITIONER: None _____ Central ✓ (if yes, capacity?) _____ Room _____

(If yes, which rooms and capacities? _____

RADON SYSTEM: Yes ____ No ✓ If yes, floor scaled? _____

Floor drain/sump vent? ~
Other ventilation? ~

Pictures Taken:

1. SS opening with constructed VP.
2. West RRs.
3. Utility closet in between restrooms.
4. Utility closet.
5. VP
6. VP close-up.
7. SW offices.
8. same
9. "
10. "
11. "
12. "
13. "
14.
15.
16.
17.
18.
19.
20.

Highlighted in Green on Map.

FRONT OFFICE
(PRR office)

FORM A-3
TENANT QUESTIONNAIRE

VOCs are found in outside air and in the air inside of buildings. VOCs can be found in solvents and other household items such as pesticides, insecticides, adhesives, aerosols, paints, coatings, dry cleaning, carpet and drapery cleaning fluids, and household spot removers. Other common VOC sources include telephone and computer cables, plastic items, vinyl cove molding, PVC plumbing, linoleum, concrete blocks, latex paint, carpet padding, foam rubber, lubricants, and cosmetics.

Your answer to the following questions will help us determine if VOC sources exist in your building. Please answer each question to the best of your knowledge.

1. When was the last time dry-cleaned clothes were brought into the building?

   ☐ 0 to 5 days ago ☐ 6 to 10 days ago ☑ More than 10 days ago

2. When was the carpet installed?

   ☐ In the last six months ☑ More than six months ago

3. When was the last time the carpet was cleaned?

   ☑ In the last six month ☐ More than six months ago

4. Are there any spot removers in the building?

   ☐ Yes ☑ No

5. Do your tasks include model building, arts and crafts, model railroading metal cleaning, or others that require paints, thinners, solvents, or glue?

   ☐ Yes ☑ No

6. Is automotive or other vehicle maintenance or repair perforned at the building?

   ☐ Yes ☑ No

7. Please review the following list, and check items you know are in the building.

   ☑ at ex caulk

   ☑ atex paint

   ☐ i nyl cove molding

   ☐ n oleum tile

   ☐ Large diameter telephone cable

   ☑ Small diameter telephone cable

   ☑ ack rubber molding

   ☐ i nyl edge molding

Front Office
(PRR Office)

☑ lystyrene foam insulation

☑ ement block

☐ reated metal roofing

8. Are there any pesticides in the building?

☑ Yes for mice N☐ Uns☐ ure

9. Are there any spray insecticides in the building?

☐ Yes No ☑ Uns☐ ure

10. Has the building interior been painted in the last 12 months?

☑ es ☐ No

11. Has the building exterior been painted in the last 12 months?

☐ es ☑ No

12. If question 10 or 11 is yes, please indicate what paint was used.

☐ nam el

☐ Vinyl

☑ Latex

☐ Other

13. Where are paint, thinner, pesticides, insecticides stored?

☐ Garage

☐ Basement

☐ torage shed

☑ Other Closet

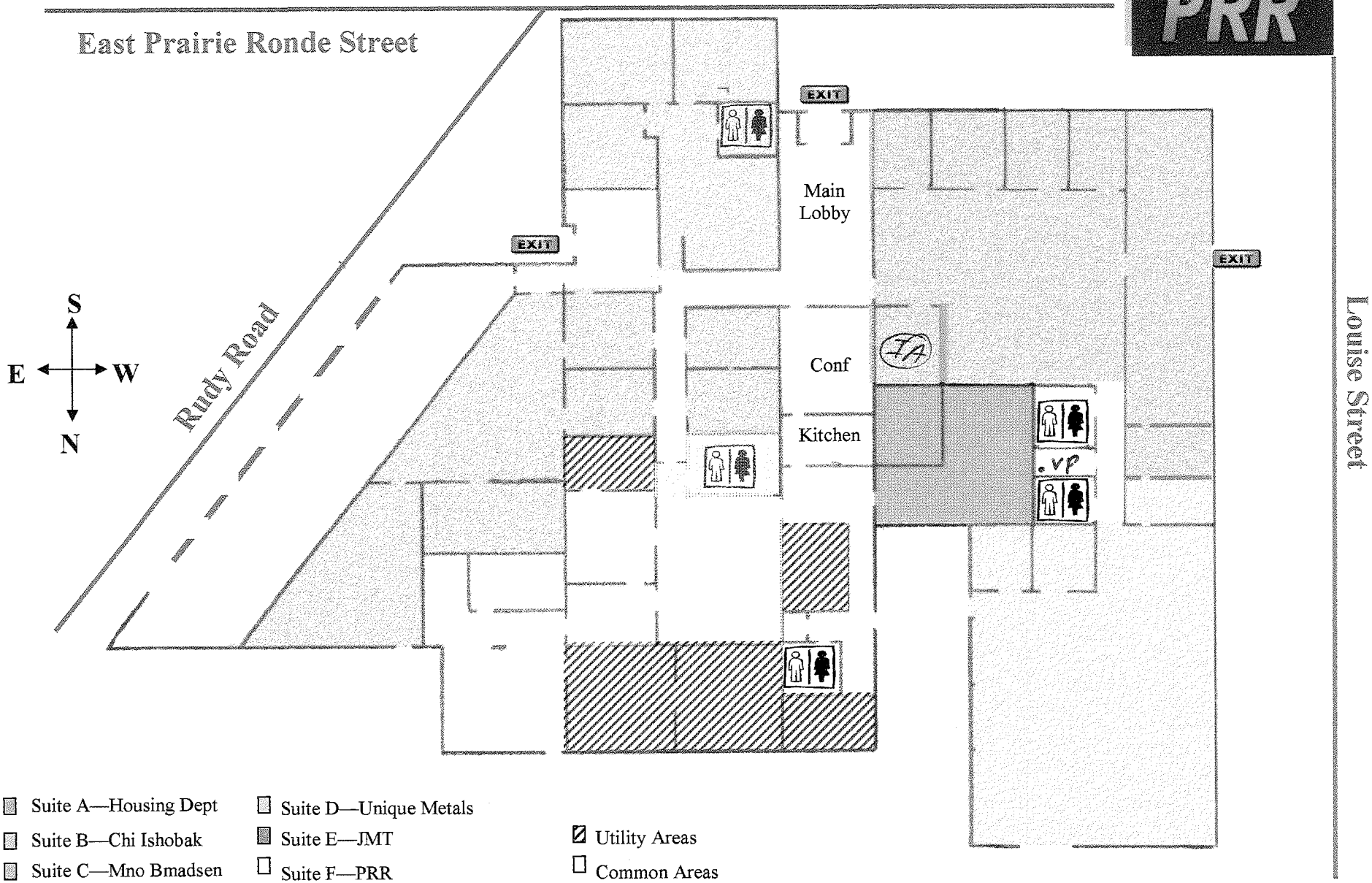
☐ These are not stored in the building.

14. Are there pets or other animals in the building?

☐ es ☑ No

If yes, what type? _____
If yes, number _____

THE BUSINESS CENTER—OFFICE SUITE LAYOUT



JMT

FORM A-2
BUILDING INFORMATION FORM

Date: 3/21/12 Time: 1010 Inspector: Mike Papp

Pictures Allowed: ☑ Yes ☐ No

Sample No. _____

Address: 415 E. Prairie Ronde, Dowagiac, MI

Contact Name: Brian DeLong

Years at this Address: 1 year

BUILDING TYPE: One story: ✓ Multi-story ____ Brick ____ Siding ____ Stucco ____

WEATHER SEALS: General Condition: Good ____ Fair ✓ Poor ____

BASEMENT:	None	☑ Finished	Unfinished	Depth below grade
	Partial	☐ — ☐	☐	_____
	Full	☐ — ☐	☐	_____
	Crawl space	☐ na	na	_____

Foundation construction: Poured concrete ☑ Cinder block ☐

Condition at floor/wall joint (if visible) Good

Floor drains, sump No open drains/sumps, SVE well

Vents, fans, windows Windows, bay doors, fans present.

Floor condition (type, cracks, drains) Cement, N end w/cracks,

Wall openings, utility pipe penetrations Electrical, restroom plumbing

Moisture Condition (dry, damp, wet) Dry

FURNACE: Location: Overhead

Type: gas ☑ Forced air ☑

oil ☐ hot water ☑

electric ☐ other _____

Blower capacity (if applicable) unk.

Does furnace have outside combustion air vent? Yes

Winter temperature setting: day 60's night 60's

JMT

AIR CONDITIONER: None _____ Central ✓ (if yes, capacity?) _____ Room _____

(If yes, which rooms and capacities? _____

RADON SYSTEM: Yes ____ No ✓ If yes, floor scaled? _____

Floor drain/sump vent? —
Other ventilation? —

Pictures Taken:

1. SS opening and constructed Vapor Point.
2. Bulk lubes/oils/cleaners
3. View North from bulk chem. storage
4. North end facing east toward RRs.
5. Large floor crack - N end.
6. SVE well N end, VP seen in BKG next to metal shelving unit.
7. Metal shelving unit. VP @ bottom right of shelf.
8. Close up view of VP.
9. North end, north view.
10. North end facing south.
11. View facing SE at south end.
12.
13.
14.
15.
16.
17.
18.
19.
20.

JMT

FORM A-3
TENANT QUESTIONNAIRE

VOCs are found in outside air and in the air inside of buildings. VOCs can be found in solvents and other household items such as pesticides, insecticides, adhesives, aerosols, paints, coatings, dry cleaning, carpet and drapery cleaning fluids, and household spot removers. Other common VOC sources include telephone and computer cables, plastic items, vinyl cove molding, PVC plumbing, linoleum, concrete blocks, latex paint, carpet padding, foam rubber, lubricants, and cosmetics.

Your answer to the following questions will help us determine if VOC sources exist in your building. Please answer each question to the best of your knowledge.

1. When was the last time dry-cleaned clothes were brought into the building?

   ☐ 0 to 5 days ago ☐ 6 to 10 days ago ☑ More than 10 days ago

2. When was the carpet installed? No Carpet.

   ☐ In the last six months ☐ More than six months ago

3. When was the last time the carpet was cleaned? NA

   ☐ In the last six month ☐ More than six months ago

4. Are there any spot removers in the building?

   ☐ Yes ☑ No

5. Do your tasks include model building, arts and crafts, model railroading metal cleaning, or others that require paints, thinners, solvents, or glue? Machine Shop

   ☑ Yes ☐ No

6. Is automotive or other vehicle maintenance or repair perforned at the building? Machine repair.

   ☑ Yes ☐ No

7. Please review the following list, and check items you know are in the building.

   ☑ at ex caulk

   ☑ atex paint

   ☐ i nyl cove molding

   ☐ n oleum tile

   ☐ Large diameter telephone cable

   ☑ Small diameter telephone cable

   ☑ ack rubber molding

   ☐ i nyl edge molding

JMT

☑ lystyrene foam insulation

☑ ement block

☐ reated metal roofing

8. Are there any pesticides in the building?

☑ Yes N☐ Uns☐ ure

pellets for mice

9. Are there any spray insecticides in the building?

☐ Yes No☐ Uns☑ ure

10. Has the building interior been painted in the last 12 months?

☐ es ☑ No

11. Has the building exterior been painted in the last 12 months?

☐ es ☑ No

12. If question 10 or 11 is yes, please indicate what paint was used.

☐ nam el

☐ Vinyl

☐ Latex

☐ Other

13. Where are paint, thinner, pesticides, insecticides stored?

☐ Garage

☐ Basement

☐ torage shed

☑ Other

☐ These are not stored in the building.

14. Are there pets or other animals in the building?

☐ es ☑ No

If yes, what type? _____

If yes, number _____

AECOM

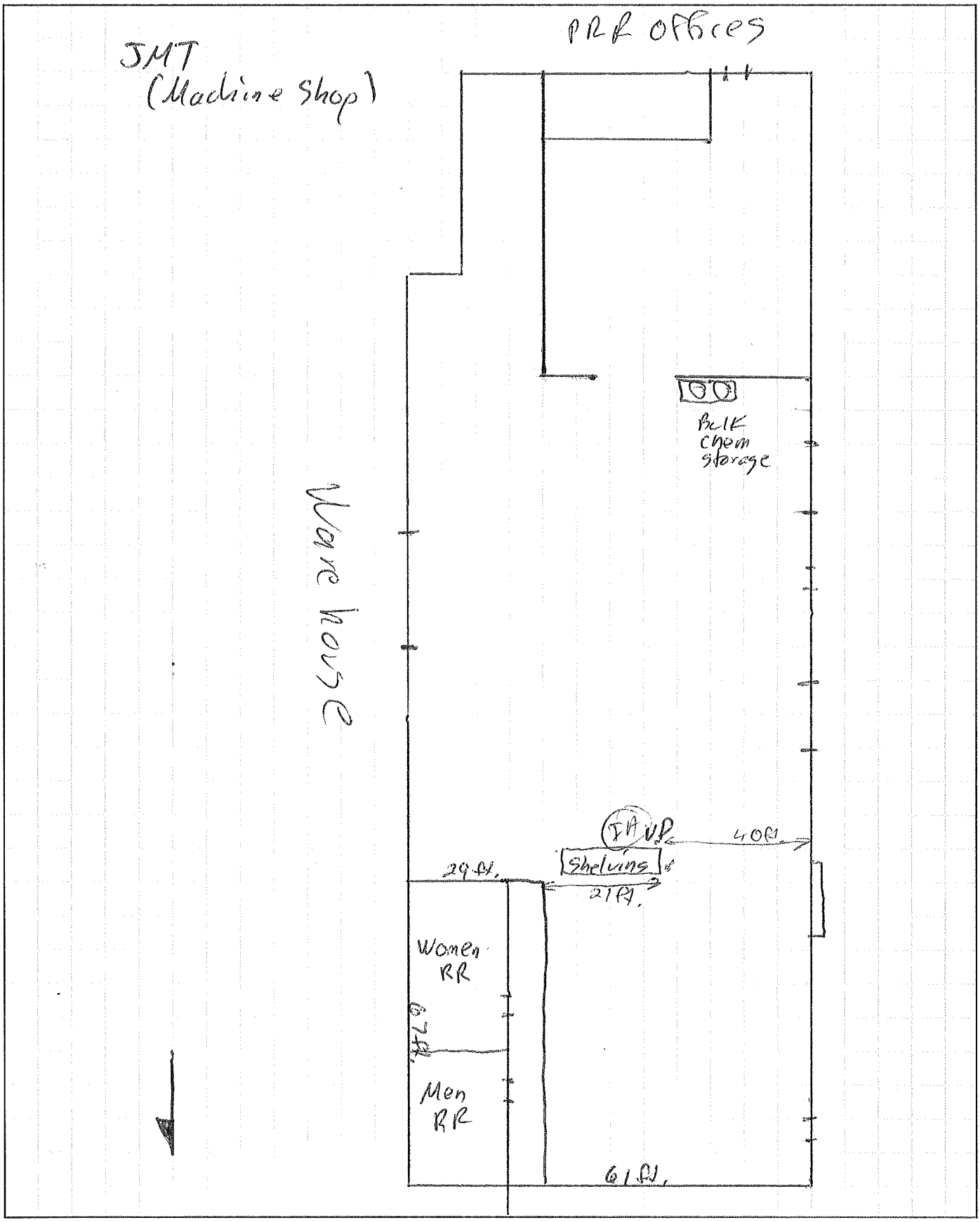
JOB TITLE PRR Dowagiac

JOB NO. _____ CALCULATION NO. _____

ORIGINATOR _____ DATE 3/21/12

REVIEWER _____ DATE _____

SCALE _____ SHEET NO. _____ OF _____



Grid: 4x4 = 1"

Mich. Precision

FORM A-2
BUILDING INFORMATION FORM

Date: 3/21/12 Time: _____ Inspector: Mike Popp

Pictures Allowed: ☑ Yes ☐ No

Sample No. —

Address: 415 E. Prairie Ronde St., Douagiac, MI.

Contact Name: Brian Delong

Years at this Address: 10 years

BUILDING TYPE: One story: ✓ Multi-story ____ Brick ____ Siding ____ Stucco ____

WEATHER SEALS: General Condition: Good ✓ Fair ____ Poor ____

BASEMENT:	None	☑ Finished	Unfinished	Depth below grade
	Partial	☐ — ☐	☐	_____
	Full	☐ — ☐	☐	_____
	Crawl space	☐ na	na	_____

Foundation construction: Poured concrete ☑ Cinder block ☐

Condition at floor/wall joint (if visible) good

Floor drains, sump none

Vents, fans, windows vents, fans, windows present

Floor condition (type, cracks, drains) cement, good

Wall openings, utility pipe penetrations electric, restroom piping

Moisture Condition (dry, damp, wet) Dry

FURNACE: Location: Overhead

Type: gas ☑ Forced air ☑

oil ☐ hot water ☑

electric ☐ other _____

Blower capacity (if applicable) unk.

Does furnace have outside combustion air vent? yes

Winter temperature setting: day 60's night 60's

Mech. Prec.

AIR CONDITIONER: None _____ Central ✓ (if yes, capacity?) _____ Room _____

(If yes, which rooms and capacities? _____

RADON SYSTEM: Yes ____ No ✓ If yes, floor scaled? _____

Floor drain/sump vent? —
Other ventilation? —

Pictures Taken:

1. SS opening and constructed VP.
2. VP next to I-beam. NW end.
3. VP close-up.
4.
5.
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19.
20.

Engineering Concept
, Do Not Scale
For Review Only

FORM A-3
PROPERTY QUESTIONNAIRE

Michigan Precision Tool & Engineering
613 RUDY ROAD
DOWAGIAC, MI 49047

VOCs are found in outside air and in the air inside of buildings. VOCs can be found in solvents and other household items, such as pesticides, insecticides, adhesives, aerosols, paints, coatings, dry cleaning, carpet and drapery cleaning fluids, and household spot removers. Other common VOC sources include telephone and computer cables, plastic items, vinyl cove molding, PVC plumbing, linoleum, concrete blocks, latex paint, carpet padding, foam rubber, lubricants, and cosmetics.

Your answer to the following questions will help us determine if sources of VOCs exist at your property. Please answer each question to the best of your knowledge.

1. When was the last time dry-cleaned clothes were brought into the building?

   ☐ 0 to 5 days ago ☐ 6 to 10 days ago ☑ More than 10 days ago

2. When was your carpet installed?

   ☐ In the last six months ☑ More than six months ago

3. When was the last time your carpet was cleaned?

   ☐ In the last six months ☑ More than six months ago

4. Do you have any spot removers in the house?

   ☐ Yes ☑ No

5. Do your hobbies include model buildings, arts and crafts, model railroading metal cleaning, or others that require paints, thinners, solvents, or glue?

   ☐ Yes ☑ No

6. Do you perform automotive or other vehicle maintenance or repair at home?

   ☐ Yes ☑ No

7. Please review the following list and check items you know are in your home.

   ☐ Latex caulk

   ☐ Latex paint

   ☐ Vinyl cove molding

   ☐ Linoleum tile

   ☐ Large diameter telephone cable

   ☐ Small diameter telephone cable

   ☐ Black rubber molding

   ☐ Vinyl edge molding

Mich. Proc.

- ☐ Polystyrene foam insulation
- ☑ Cement block
- ☐ Treated metal roofing

8. Do you have pesticides in your home?

☐ Yes ☑ No ☐ Unsure

9. Do you have any spray insecticides in your home?

☐ Yes ☑ No ☐ Unsure

10. Have you painted the interior of your home in the last 12 months?

☐ Yes ☑ No

11. Have you painted the exterior of your home in the last 12 months?

☐ Yes ☑ No

12. If you have answered yes to questions 10 or 11, please indicate what paint you used.

- ☐ Enamel
- ☐ Vinyl
- ☐ Latex
- ☐ Other

13. Where do you store your paint, thinner, pesticides, insecticides?

- ☐ Garage
- ☐ Basement
- ☐ Storage shed
- ☐ Other
- ☐ I don't store these items at home.

14. Do you have pets?

☐ Yes ☑ No

If yes, what type? _____ If yes, number _____

AECOM

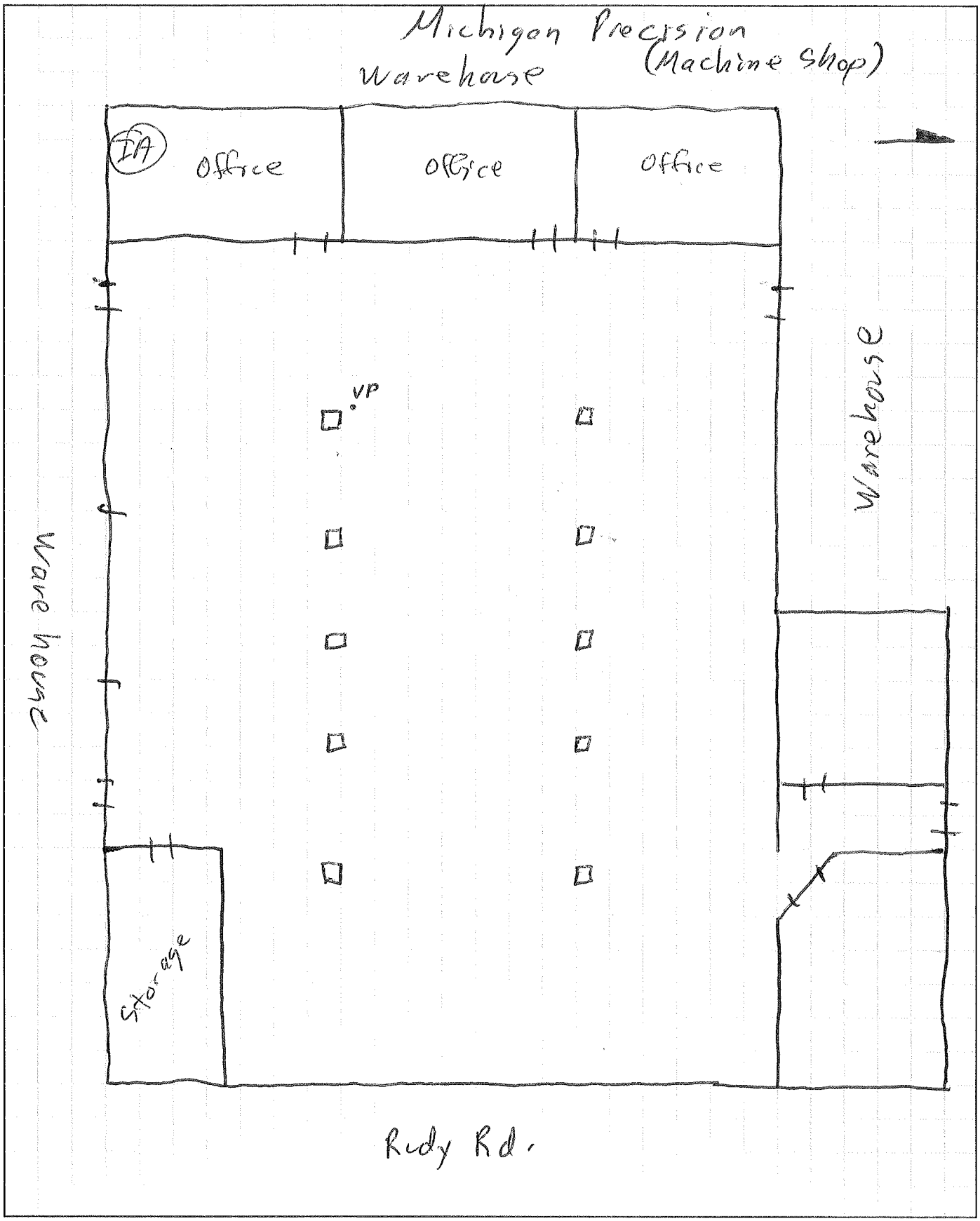
JOB TITLE PRR Douagiac

JOB NO. _____ CALCULATION NO. _____

ORIGINATOR _____ DATE 3/21/10

REVIEWER _____ DATE _____

SCALE _____ SHEET NO. _____ OF _____



Grid: 4x4 = 1"

Veithouse

FORM A-2
BUILDING INFORMATION FORM

Date: 3/21/12 Time: 1345 Inspector: Mike Popp

Pictures Allowed: ☑ Yes ☐ No

Sample No. —

Address: 415 E. Prairie Ronde St., Douagiac, MI.

Contact Name: Brian DeLong

Years at this Address: 2 months

BUILDING TYPE: One story: ✓ Multi-story ____ Brick ✓ Siding ____ Stucco ____

WEATHER SEALS: General Condition: Good ✓ Fair ____ Poor ____

BASEMENT:	None	Finished	Unfinished	Depth below grade
	Partial	☐ — ☐	☐	____
	Full	☐ — ☐	☐	____
	Crawl space	☐ na	na	____

Foundation construction: Poured concrete ☑ Cinder block ☐

Condition at floor/wall joint (if visible) not visible

Floor drains, sump no open drains, sump present but covered

Vents, fans, windows Windows, no fans/vents

Floor condition (type, cracks, drains) cement, carpeted.

Wall openings, utility pipe penetrations electric, air lines, restroom plumbing.

Moisture Condition (dry, damp, wet) Dry

FURNACE: Location: Overhead

Type: gas ☑ Forced air ☑

oil ☐ hot water ☑

electric ☐ other ____

Blower capacity (if applicable) unk.

Does furnace have outside combustion air vent? Yes

Winter temperature setting: day 60's night 60's

Velthouse

AIR CONDITIONER: None _____ Central ✓ (if yes, capacity?) _____ Room _____

(If yes, which rooms and capacities? _____

RADON SYSTEM: Yes ____ No ✓ If yes, floor scaled? _____

Floor drain/sump vent? —
Other ventilation? —

Pictures Taken:

1. SS opening with constructed VP.
2. South room exposing walkin utility space.
3. same.
4. VP within walking space.
5. Utility space - VP and WH.
6. office Area - north
7. same.
8. office Area NE.
9. office Area south
10. same.
11. Sump in utility space.
12. SE room w/cleaning chems.
13. same.
14. same.
15.
16.
17.
18.
19.
20.

Velthouse

FORM A-3
TENANT QUESTIONNAIRE

VOCs are found in outside air and in the air inside of buildings. VOCs can be found in solvents and other household items such as pesticides, insecticides, adhesives, aerosols, paints, coatings, dry cleaning, carpet and drapery cleaning fluids, and household spot removers. Other common VOC sources include telephone and computer cables, plastic items, vinyl cove molding, PVC plumbing, linoleum, concrete blocks, latex paint, carpet padding, foam rubber, lubricants, and cosmetics.

Your answer to the following questions will help us determine if VOC sources exist in your building. Please answer each question to the best of your knowledge.

1. When was the last time dry-cleaned clothes were brought into the building?

   ☐ 0 to 5 days ago ☐ 6 to 10 days ago ☑ More than 10 days ago

2. When was the carpet installed?

   ☐ In the last six months ☑ More than six months ago

3. When was the last time the carpet was cleaned?

   ☐ In the last six month ☑ More than six months ago

4. Are there any spot removers in the building?

   ☐ Yes ☑ No

5. Do your tasks include model building, arts and crafts, model railroading metal cleaning, or others that require paints, thinners, solvents, or glue?

   ☐ Yes ☑ No

6. Is automotive or other vehicle maintenance or repair perforned at the building?

   ☐ Yes ☑ No

7. Please review the following list, and check items you know are in the building.

   ☑ at ex caulk

   ☐ atex paint

   ☐ i nyl cove molding

   ☐ n oleum tile

   ☐ Large diameter telephone cable

   ☑ Small diameter telephone cable

   ☑ lack rubber molding

   ☐ i nyl edge molding

Vethouse

☑ lystyrene foam insulation

☑ ement block

☐ reated metal roofing

8. Are there any pesticides in the building?

☐ Yes N☐ Uns☑ ure

9. Are there any spray insecticides in the building?

☐ Yes No☑ Uns☐ ure

10. Has the building interior been painted in the last 12 months?

☐ es ☑ No

11. Has the building exterior been painted in the last 12 months?

☐ es ☑ No

12. If question 10 or 11 is yes, please indicate what paint was used.

☐ nam el

☐ Vinyl

☐ Latex

☐ Other

13. Where are paint, thinner, pesticides, insecticides stored?

☐ Garage

☐ Basement

☐ torage shed

☐ Other

☑ These are not stored in the building.

14. Are there pets or other animals in the building?

☐ es ☑ No

If yes, what type? _____

If yes, number _____

AECOM

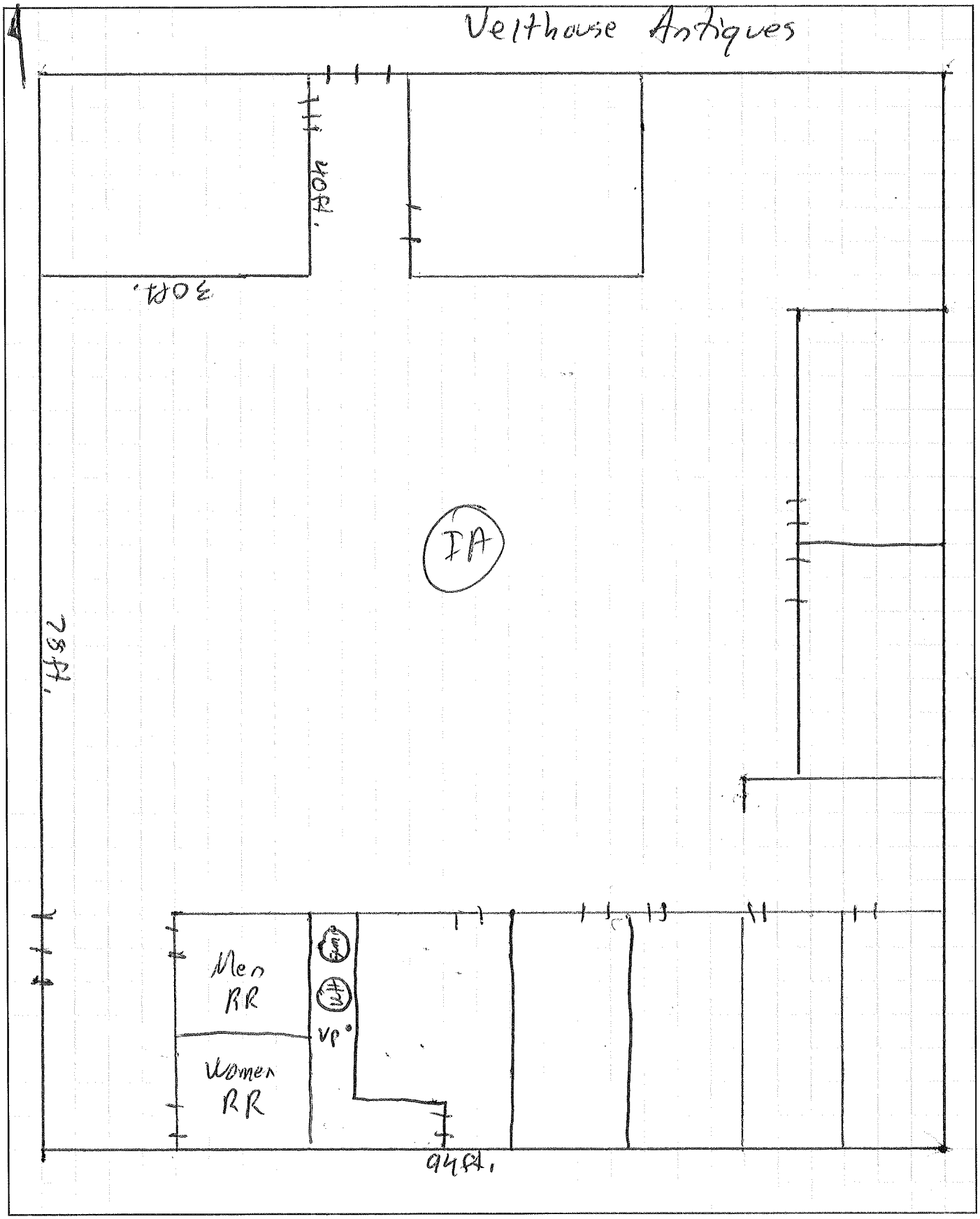
JOB TITLE PRR Dowagiac

JOB NO. _____ CALCULATION NO. _____

ORIGINATOR _____ DATE _____

REVIEWER _____ DATE 3/21/12

SCALE _____ SHEET NO. _____ OF _____



Grid: 4x4 = 1"

Quality Trucking Parts

FORM A-2
BUILDING INFORMATION FORM

Date: 3/21/12 Time: 1112 Inspector: Mike Papp

Pictures Allowed: ☐ Yes ☐ No

Sample No. —

Address: 415 E. Prairie Ronde St, Dowagiac, MI

Contact Name: Brian DeLong

Years at this Address: 7 year

BUILDING TYPE: One story: ✓ Multi-story ____ Brick ✓ Siding ____ Stucco ____

WEATHER SEALS: General Condition: Good ____ Fair ____ Poor ____

BASEMENT:	None	Finished	Unfinished	Depth below grade
	Partial	☐ — ☐	☐	____
	Full	☐ — ☐	☐	____
	Crawl space	☐ na	na	____

Foundation construction: Poured concrete ☐ Cinder block ☐

Condition at floor/wall joint (if visible) Good

Floor drains, sump none

Vents, fans, windows Vents, fans, windows present.

Floor condition (type, cracks, drains) cement, oil stained

Wall openings, utility pipe penetrations electric

Moisture Condition (dry, damp, wet) Dry

FURNACE: Location: Overhead

Type: gas ☐ Forced air ☐

oil ☐ hot water ☐

electric ☐ other ____

Blower capacity (if applicable) unk.

Does furnace have outside combustion air vent? Yes

Winter temperature setting: day 60's night 60's

Quality Trucking Parts

AIR CONDITIONER: None _____ Central ✓ (if yes, capacity?) _____ Room _____

(If yes, which rooms and capacities? _____

RADON SYSTEM: Yes ____ No ✓ If yes, floor scaled? _____

Floor drain/sump vent? —
Other ventilation? —

Pictures Taken:

1. SS opening and constructed VP
2. Facing NW at east end.
3. Offices at east end,
4. VP
5. close-up of VP,
6. Facing west at east end of business.
7. same as above.
8. Engine repair area at west end.
9. Offices, view NNE.
10. same as #8
11.
12.
13.
14.
15.
16.
17.
18.
19.
20.

Quality Trucking Parts

FORM A-3
TENANT QUESTIONNAIRE

VOCs are found in outside air and in the air inside of buildings. VOCs can be found in solvents and other household items such as pesticides, insecticides, adhesives, aerosols, paints, coatings, dry cleaning, carpet and drapery cleaning fluids, and household spot removers. Other common VOC sources include telephone and computer cables, plastic items, vinyl cove molding, PVC plumbing, linoleum, concrete blocks, latex paint, carpet padding, foam rubber, lubricants, and cosmetics.

Your answer to the following questions will help us determine if VOC sources exist in your building. Please answer each question to the best of your knowledge.

1. When was the last time dry-cleaned clothes were brought into the building?

   ☐ 0 to 5 days ago ☐ 6 to 10 days ago ☑ More than 10 days ago

2. When was the carpet installed?

   ☐ In the last six months ☑ More than six months ago

3. When was the last time the carpet was cleaned?

   ☑ In the last six month ☐ More than six months ago

4. Are there any spot removers in the building?

   ☑ Yes ☐ No

5. Do your tasks include model building, arts and crafts, model railroading metal cleaning, or others that require paints, thinners, solvents, or glue? Engine repair/maintnance

   ☑ Yes ☐ No

6. Is automotive or other vehicle maintenance or repair perforned at the building?

   ☑ Yes ☐ No

7. Please review the following list, and check items you know are in the building.

   ☑ at ex caulk

   ☑ atex paint

   ☐ i nyl cove molding

   ☐ n oleum tile

   ☐ Large diameter telephone cable

   ☑ Small diameter telephone cable

   ☑ lack rubber molding

   ☐ i nyl edge molding

Quality Trucking Parts.

☑ lystyrene foam insulation

☑ ement block

☐ reated metal roofing

8. Are there any pesticides in the building?

☑ Yes N☐ Uns☐ ure
Pellets mice

9. Are there any spray insecticides in the building?

☐ Yes No☐ Uns☑ ure

10. Has the building interior been painted in the last 12 months?

☐ es ☑ No

11. Has the building exterior been painted in the last 12 months?

☐ es ☑ No

12. If question 10 or 11 is yes, please indicate what paint was used.

☐ nam el

☐ Vinyl

☐ Latex

☐ Other

13. Where are paint, thinner, pesticides, insecticides stored?

☐ Garage

☐ Basement

☐ torage shed

☑ Other

☐ These are not stored in the building.

14. Are there pets or other animals in the building?

☐ es ☑ No

If yes, what type? _____
If yes, number _____

AECOM

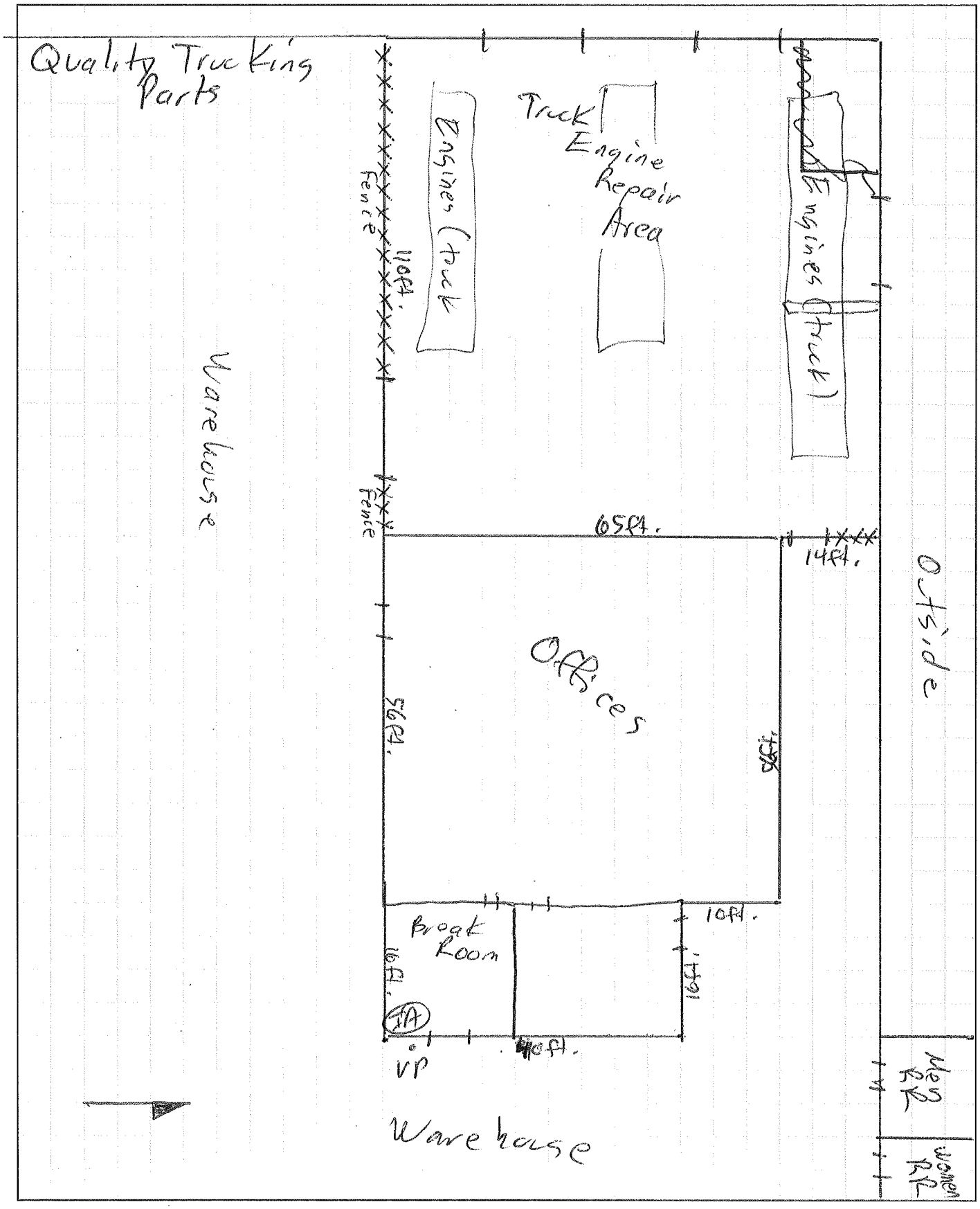
JOB TITLE PRR Dowagiac

JOB NO. _____ CALCULATION NO. _____

ORIGINATOR _____ DATE _____

REVIEWER _____ DATE 3/21/12

SCALE _____ SHEET NO. _____ OF _____



Grid: 4x4 = 1"

North Rec.

FORM A-2
BUILDING INFORMATION FORM

Date: 3/21/12 Time: 1507 Inspector: Mike Papp

Pictures Allowed: ☑ Yes ☐ No

Sample No. —

Address: 415 E. Prairie Ronde St, Dowagiac, MI.

Contact Name: Brian DeLong

Years at this Address: 1 year

BUILDING TYPE: One story: ✓ Multi-story ____ Brick ____ Siding ____ Stucco ____

WEATHER SEALS: General Condition: Good ✓ Fair ____ Poor ____

BASEMENT:	None	☑ Finished	Unfinished	Depth below grade
	Partial	☐ — ☐	☐	_____
	Full	☐ — ☐	☐	_____
	Crawl space	☐ na	na	_____

Foundation construction: Poured concrete ☑ Cinder block ☐

Condition at floor/wall joint (if visible) Good

Floor drains, sump none

Vents, fans, windows fans/windows present

Floor condition (type, cracks, drains) cement, soaked w/oil.

Wall openings, utility pipe penetrations _____

Moisture Condition (dry, damp, wet) Dry

FURNACE: Location: Overhead

Type: gas ☑ Forced air ☑

oil ☐ hot water ☑

electric ☐ other _____

Blower capacity (if applicable) unk.

Does furnace have outside combustion air vent? yes

Winter temperature setting: day 45°F night 45°F

North Rec.

AIR CONDITIONER: None _____ Central ✓ (if yes, capacity?) _____ Room _____

(If yes, which rooms and capacities? _____

RADON SYSTEM: Yes ____ No ✓ If yes, floor scaled? _____

Floor drain/sump vent? —
Other ventilation? —

Pictures Taken:

1. SS opening and constructed VP.
2. VP next to I-beam w/mirror, facing north.
3. same
4. VP close-up
5. VP next to I-beam facing south.
6. Facing North-distant pic. of I-beam with
7. mirror 20ft. up on beam. VP to right.
8.
9.
10.
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16.
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19.
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North Rec.

FORM A-3
TENANT QUESTIONNAIRE

VOCs are found in outside air and in the air inside of buildings. VOCs can be found in solvents and other household items such as pesticides, insecticides, adhesives, aerosols, paints, coatings, dry cleaning, carpet and drapery cleaning fluids, and household spot removers. Other common VOC sources include telephone and computer cables, plastic items, vinyl cove molding, PVC plumbing, linoleum, concrete blocks, latex paint, carpet padding, foam rubber, lubricants, and cosmetics.

Your answer to the following questions will help us determine if VOC sources exist in your building. Please answer each question to the best of your knowledge.

1. When was the last time dry-cleaned clothes were brought into the building?

   ☐ 0 to 5 days ago ☐ 6 to 10 days ago ☑ More than 10 days ago

2. When was the carpet installed? NA

   ☐ In the last six months ☐ More than six months ago

3. When was the last time the carpet was cleaned? NA

   ☐ In the last six month ☐ More than six months ago

4. Are there any spot removers in the building?

   ☐ Yes ☑ No

5. Do your tasks include model building, arts and crafts, model railroading metal cleaning, or others that require paints, thinners, solvents, or glue?

   ☐ Yes ☑ No

6. Is automotive or other vehicle maintenance or repair perforned at the building?

   ☐ Yes ☑ No

7. Please review the following list, and check items you know are in the building.

   ☐ Lat ex caulk

   ☐ atex paint

   ☐ i nyl cove molding

   ☐ n oleum tile

   ☐ Large diameter telephone cable

   ☑ Small diameter telephone cable

   ☐ ack rubber molding

   ☐ i nyl edge molding

North Rec.

☑ lystyrene foam insulation

☑ ement block

☐ reated metal roofing

8. Are there any pesticides in the building?

☐ Yes N☑ Uns☐ ure

9. Are there any spray insecticides in the building?

☐ Yes No ☑ Uns☐ ure

10. Has the building interior been painted in the last 12 months?

☐ es ☑ No

11. Has the building exterior been painted in the last 12 months?

☐ es ☑ No

12. If question 10 or 11 is yes, please indicate what paint was used.

☐ nam el

☐ Vinyl

☐ Latex

☐ Other

13. Where are paint, thinner, pesticides, insecticides stored?

☐ Garage

☐ Basement

☐ torage shed

☐ Other

☑ These are not stored in the building.

14. Are there pets or other animals in the building?

☐ es ☑ No

If yes, what type? _____

If yes, number _____

AECOM

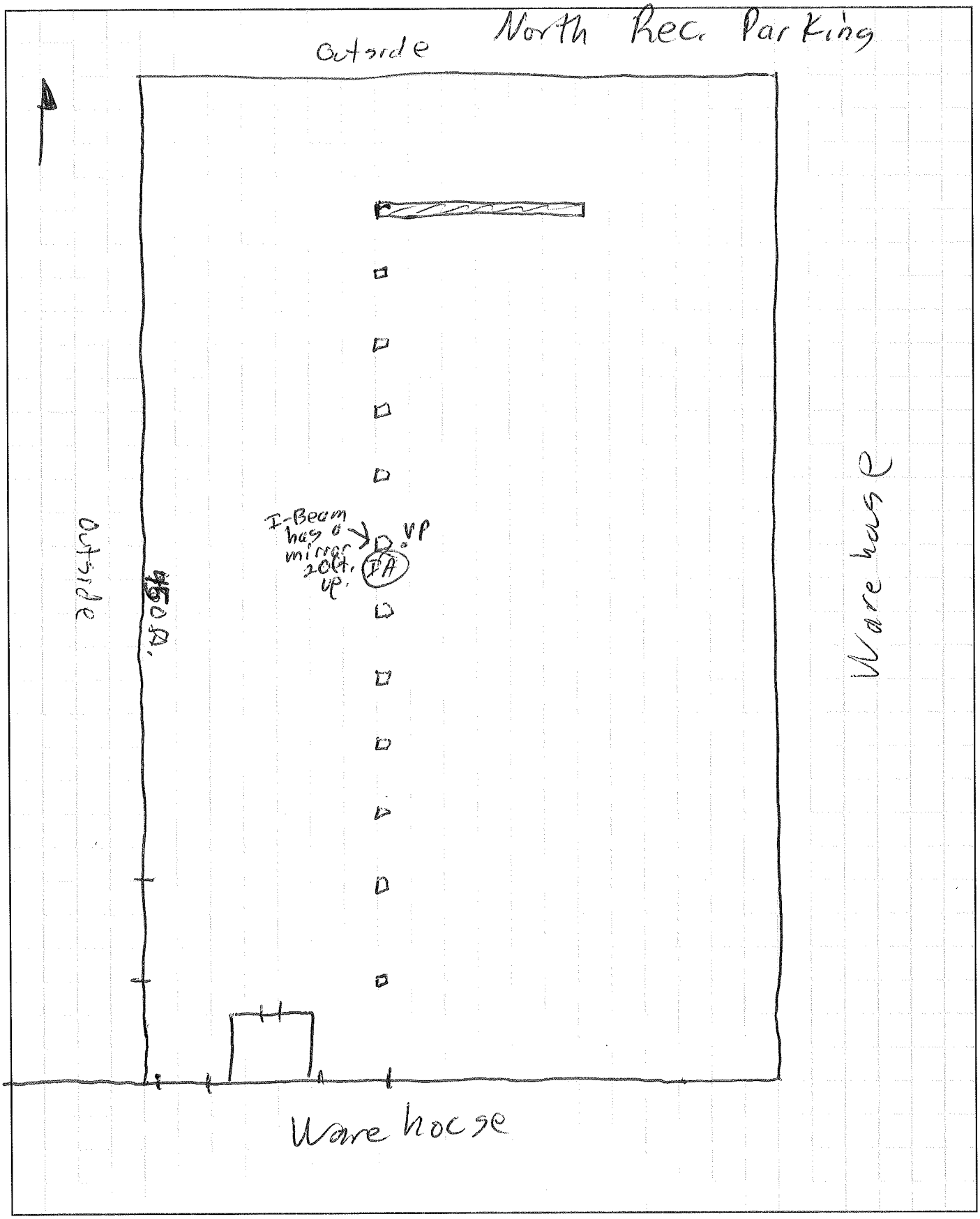
JOB TITLE PRR Douaglac

JOB NO. _____ CALCULATION NO. _____

ORIGINATOR _____ DATE 3/21/12

REVIEWER _____ DATE _____

SCALE _____ SHEET NO. _____ OF _____



Grid: 4x4 = 1"

S. Rec.

FORM A-2
BUILDING INFORMATION FORM

Date: 3/21/12 Time: 1200 Inspector: Mike Papp

Pictures Allowed: ☑ Yes ☐ No

Sample No. —

Address: 415 E. Prairie Ronde St., Dowagiac, MI

Contact Name: Brian De Long

Years at this Address: 1 year

BUILDING TYPE: One story: ✓ Multi-story ____ Brick ____ Siding ____ Stucco ____

WEATHER SEALS: General Condition: Good ✓ Fair ____ Poor ____

BASEMENT:	None	☑ Finished	Unfinished	Depth below grade
	Partial	☐ — ☐	☐	____
	Full	☐ — ☐	☐	____
	Crawl space	☐ na	na	____

Foundation construction: Poured concrete ☑ Cinder block ☐

Condition at floor/wall joint (if visible) Good

Floor drains, sump no open drains except for storm/sprinkler water.

Vents, fans, windows windows, no fans/vents operating

Floor condition (type, cracks, drains) cement, oil stained

Wall openings, utility pipe penetrations electric

Moisture Condition (dry, damp, wet) Dry

FURNACE: Location: Overhead

Type: gas ☑ Forced air ☑

oil ☐ hot water ☑

electric ☐ other ____

Blower capacity (if applicable) unk.

Does furnace have outside combustion air vent? yes

Winter temperature setting: day 45°F night 45°F

South Rec.

AIR CONDITIONER: None _____ Central ✓ (if yes, capacity?) _____ Room _____

(If yes, which rooms and capacities? _____

RADON SYSTEM: Yes ____ No ✓ If yes, floor scaled? _____

Floor drain/sump vent? —
Other ventilation? —

Pictures Taken:

1. SS slab opening with constructed VP.
2. VP next to I-beam facing west.
3. VP close-up.
4. VP, facing East.
5. Facing North, I-beam w/ VP in B&O. Foreground I-beam w/electrical boxes above.
6. VP and I-beam facing north.
7. VP / I-beam facing south.
8. same as #5.
9. Open drain for sprinkler water.
10. same as #9.
11. Open storm drain (?)
12. Same as #11.
13. Same as #11.
14. Same as #9.
15. Same as #9.
16.
17.
18.
19.
20.

South Rec.

FORM A-3
TENANT QUESTIONNAIRE

VOCs are found in outside air and in the air inside of buildings. VOCs can be found in solvents and other household items such as pesticides, insecticides, adhesives, aerosols, paints, coatings, dry cleaning, carpet and drapery cleaning fluids, and household spot removers. Other common VOC sources include telephone and computer cables, plastic items, vinyl cove molding, PVC plumbing, linoleum, concrete blocks, latex paint, carpet padding, foam rubber, lubricants, and cosmetics.

Your answer to the following questions will help us determine if VOC sources exist in your building. Please answer each question to the best of your knowledge.

1. When was the last time dry-cleaned clothes were brought into the building?

   ☐ 0 to 5 days ago ☐ 6 to 10 days ago ☑ More than 10 days ago

2. When was the carpet installed? NA

   ☐ In the last six months ☐ More than six months ago

3. When was the last time the carpet was cleaned? NA

   ☐ In the last six month ☐ More than six months ago

4. Are there any spot removers in the building?

   ☐ Yes ☑ No

5. Do your tasks include model building, arts and crafts, model railroading metal cleaning, or others that require paints, thinners, solvents, or glue?

   ☐ Yes ☑ No

6. Is automotive or other vehicle maintenance or repair perforned at the building?

   ☐ Yes ☑ No

7. Please review the following list, and check items you know are in the building.

   ☐ Lat ex caulk

   ☐ atex paint

   ☐ i nyl cove molding

   ☐ n oleum tile

   ☐ Large diameter telephone cable

   ☑ Small diameter telephone cable

   ☐ lack rubber molding

   ☐ i nyl edge molding

Sath Rec.

☑ lystyrene foam insulation

☑ ement block

☐ reated metal roofing

8. Are there any pesticides in the building?

☐ Yes N☑ Uns☐ ure

9. Are there any spray insecticides in the building?

☐ Yes No ☑ Uns☐ ure

10. Has the building interior been painted in the last 12 months?

☐ es ☑ No

11. Has the building exterior been painted in the last 12 months?

☐ es ☑ No

12. If question 10 or 11 is yes, please indicate what paint was used.

☐ nam el

☐ Vinyl

☐ Latex

☐ Other

13. Where are paint, thinner, pesticides, insecticides stored?

☐ Garage

☐ Basement

☐ torage shed

☐ Other

☑ These are not stored in the building.

14. Are there pets or other animals in the building?

☐ es ☑ No

If yes, what type? _____

If yes, number _____

AECOM

JOB TITLE PRR Dowagiac

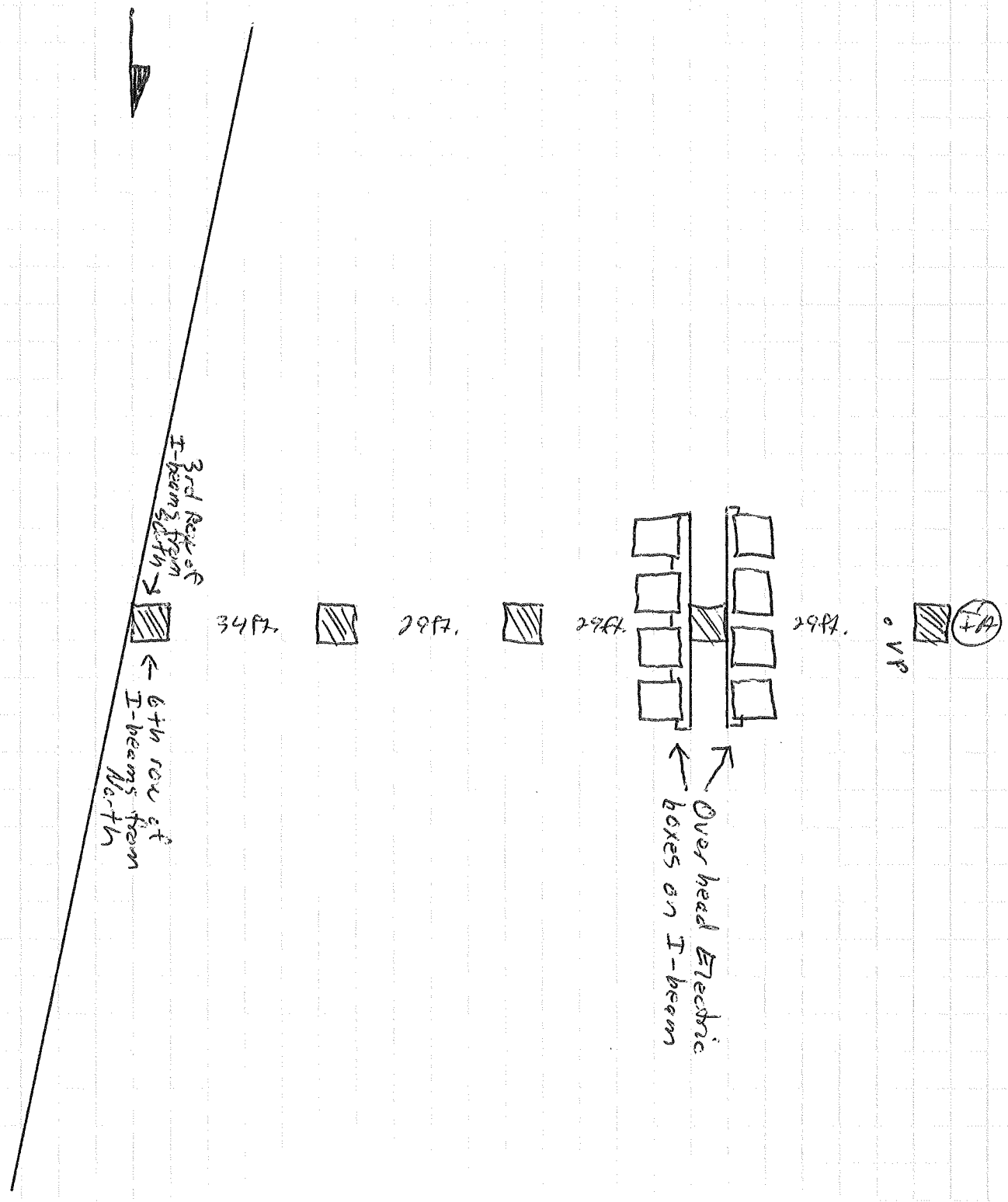
JOB NO. CALCULATION NO.

ORIGINATOR DATE

REVIEWER DATE

SCALE SHEET NO. OF

South Rec. Parking



Grid: 4x4 = 1"

US EPA ARCHIVE DOCUMENT

Appendix C

Analytical Report

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Los Angeles
3585 Cadillac Ave
Suite A
Costa Mesa, CA 92626
Tel: (714)258-8610

TestAmerica Job ID: 340-1240-1
Client Project/Site: Prairie Ronde Realty Dowagiac

For:
AECOM Technical Services Inc.
5555 Glenwood Hills Parkway SE
Suite #300
Grand Rapids, Michigan 49512-2099

Attn: Glenn Hendrix

Authorized for release by:
4/9/2012 1:43:39 PM

Marisol (Sonia) Tabirara
Project Manager I
sonia.tabirara@testamericainc.com

US EPA ARCHIVE DOCUMENT

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

US EPA ARCHIVE DOCUMENT

Job ID: 340-1240-1

Laboratory: TestAmerica Los Angeles

Narrative

Job Narrative
340-1240-1

Comments
No additional comments.

Air - GC/MS VOA
No analytical or quality issues were noted.

US EPA ARCHIVE DOCUMENT

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: Prairie Ronde Realty Dowagiac

TestAmerica Job ID: 340-1240-1

Client Sample ID: PRR OFFICE-IA-032312 — Lab Sample ID: 340-1240-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.0068		0.0050		ppb v/v	1		TO-15 SIM	Total/NA
cis-1,2-Dichloroethene	2.0		0.014		ppb v/v	1		TO-15 SIM	Total/NA
Tetrachloroethene	0.061		0.020		ppb v/v	1		TO-15 SIM	Total/NA
1,1,1-Trichloroethane	0.13		0.020		ppb v/v	1		TO-15 SIM	Total/NA
Trichloroethene	3.1		0.0097		ppb v/v	1.93		TO-15 SIM	Total/NA
Vinyl chloride	0.0092		0.0050		ppb v/v	1		TO-15 SIM	Total/NA

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.028		0.020		ug/m3	1		TO-15 SIM	Total/NA
cis-1,2-Dichloroethene	8.0		0.056		ug/m3	1		TO-15 SIM	Total/NA
Tetrachloroethene	0.41		0.14		ug/m3	1		TO-15 SIM	Total/NA
1,1,1-Trichloroethane	0.74		0.11		ug/m3	1		TO-15 SIM	Total/NA
Trichloroethene	17		0.052		ug/m3	1.93		TO-15 SIM	Total/NA
Vinyl chloride	0.023		0.013		ug/m3	1		TO-15 SIM	Total/NA

Client Sample ID: PRR OFFICE-SS-032312 — Lab Sample ID: 340-1240-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2.5		1.9		ppb v/v	4.77		TO-15	Total/NA
1,1,1-Trichloroethane	9.3		1.4		ppb v/v	4.77		TO-15	Total/NA
Trichloroethene	190		1.9		ppb v/v	4.77		TO-15	Total/NA

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	17		13		ug/m3	4.77		TO-15	Total/NA
1,1,1-Trichloroethane	51		7.8		ug/m3	4.77		TO-15	Total/NA
Trichloroethene	1000		10		ug/m3	4.77		TO-15	Total/NA

Client Sample ID: JMT-IA-032312 — Lab Sample ID: 340-1240-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.020		0.0050		ppb v/v	1		TO-15 SIM	Total/NA
cis-1,2-Dichloroethene	3.4		0.053		ppb v/v	3.77		TO-15 SIM	Total/NA
Tetrachloroethene	0.099		0.020		ppb v/v	1		TO-15 SIM	Total/NA
1,1,1-Trichloroethane	0.38		0.020		ppb v/v	1		TO-15 SIM	Total/NA
Trichloroethene	7.3		0.019		ppb v/v	3.77		TO-15 SIM	Total/NA

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.081		0.020		ug/m3	1		TO-15 SIM	Total/NA
cis-1,2-Dichloroethene	13		0.21		ug/m3	3.77		TO-15 SIM	Total/NA
Tetrachloroethene	0.67		0.14		ug/m3	1		TO-15 SIM	Total/NA
1,1,1-Trichloroethane	2.1		0.11		ug/m3	1		TO-15 SIM	Total/NA
Trichloroethene	39		0.10		ug/m3	3.77		TO-15 SIM	Total/NA

Client Sample ID: JMT-SS-032312 — Lab Sample ID: 340-1240-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	96		3.8		ppb v/v	9.58		TO-15	Total/NA
1,1,1-Trichloroethane	30		2.9		ppb v/v	9.58		TO-15	Total/NA
Trichloroethene	340		3.8		ppb v/v	9.58		TO-15	Total/NA

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	380		15		ug/m3	9.58		TO-15	Total/NA
1,1,1-Trichloroethane	160		16		ug/m3	9.58		TO-15	Total/NA
Trichloroethene	1800		21		ug/m3	9.58		TO-15	Total/NA

Client Sample ID: VH-IA-032312 — Lab Sample ID: 340-1240-5

US EPA ARCHIVE DOCUMENT

Client Sample ID: VH-IA-032312 (Continued) — Lab Sample ID: 340-1240-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.0062		0.0050	ppb v/v	1		TO-15 SIM	Total/NA
cis-1,2-Dichloroethene	0.21		0.014	ppb v/v	1		TO-15 SIM	Total/NA
Tetrachloroethene	0.060		0.020	ppb v/v	1		TO-15 SIM	Total/NA
1,1,1-Trichloroethane	0.29		0.020	ppb v/v	1		TO-15 SIM	Total/NA
Trichloroethene	4.9		0.0050	ppb v/v	1		TO-15 SIM	Total/NA
Vinyl chloride	0.0061		0.0050	ppb v/v	1		TO-15 SIM	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.025		0.020	ug/m3	1		TO-15 SIM	Total/NA
cis-1,2-Dichloroethene	0.82		0.056	ug/m3	1		TO-15 SIM	Total/NA
Tetrachloroethene	0.41		0.14	ug/m3	1		TO-15 SIM	Total/NA
1,1,1-Trichloroethane	1.6		0.11	ug/m3	1		TO-15 SIM	Total/NA
Trichloroethene	26		0.027	ug/m3	1		TO-15 SIM	Total/NA
Vinyl chloride	0.016		0.013	ug/m3	1		TO-15 SIM	Total/NA

Client Sample ID: VH-SS-032312 — Lab Sample ID: 340-1240-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	43		26	ppb v/v	65.7		TO-15	Total/NA
1,1,1-Trichloroethane	610		20	ppb v/v	65.7		TO-15	Total/NA
Trichloroethene	5900		59	ppb v/v	148		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	170		100	ug/m3	65.7		TO-15	Total/NA
1,1,1-Trichloroethane	3300		110	ug/m3	65.7		TO-15	Total/NA
Trichloroethene	32000		320	ug/m3	148		TO-15	Total/NA

Client Sample ID: MP-IA-032312 — Lab Sample ID: 340-1240-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.091		0.014	ppb v/v	1		TO-15 SIM	Total/NA
Tetrachloroethene	0.034		0.020	ppb v/v	1		TO-15 SIM	Total/NA
1,1,1-Trichloroethane	0.026		0.020	ppb v/v	1		TO-15 SIM	Total/NA
Trichloroethene	1.1		0.0050	ppb v/v	1		TO-15 SIM	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.36		0.056	ug/m3	1		TO-15 SIM	Total/NA
Tetrachloroethene	0.23		0.14	ug/m3	1		TO-15 SIM	Total/NA
1,1,1-Trichloroethane	0.14		0.11	ug/m3	1		TO-15 SIM	Total/NA
Trichloroethene	6.0		0.027	ug/m3	1		TO-15 SIM	Total/NA

Client Sample ID: MP-SS-032312 — Lab Sample ID: 340-1240-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1700		17	ppb v/v	41.6		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	8900		89	ug/m3	41.6		TO-15	Total/NA

Client Sample ID: QT-IA-032312 — Lab Sample ID: 340-1240-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.47		0.0094	ppb v/v	1.87		TO-15 SIM	Total/NA
cis-1,2-Dichloroethene	0.82		0.026	ppb v/v	1.87		TO-15 SIM	Total/NA
Tetrachloroethene	0.14		0.037	ppb v/v	1.87		TO-15 SIM	Total/NA
1,1,1-Trichloroethane	0.75		0.037	ppb v/v	1.87		TO-15 SIM	Total/NA
Trichloroethene	5.6		0.0094	ppb v/v	1.87		TO-15 SIM	Total/NA

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Client Sample ID: QT-IA-032312 (Continued) — Lab Sample ID: 340-1240-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.036		0.0094		ppb v/v	1.87		TO-15 SIM	Total/NA

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.9		0.038		ug/m3	1.87		TO-15 SIM	Total/NA
cis-1,2-Dichloroethene	3.3		0.10		ug/m3	1.87		TO-15 SIM	Total/NA
Tetrachloroethene	0.92		0.25		ug/m3	1.87		TO-15 SIM	Total/NA
1,1,1-Trichloroethane	4.1		0.20		ug/m3	1.87		TO-15 SIM	Total/NA
Trichloroethene	30		0.050		ug/m3	1.87		TO-15 SIM	Total/NA
Vinyl chloride	0.091		0.024		ug/m3	1.87		TO-15 SIM	Total/NA

Client Sample ID: QT-SS-032312 — Lab Sample ID: 340-1240-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	130		52		ppb v/v	173		TO-15	Total/NA
cis-1,2-Dichloroethene	190		69		ppb v/v	173		TO-15	Total/NA
1,1,1-Trichloroethane	1900		52		ppb v/v	173		TO-15	Total/NA
Trichloroethene	6200		69		ppb v/v	173		TO-15	Total/NA

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	520		210		ug/m3	173		TO-15	Total/NA
cis-1,2-Dichloroethene	750		270		ug/m3	173		TO-15	Total/NA
1,1,1-Trichloroethane	10000		280		ug/m3	173		TO-15	Total/NA
Trichloroethene	33000		370		ug/m3	173		TO-15	Total/NA

Client Sample ID: SREC-IA-032312 — Lab Sample ID: 340-1240-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.029		0.0050		ppb v/v	1		TO-15 SIM	Total/NA
cis-1,2-Dichloroethene	0.91		0.014		ppb v/v	1		TO-15 SIM	Total/NA
Tetrachloroethene	0.073		0.020		ppb v/v	1		TO-15 SIM	Total/NA
1,1,1-Trichloroethane	0.20		0.020		ppb v/v	1		TO-15 SIM	Total/NA
Trichloroethene	3.7		0.0098		ppb v/v	1.96		TO-15 SIM	Total/NA
Vinyl chloride	0.035		0.0050		ppb v/v	1		TO-15 SIM	Total/NA

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.12		0.020		ug/m3	1		TO-15 SIM	Total/NA
cis-1,2-Dichloroethene	3.6		0.056		ug/m3	1		TO-15 SIM	Total/NA
Tetrachloroethene	0.49		0.14		ug/m3	1		TO-15 SIM	Total/NA
1,1,1-Trichloroethane	1.1		0.11		ug/m3	1		TO-15 SIM	Total/NA
Trichloroethene	20		0.053		ug/m3	1.96		TO-15 SIM	Total/NA
Vinyl chloride	0.089		0.013		ug/m3	1		TO-15 SIM	Total/NA

Client Sample ID: SREC-SS-032312 — Lab Sample ID: 340-1240-12

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2600		29		ppb v/v	73.2		TO-15	Total/NA

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	14000		160		ug/m3	73.2		TO-15	Total/NA

Client Sample ID: NREC-IA-032312 — Lab Sample ID: 340-1240-13

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.022		0.0050		ppb v/v	1		TO-15 SIM	Total/NA
cis-1,2-Dichloroethene	0.64		0.014		ppb v/v	1		TO-15 SIM	Total/NA
Tetrachloroethene	0.044		0.020		ppb v/v	1		TO-15 SIM	Total/NA
1,1,1-Trichloroethane	0.14		0.020		ppb v/v	1		TO-15 SIM	Total/NA

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Client Sample ID: NREC-IA-032312 (Continued) — Lab Sample ID: 340-1240-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.7		0.0050	ppb v/v	1		TO-15 SIM	Total/NA
Vinyl chloride	0.026		0.0050	ppb v/v	1		TO-15 SIM	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.091		0.020	ug/m3	1		TO-15 SIM	Total/NA
cis-1,2-Dichloroethene	2.5		0.056	ug/m3	1		TO-15 SIM	Total/NA
Tetrachloroethene	0.30		0.14	ug/m3	1		TO-15 SIM	Total/NA
1,1,1-Trichloroethane	0.75		0.11	ug/m3	1		TO-15 SIM	Total/NA
Trichloroethene	20		0.027	ug/m3	1		TO-15 SIM	Total/NA
Vinyl chloride	0.065		0.013	ug/m3	1		TO-15 SIM	Total/NA

Client Sample ID: NREC-SS-032312 — Lab Sample ID: 340-1240-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.42		0.30	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	2.1		0.40	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	25		0.40	ppb v/v	1		TO-15	Total/NA
1,1,1-Trichloroethane	11		0.30	ppb v/v	1		TO-15	Total/NA
Trichloroethene	120		0.93	ppb v/v	2.32		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.7		1.2	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	8.2		1.6	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	170		2.7	ug/m3	1		TO-15	Total/NA
1,1,1-Trichloroethane	58		1.6	ug/m3	1		TO-15	Total/NA
Trichloroethene	670		5.0	ug/m3	2.32		TO-15	Total/NA

Client Sample ID: AA-032312 — Lab Sample ID: 340-1240-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.025		0.020	ppb v/v	1		TO-15 SIM	Total/NA
Trichloroethene	0.026		0.0050	ppb v/v	1		TO-15 SIM	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.17		0.14	ug/m3	1		TO-15 SIM	Total/NA
Trichloroethene	0.14		0.027	ug/m3	1		TO-15 SIM	Total/NA

US EPA ARCHIVE DOCUMENT

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Prairie Ronde Realty Dowagiac

TestAmerica Job ID: 340-1240-1

Client Sample ID: PRR OFFICE-IA-032312

Lab Sample ID: 340-1240-1

Date Collected: 03/23/12 09:04
Date Received: 03/28/12 10:15
Sample Container: Summa Canister 6L

Matrix: Air

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.045		ppb v/v			04/02/12 00:45	1
1,1-Dichloroethane	**0.0068**		0.0050		ppb v/v			04/02/12 00:45	1
cis-1,2-Dichloroethene	**2.0**		0.014		ppb v/v			04/02/12 00:45	1
trans-1,2-Dichloroethene	ND		0.014		ppb v/v			04/02/12 00:45	1
Tetrachloroethene	**0.061**		0.020		ppb v/v			04/02/12 00:45	1
1,1,1-Trichloroethane	**0.13**		0.020		ppb v/v			04/02/12 00:45	1
Trichloroethene	**3.1**		0.0097		ppb v/v			04/05/12 02:15	1.93
Vinyl chloride	**0.0092**		0.0050		ppb v/v			04/02/12 00:45	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.12		ug/m3			04/02/12 00:45	1
1,1-Dichloroethane	**0.028**		0.020		ug/m3			04/02/12 00:45	1
cis-1,2-Dichloroethene	**8.0**		0.056		ug/m3			04/02/12 00:45	1
trans-1,2-Dichloroethene	ND		0.056		ug/m3			04/02/12 00:45	1
Tetrachloroethene	**0.41**		0.14		ug/m3			04/02/12 00:45	1
1,1,1-Trichloroethane	**0.74**		0.11		ug/m3			04/02/12 00:45	1
Trichloroethene	**17**		0.052		ug/m3			04/05/12 02:15	1.93
Vinyl chloride	**0.023**		0.013		ug/m3			04/02/12 00:45	1

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Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Prairie Ronde Realty Dowagiac

TestAmerica Job ID: 340-1240-1

Client Sample ID: PRR OFFICE-SS-032312

Lab Sample ID: 340-1240-2

Date Collected: 03/23/12 09:10
Date Received: 03/28/12 10:15
Sample Container: Summa Canister 6L

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		3.8		ppb v/v			03/29/12 16:15	4.77
1,1-Dichloroethane	ND		1.4		ppb v/v			03/29/12 16:15	4.77
cis-1,2-Dichloroethene	ND		1.9		ppb v/v			03/29/12 16:15	4.77
trans-1,2-Dichloroethene	ND		1.9		ppb v/v			03/29/12 16:15	4.77
Tetrachloroethene	**2.5**		1.9		ppb v/v			03/29/12 16:15	4.77
1,1,1-Trichloroethane	**9.3**		1.4		ppb v/v			03/29/12 16:15	4.77
Trichloroethene	**190**		1.9		ppb v/v			03/29/12 16:15	4.77
Vinyl chloride	ND		0.95		ppb v/v			03/29/12 16:15	4.77

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		10		ug/m3			03/29/12 16:15	4.77
1,1-Dichloroethane	ND		5.8		ug/m3			03/29/12 16:15	4.77
cis-1,2-Dichloroethene	ND		7.6		ug/m3			03/29/12 16:15	4.77
trans-1,2-Dichloroethene	ND		7.6		ug/m3			03/29/12 16:15	4.77
Tetrachloroethene	**17**		13		ug/m3			03/29/12 16:15	4.77
1,1,1-Trichloroethane	**51**		7.8		ug/m3			03/29/12 16:15	4.77
Trichloroethene	**1000**		10		ug/m3			03/29/12 16:15	4.77
Vinyl chloride	ND		2.4		ug/m3			03/29/12 16:15	4.77

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl alcohol TIC	*ND*		*ppb v/v*		*7.39*	*67-63-0*		*03/29/12 16:15*	*4.77*

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl alcohol TIC	*ND*		*ug/m3*		*7.39*	*67-63-0*		*03/29/12 16:15*	*4.77*

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Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Prairie Ronde Realty Dowagiac

TestAmerica Job ID: 340-1240-1

Client Sample ID: JMT-IA-032312

Lab Sample ID: 340-1240-3

Date Collected: 03/23/12 09:24
Matrix: Air
Date Received: 03/28/12 10:15
Sample Container: Summa Canister 6L

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.045	ppb v/v			04/02/12 01:37	1
1,1-Dichloroethane	**0.020**		0.0050	ppb v/v			04/02/12 01:37	1
cis-1,2-Dichloroethene	**3.4**		0.053	ppb v/v			04/05/12 03:05	3.77
trans-1,2-Dichloroethene	ND		0.014	ppb v/v			04/02/12 01:37	1
Tetrachloroethene	**0.099**		0.020	ppb v/v			04/02/12 01:37	1
1,1,1-Trichloroethane	**0.38**		0.020	ppb v/v			04/02/12 01:37	1
Trichloroethene	**7.3**		0.019	ppb v/v			04/05/12 03:05	3.77
Vinyl chloride	ND		0.0050	ppb v/v			04/02/12 01:37	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.12	ug/m3			04/02/12 01:37	1
1,1-Dichloroethane	**0.081**		0.020	ug/m3			04/02/12 01:37	1
cis-1,2-Dichloroethene	**13**		0.21	ug/m3			04/05/12 03:05	3.77
trans-1,2-Dichloroethene	ND		0.056	ug/m3			04/02/12 01:37	1
Tetrachloroethene	**0.67**		0.14	ug/m3			04/02/12 01:37	1
1,1,1-Trichloroethane	**2.1**		0.11	ug/m3			04/02/12 01:37	1
Trichloroethene	**39**		0.10	ug/m3			04/05/12 03:05	3.77
Vinyl chloride	ND		0.013	ug/m3			04/02/12 01:37	1

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Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Prairie Ronde Realty Dowagiac

TestAmerica Job ID: 340-1240-1

Client Sample ID: JMT-SS-032312
Date Collected: 03/23/12 09:24
Date Received: 03/28/12 10:15
Sample Container: Summa Canister 6L

Lab Sample ID: 340-1240-4
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		7.7		ppb v/v			03/29/12 15:34	9.58
1,1-Dichloroethane	ND		2.9		ppb v/v			03/29/12 15:34	9.58
cis-1,2-Dichloroethene	**96**		3.8		ppb v/v			03/29/12 15:34	9.58
trans-1,2-Dichloroethene	ND		3.8		ppb v/v			03/29/12 15:34	9.58
Tetrachloroethene	ND		3.8		ppb v/v			03/29/12 15:34	9.58
1,1,1-Trichloroethane	**30**		2.9		ppb v/v			03/29/12 15:34	9.58
Trichloroethene	**340**		3.8		ppb v/v			03/29/12 15:34	9.58
Vinyl chloride	ND		1.9		ppb v/v			03/29/12 15:34	9.58

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		20		ug/m3			03/29/12 15:34	9.58
1,1-Dichloroethane	ND		12		ug/m3			03/29/12 15:34	9.58
cis-1,2-Dichloroethene	**380**		15		ug/m3			03/29/12 15:34	9.58
trans-1,2-Dichloroethene	ND		15		ug/m3			03/29/12 15:34	9.58
Tetrachloroethene	ND		26		ug/m3			03/29/12 15:34	9.58
1,1,1-Trichloroethane	**160**		16		ug/m3			03/29/12 15:34	9.58
Trichloroethene	**1800**		21		ug/m3			03/29/12 15:34	9.58
Vinyl chloride	ND		4.9		ug/m3			03/29/12 15:34	9.58

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl alcohol TIC	*ND*		*ppb v/v*			*67-63-0*		*03/29/12 15:34*	*9.58*

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl alcohol TIC	*ND*		*ug/m3*			*67-63-0*		*03/29/12 15:34*	*9.58*

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Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Prairie Ronde Realty Dowagiac

TestAmerica Job ID: 340-1240-1

Client Sample ID: VH-IA-032312

Lab Sample ID: 340-1240-5

Date Collected: 03/23/12 09:46
Matrix: Air
Date Received: 03/28/12 10:15
Sample Container: Summa Canister 6L

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.045		ppb v/v			04/05/12 03:55	1
1,1-Dichloroethane	**0.0062**		0.0050		ppb v/v			04/05/12 03:55	1
cis-1,2-Dichloroethene	**0.21**		0.014		ppb v/v			04/05/12 03:55	1
trans-1,2-Dichloroethene	ND		0.014		ppb v/v			04/05/12 03:55	1
Tetrachloroethene	**0.060**		0.020		ppb v/v			04/05/12 03:55	1
1,1,1-Trichloroethane	**0.29**		0.020		ppb v/v			04/05/12 03:55	1
Trichloroethene	**4.9**		0.0050		ppb v/v			04/05/12 03:55	1
Vinyl chloride	**0.0061**		0.0050		ppb v/v			04/05/12 03:55	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.12		ug/m3			04/05/12 03:55	1
1,1-Dichloroethane	**0.025**		0.020		ug/m3			04/05/12 03:55	1
cis-1,2-Dichloroethene	**0.82**		0.056		ug/m3			04/05/12 03:55	1
trans-1,2-Dichloroethene	ND		0.056		ug/m3			04/05/12 03:55	1
Tetrachloroethene	**0.41**		0.14		ug/m3			04/05/12 03:55	1
1,1,1-Trichloroethane	**1.6**		0.11		ug/m3			04/05/12 03:55	1
Trichloroethene	**26**		0.027		ug/m3			04/05/12 03:55	1
Vinyl chloride	**0.016**		0.013		ug/m3			04/05/12 03:55	1

US EPA ARCHIVE DOCUMENT

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Prairie Ronde Realty Dowagiac

TestAmerica Job ID: 340-1240-1

Client Sample ID: VH-SS-032312

Lab Sample ID: 340-1240-6

Date Collected: 03/23/12 09:46
Matrix: Air
Date Received: 03/28/12 10:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		53		ppb v/v			03/29/12 16:55	65.7
1,1-Dichloroethane	ND		20		ppb v/v			03/29/12 16:55	65.7
cis-1,2-Dichloroethene	**43**		26		ppb v/v			03/29/12 16:55	65.7
trans-1,2-Dichloroethene	ND		26		ppb v/v			03/29/12 16:55	65.7
Tetrachloroethene	ND		26		ppb v/v			03/29/12 16:55	65.7
1,1,1-Trichloroethane	**610**		20		ppb v/v			03/29/12 16:55	65.7
Trichloroethene	**5900**		59		ppb v/v			03/30/12 00:41	148
Vinyl chloride	ND		13		ppb v/v			03/29/12 16:55	65.7

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		140		ug/m3			03/29/12 16:55	65.7
1,1-Dichloroethane	ND		80		ug/m3			03/29/12 16:55	65.7
cis-1,2-Dichloroethene	**170**		100		ug/m3			03/29/12 16:55	65.7
trans-1,2-Dichloroethene	ND		100		ug/m3			03/29/12 16:55	65.7
Tetrachloroethene	ND		180		ug/m3			03/29/12 16:55	65.7
1,1,1-Trichloroethane	**3300**		110		ug/m3			03/29/12 16:55	65.7
Trichloroethene	**32000**		320		ug/m3			03/30/12 00:41	148
Vinyl chloride	ND		34		ug/m3			03/29/12 16:55	65.7

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl alcohol TIC	*140*		*ppb v/v*		*7.39*	*67-63-0*		*03/29/12 16:55*	*65.7*

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl alcohol TIC	*340*		*ug/m3*		*7.39*	*67-63-0*		*03/29/12 16:55*	*65.7*

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Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Prairie Ronde Realty Dowagiac

TestAmerica Job ID: 340-1240-1

Client Sample ID: MP-IA-032312

Lab Sample ID: 340-1240-7

Date Collected: 03/23/12 09:38
Matrix: Air
Date Received: 03/28/12 10:15
Sample Container: Summa Canister 6L

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.045		ppb v/v			04/05/12 00:34	1
1,1-Dichloroethane	ND		0.0050		ppb v/v			04/05/12 00:34	1
cis-1,2-Dichloroethene	**0.091**		0.014		ppb v/v			04/05/12 00:34	1
trans-1,2-Dichloroethene	ND		0.014		ppb v/v			04/05/12 00:34	1
Tetrachloroethene	**0.034**		0.020		ppb v/v			04/05/12 00:34	1
1,1,1-Trichloroethane	**0.026**		0.020		ppb v/v			04/05/12 00:34	1
Trichloroethene	**1.1**		0.0050		ppb v/v			04/05/12 00:34	1
Vinyl chloride	ND		0.0050		ppb v/v			04/05/12 00:34	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.12		ug/m3			04/05/12 00:34	1
1,1-Dichloroethane	ND		0.020		ug/m3			04/05/12 00:34	1
cis-1,2-Dichloroethene	**0.36**		0.056		ug/m3			04/05/12 00:34	1
trans-1,2-Dichloroethene	ND		0.056		ug/m3			04/05/12 00:34	1
Tetrachloroethene	**0.23**		0.14		ug/m3			04/05/12 00:34	1
1,1,1-Trichloroethane	**0.14**		0.11		ug/m3			04/05/12 00:34	1
Trichloroethene	**6.0**		0.027		ug/m3			04/05/12 00:34	1
Vinyl chloride	ND		0.013		ug/m3			04/05/12 00:34	1

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Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Prairie Ronde Realty Dowagiac

TestAmerica Job ID: 340-1240-1

Client Sample ID: MP-SS-032312

Lab Sample ID: 340-1240-8

Date Collected: 03/23/12 09:36
Matrix: Air
Date Received: 03/28/12 10:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		33		ppb v/v			03/29/12 21:08	41.6
1,1-Dichloroethane	ND		12		ppb v/v			03/29/12 21:08	41.6
cis-1,2-Dichloroethene	ND		17		ppb v/v			03/29/12 21:08	41.6
trans-1,2-Dichloroethene	ND		17		ppb v/v			03/29/12 21:08	41.6
Tetrachloroethene	ND		17		ppb v/v			03/29/12 21:08	41.6
1,1,1-Trichloroethane	ND		12		ppb v/v			03/29/12 21:08	41.6
Trichloroethene	**1700**		17		ppb v/v			03/29/12 21:08	41.6
Vinyl chloride	ND		8.3		ppb v/v			03/29/12 21:08	41.6

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		88		ug/m3			03/29/12 21:08	41.6
1,1-Dichloroethane	ND		51		ug/m3			03/29/12 21:08	41.6
cis-1,2-Dichloroethene	ND		66		ug/m3			03/29/12 21:08	41.6
trans-1,2-Dichloroethene	ND		66		ug/m3			03/29/12 21:08	41.6
Tetrachloroethene	ND		110		ug/m3			03/29/12 21:08	41.6
1,1,1-Trichloroethane	ND		68		ug/m3			03/29/12 21:08	41.6
Trichloroethene	**8900**		89		ug/m3			03/29/12 21:08	41.6
Vinyl chloride	ND		21		ug/m3			03/29/12 21:08	41.6

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl alcohol TIC	*ND*		*ppb v/v*			*67-63-0*		*03/29/12 21:08*	*41.6*

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl alcohol TIC	*ND*		*ug/m3*			*67-63-0*		*03/29/12 21:08*	*41.6*

US EPA ARCHIVE DOCUMENT

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Prairie Ronde Realty Dowagiac

TestAmerica Job ID: 340-1240-1

Client Sample ID: QT-IA-032312

Lab Sample ID: 340-1240-9

Date Collected: 03/23/12 09:58
Matrix: Air
Date Received: 03/28/12 10:15
Sample Container: Summa Canister 6L

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.084		ppb v/v			04/05/12 04:45	1.87
1,1-Dichloroethane	**0.47**		0.0094		ppb v/v			04/05/12 04:45	1.87
cis-1,2-Dichloroethene	**0.82**		0.026		ppb v/v			04/05/12 04:45	1.87
trans-1,2-Dichloroethene	ND		0.026		ppb v/v			04/05/12 04:45	1.87
Tetrachloroethene	**0.14**		0.037		ppb v/v			04/05/12 04:45	1.87
1,1,1-Trichloroethane	**0.75**		0.037		ppb v/v			04/05/12 04:45	1.87
Trichloroethene	**5.6**		0.0094		ppb v/v			04/05/12 04:45	1.87
Vinyl chloride	**0.036**		0.0094		ppb v/v			04/05/12 04:45	1.87

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.22		ug/m3			04/05/12 04:45	1.87
1,1-Dichloroethane	**1.9**		0.038		ug/m3			04/05/12 04:45	1.87
cis-1,2-Dichloroethene	**3.3**		0.10		ug/m3			04/05/12 04:45	1.87
trans-1,2-Dichloroethene	ND		0.10		ug/m3			04/05/12 04:45	1.87
Tetrachloroethene	**0.92**		0.25		ug/m3			04/05/12 04:45	1.87
1,1,1-Trichloroethane	**4.1**		0.20		ug/m3			04/05/12 04:45	1.87
Trichloroethene	**30**		0.050		ug/m3			04/05/12 04:45	1.87
Vinyl chloride	**0.091**		0.024		ug/m3			04/05/12 04:45	1.87

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Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Prairie Ronde Realty Dowagiac

TestAmerica Job ID: 340-1240-1

Client Sample ID: QT-SS-032312

Lab Sample ID: 340-1240-10

Date Collected: 03/23/12 09:57
Matrix: Air
Date Received: 03/28/12 10:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		140		ppb v/v			03/29/12 21:48	173
1,1-Dichloroethane	**130**		52		ppb v/v			03/29/12 21:48	173
cis-1,2-Dichloroethene	**190**		69		ppb v/v			03/29/12 21:48	173
trans-1,2-Dichloroethene	ND		69		ppb v/v			03/29/12 21:48	173
Tetrachloroethene	ND		69		ppb v/v			03/29/12 21:48	173
1,1,1-Trichloroethane	**1900**		52		ppb v/v			03/29/12 21:48	173
Trichloroethene	**6200**		69		ppb v/v			03/29/12 21:48	173
Vinyl chloride	ND		35		ppb v/v			03/29/12 21:48	173

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		370		ug/m3			03/29/12 21:48	173
1,1-Dichloroethane	**520**		210		ug/m3			03/29/12 21:48	173
cis-1,2-Dichloroethene	**750**		270		ug/m3			03/29/12 21:48	173
trans-1,2-Dichloroethene	ND		270		ug/m3			03/29/12 21:48	173
Tetrachloroethene	ND		470		ug/m3			03/29/12 21:48	173
1,1,1-Trichloroethane	**10000**		280		ug/m3			03/29/12 21:48	173
Trichloroethene	**33000**		370		ug/m3			03/29/12 21:48	173
Vinyl chloride	ND		88		ug/m3			03/29/12 21:48	173

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl alcohol TIC	*ND*		*ppb v/v*			*67-63-0*		*03/29/12 21:48*	*173*

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl alcohol TIC	*ND*		*ug/m3*			*67-63-0*		*03/29/12 21:48*	*173*

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Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Prairie Ronde Realty Dowagiac

TestAmerica Job ID: 340-1240-1

Client Sample ID: SREC-IA-032312

Lab Sample ID: 340-1240-11

Date Collected: 03/23/12 10:05
Matrix: Air
Date Received: 03/28/12 10:15
Sample Container: Summa Canister 6L

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.045		ppb v/v			04/02/12 04:58	1
1,1-Dichloroethane	**0.029**		0.0050		ppb v/v			04/02/12 04:58	1
cis-1,2-Dichloroethene	**0.91**		0.014		ppb v/v			04/02/12 04:58	1
trans-1,2-Dichloroethene	ND		0.014		ppb v/v			04/02/12 04:58	1
Tetrachloroethene	**0.073**		0.020		ppb v/v			04/02/12 04:58	1
1,1,1-Trichloroethane	**0.20**		0.020		ppb v/v			04/02/12 04:58	1
Trichloroethene	**3.7**		0.0098		ppb v/v			04/05/12 13:41	1.96
Vinyl chloride	**0.035**		0.0050		ppb v/v			04/02/12 04:58	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.12		ug/m3			04/02/12 04:58	1
1,1-Dichloroethane	**0.12**		0.020		ug/m3			04/02/12 04:58	1
cis-1,2-Dichloroethene	**3.6**		0.056		ug/m3			04/02/12 04:58	1
trans-1,2-Dichloroethene	ND		0.056		ug/m3			04/02/12 04:58	1
Tetrachloroethene	**0.49**		0.14		ug/m3			04/02/12 04:58	1
1,1,1-Trichloroethane	**1.1**		0.11		ug/m3			04/02/12 04:58	1
Trichloroethene	**20**		0.053		ug/m3			04/05/12 13:41	1.96
Vinyl chloride	**0.089**		0.013		ug/m3			04/02/12 04:58	1

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Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Prairie Ronde Realty Dowagiac

TestAmerica Job ID: 340-1240-1

Client Sample ID: SREC-SS-032312
Date Collected: 03/23/12 10:05
Date Received: 03/28/12 10:15
Sample Container: Summa Canister 6L

Lab Sample ID: 340-1240-12
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		59		ppb v/v			03/29/12 22:29	73.2
1,1-Dichloroethane	ND		22		ppb v/v			03/29/12 22:29	73.2
cis-1,2-Dichloroethene	ND		29		ppb v/v			03/29/12 22:29	73.2
trans-1,2-Dichloroethene	ND		29		ppb v/v			03/29/12 22:29	73.2
Tetrachloroethene	ND		29		ppb v/v			03/29/12 22:29	73.2
1,1,1-Trichloroethane	ND		22		ppb v/v			03/29/12 22:29	73.2
Trichloroethene	**2600**		29		ppb v/v			03/29/12 22:29	73.2
Vinyl chloride	ND		15		ppb v/v			03/29/12 22:29	73.2

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		150		ug/m3			03/29/12 22:29	73.2
1,1-Dichloroethane	ND		89		ug/m3			03/29/12 22:29	73.2
cis-1,2-Dichloroethene	ND		120		ug/m3			03/29/12 22:29	73.2
trans-1,2-Dichloroethene	ND		120		ug/m3			03/29/12 22:29	73.2
Tetrachloroethene	ND		200		ug/m3			03/29/12 22:29	73.2
1,1,1-Trichloroethane	ND		120		ug/m3			03/29/12 22:29	73.2
Trichloroethene	**14000**		160		ug/m3			03/29/12 22:29	73.2
Vinyl chloride	ND		37		ug/m3			03/29/12 22:29	73.2

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl alcohol TIC	*ND*		*ppb v/v*			*67-63-0*		*03/29/12 22:29*	*73.2*

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl alcohol TIC	*ND*		*ug/m3*			*67-63-0*		*03/29/12 22:29*	*73.2*

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Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Prairie Ronde Realty Dowagiac

TestAmerica Job ID: 340-1240-1

Client Sample ID: NREC-IA-032312
Date Collected: 03/23/12 10:16
Date Received: 03/28/12 10:15
Sample Container: Summa Canister 6L

Lab Sample ID: 340-1240-13
Matrix: Air

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.045	ppb v/v			04/05/12 14:33	1
1,1-Dichloroethane	**0.022**		0.0050	ppb v/v			04/05/12 14:33	1
cis-1,2-Dichloroethene	**0.64**		0.014	ppb v/v			04/05/12 14:33	1
trans-1,2-Dichloroethene	ND		0.014	ppb v/v			04/05/12 14:33	1
Tetrachloroethene	**0.044**		0.020	ppb v/v			04/05/12 14:33	1
1,1,1-Trichloroethane	**0.14**		0.020	ppb v/v			04/05/12 14:33	1
Trichloroethene	**3.7**		0.0050	ppb v/v			04/05/12 14:33	1
Vinyl chloride	**0.026**		0.0050	ppb v/v			04/05/12 14:33	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.12	ug/m3			04/05/12 14:33	1
1,1-Dichloroethane	**0.091**		0.020	ug/m3			04/05/12 14:33	1
cis-1,2-Dichloroethene	**2.5**		0.056	ug/m3			04/05/12 14:33	1
trans-1,2-Dichloroethene	ND		0.056	ug/m3			04/05/12 14:33	1
Tetrachloroethene	**0.30**		0.14	ug/m3			04/05/12 14:33	1
1,1,1-Trichloroethane	**0.75**		0.11	ug/m3			04/05/12 14:33	1
Trichloroethene	**20**		0.027	ug/m3			04/05/12 14:33	1
Vinyl chloride	**0.065**		0.013	ug/m3			04/05/12 14:33	1

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Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Prairie Ronde Realty Dowagiac

TestAmerica Job ID: 340-1240-1

Client Sample ID: NREC-SS-032312

Lab Sample ID: 340-1240-14

Date Collected: 03/23/12 10:16
Matrix: Air
Date Received: 03/28/12 10:15
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.80		ppb v/v			03/30/12 00:00	1
1,1-Dichloroethane	**0.42**		0.30		ppb v/v			03/30/12 00:00	1
cis-1,2-Dichloroethene	**2.1**		0.40		ppb v/v			03/30/12 00:00	1
trans-1,2-Dichloroethene	ND		0.40		ppb v/v			03/30/12 00:00	1
Tetrachloroethene	**25**		0.40		ppb v/v			03/30/12 00:00	1
1,1,1-Trichloroethane	**11**		0.30		ppb v/v			03/30/12 00:00	1
Trichloroethene	**120**		0.93		ppb v/v			03/29/12 23:11	2.32
Vinyl chloride	ND		0.20		ppb v/v			03/30/12 00:00	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		2.1		ug/m3			03/30/12 00:00	1
1,1-Dichloroethane	**1.7**		1.2		ug/m3			03/30/12 00:00	1
cis-1,2-Dichloroethene	**8.2**		1.6		ug/m3			03/30/12 00:00	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			03/30/12 00:00	1
Tetrachloroethene	**170**		2.7		ug/m3			03/30/12 00:00	1
1,1,1-Trichloroethane	**58**		1.6		ug/m3			03/30/12 00:00	1
Trichloroethene	**670**		5.0		ug/m3			03/29/12 23:11	2.32
Vinyl chloride	ND		0.51		ug/m3			03/30/12 00:00	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl alcohol TIC	*ND*		*ppb v/v*		*7.38*	*67-63-0*		*03/30/12 00:00*	*1*

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl alcohol TIC	*ND*		*ug/m3*		*7.38*	*67-63-0*		*03/30/12 00:00*	*1*

US EPA ARCHIVE DOCUMENT

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Prairie Ronde Realty Dowagiac

TestAmerica Job ID: 340-1240-1

Client Sample ID: AA-032312
Date Collected: 03/23/12 10:27
Date Received: 03/28/12 10:15
Sample Container: Summa Canister 6L

Lab Sample ID: 340-1240-15
Matrix: Air

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.045		ppb v/v			04/05/12 01:24	1
1,1-Dichloroethane	ND		0.0050		ppb v/v			04/05/12 01:24	1
cis-1,2-Dichloroethene	ND		0.014		ppb v/v			04/05/12 01:24	1
trans-1,2-Dichloroethene	ND		0.014		ppb v/v			04/05/12 01:24	1
Tetrachloroethene	**0.025**		0.020		ppb v/v			04/05/12 01:24	1
1,1,1-Trichloroethane	ND		0.020		ppb v/v			04/05/12 01:24	1
Trichloroethene	**0.026**		0.0050		ppb v/v			04/05/12 01:24	1
Vinyl chloride	ND		0.0050		ppb v/v			04/05/12 01:24	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.12		ug/m3			04/05/12 01:24	1
1,1-Dichloroethane	ND		0.020		ug/m3			04/05/12 01:24	1
cis-1,2-Dichloroethene	ND		0.056		ug/m3			04/05/12 01:24	1
trans-1,2-Dichloroethene	ND		0.056		ug/m3			04/05/12 01:24	1
Tetrachloroethene	**0.17**		0.14		ug/m3			04/05/12 01:24	1
1,1,1-Trichloroethane	ND		0.11		ug/m3			04/05/12 01:24	1
Trichloroethene	**0.14**		0.027		ug/m3			04/05/12 01:24	1
Vinyl chloride	ND		0.013		ug/m3			04/05/12 01:24	1

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Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 340-1148/5
Matrix: Air
Analysis Batch: 1148

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.80	ppb v/v			03/29/12 10:30	1
1,1-Dichloroethane	ND		0.30	ppb v/v			03/29/12 10:30	1
cis-1,2-Dichloroethene	ND		0.40	ppb v/v			03/29/12 10:30	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			03/29/12 10:30	1
Tetrachloroethene	ND		0.40	ppb v/v			03/29/12 10:30	1
1,1,1-Trichloroethane	ND		0.30	ppb v/v			03/29/12 10:30	1
Trichloroethene	ND		0.40	ppb v/v			03/29/12 10:30	1
Vinyl chloride	ND		0.20	ppb v/v			03/29/12 10:30	1

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		2.1	ug/m3			03/29/12 10:30	1
1,1-Dichloroethane	ND		1.2	ug/m3			03/29/12 10:30	1
cis-1,2-Dichloroethene	ND		1.6	ug/m3			03/29/12 10:30	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			03/29/12 10:30	1
Tetrachloroethene	ND		2.7	ug/m3			03/29/12 10:30	1
1,1,1-Trichloroethane	ND		1.6	ug/m3			03/29/12 10:30	1
Trichloroethene	ND		2.1	ug/m3			03/29/12 10:30	1
Vinyl chloride	ND		0.51	ug/m3			03/29/12 10:30	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl alcohol TIC	*ND*		*ppb v/v*			*67-63-0*		*03/29/12 10:30*	*1*

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isopropyl alcohol TIC	*ND*		*ug/m3*			*67-63-0*		*03/29/12 10:30*	*1*

Lab Sample ID: LCS 340-1148/3
Matrix: Air
Analysis Batch: 1148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	10.0	13.0		ppb v/v		130	70 - 130
1,1-Dichloroethane	10.0	11.3		ppb v/v		113	70 - 130
cis-1,2-Dichloroethene	10.0	11.1		ppb v/v		111	70 - 130
trans-1,2-Dichloroethene	10.0	11.5		ppb v/v		115	70 - 130
Tetrachloroethene	10.0	10.7		ppb v/v		107	70 - 130
1,1,1-Trichloroethane	10.0	12.3		ppb v/v		123	70 - 130
Trichloroethene	10.0	10.7		ppb v/v		107	70 - 130
Vinyl chloride	10.0	12.3		ppb v/v		123	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	26	34.3		ug/m3		130	70 - 130
1,1-Dichloroethane	40	45.7		ug/m3		113	70 - 130
cis-1,2-Dichloroethene	40	44.0		ug/m3		111	70 - 130
trans-1,2-Dichloroethene	40	45.6		ug/m3		115	70 - 130
Tetrachloroethene	68	72.6		ug/m3		107	70 - 130
1,1,1-Trichloroethane	55	67.1		ug/m3		123	70 - 130
Trichloroethene	54	57.5		ug/m3		107	70 - 130
Vinyl chloride	26	31.4		ug/m3		123	70 - 130

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Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 340-1148/4
Matrix: Air
Analysis Batch: 1148

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane	10.0	12.4		ppb v/v		124	70 - 130	5	25
1,1-Dichloroethane	10.0	11.2		ppb v/v		112	70 - 130	1	25
cis-1,2-Dichloroethene	10.0	11.4		ppb v/v		114	70 - 130	3	25
trans-1,2-Dichloroethene	10.0	11.7		ppb v/v		117	70 - 130	2	25
Tetrachloroethene	10.0	11.1		ppb v/v		111	70 - 130	4	25
1,1,1-Trichloroethane	10.0	12.3		ppb v/v		123	70 - 130	0	25
Trichloroethene	10.0	10.8		ppb v/v		108	70 - 130	1	25
Vinyl chloride	10.0	11.9		ppb v/v		119	70 - 130	3	25

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane	26	32.7		ug/m3		124	70 - 130	5	25
1,1-Dichloroethane	40	45.3		ug/m3		112	70 - 130	1	25
cis-1,2-Dichloroethene	40	45.2		ug/m3		114	70 - 130	3	25
trans-1,2-Dichloroethene	40	46.4		ug/m3		117	70 - 130	2	25
Tetrachloroethene	68	75.3		ug/m3		111	70 - 130	4	25
1,1,1-Trichloroethane	55	67.1		ug/m3		123	70 - 130	0	25
Trichloroethene	54	58.0		ug/m3		108	70 - 130	1	25
Vinyl chloride	26	30.4		ug/m3		119	70 - 130	3	25

Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Lab Sample ID: MB 340-1179/6
Matrix: Air
Analysis Batch: 1179

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.045	ppb v/v			04/01/12 13:55	1
1,1-Dichloroethane	ND		0.0050	ppb v/v			04/01/12 13:55	1
cis-1,2-Dichloroethene	ND		0.014	ppb v/v			04/01/12 13:55	1
trans-1,2-Dichloroethene	ND		0.014	ppb v/v			04/01/12 13:55	1
Tetrachloroethene	ND		0.020	ppb v/v			04/01/12 13:55	1
1,1,1-Trichloroethane	ND		0.020	ppb v/v			04/01/12 13:55	1
Trichloroethene	ND		0.0050	ppb v/v			04/01/12 13:55	1
Vinyl chloride	ND		0.0050	ppb v/v			04/01/12 13:55	1

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.12	ug/m3			04/01/12 13:55	1
1,1-Dichloroethane	ND		0.020	ug/m3			04/01/12 13:55	1
cis-1,2-Dichloroethene	ND		0.056	ug/m3			04/01/12 13:55	1
trans-1,2-Dichloroethene	ND		0.056	ug/m3			04/01/12 13:55	1
Tetrachloroethene	ND		0.14	ug/m3			04/01/12 13:55	1
1,1,1-Trichloroethane	ND		0.11	ug/m3			04/01/12 13:55	1
Trichloroethene	ND		0.027	ug/m3			04/01/12 13:55	1
Vinyl chloride	ND		0.013	ug/m3			04/01/12 13:55	1

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Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: LCS 340-1179/4 — **Client Sample ID: Lab Control Sample**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 1179

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	1.00	0.824		ppb v/v		82	70 - 130
1,1-Dichloroethane	1.00	1.05		ppb v/v		105	70 - 130
cis-1,2-Dichloroethene	1.00	1.02		ppb v/v		102	70 - 130
trans-1,2-Dichloroethene	1.00	1.15		ppb v/v		115	70 - 130
Tetrachloroethene	1.00	0.817		ppb v/v		82	70 - 130
1,1,1-Trichloroethane	1.00	1.10		ppb v/v		110	70 - 130
Trichloroethene	1.00	0.922		ppb v/v		92	70 - 130
Vinyl chloride	1.00	0.815		ppb v/v		82	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	2.6	2.17		ug/m3		82	70 - 130
1,1-Dichloroethane	4.0	4.25		ug/m3		105	70 - 130
cis-1,2-Dichloroethene	4.0	4.04		ug/m3		102	70 - 130
trans-1,2-Dichloroethene	4.0	4.56		ug/m3		115	70 - 130
Tetrachloroethene	6.8	5.54		ug/m3		82	70 - 130
1,1,1-Trichloroethane	5.5	6.00		ug/m3		110	70 - 130
Trichloroethene	5.4	4.95		ug/m3		92	70 - 130
Vinyl chloride	2.6	2.08		ug/m3		82	70 - 130

Lab Sample ID: LCSD 340-1179/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 1179

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane	1.00	0.799		ppb v/v		80	70 - 130	3	25
1,1-Dichloroethane	1.00	1.04		ppb v/v		104	70 - 130	1	25
cis-1,2-Dichloroethene	1.00	1.02		ppb v/v		102	70 - 130	0	25
trans-1,2-Dichloroethene	1.00	1.14		ppb v/v		114	70 - 130	1	25
Tetrachloroethene	1.00	0.810		ppb v/v		81	70 - 130	1	25
1,1,1-Trichloroethane	1.00	1.07		ppb v/v		107	70 - 130	3	25
Trichloroethene	1.00	0.899		ppb v/v		90	70 - 130	3	25
Vinyl chloride	1.00	0.811		ppb v/v		81	70 - 130	1	25

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane	2.6	2.11		ug/m3		80	70 - 130	3	25
1,1-Dichloroethane	4.0	4.21		ug/m3		104	70 - 130	1	25
cis-1,2-Dichloroethene	4.0	4.04		ug/m3		102	70 - 130	0	25
trans-1,2-Dichloroethene	4.0	4.52		ug/m3		114	70 - 130	1	25
Tetrachloroethene	6.8	5.49		ug/m3		81	70 - 130	1	25
1,1,1-Trichloroethane	5.5	5.84		ug/m3		107	70 - 130	3	25
Trichloroethene	5.4	4.83		ug/m3		90	70 - 130	3	25
Vinyl chloride	2.6	2.07		ug/m3		81	70 - 130	1	25

Lab Sample ID: MB 340-1220/4 — **Client Sample ID: Method Blank**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 1220

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.045	ppb v/v			04/04/12 10:32	1

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Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: MB 340-1220/4 — **Client Sample ID: Method Blank**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 1220

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.0050	ppb v/v			04/04/12 10:32	1
cis-1,2-Dichloroethene	ND		0.014	ppb v/v			04/04/12 10:32	1
trans-1,2-Dichloroethene	ND		0.014	ppb v/v			04/04/12 10:32	1
Tetrachloroethene	ND		0.020	ppb v/v			04/04/12 10:32	1
1,1,1-Trichloroethane	ND		0.020	ppb v/v			04/04/12 10:32	1
Trichloroethene	ND		0.0050	ppb v/v			04/04/12 10:32	1
Vinyl chloride	ND		0.0050	ppb v/v			04/04/12 10:32	1

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.12	ug/m3			04/04/12 10:32	1
1,1-Dichloroethane	ND		0.020	ug/m3			04/04/12 10:32	1
cis-1,2-Dichloroethene	ND		0.056	ug/m3			04/04/12 10:32	1
trans-1,2-Dichloroethene	ND		0.056	ug/m3			04/04/12 10:32	1
Tetrachloroethene	ND		0.14	ug/m3			04/04/12 10:32	1
1,1,1-Trichloroethane	ND		0.11	ug/m3			04/04/12 10:32	1
Trichloroethene	ND		0.027	ug/m3			04/04/12 10:32	1
Vinyl chloride	ND		0.013	ug/m3			04/04/12 10:32	1

Lab Sample ID: LCS 340-1220/2 — **Client Sample ID: Lab Control Sample**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 1220

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	1.00	1.01		ppb v/v		101	70 - 130
1,1-Dichloroethane	1.00	1.06		ppb v/v		106	70 - 130
cis-1,2-Dichloroethene	1.00	1.01		ppb v/v		101	70 - 130
trans-1,2-Dichloroethene	1.00	1.14		ppb v/v		114	70 - 130
Tetrachloroethene	1.00	0.839		ppb v/v		84	70 - 130
1,1,1-Trichloroethane	1.00	0.990		ppb v/v		99	70 - 130
Trichloroethene	1.00	0.929		ppb v/v		93	70 - 130
Vinyl chloride	1.00	0.842		ppb v/v		84	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	2.6	2.67		ug/m3		101	70 - 130
1,1-Dichloroethane	4.0	4.29		ug/m3		106	70 - 130
cis-1,2-Dichloroethene	4.0	4.00		ug/m3		101	70 - 130
trans-1,2-Dichloroethene	4.0	4.52		ug/m3		114	70 - 130
Tetrachloroethene	6.8	5.69		ug/m3		84	70 - 130
1,1,1-Trichloroethane	5.5	5.40		ug/m3		99	70 - 130
Trichloroethene	5.4	4.99		ug/m3		93	70 - 130
Vinyl chloride	2.6	2.15		ug/m3		84	70 - 130

Lab Sample ID: LCSD 340-1220/3 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 1220

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane	1.00	0.990		ppb v/v		99	70 - 130	2	25
1,1-Dichloroethane	1.00	1.06		ppb v/v		106	70 - 130	0	25

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Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: LCSD 340-1220/3 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 1220

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	1.00	1.04		ppb v/v		104	70 - 130	3	25
trans-1,2-Dichloroethene	1.00	1.16		ppb v/v		116	70 - 130	2	25
Tetrachloroethene	1.00	0.849		ppb v/v		85	70 - 130	1	25
1,1,1-Trichloroethane	1.00	0.990		ppb v/v		99	70 - 130	0	25
Trichloroethene	1.00	0.925		ppb v/v		93	70 - 130	0	25
Vinyl chloride	1.00	1.00		ppb v/v		100	70 - 130	17	25

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane	2.6	2.61		ug/m3		99	70 - 130	2	25
1,1-Dichloroethane	4.0	4.29		ug/m3		106	70 - 130	0	25
cis-1,2-Dichloroethene	4.0	4.12		ug/m3		104	70 - 130	3	25
trans-1,2-Dichloroethene	4.0	4.60		ug/m3		116	70 - 130	2	25
Tetrachloroethene	6.8	5.76		ug/m3		85	70 - 130	1	25
1,1,1-Trichloroethane	5.5	5.40		ug/m3		99	70 - 130	0	25
Trichloroethene	5.4	4.97		ug/m3		93	70 - 130	0	25
Vinyl chloride	2.6	2.56		ug/m3		100	70 - 130	17	25

Lab Sample ID: MB 340-1241/4 — **Client Sample ID: Method Blank**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 1241

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.045	ppb v/v			04/05/12 10:32	1
1,1-Dichloroethane	ND		0.0050	ppb v/v			04/05/12 10:32	1
cis-1,2-Dichloroethene	ND		0.014	ppb v/v			04/05/12 10:32	1
trans-1,2-Dichloroethene	ND		0.014	ppb v/v			04/05/12 10:32	1
Tetrachloroethene	ND		0.020	ppb v/v			04/05/12 10:32	1
1,1,1-Trichloroethane	ND		0.020	ppb v/v			04/05/12 10:32	1
Trichloroethene	ND		0.0050	ppb v/v			04/05/12 10:32	1
Vinyl chloride	ND		0.0050	ppb v/v			04/05/12 10:32	1

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.12	ug/m3			04/05/12 10:32	1
1,1-Dichloroethane	ND		0.020	ug/m3			04/05/12 10:32	1
cis-1,2-Dichloroethene	ND		0.056	ug/m3			04/05/12 10:32	1
trans-1,2-Dichloroethene	ND		0.056	ug/m3			04/05/12 10:32	1
Tetrachloroethene	ND		0.14	ug/m3			04/05/12 10:32	1
1,1,1-Trichloroethane	ND		0.11	ug/m3			04/05/12 10:32	1
Trichloroethene	ND		0.027	ug/m3			04/05/12 10:32	1
Vinyl chloride	ND		0.013	ug/m3			04/05/12 10:32	1

Lab Sample ID: LCS 340-1241/2 — **Client Sample ID: Lab Control Sample**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 1241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	1.00	1.00		ppb v/v		100	70 - 130
1,1-Dichloroethane	1.00	1.08		ppb v/v		108	70 - 130
cis-1,2-Dichloroethene	1.00	1.06		ppb v/v		106	70 - 130

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Method: TO-15 SIM - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: LCS 340-1241/2 — **Client Sample ID: Lab Control Sample**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 1241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	1.00	1.17		ppb v/v		117	70 - 130
Tetrachloroethene	1.00	0.828		ppb v/v		83	70 - 130
1,1,1-Trichloroethane	1.00	1.02		ppb v/v		102	70 - 130
Trichloroethene	1.00	1.00		ppb v/v		100	70 - 130
Vinyl chloride	1.00	1.08		ppb v/v		108	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	2.6	2.64		ug/m3		100	70 - 130
1,1-Dichloroethane	4.0	4.37		ug/m3		108	70 - 130
cis-1,2-Dichloroethene	4.0	4.20		ug/m3		106	70 - 130
trans-1,2-Dichloroethene	4.0	4.64		ug/m3		117	70 - 130
Tetrachloroethene	6.8	5.62		ug/m3		83	70 - 130
1,1,1-Trichloroethane	5.5	5.57		ug/m3		102	70 - 130
Trichloroethene	5.4	5.37		ug/m3		100	70 - 130
Vinyl chloride	2.6	2.76		ug/m3		108	70 - 130

Lab Sample ID: LCSD 340-1241/3 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 1241

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane	1.00	0.989		ppb v/v		99	70 - 130	1	25
1,1-Dichloroethane	1.00	1.06		ppb v/v		106	70 - 130	2	25
cis-1,2-Dichloroethene	1.00	1.04		ppb v/v		104	70 - 130	2	25
trans-1,2-Dichloroethene	1.00	1.16		ppb v/v		116	70 - 130	1	25
Tetrachloroethene	1.00	0.811		ppb v/v		81	70 - 130	2	25
1,1,1-Trichloroethane	1.00	1.01		ppb v/v		101	70 - 130	1	25
Trichloroethene	1.00	0.985		ppb v/v		98	70 - 130	2	25
Vinyl chloride	1.00	1.07		ppb v/v		107	70 - 130	1	25

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane	2.6	2.61		ug/m3		99	70 - 130	1	25
1,1-Dichloroethane	4.0	4.29		ug/m3		106	70 - 130	2	25
cis-1,2-Dichloroethene	4.0	4.12		ug/m3		104	70 - 130	2	25
trans-1,2-Dichloroethene	4.0	4.60		ug/m3		116	70 - 130	1	25
Tetrachloroethene	6.8	5.50		ug/m3		81	70 - 130	2	25
1,1,1-Trichloroethane	5.5	5.51		ug/m3		101	70 - 130	1	25
Trichloroethene	5.4	5.29		ug/m3		98	70 - 130	2	25
Vinyl chloride	2.6	2.74		ug/m3		107	70 - 130	1	25

US EPA ARCHIVE DOCUMENT

Air - GC/MS VOA

Analysis Batch: 1148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
340-1240-2	PRR OFFICE-SS-032312	Total/NA	Air	TO-15	
340-1240-4	JMT-SS-032312	Total/NA	Air	TO-15	
340-1240-6	VH-SS-032312	Total/NA	Air	TO-15	
340-1240-6	VH-SS-032312	Total/NA	Air	TO-15	
340-1240-8	MP-SS-032312	Total/NA	Air	TO-15	
340-1240-10	QT-SS-032312	Total/NA	Air	TO-15	
340-1240-12	SREC-SS-032312	Total/NA	Air	TO-15	
340-1240-14	NREC-SS-032312	Total/NA	Air	TO-15	
340-1240-14	NREC-SS-032312	Total/NA	Air	TO-15	
LCS 340-1148/3	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 340-1148/4	Lab Control Sample Dup	Total/NA	Air	TO-15	
MB 340-1148/5	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 1179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
340-1240-1	PRR OFFICE-IA-032312	Total/NA	Air	TO-15 SIM	
340-1240-3	JMT-IA-032312	Total/NA	Air	TO-15 SIM	
340-1240-11	SREC-IA-032312	Total/NA	Air	TO-15 SIM	
LCS 340-1179/4	Lab Control Sample	Total/NA	Air	TO-15 SIM	
LCSD 340-1179/5	Lab Control Sample Dup	Total/NA	Air	TO-15 SIM	
MB 340-1179/6	Method Blank	Total/NA	Air	TO-15 SIM	

Analysis Batch: 1220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
340-1240-1	PRR OFFICE-IA-032312	Total/NA	Air	TO-15 SIM	
340-1240-3	JMT-IA-032312	Total/NA	Air	TO-15 SIM	
340-1240-5	VH-IA-032312	Total/NA	Air	TO-15 SIM	
340-1240-7	MP-IA-032312	Total/NA	Air	TO-15 SIM	
340-1240-9	QT-IA-032312	Total/NA	Air	TO-15 SIM	
340-1240-15	AA-032312	Total/NA	Air	TO-15 SIM	
LCS 340-1220/2	Lab Control Sample	Total/NA	Air	TO-15 SIM	
LCSD 340-1220/3	Lab Control Sample Dup	Total/NA	Air	TO-15 SIM	
MB 340-1220/4	Method Blank	Total/NA	Air	TO-15 SIM	

Analysis Batch: 1241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
340-1240-11	SREC-IA-032312	Total/NA	Air	TO-15 SIM	
340-1240-13	NREC-IA-032312	Total/NA	Air	TO-15 SIM	
LCS 340-1241/2	Lab Control Sample	Total/NA	Air	TO-15 SIM	
LCSD 340-1241/3	Lab Control Sample Dup	Total/NA	Air	TO-15 SIM	
MB 340-1241/4	Method Blank	Total/NA	Air	TO-15 SIM	

US EPA ARCHIVE DOCUMENT

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: Prairie Ronde Realty Dowagiac

TestAmerica Job ID: 340-1240-1

Client Sample ID: PRR OFFICE-IA-032312 — Lab Sample ID: 340-1240-1

Date Collected: 03/23/12 09:04 — **Matrix: Air**
Date Received: 03/28/12 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15 SIM		1	1179	04/02/12 00:45	DLK	TAL LA
	Instrument ID: MSD							
Total/NA	Analysis	TO-15 SIM		1.93	1220	04/05/12 02:15	LY	TAL LA
	Instrument ID: MSD							

Client Sample ID: PRR OFFICE-SS-032312 — Lab Sample ID: 340-1240-2

Date Collected: 03/23/12 09:10 — **Matrix: Air**
Date Received: 03/28/12 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		4.77	1148	03/29/12 16:15	DLK	TAL LA
	Instrument ID: MSG							

Client Sample ID: JMT-IA-032312 — Lab Sample ID: 340-1240-3

Date Collected: 03/23/12 09:24 — **Matrix: Air**
Date Received: 03/28/12 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15 SIM		1	1179	04/02/12 01:37	DLK	TAL LA
	Instrument ID: MSD							
Total/NA	Analysis	TO-15 SIM		3.77	1220	04/05/12 03:05	LY	TAL LA
	Instrument ID: MSD							

Client Sample ID: JMT-SS-032312 — Lab Sample ID: 340-1240-4

Date Collected: 03/23/12 09:24 — **Matrix: Air**
Date Received: 03/28/12 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		9.58	1148	03/29/12 15:34	DLK	TAL LA
	Instrument ID: MSG							

Client Sample ID: VH-IA-032312 — Lab Sample ID: 340-1240-5

Date Collected: 03/23/12 09:46 — **Matrix: Air**
Date Received: 03/28/12 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15 SIM		1	1220	04/05/12 03:55	LY	TAL LA
	Instrument ID: MSD							

US EPA ARCHIVE DOCUMENT

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: Prairie Ronde Realty Dowagiac

TestAmerica Job ID: 340-1240-1

Client Sample ID: VH-SS-032312 — Lab Sample ID: 340-1240-6

Date Collected: 03/23/12 09:46 — **Matrix: Air**
Date Received: 03/28/12 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		65.7	1148	03/29/12 16:55	DLK	TAL LA
	Instrument ID: MSG							
Total/NA	Analysis	TO-15		148	1148	03/30/12 00:41	DLK	TAL LA
	Instrument ID: MSG							

Client Sample ID: MP-IA-032312 — Lab Sample ID: 340-1240-7

Date Collected: 03/23/12 09:38 — **Matrix: Air**
Date Received: 03/28/12 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15 SIM		1	1220	04/05/12 00:34	LY	TAL LA
	Instrument ID: MSD							

Client Sample ID: MP-SS-032312 — Lab Sample ID: 340-1240-8

Date Collected: 03/23/12 09:36 — **Matrix: Air**
Date Received: 03/28/12 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		41.6	1148	03/29/12 21:08	DLK	TAL LA
	Instrument ID: MSG							

Client Sample ID: QT-IA-032312 — Lab Sample ID: 340-1240-9

Date Collected: 03/23/12 09:58 — **Matrix: Air**
Date Received: 03/28/12 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15 SIM		1.87	1220	04/05/12 04:45	LY	TAL LA
	Instrument ID: MSD							

Client Sample ID: QT-SS-032312 — Lab Sample ID: 340-1240-10

Date Collected: 03/23/12 09:57 — **Matrix: Air**
Date Received: 03/28/12 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		173	1148	03/29/12 21:48	DLK	TAL LA
	Instrument ID: MSG							

Client Sample ID: SREC-IA-032312 — Lab Sample ID: 340-1240-11

Date Collected: 03/23/12 10:05 — **Matrix: Air**
Date Received: 03/28/12 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15 SIM		1	1179	04/02/12 04:58	DLK	TAL LA
	Instrument ID: MSD							

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Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: Prairie Ronde Realty Dowagiac

TestAmerica Job ID: 340-1240-1

Client Sample ID: SREC-IA-032312 — Lab Sample ID: 340-1240-11

Date Collected: 03/23/12 10:05 — **Matrix: Air**
Date Received: 03/28/12 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15 SIM		1.96	1241	04/05/12 13:41	DLK	TAL LA
	Instrument ID: MSD							

Client Sample ID: SREC-SS-032312 — Lab Sample ID: 340-1240-12

Date Collected: 03/23/12 10:05 — **Matrix: Air**
Date Received: 03/28/12 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		73.2	1148	03/29/12 22:29	DLK	TAL LA
	Instrument ID: MSG							

Client Sample ID: NREC-IA-032312 — Lab Sample ID: 340-1240-13

Date Collected: 03/23/12 10:16 — **Matrix: Air**
Date Received: 03/28/12 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15 SIM		1	1241	04/05/12 14:33	DLK	TAL LA
	Instrument ID: MSD							

Client Sample ID: NREC-SS-032312 — Lab Sample ID: 340-1240-14

Date Collected: 03/23/12 10:16 — **Matrix: Air**
Date Received: 03/28/12 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		2.32	1148	03/29/12 23:11	DLK	TAL LA
	Instrument ID: MSG							
Total/NA	Analysis	TO-15		1	1148	03/30/12 00:00	DLK	TAL LA
	Instrument ID: MSG							

Client Sample ID: AA-032312 — Lab Sample ID: 340-1240-15

Date Collected: 03/23/12 10:27 — **Matrix: Air**
Date Received: 03/28/12 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15 SIM		1	1220	04/05/12 01:24	LY	TAL LA
	Instrument ID: MSD							

Laboratory References:

TAL LA = TestAmerica Los Angeles, 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626, TEL (714)258-8610

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Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: Prairie Ronde Realty Dowagiac

TestAmerica Job ID: 340-1240-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Los Angeles	Arizona	State Program	9	AZ0727
TestAmerica Los Angeles	Florida	NELAC	4	E87652
TestAmerica Los Angeles	L-A-B	DoD ELAP		L2273
TestAmerica Los Angeles	Louisiana	NELAC	6	01948
TestAmerica Los Angeles	Oregon	NELAC	10	CA200013

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

US EPA ARCHIVE DOCUMENT

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: Prairie Ronde Realty Dowagiac

TestAmerica Job ID: 340-1240-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL LA
TO-15 SIM	Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)	EPA-21	TAL LA

Protocol References:

EPA = US Environmental Protection Agency

EPA-21 = "Compendium Of Methods For The Determination Of Toxic Organic Compounds In Ambient Air", Second Edition, EPA/625/R-96/010B, January 1999

Laboratory References:

TAL LA = TestAmerica Los Angeles, 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626, TEL (714)258-8610

US EPA ARCHIVE DOCUMENT

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: Prairie Ronde Realty Dowagiac

TestAmerica Job ID: 340-1240-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
340-1240-1	PRR OFFICE-IA-032312	Air	03/23/12 09:04	03/28/12 10:15
340-1240-2	PRR OFFICE-SS-032312	Air	03/23/12 09:10	03/28/12 10:15
340-1240-3	JMT-IA-032312	Air	03/23/12 09:24	03/28/12 10:15
340-1240-4	JMT-SS-032312	Air	03/23/12 09:24	03/28/12 10:15
340-1240-5	VH-IA-032312	Air	03/23/12 09:46	03/28/12 10:15
340-1240-6	VH-SS-032312	Air	03/23/12 09:46	03/28/12 10:15
340-1240-7	MP-IA-032312	Air	03/23/12 09:38	03/28/12 10:15
340-1240-8	MP-SS-032312	Air	03/23/12 09:36	03/28/12 10:15
340-1240-9	QT-IA-032312	Air	03/23/12 09:58	03/28/12 10:15
340-1240-10	QT-SS-032312	Air	03/23/12 09:57	03/28/12 10:15
340-1240-11	SREC-IA-032312	Air	03/23/12 10:05	03/28/12 10:15
340-1240-12	SREC-SS-032312	Air	03/23/12 10:05	03/28/12 10:15
340-1240-13	NREC-IA-032312	Air	03/23/12 10:16	03/28/12 10:15
340-1240-14	NREC-SS-032312	Air	03/23/12 10:16	03/28/12 10:15
340-1240-15	AA-032312	Air	03/23/12 10:27	03/28/12 10:15

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TestAmerica Los Angeles
3585 Cadillac Ave., Suite A
Costa Mesa, CA 92626
Phone 714-258-8610 Fax 714-258-0921

Canister Samples Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

340-1240
~~340-1204~~ (P)

1 of 4 COCs

Client Contact Information	
Company: AECOM	Project Manager: Glenn Hendrix
Address: 5555 Glenwood Hills Pkwy	Phone: 616-940-4406
City/State/Zip Grand Rapids, MI 49512	Email: Glenn.Hendrix@aecom.com
Phone: 616-940-4406	Site Contact:
FAX:	LAB Contact: Sonia Tabirara
Project Name: PRR Dowagiac	Analysis Turnaround Time
Site:	Standard (Specify) 10 days
PO #	Rush (Specify)

Samples Collected By: Mike PAPP / Mike Papp

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 SIM	TO-15 SCAN	TO-3	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type: Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
PRROffice-IA-032312	3/23/12	0904	0904	29.5	4.0	24177	1197	X							X				
PRROffice-SS-032312	↓	0910	0910	28.5	2.0	24229	0044		X					X			X		
JMT-IA-032312		0924	0924	30	3.0	24152	0612	X							X				
JMT-SS-032312	↓	0924	0924	30	5.0	24124	0047		X					X			X		

Temperature (Fahrenheit)	Interior	Ambient
Start		
Stop		

Pressure (Inches of Hg)	Interior	Ambient
Start		
Stop		

*IPA analysis on SS samples only.

Special Instructions/QC Requirements & Comments:
Target Analyte List: Tetrachloroethylene, TCE, c-1,2-DCE, t-1,2-DCE, Vinyl chloride, 1,1,1-TCA, 1,1-DCA, chloroethane, IPA

Samples Shipped by: Mike Papp	Date/Time: 3/27/12 / 1700	Samples Received by: FED EX	
Samples Relinquished by: FED EX	Date/Time: 3/28/12 1615	Received by:	
Relinquished by:	Date/Time:	Received by:	

Lab Use Only: Shipper Name: Opened by: Condition:

US EPA ARCHIVE DOCUMENT

TestAmerica Los Angeles
3585 Cadillac Ave., Suite A
Costa Mesa, CA 92626
Phone 714-258-8610 Fax 714-258-0921

Canister Samples Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

340-1240
~~340-1204~~ (R)

2 of 4 COCs

Client Contact Information	
Company:	AECOM
Address:	5555 Glenwood Hills Pkwy
City/State/Zip	Grand Rapids, MI 49512
Phone:	616-940-4406
FAX:	
Project Name:	PRR Douagrac
Site:	
PO #	

Project Manager:	Glenn Hendrix
Phone:	616-940-4406
Email:	Glenn.Hendrix@aecom.com
Site Contact:	
LAB Contact:	Sonia Tabrara
Analysis Turnaround Time	
Standard (Specify)	10 days
Rush (Specify)	

Samples Collected By: Mike PAPP / Michael A. Papp

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 SIM	TO-15 SCAN	TO-3	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type: Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
VH-IA-032312	3/23/12	0946	0946	30	5.0	24128	0607	X							X				
VH-SS-032312	↓	0946	0946	30	4.5	24198	0308		X					X			X		
MP-IA-032312		0938	0938	29	4.0	24001	1222	X							X				
MP-SS-032312	↓	0936	0936	30	3.0	24084	0137		X					X			X		

Temperature (Fahrenheit)	Interior	Ambient
Start		
Stop		

Pressure (Inches of Hg)	Interior	Ambient
Start		
Stop		

*IPA analysis on SS samples only.

Special Instructions/QC Requirements & Comments:
Target Analyte List: Tetrachloroethylene, TCE, c-1,2-DCE, t-1,2-DCE, Vinyl chloride, 1,1,1-TCA, 1,1-DCA, chloroethane, IPA

Samples Shipped by:	Date/Time:	Samples Received by: FED EX
Samples Relinquished by: FED EX	Date/Time: 3/28/12 1015	Received by:
Relinquished by:	Date/Time:	Received by:

Lab Use Only: Shipper Name: Opened by: Condition:

US EPA ARCHIVE DOCUMENT

TestAmerica Los Angeles
3585 Cadillac Ave., Suite A
Costa Mesa, CA 92626
Phone 714-258-8610 Fax 714-258-0921

Canister Samples Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

340-1240
~~340-1204~~ ⊗

3 of 4 COCs

Client Contact Information	
Company: AECOM	Project Manager: Glenn Hendrix
Address: 5555 Glenwood Hills Pkwy	Phone: 616-940-4406
City/State/Zip Grand Rapids, MI 49512	Email: Glenn.Hendrix@aecom.com
Phone: 616-940-4406	Site Contact:
FAX:	LAB Contact: Sonia Tabirara
Project Name: PRR Dowegrac	Analysis Turnaround Time
Site:	Standard (Specify) 10 days
PO #	Rush (Specify)

Samples Collected By: Mike P, [illegible], [illegible] N. Rapp

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 SIM	TO-15 LS SCAN	TO-3	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type: Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
QT-IA-032312	3/23/12	0958	0958	30	3.0	24244	0608	X							X				
QT-SS-032312		0957	0957	30	4.5	24242	0070		X					X			X		
SRec-IA-032312		1005	1005	–	–	24060	1276	X							X				
SRec-SS-032312		1005	1005	30	4.0	24078	0444		X					X			X		

SRec-IA-032312: no vacuum gauge on controller.

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

* IPA analysis on SS samples only.

Special Instructions/QC Requirements & Comments:
Target Analyte List: Tetrachloroethylene; TCE; c-1,2-DCE; t-1,2-DCE; vinyl chloride; 1,1,1-TCA; 1,1-DCA; chloroethane; IPA.

Samples Shipped by: [signature]	Date/Time: 3/27/12 1700	Samples Received by: FED Ex
Samples Relinquished by: FED Ex	Date/Time: 3/28/12 1615	Received by: [signature]
Relinquished by:	Date/Time:	Received by:

Lab Use Only: Shipper Name: Opened by: Condition:

US EPA ARCHIVE DOCUMENT

TestAmerica Los Angeles
3585 Cadillac Ave., Suite A
Costa Mesa, CA 92626
Phone 714-258-8610 Fax 714-258-0921

Canister Samples Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

340-1240
~~340-1204~~

4 of 4 COCs

Client Contact Information	
Company:	AECOM
Address:	5555 Glenwood Hills Pkwy
City/State/Zip	Grand Rapids, MI 49512
Phone:	616-940-4966
FAX:	
Project Name:	PRR Donaghue
Site:	
PO #	

Project Manager:	Glenn Hendrix
Phone:	616-940-4406
Email:	Glenn.Hendrix@aecom.com
Site Contact:	
LAB Contact:	Sonia Tabirara
Analysis Turnaround Time	
Standard (Specify)	10 days
Rush (Specify)	

Samples Collected By: Mike PAPP [illegible]

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 SIM	TO-15 SCAN	TO-3	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type: Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
NRec-IA-032312	3/23/12	1016	1016	—	—	24000	1200	X							X				
NRec-SS-032312	↓	1016	1016	29.5	4.0	24036	0275		X					X			X		
AA-032312	↓	1027	1027	28.5	2.5	24248	1153	X								X			

NRec-IA-032312: no vacuum gauge on controller.

Temperature (Fahrenheit)	Interior	Ambient
Start		
Stop		

Pressure (Inches of Hg)	Interior	Ambient
Start		
Stop		

*IPA analysis on SS samples only.

Special Instructions/QC Requirements & Comments:
Target Analyte List: Tetrachloroethylene; TCE; c-1,2-DCE; t-1,2-DCE; Vinyl Chloride; 1,1,1-TCA; 1,1-DCA; Chloroethane; IPA

Samples Shipped by:		Date/Time:	Samples Received by: FED EX
Samples Relinquished by:	FED EX	Date/Time: 3/28/12 1015	Received by:
Relinquished by:		Date/Time:	Received by:

Lab Use Only: Shipper Name: Opened by: Condition:

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 340-1240-1

Login Number: 1240

List Source: TestAmerica Los Angeles

List Number: 1

Creator: Freitag, Kevin R

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: AECOM
CANISTER SERIAL #: 34001197
DATE CLEANED: 340-1105
CLIENT SAMPLE #: PRROffice-IA-032312
SITE LOCATION: PRR Donagiac

VFR ID: 24177
Duration of comp. : 24 Hrs. / mins.
Flow setting: 3.5-4.0 ml/min
Initials: [illegible]

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[redacted]	30"	3/20/12	[illegible]
INITIAL FIELD VACUUM	0904 ~~2911~~	29.5	3/22/12	MJP
FINAL FIELD READING	0904	4.0	3/23/12	MJP

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.63	03-29-12	[illegible]
FINAL PRESSURE (PSIA)	24.33	03-29-12	[illegible]

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: AECOM
CANISTER SERIAL #: 340000044
DATE CLEANED: 340-975
CLIENT SAMPLE #: PRROffice-SS-032312
SITE LOCATION: PRR Dowagiac

VFR ID: 24229
Duration of comp. : 24 Hrs. / mins.
Flow setting: 3.5-4.0 ml/min
Initials: [illegible]

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[redacted]	30"	3/20/12	[illegible]
INITIAL FIELD VACUUM	0910	28.5	3/22/12	NJP
FINAL FIELD READING	0910	2.0	3/23/12	NJP

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.78	03-29-12	[illegible]
FINAL PRESSURE (PSIA)	24.40	03-29-12	[illegible]

Pressurization Gas: He

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: AECOM
CANISTER SERIAL #: 34000617
DATE CLEANED: 340-1105
CLIENT SAMPLE #: JMT-IA-032312
SITE LOCATION: PRR Donaghie

VFR ID: 24152
Duration of comp. : 24 (Hrs.) / mins.
Flow setting: 3.5-4.0 ml/min
Initials: [illegible]

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[redacted]	30"	3/20/12	[illegible]
INITIAL FIELD VACUUM	0924	30"	3/22/12	MJP
FINAL FIELD READING	0924	3.0	3/23/12	MJP

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	13.32	03-29-12	[illegible]
FINAL PRESSURE (PSIA)	25.09	03-29-12	[illegible]

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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CANISTER FIELD DATA RECORD

CLIENT: AECOM

CANISTER SERIAL #: 34000047

DATE CLEANED: 340-975

CLIENT SAMPLE #: JMT-SS-032312

SITE LOCATION: PRR Donaqiac

VFR ID: 24124

Duration of comp. : 24 Hrs. / mins.

Flow setting: 3.5-4.0 ml/min

Initials: [illegible]

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[redacted]	30"	3/20/12	[illegible]
INITIAL FIELD VACUUM	0924	30"	3/22/12	MP
FINAL FIELD READING	0924	5.0	3/23/12	MP

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.71	03-29-12	[illegible]
FINAL PRESSURE (PSIA)	24.34	03-29-12	[illegible]

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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CANISTER FIELD DATA RECORD

CLIENT: AECOM
CANISTER SERIAL #: 340000607
DATE CLEANED: 340-1105
CLIENT SAMPLE #: VH-IA-032312
SITE LOCATION: PRR Donagiac

VFR ID: 24128
Duration of comp.: 24 Hrs. / mins.
Flow setting: 3.5-4.0 ml/min
Initials: [illegible]

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[redacted]	30"	3/20/12	[illegible]
INITIAL FIELD VACUUM	0946	30"	3/22/12	MJP
FINAL FIELD READING	0946	5.0	3/23/12	MJP

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.66	03-29-12	[illegible]
FINAL PRESSURE (PSIA)	24.44	03-29-12	[illegible]

Pressurization Gas: N2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: AECOM
CANISTER SERIAL #: 34000308
DATE CLEANED: 340-975
CLIENT SAMPLE #: VH-SS-032312
SITE LOCATION: PRR Donaghee

VFR ID: 24198
Duration of comp.: 24 (Hrs.) / mins.
Flow setting: 3.5-4.0 ml/min
Initials: [illegible]

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[redacted]	30"	3/20/12	[illegible]
INITIAL FIELD VACUUM	0946	30"	3/22/12	MJP
FINAL FIELD READING	0946	4.5	3/23/12	MJP

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	13.03	03-29-12	[illegible]
FINAL PRESSURE (PSIA)	25.20	03-29-12	[illegible]

Pressurization Gas: N2

COMMENTS: Pressure Helium 3-29-12 @ 1405
4.60/25.51
3-29-12 @ 1728
5.61/24.77

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: AECOM
CANISTER SERIAL #: 34001222
DATE CLEANED: 340-1105
CLIENT SAMPLE #: MP-IA-032312
SITE LOCATION: PRR Donaqiec

VFR ID: 24001
Duration of comp. : 24 Hrs. / mins.
Flow setting: 3.5-4.0 ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	3/20/12	
INITIAL FIELD VACUUM	0938	29"	3/22/12	MJP
FINAL FIELD READING	0938	4.0	3/23/12	MJP

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.53	03-29-12	
FINAL PRESSURE (PSIA)	24.29	03-29-12	

Pressurization Gas:

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: AECOM

CANISTER SERIAL #: 34000137

DATE CLEANED: 340-975

CLIENT SAMPLE #: MP-SS-032312

SITE LOCATION: PRR Dowagiac

VFR ID: 24084

Duration of comp. : 24 Hrs. / mins.

Flow setting: 3.5-4.0 ml/min

Initials: [illegible]

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[redacted]	30"	3/20/12	[illegible]
INITIAL FIELD VACUUM	0936	30"	3/22/12	MJP
FINAL FIELD READING	0936	3.0	3/22/12	MJP

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	13.21	03-29-12	[illegible]
FINAL PRESSURE (PSIA)	24.77	03-29-12	[illegible]

Pressurization Gas: _____

COMMENTS: Pressure Nitrogen 3/29/12 [illegible] 1640 4.53/24.12

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: AECOM
CANISTER SERIAL #: 34000608
DATE CLEANED: 340-1105
CLIENT SAMPLE #: QT-IA-032312
SITE LOCATION: PRR Douagiac

VFR ID: 24244
Duration of comp.: 24 Hrs. / mins.
Flow setting: 3.5-4.0 ml/min
Initials: [illegible]

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[redacted]	30"	3/20/12	[illegible]
INITIAL FIELD VACUUM	0958	30"	3/20/12	MJP
FINAL FIELD READING	0958	3.0	3/23/12	MJP

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	13.34	03-29-12	[illegible]
FINAL PRESSURE (PSIA)	24.90	03-29-12	[illegible]

Pressurization Gas: N2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: AECOM
CANISTER SERIAL #: 34000070
DATE CLEANED: 340-975
CLIENT SAMPLE #: QT-SS-032312
SITE LOCATION: PRR Donaghue

VFR ID: 24006
Duration of comp. : 24 Hrs. / mins.
Flow setting: 3.5-4.0 ml/min
Initials: [illegible]

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[redacted]	30"	3/20/12	[illegible]
INITIAL FIELD VACUUM	0957	30"	3/20/12	MJP
FINAL FIELD READING	0957	4.5	3/23/12	MJP

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.98	03-29-12	[illegible]
FINAL PRESSURE (PSIA)	24.51	03-29-12	[illegible]

Pressurization Gas: N_2

COMMENTS: Pressure Dilution 03-29-12 [illegible] 1648
2.71/24.78

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: AECOM
CANISTER SERIAL #: 34001276
DATE CLEANED: 340-1105
CLIENT SAMPLE #: SRec-IA-032312
SITE LOCATION: PRR Donaglac

VFR ID: 24078
Duration of comp.: 24 Hrs. / mins.
Flow setting: 3.5-4.0 ml/min
Initials: [illegible]

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[redacted]	30"	3/20/12	[illegible]
INITIAL FIELD VACUUM	1005	unk.	3/22/12	MJD
FINAL FIELD READING	1005	unk	3/23/12	MJD

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.72	3/29/12	[illegible]
FINAL PRESSURE (PSIA)	24.97	3/29/12	[illegible]

Pressurization Gas: N_2

COMMENTS: Gauge provided could not correctly read vacuum.

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: AECOM

CANISTER SERIAL #: 340000444

DATE CLEANED: 340-975

CLIENT SAMPLE #: SRec - SS - 032312

SITE LOCATION: PRR Donagiac

VFR ID: 24060

Duration of comp. : 24 Hrs. / mins.

Flow setting: 3.5-4.0 ml/min

Initials: [illegible]

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[redacted]	30"	3/20/12	[illegible]
INITIAL FIELD VACUUM	1005	30"	3/22/12	MJP
FINAL FIELD READING	1005	4.0	3/23/12	MJP

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	13.32	3/29/12	[illegible]
FINAL PRESSURE (PSIA)	23.73	3/29/12	[illegible]

Pressurization Gas: N2

COMMENTS: Pressure Nitrogen, 9-29-12 @ 1650
6.02/25.05

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: AECOM

CANISTER SERIAL #: 34001200

DATE CLEANED: 340-1105

CLIENT SAMPLE #: NRec-IA-032312

SITE LOCATION: PRR Donaghue

VFR ID: 24247

Duration of comp. : 24 (Hrs.) / mins.

Flow setting: 3.5-4.0 ml/min

Initials: [illegible]

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	3/20/12	[illegible]
INITIAL FIELD VACUUM	1016	unk.	3/22/12	MJP
FINAL FIELD READING	1016	unk.	3/23/12	MJD

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	13.00	3/29/12	[illegible]
FINAL PRESSURE (PSIA)	24.73	3/29/12	[illegible]

Pressurization Gas: N_2

COMMENTS: Gauge provided by Lab could not read vacuum correctly.

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: AECOM

CANISTER SERIAL #: 34000275

DATE CLEANED: 340-975

CLIENT SAMPLE #: NRec-SS-032312

SITE LOCATION: PRR Dowagiac

VFR ID: 24036

Duration of comp.: 24 Hrs. / mins.

Flow setting: 3.5-4.0 ml/min

Initials: [illegible]

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	3/20/12	[illegible]
INITIAL FIELD VACUUM	1016	29.5"	3/22/12	MJP
FINAL FIELD READING	1016	4.0	3/23/12	MJP

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.91	3/29/12	[illegible]
FINAL PRESSURE (PSIA)	24.00	3/29/12	[illegible]

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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CANISTER FIELD DATA RECORD

CLIENT: AECOM
CANISTER SERIAL #: 34001153
DATE CLEANED: 340-1105
CLIENT SAMPLE #: AA - 032312
SITE LOCATION: PRR Donaqioc

VFR ID: 24248
Duration of comp. : 24 Hrs. / mins.
Flow setting: 3.5-4.0 ml/min
Initials:

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[redacted]	30"	3/20/12	[illegible]
INITIAL FIELD VACUUM	1027	28.5"	3/22/12	MJD
FINAL FIELD READING	1027	2.5	3/23/12	MJD

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.86	3/29/12	[illegible]
FINAL PRESSURE (PSIA)	24.05	3/29/12	[illegible]

Pressurization Gas: N2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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US EPA ARCHIVE DOCUMENT

CANISTER QC CERTIFICATION

TestAmerica

Certification Type: TO-15

Date Cleaned/Batch A3/7/12G 340-975

Date of QC 03-09-12

Data File Number MS03094 (MS4)

CANISTER ID NUMBERS

34001490*	34000047
1491	0070
1492	0044
1493	0137
1494	0308
0444	0275

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

Reviewed By: _____ Date: 03-09-12

US EPA ARCHIVE DOCUMENT

CANISTER QC CERTIFICATION

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Certification Type: TO-15 SIM BATCH

Date Cleaned/Batch: A3/17/12A 340-1105

Date of QC: 031912

Data File Number: M1303192A.D

CANISTER ID NUMBERS

34001198*	34000612
1199	1276
1201	1153
1196	0608
1197	0607
1222	1200

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

Reviewed By: [signature]

Date: 03/20/12

N:\CON\DOCS\TestAmerica DOCs\Can QC Cert 20070712.doc

US EPA ARCHIVE DOCUMENT

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Los Angeles Job No.: 340-975-1

SDG No.:

Client Sample ID: 34001490 Lab Sample ID: 340-975-1

Matrix: Air Lab File ID: MB03094.d

Analysis Method: TO-15 Date Collected: 03/07/2012 00:00

Sample wt/vol: 250(mL) Date Analyzed: 03/09/2012 14:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 927 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		0.80	0.30
107-02-8	Acrolein	ND		4.0	2.0
107-13-1	Acrylonitrile	ND		2.0	0.50
107-05-1	Allyl chloride	ND		0.50	0.25
71-43-2	Benzene	ND		0.30	0.15
100-44-7	Benzyl chloride	ND		0.80	0.25
75-27-4	Bromodichloromethane	ND		0.30	0.15
75-25-2	Bromoform	ND		0.40	0.20
74-83-9	Bromomethane	ND		0.80	0.20
106-99-0	1,3-Butadiene	ND		0.80	0.40
106-97-8	n-Butane	ND		0.50	0.25
78-93-3	2-Butanone (MEK)	ND		0.80	0.40
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0	0.80
104-51-8	n-Butylbenzene	ND		0.50	0.25
135-98-8	sec-Butylbenzene	ND		0.50	0.25
98-06-6	tert-Butylbenzene	ND		0.80	0.40
75-15-0	Carbon disulfide	ND		0.80	0.20
56-23-5	Carbon tetrachloride	ND		0.80	0.25
75-00-3	Chloroethane	ND		0.80	0.20
108-90-7	Chlorobenzene	ND		0.30	0.10
75-45-6	Chlorodifluoromethane	ND		1.0	0.40
67-66-3	Chloroform	ND		0.30	0.10
74-87-3	Chloromethane	ND		0.80	0.20
95-49-8	2-Chlorotoluene	ND		0.50	0.25
110-82-7	Cyclohexane	ND		0.50	0.25
124-48-1	Dibromochloromethane	ND		0.40	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.20
74-95-3	Dibromomethane	ND		0.40	0.20
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroetha ne	ND		0.40	0.20
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.15
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.15
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.15
107-06-2	1,2-Dichloroethane	ND		0.80	0.30

US EPA ARCHIVE DOCUMENT

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Los Angeles Job No.: 340-975-1

SDG No.:

Client Sample ID: 34001490 Lab Sample ID: 340-975-1

Matrix: Air Lab File ID: MB03094.d

Analysis Method: TO-15 Date Collected: 03/07/2012 00:00

Sample wt/vol: 250(mL) Date Analyzed: 03/09/2012 14:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 927 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.20
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.20
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.20
78-87-5	1,2-Dichloropropane	ND		0.40	0.20
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.20
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.20
123-91-1	1,4-Dioxane	ND		0.80	0.40
141-78-6	Ethyl acetate	ND		0.30	0.15
100-41-4	Ethylbenzene	ND		0.40	0.15
622-96-8	4-Ethyltoluene	ND		0.40	0.20
142-82-5	n-Heptane	ND		1.0	0.30
87-68-3	Hexachlorobutadiene	ND	*	0.40	0.20
110-54-3	n-Hexane	ND		1.0	0.40
591-78-6	2-Hexanone	ND		0.40	0.25
98-82-8	Isopropylbenzene	ND		0.80	0.25
99-87-6	4-Isopropyltoluene	ND		0.80	0.25
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.30
80-62-6	Methyl methacrylate	ND	*	0.40	0.20
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.20
75-09-2	Methylene chloride	ND		0.40	0.20
98-83-9	alpha-Methylstyrene	ND		0.40	0.15
91-20-3	Naphthalene	ND	*	2.0	0.80
111-65-9	n-Octane	ND		0.40	0.15
109-66-0	n-Pentane	ND		1.0	0.30
115-07-1	Propylene	ND	*	1.0	0.50
103-65-1	n-Propylbenzene	ND		0.50	0.20
100-42-5	Styrene	ND		0.40	0.20
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.10
127-18-4	Tetrachloroethene	ND		0.40	0.20
109-99-9	Tetrahydrofuran	ND		2.0	0.50
108-88-3	Toluene	ND		0.40	0.20
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40	0.20
120-82-1	1,2,4-Trichlorobenzene	ND	*	2.5	1.0
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.15
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.20

US EPA ARCHIVE DOCUMENT

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Los Angeles Job No.: 340-975-1

SDG No.:

Client Sample ID: 34001490 Lab Sample ID: 340-975-1

Matrix: Air Lab File ID: MB03094.d

Analysis Method: TO-15 Date Collected: 03/07/2012 00:00

Sample wt/vol: 250(mL) Date Analyzed: 03/09/2012 14:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 927 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.40	0.20
75-69-4	Trichlorofluoromethane	ND		0.40	0.15
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.20
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	0.25
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.25
540-84-1	2,2,4-Trimethylpentane	ND		0.50	0.20
108-05-4	Vinyl acetate	ND		0.80	0.20
593-60-2	Vinyl bromide	ND		0.40	0.20
75-01-4	Vinyl chloride	ND		0.20	0.10
179601-23-1	m,p-Xylene	ND		0.80	0.20
95-47-6	o-Xylene	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	94		70-130

US EPA ARCHIVE DOCUMENT

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSG\20120308-666.b\MB03094.d		
Lims ID:	340-975-A-1	Client ID:	34001490
Inject. Date:	09-Mar-2012 14:05:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	340-975-A-1		
Misc. Info.:	340-0000666-008		
Operator:	DLK	Instrument ID:	MSG
Vol. Injected:	1.0000	ALS Bottle#:	14
Lims Batch ID:	927	Lims Sample ID:	8
Detector:	MS SCAN		

Method:	\\Lachrom\ChromData\MSG\20120308-666.b\TO-15_MSG.m		
Method Label:	TO-15/TO-14A		
Last Update:	09-Mar-2012 14:50:57	Calib Date:	13-Feb-2012 14:57:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSG\20120210-488.b\IC02139.d		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Process Host:	CORP-CTX-12		

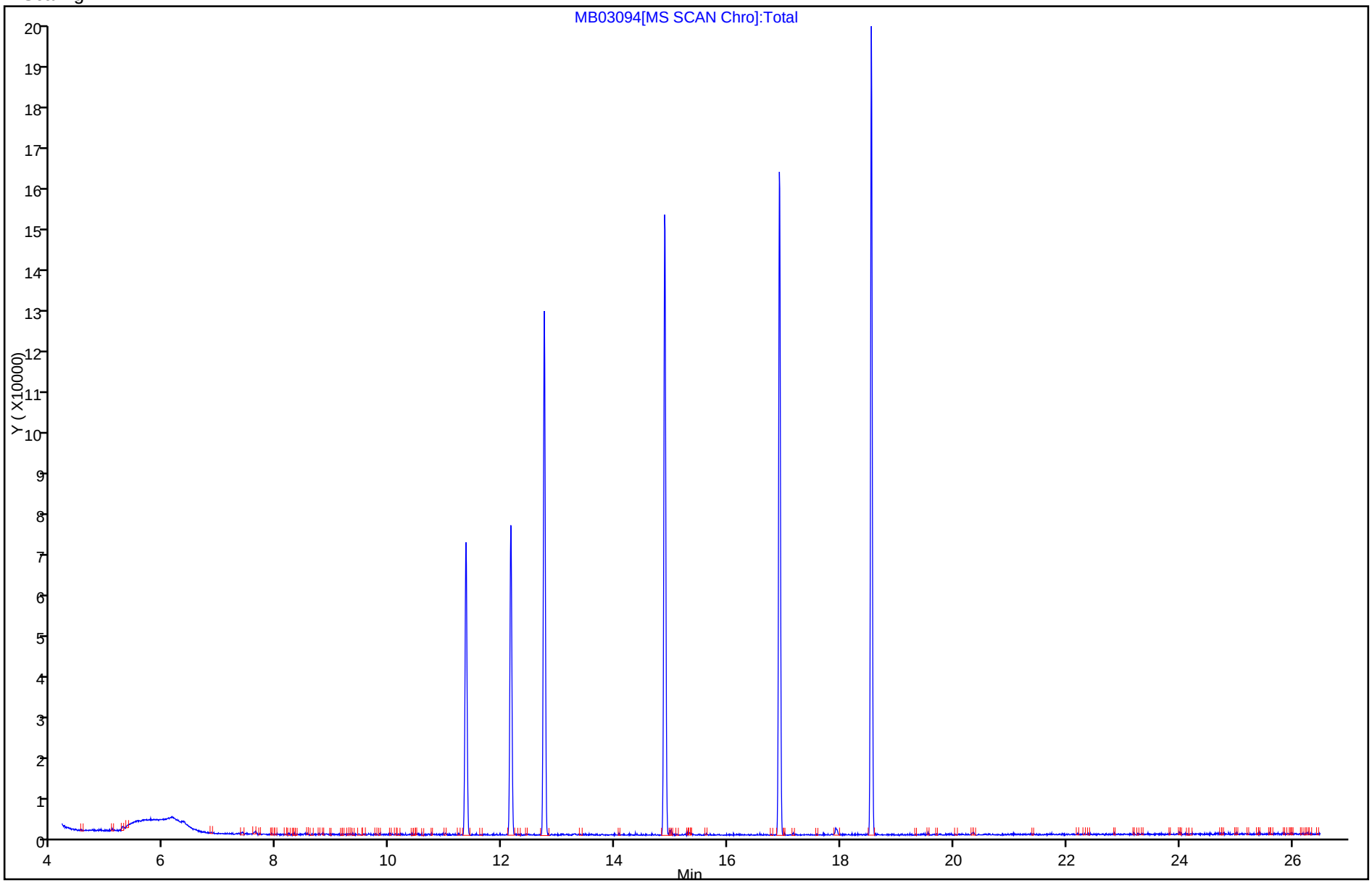
First Level Reviewer: kammererd Date: 09-Mar-2012 14:50:57

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
* 87 Chlorobromomethane (IS)	49	11.356	11.362	-0.006	93	51700	4.00	
$ 90 1,2-Dichloroethane-d4 (Surr)	65	12.149	12.155	-0.006	0	53902	4.00	
* 85 1,4-Difluorobenzene	114	12.745	12.751	-0.006	96	117486	4.00	
$ 89 Toluene-d8 (Surr)	98	14.878	14.884	-0.006	96	122657	3.77	
* 86 Chlorobenzene-d5 (IS)	117	16.912	16.912	0.0	92	103419	4.00	
$ 88 4-Bromofluorobenzene (Surr)	95	18.542	18.542	0.0	78	86292	3.82	

US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

Report Date: 09-Mar-2012 14:50:57 Chrom Revision: 2.0 17-Jan-2012 17:19:58
Data File: \\Lachrom\ChromData\MSG\20120308-666.b\MB03094.d
Injection Date: 09-Mar-2012 14:05:30 Limit Group: TO-15-TO-15_MOD_ICAL
Client ID: 34001490 Instrument ID: MSG
Lims Batch ID: 927 Lims Sample ID: 8
Operator ID: DLK
Column Type: RTX-Volatiles Column Dia: 0.32 mm
Y Scaling:



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Los Angeles Job No.: 340-1105-1

SDG No.:

Client Sample ID: 34001198 Lab Sample ID: 340-1105-1

Matrix: Air Lab File ID: MB03192A.D

Analysis Method: TO-15 SIM Date Collected: 03/17/2012 00:00

Sample wt/vol: 1182(mL) Date Analyzed: 03/19/2012 21:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 1038 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.0050
100-44-7	Benzyl chloride	ND	*	0.10	0.050
75-27-4	Bromodichloromethane	ND		0.012	0.0035
56-23-5	Carbon tetrachloride	ND		0.0050	0.0025
108-90-7	Chlorobenzene	ND		0.020	0.0028
75-00-3	Chloroethane	ND		0.045	0.010
67-66-3	Chloroform	ND		0.014	0.0031
74-87-3	Chloromethane	ND		0.10	0.050
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.0080	0.0040
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.020
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.020
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.020
75-71-8	Dichlorodifluoromethane	ND		0.010	0.0050
75-34-3	1,1-Dichloroethane	ND		0.0050	0.0025
107-06-2	1,2-Dichloroethane	ND		0.0050	0.0025
75-35-4	1,1-Dichloroethene	ND		0.010	0.0050
156-59-2	cis-1,2-Dichloroethene	ND		0.014	0.0025
156-60-5	trans-1,2-Dichloroethene	ND		0.014	0.0050
78-87-5	1,2-Dichloropropane	ND		0.020	0.0060
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0060
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0060
123-91-1	1,4-Dioxane	ND	*	0.10	0.025
100-41-4	Ethylbenzene	ND		0.020	0.0030
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND	*	0.025	0.012
75-09-2	Methylene Chloride	ND		0.12	0.020
91-20-3	Naphthalene	ND	*	0.013	0.0070
100-42-5	Styrene	ND		0.030	0.0050
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.0065
127-18-4	Tetrachloroethene	ND		0.020	0.0050
108-88-3	Toluene	ND		0.020	0.0050
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0050
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.025
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0050

US EPA ARCHIVE DOCUMENT

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Los Angeles Job No.: 340-1105-1

SDG No.:

Client Sample ID: 34001198 Lab Sample ID: 340-1105-1

Matrix: Air Lab File ID: MB03192A.D

Analysis Method: TO-15 SIM Date Collected: 03/17/2012 00:00

Sample wt/vol: 1182(mL) Date Analyzed: 03/19/2012 21:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 1038 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-00-5	1,1,2-Trichloroethane	ND		0.018	0.0050
79-01-6	Trichloroethene	ND		0.0050	0.0025
75-69-4	Trichlorofluoromethane	ND	*	0.045	0.0070
75-01-4	Vinyl chloride	ND		0.0050	0.0025
179601-23-1	m,p-Xylene	ND		0.040	0.0050
95-47-6	o-Xylene	ND		0.020	0.0035

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130

US EPA ARCHIVE DOCUMENT

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSD\20120319-741.b\MB03192A.D		
Lims ID:	340-1105-A-1	Client ID:	34001198
Inject. Date:	19-Mar-2012 21:28:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	340-1105-a-1		
Misc. Info.:	340-0000741-005		
Operator:	LY	Instrument ID:	MSD
Vol. Injected:	1.0000	ALS Bottle#:	15
Lims Batch ID:	1038	Lims Sample ID:	5
Detector:	MS SCAN		

Method:	\\Lachrom\ChromData\MSD\20120319-741.b\TO15_MSD.m		
Method Label:	TO-15 SIM		
Last Update:	20-Mar-2012 09:26:30	Calib Date:	13-Mar-2012 16:08:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSD\20120312-689.b\IC03139.D		
Limit Group:	TO-15_SIM_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Process Host:	CORP-CTX-12		

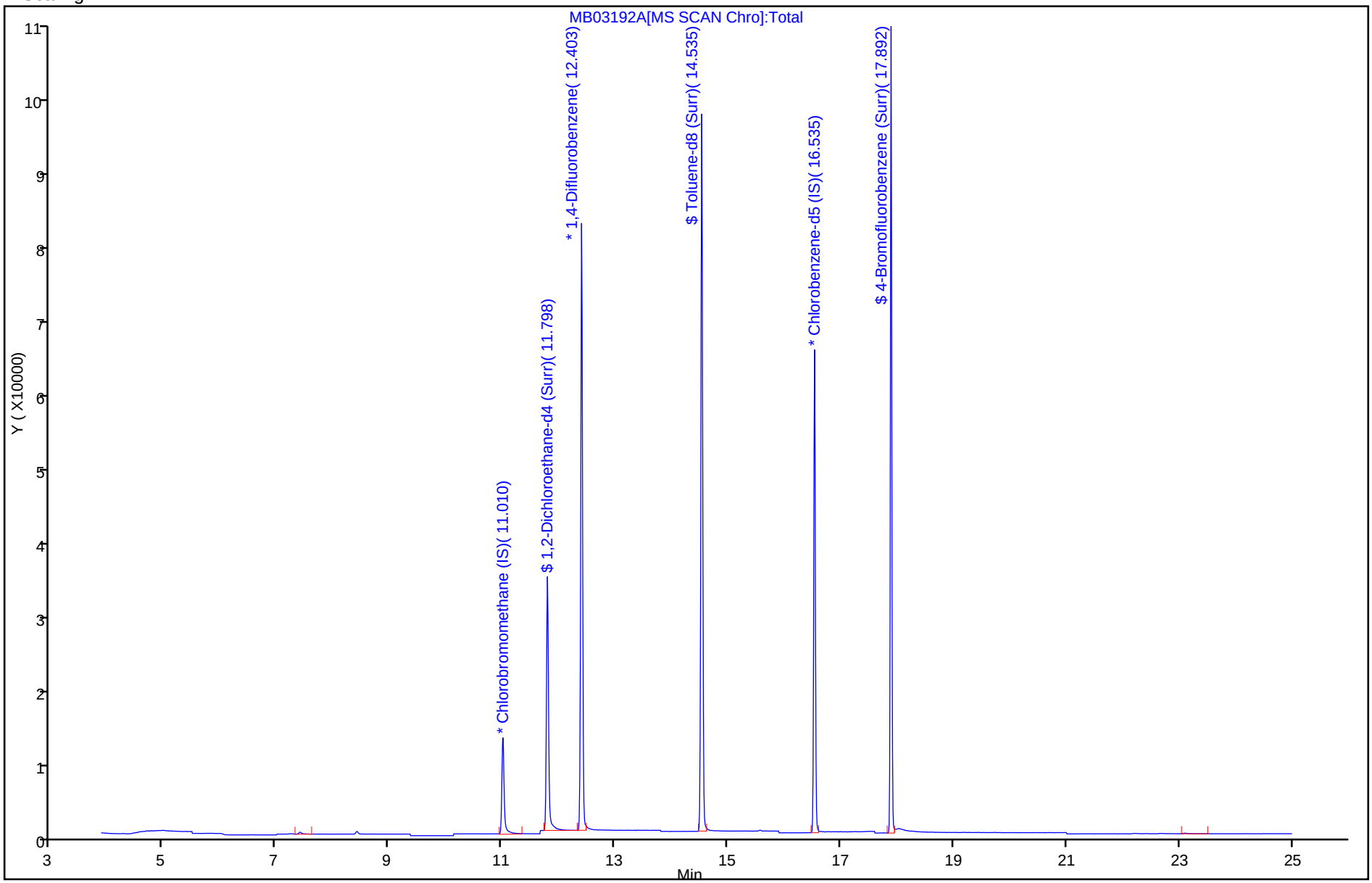
First Level Reviewer: yabutl Date: 20-Mar-2012 09:26:30

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
* 31 Chlorobromomethane (IS)	130	11.010	11.002	0.008	100	35916	2.00	
$ 35 1,2-Dichloroethane-d4 (Surr)	65	11.798	11.798	0.0	100	80982	2.03	
* 3 1,4-Difluorobenzene	114	12.403	12.403	0.0	100	115314	2.00	
$ 29 Toluene-d8 (Surr)	98	14.535	14.525	0.010	100	113352	1.94	
* 25 Chlorobenzene-d5 (IS)	117	16.535	16.535	0.0	100	118184	2.00	
$ 2 4-Bromofluorobenzene (Surr)	95	17.892	17.883	0.009	100	91899	1.90	

US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

Report Date: 20-Mar-2012 09:26:57 Chrom Revision: 2.0 17-Jan-2012 17:19:58
Data File: \\Lachrom\ChromData\MSD\20120319-741.b\MB03192A.D
Injection Date: 19-Mar-2012 21:28:30 Limit Group: TO-15_SIM_ICAL
Client ID: 34001198 Instrument ID: MSD
Lims Batch ID: 1038 Lims Sample ID: 5
Operator ID: LY
Column Type: Rtx-Volatiles Column Dia: 0.32 mm
Y Scaling:



4/9/2012