UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
Science and Ecosystem Support Division
Enforcement and Investigations Branch
980 College Station Road
Athens, Georgia 30605-2720

August 19, 2016

4SESD-EIB

MEMORANDUM

SUBJECT: Grenada Manufacturing Vapor Intrusion Investigation
(a.k.a. Rockwell International Wheel and Trim)
Grenada, Mississippi
SESD Project # 16-0323

FROM: Tim Slagle
Superfund and Air Section

THRU: Laura Ackerman, Chief
Superfund and Air Section

TO: Brian Bastek, RCRA Project Manager
Resource Conservation & Restoration Division
Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, Georgia 30303-8960

Attached is a copy of the Grenada Manufacturing Vapor Intrusion Investigation Sampling Event Report, that was conducted in Grenada, Mississippi, May 2-6, 2016. If you have any questions or comments concerning the report, please call me at (706) 355-8741 or e-mail me at Slagle.Tim@epa.gov.

United States Environmental Protection Agency
Region 4
Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720

Grenada Manufacturing Vapor Intrusion Sampling Event
Report

Grenada, Mississippi
May 2016
Report Release August 2016
SESD Project Identification Number: 16-0323

Requestor: Brian Bastek
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Title and Approval Sheet

Title: Grenada Manufacturing Vapor Intrusion Sampling Event
Final Report

SESD Approving Official:

Laura Ackerman, Chief
Superfund and Air Section
Field Services Branch

08/19/16
Date

SESD Project Leader:

Tim Slagle, Regional Expert
Superfund and Air Section
Field Services Branch

8/19/2016
Date

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1.0 Introduction

This document was prepared for the purpose of reporting the results of vapor intrusion air samples and meteorological data collected May 2-6, 2016, by the USEPA Science and Ecosystem Support Division (SESD) in the Eastern Heights neighborhood located directly north of the Grenada Manufacturing Site which is an active facility located at 635 Hwy 332, in Grenada, Mississippi. This sampling investigation was conducted in conjunction with the EPA Environmental Response Team (ERT) Trace Atmospheric Gas Analyzer (TAGA) Mobile Laboratory. The investigation was requested by Brian Bastek, Project Manager, Resource Conservation & Restoration Division, EPA Region 4, Atlanta, Georgia.

SESD was tasked to collect indoor air and sub-slab soil gas samples at 18 residences. In addition SESD collected ambient air samples at four locations and established a temporary meteorological site for collection of wind speed and direction data. The samples were analyzed for Volatile Organic Compounds (VOCs) by the USEPA, SESD, Analytical Support Branch (ASB) in Athens, Georgia.

SESD worked cooperatively with the EPA Environmental Response Team (ERT) to collect sub-slab soil gas samples for on-site analysis by the TAGA Mobile Laboratory. In addition, the TAGA lab conducted analysis of residential indoor air using a flexible tube that pumped the air from inside the home to a mass spectrometer that is capable of providing real-time VOC results while on-site.

The data from the sampling event will be used to inform the Project Manager (PM), Brian Bastek, of a potential pathway of indoor air contaminants seen in previous sampling events. The data generated by the study and represented in the subsequent sections will be evaluated by the EPA Region 4 PM. Air results will be compared to screening levels calculated by EPA Region 4 Superfund Scientific Services Section. Decisions for future actions on the site will be made by the PM.

The following personnel participated in the investigation:

Personnel	Organization	Responsibilities
Tim Slagle	USEPA/SESD	Project Leader, Sampler
Landon Pruitt	USEPA/SESD	Safety Officer, Sampler, Sample Processing

2.0 Site Background

The manufacturing facility was constructed by Lyon in 1961 and sold to Rockwell International Corporation (Rockwell) in 1966. Rockwell's Automotive Division operated a wheel cover manufacturing facility at the site from 1966 to 1985 when the plant and property were sold to Textron Automotive Company (Textron), formerly Randall Textron. The Automotive Division was spun off from Rockwell in 1997 to form Meritor.

In 1999, Textron sold the operations and property to Grenada Manufacturing, LLC (Grenada Manufacturing), who continued to operate the wheel cover plant until 2008 when portions of the plant and property were leased to ICE Industries, Inc. (ICE). Throughout most of the site history, the facility was used to manufacture automobile wheel covers. Following ICE's lease of the premises, the facility was converted to a stamping plant, providing stamp-formed parts for various industries.
Since 1989 EPA has been involved with the site and there have been a number of investigations and sampling events to discover and delineate a trichloroethene (TCE) contaminated groundwater plume and possible vapor intrusion and other air quality issues. There are several areas of concern that are potential sources for the contamination including several lagoons, an above ground storage tank (TCE), a below ground storage tank (toluene), an on-site landfill, and a waste water treatment plant.

3.0 Summary

SESD was tasked to collect indoor air and sub-slab soil gas samples in 18 homes. Access was denied to the inside of (b) (6) (Sample Station GM124) by the resident on the day of sampling; however, the resident allowed the East Ambient Air Monitoring Sample Location (Sample Station GM11) to remain in the backyard. Ambient air samples were collected at 4 locations for the 3 day time period that the indoor air samples were collected.

On May 4, 2016 the TAGA indoor air screening of (b) (6) (Sample Station GM123) showed a source of benzene inside the home that could not be identified. The 24-hour indoor air sample collected by SESD that was started on May 4, 2016 at 13:30 showed an indoor air concentration of benzene of 57 ug/m^3.

The ambient air concentrations of the BTEX chemicals; (benzene, toluene, ethylbenzene, ortho-xylene and meta/para-xylenes) and 1,2,4-trimethylbenzene which is a gasoline additive are all components of vehicle emissions. The ambient air concentrations of these VOCs were typical of an urban location and are likely to be found in the ambient air near roadways.

The sample locations and information are listed in Tables 1 and 2.

All samples were analyzed for the VOCs represented in Table 3.

There were no detections in the air trip blanks for this investigation.

4.0 Results and Discussion

4.1 Field Observations

Sunny to partly cloudy skies with no rain showers were present in the area during sampling. Winds were observed mostly out of the east during the sampling event.

On May 3, 2016 an individual was observed caulking and painting the exterior of (b) (6) (Sample Station GM110) shortly after the indoor sample was deployed, he was asked to cease until the sampling was finished and complied with the request.

On May 5, 2016 a gasoline odor emanating from residents replacing an automobile gas tank at (b) (6) (Sample Station GM119) was observed.

Additional field observations are recorded in the Sampling Logbook in Appendix E.

4.2 VOC Analytical Results

SESD collected 56 samples for this investigation. There were 15 ambient air samples collected from 4 stations, including 4 co-located duplicate ambient air samples. SESD also collected 19 sub-slab soil gas samples and 19 indoor air samples from 17 homes including co-located duplicate and split samples. In addition, 3 trip blank samples were collected.

The samples were analyzed for a group of site specific VOCs listed in Table 2 in Appendix B. The 4 ambient air stations and 17 residences sampled can be seen on the map in Figure 1 in Appendix A. The summarized analytical results of each residence can be seen in Tables 4 thru 20 in Appendix B. These tables are organized in the order that the indoor air and soil gas samples were started. The full analytical report from the lab is available in Appendix D.

At (b) (6) (Sample Station GM119) an automobile gas tank was replaced in the carport the morning following the day in which the 24-hour sample was started. This action may have contributed to this location having the highest concentrations of; (meta- and/or para-) xylene at 22 ug/m^3, 1,2,4-trimethylbenzene at 9.2 ug/m^3, ethyl benzene at 6.8 ug/m^3, toluene at 53 ug/m^3 and ortho-xylene at 8.6 ug/m^3.

The TAGA indoor air screening of (b) (6) (Sample Station GM123) showed a source of benzene inside the home that could not be identified. Analysis of the 24-hour indoor air sample collected by SESD that was started on the same day had a concentration of benzene of 57 ug/m^3, which is the highest concentration of benzene detected during the investigation.

On May 3, 2016 an individual was observed caulking and painting the exterior of (b) (6) (Sample Station GM110) shortly after the indoor sample was deployed,

he was asked to cease until the sampling was finished, and complied. There were no abnormally high concentrations of indoor air VOCs when compared to other indoor air locations. It is difficult to ascertain as to whether the painting and caulking had any effect on the indoor air concentrations of VOCs.

The minimum detection limits (MDLs), which are based on the analyte and the lab equipment, as well as method procedures required for the analysis of the samples are listed in Table 3 for each VOC analyte. The minimum reporting limits (MRLs) are included in the analytical results tables in Appendix C for the non-detected target compounds. The "non-detects" are followed by a "U" (data qualifier) that denotes the analyte was not detected above the listed numerical value. That listed value is the associated MRL and may vary between samples based on the dilutions required to quantify the concentration of the VOC analytes accurately. Some of the MRLs listed for the non-detects may be larger than the screening levels, but if the VOC was detected above the MDL but below the MRL, it will be reported, but flagged with a "J" as an estimated concentration. Many of the analytical results are followed by an "O" which denotes Other Data Qualifiers; refer to the list of Data Qualifiers at the front of the SESD Analytical Report contained in Appendix D.

5.0 Field Quality Control

Three air trip blanks were prepared by the ASB lab, transported with the sampling canisters, and handled the same as each air sample. There were no detections in any of the air trip blanks, the data can be seen in analytical results in Appendix D.

Analytical results associated with quality control samples are presented in Tables 21 to 23 in Appendix B. The data qualifier flags were removed for the sake of calculations and can be found in the Laboratory Analytical Report in Appendix D.

A co-located duplicate ambient air sample was collected at station GM01 on each of the three days of the investigation. The same analytes were detected in the primary sample versus the duplicate sample. Except on May 5, 2016; the duplicate sample (GM01AA30516) had vinyl chloride at a concentration of 0.14 ug/m^3 J which is very close to 0.13 ug/m^3 which is the MDL. This MDL was used for the calculation of percent difference due to the non-detection of the analyte. Absolute values of relative percent difference (RPD) of the 3 sets of primary and co-located samples were between 1.46% and 25.81%. The large percent difference can be attributed to low concentration analytes, which are estimated with a "J" flag and a Q-2 flag, meaning the concentration is greater than the MDL but less than the MRL. The RPD values for the co-located ambient air samples can be seen in Table 21 in Appendix B.

A co-located duplicate indoor air sample and a split sub-slab soil gas sample were collected at station GM107 located at (b) (6) [redacted] on May 3, 2016. The same analytes were detected in the primary sample versus the co-located duplicate indoor air sample. Absolute values of relative percent difference (RPD) of the indoor air primary

and co-located samples were between 0.00% and 12.50%. The same analytes were detected in the primary sample versus the split sub-slab soil gas sample. Absolute values of relative percent difference (RPD) of the sub-slab soil gas primary and split samples were between 0.00% and 5.71%. The RPD values for the GM107 samples can be seen in Table 22 in Appendix B.

A co-located duplicate indoor air sample and a split sub-slab soil gas sample were also collected at station GM108 located at (b) (6) [redacted] on May 4, 2016. The same analytes were detected in the primary sample versus the co-located duplicate indoor air sample. Absolute values of relative percent difference (RPD) of the indoor air primary and co-located samples were between 0.00% and 14.29%. The same analytes were detected in the primary sample versus the split sub-slab soil gas sample. Absolute values of relative percent difference (RPD) of the sub-slab soil gas primary and split samples were between 0.00% and 10.91%. The RPD values for the GM107 samples can be seen in Table 22 in Appendix B.

RPDs were calculated using the following equation:

$$RPD = \frac{Split\ Sample\ Result - Primary\ Sample\ Result}{Average\ of\ Split\ and\ Primary\ Sample\ Results} * 100\%$$

The RPDs in the co-located duplicate air samples and sub-slab soil gas samples are relatively low and are not significant enough to adversely affect the outcome of the project.

6.0 Methodology

A Quality Assurance Project Plan (QAPP) approved in April, 2016 for this project was used to guide site activities. The following SESD procedures were cited in the QAPP and used in this study:

SESDPROC-303-R5 Ambient Air Sampling
SESDPROC-307-R3 Soil Gas Sampling
SESDPROC-110-R4 Global Positioning System
SESDPROC-005-R2 Sample and Evidence Management
SESDPROC-010-R5 Log Books
SESDPROC-205-R3 Field Equipment Cleaning and Decontamination

The specific procedures and processes used are detailed in the subsequent sections. The samples were sent to the EPA Analytical Support Branch (ASB) for analysis.

6.1 Sub-Slab Soil Gas Sampling

SESD worked cooperatively with the EPA Environmental Response Team (ERT) to collect sub-slab soil gas samples from 17 residences (see Figure 1). ERT operates EPA's

Trace Atmospheric Gas Analyzer (TAGA) Mobile Laboratory. The TAGA lab contains a gas chromatograph/mass spectrometer (GC/MS) that is capable of providing real-time VOC results while on-site.
ERT installed permanent sampling ports in the floor of each residence (except GM119 in which the port was removed after sampling), as close to the center of the structure as possible and collected samples using Tedlar® bags. The installation of the sampling ports and the on-site collection and analysis of samples conducted by the TAGA team was addressed in a separate QAPP and report prepared by David Mickunas, TAGA Laboratories Coordinator.

ERT used an electric drill to bore a hole thru the floor slab to install a stainless steel sampling port. The grout that is used to seal the port into the floor slab was allowed to cure for 24 hours before sampling.

On the following day ERT and SESD collected samples by connecting a short length of ¼ inch diameter Teflon® tubing to the port. To insure the seal around the sampling port was not leaking a helium filled stainless steel shroud was placed over the sampling port. The tubing was passed thru the shroud. The shroud was filled with ultra-pure helium while a soil gas sample was collected into a Tedlar® bag for on-site sample analysis of helium content and VOCs by the TAGA laboratory. The helium concentration in the Tedlar® bag had to be less than ten percent of the helium concentration in the shroud to insure integrity of the sampling port. None of the sampling ports failed the leak test. SESD then connected the sampling tube to a flow device attached to a 6-liter passivated sampling canister. The canister was filled over a period of approximately 30-minutes depending on soil conditions. Then the sample tube was removed, the sampling port capped and the floor covering replaced. The canister was returned to SESD for analysis of the analytes listed in Table 2.

6.2 Indoor Air and Ambient Air Sampling

SESD collected 24-hour indoor air and ambient air samples using 6 liter passivated sampling canisters equipped with flow controlling devices. The indoor air samples were started immediately after the sub-slab soil gas sampling was completed. The indoor air samples were collected in the central portion of the home where the residents spend most of their time; usually the living, dining room or a hallway in the center of the house.

SESD collected ambient air samples at four locations around the perimeter of the study area. The ambient air samples were collected during the indoor air sampling interval, to assess the background concentrations of VOCs contained in the ambient air that may be infiltrating the indoor air. No designated background sample was collected per the Project Manager's request. The ambient air monitoring locations are designated by yellow triangles on Figure 1 and are listed below.

GM12 - North Ambient Air Location
GM01 – South Ambient Air Location (co-located duplicate)
GM13 – East ambient Air Location

GM11 – West Ambient Air Location

The ambient air samples were collected on the three days when indoor air samples were also collected. Each 24-hour indoor air sample has two consecutive 24-hour ambient air samples associated with it. Collection of the ambient air and indoor air samples began as the canisters were deployed at each location and thus had varying start times. When comparing the ambient and indoor air sample data, it was necessary to use data from the ambient air samples that bracketed the 24-hour collection period of the indoor air samples; therefore, the indoor air sample results for each of the residences shown in Tables 4 to 20, have 48-hour ambient air sample data that the 24-hour indoor air sample was collected within.

All sampling and QA/QC procedures for field activities were conducted in accordance with the EPA Region 4 SESD Field Branches Quality Systems and Technical Procedures. Sample custody was maintained by SESD for transport to the SESD laboratory for analysis.

Analysis of the samples was conducted by the SESD laboratory in accordance with *EPA Compendium Method TO-15, Determination of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters and Analyzed by Gas Chromatography /Mass Spectrometry (GC/MS)*, January 1999. Laboratory QA/QC procedures were conducted in accordance with the guidelines incorporated in the analytical methods.

6.3 Meteorological Data

A temporary meteorological station (GM10) was established by SESD at the capped equalization pond which is located south of the Eastern Heights neighborhood on the Grenada Manufacturing property. This is a secure site that is fenced and guarded and has been used as meteorological station in previous investigations. The site is a large open level field that is free of obstructions that might influence data collection. The wind speed and direction data collected during the investigation shows that the wind was generally from the west. The hourly wind data is divided into the three time periods that the ambient air samples were collected in. The hourly meteorological data can be seen in Tables 24 to 26 in Appendix C.

Table 24 displays the wind speed and direction data for the period 07:00 on May 3, 2016 to 08:00 on May 4, 2016. The data shows that the hourly wind speed average varied from 0.1 miles per hour (mph) to 4.9 mph with gusts up to 17 mph. The wind direction was predominantly from the west.

Table 25 displays the wind speed and direction data for the period 07:00 on May 4, 2016 to 08:00 on May 5, 2016. The data shows that the hourly wind speed average varied from 0.3 miles per hour (mph) to 7.8 mph with gusts up to 24 mph. The wind direction was predominantly from the west.

Table 26 displays the wind speed and direction data for the period 07:00 on May 5, 2016 to 08:00 on May 6, 2016. The data shows that the hourly wind speed average varied from 0.3 miles per hour (mph) to 6.1 mph with gusts up to 20 mph. The wind direction was predominantly from the west to northwest.

7.0 Conclusions

This project was conducted to inform decisions about the potential risk posed to the residences of a neighborhood just north of the former Grenada Manufacturing facility.

The 16 VOC target analytes requested for this investigation are listed Table 3 in Appendix B. Two of the analytes; 1,1,2-trichloroethane and trans-1,2-dichloroethene were not detected in any of samples for this investigation.

Six of the analytes are commonly found in gasoline and diesel fuel. 1,2,4-trimethylbenzene which is a gasoline additive and the BTEX chemicals (benzene, toluene, ethylbenzene, ortho-xylene and meta/para-xylenes) are all components of vehicle emissions and are likely to be seen at ambient air stations near roadways.

Ten analytes are chlorinated; 1,1,2-trichloroethane, 1,1-dichloroethene, 1,2-dichloroethane, chloroform, methylene chloride, tetrachloroethene (PCE), trichloroethene (TCE), vinyl chloride, cis-1,2-dichloroethene, and trans-1,2-dichloroethene.

The data for each of the 17 residences is presented in Tables 4 to 20 in Appendix B. These tables each have three elements;

- The VOC concentrations (detections) at the 4 ambient air stations for the two days that the indoor air sample was collected.
- The VOC detections in the 24-hour indoor air sample for the residence.
- The VOC detections in the sub-slab soil gas sample for the residence.

Each of the detections are highlighted in yellow, to aid in comparison of the concentrations between the three different matrices; ambient air, indoor air and sub-slab soil gas.

Photographs of each sampling station are presented in images 1 to 38 in Appendix C. Images 1 to 4 are the four ambient air sampling stations. Images 5 to 37 are the residential sub-slab soil gas and indoor air sampling stations. These photographs are arranged in order of sub-slab soil gas sample collection. In addition, each page represents a separate residence with the sub-slab soil gas sampling station at the top of the page and the indoor air sampling station at the bottom. Only one image (Image 9) was taken of sample station GM115 which included both the sub-slab and indoor air sampling stations and therefore a blank space was left at the bottom of the page to preserve the image continuity. Image 38 is of the meteorological station.

The Photograph Log, contains the photographs taken during this investigation (presented in contact sheet format) and the individual data for each photograph are in Appendix C.

7.1 Sub-Slab Soil Gas Sampling

VOCs were detected in each of the sub-slab soil gas samples collected for this investigation. The maximum and minimum concentrations, the total number of occurrences (samples) of each analyte, and the station location where the maximum concentration was detected are summarized in Chart 1 at the end of this section.

Ten of the 16 VOC target analytes were detected in the 19 sub-slab soil gas samples (17 locations plus 2 split samples).

PCE was detected in the sub-slab soil gas in 12 samples, the highest concentration was at (b) (6) Circle (GM113). The highest concentration of o-xylene was also detected at this location.

TCE was detected in the sub-slab soil gas in 3 samples, the highest concentration was at (b) (6) (GM107).

Benzene was detected in the sub-slab soil gas in 10 samples, the highest concentration was at (b) (6) (GM109). The highest concentration of (m- and/or p-) xylene and ethyl benzene was also detected at this location.

The highest concentrations of 1,2,4-trimethylbenzene, chloroform and toluene were detected in the sub-slab soil gas sample at (b) (6) . (GM120).

1,2-Dichloroethane was detected in the sub-slab soil gas in 2 samples, the highest concentration was at (b) (6) (GM117).

Six of the VOC target analytes were not detected in any of the sub-slab soil gas samples these were; 1,1,2-trichloroethane, 1,1-dichloroethene, methylene chloride, vinyl chloride, cis-1,2-dichloroethene and trans-1,2-dichloroethene.

Chart 1					
Sub-Slab Soil Gas Maximum and Minimum VOC Concentration Summary					
Analyte	Units	Maximum Concentration	Minimun Concentration	Total Occurances	Maximum Concentration Station ID
(m- and/or p-)Xylene	ug/m3	1.6	1.1	2	GM109
1,1,2-Trichloroethane	ug/m3	0	0	0	N/D
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	0	0	0	N/D
1,2,4-Trimethylbenzene	ug/m3	3.6	0.27	8	GM120
1,2-Dichloroethane	ug/m3	0.52	0.48	2	GM117
Benzene	ug/m3	3.2	0.14	10	GM109
Chloroform	ug/m3	12	0.21	18	GM120
Ethyl Benzene	ug/m3	0.7	0.65	2	GM109
Methylene Chloride	ug/m3	0	0	0	N/D
Tetrachloroethene (Tetrachloroethylene)	ug/m3	1.7	0.35	12	GM113
Toluene	ug/m3	14	0.4	13	GM120
Trichloroethene (Trichloroethylene)	ug/m3	1.4	0.93	3	GM107
Vinyl chloride	ug/m3	0	0	0	N/D
cis-1,2-Dichloroethene	ug/m3	0	0	0	N/D
o-Xylene	ug/m3	1.2	0.19	9	GM113
trans-1,2-Dichloroethene	ug/m3	0	0	0	N/D

7.2 Ambient Air Sampling

VOCs were detected in each of the ambient air samples collected for this investigation. The maximum and minimum concentrations, the total number of occurrences (samples) of each analyte, and the station location where the maximum concentration was detected are summarized in Chart 2 at the end of this section.

Eight of the 16 VOC target analytes were detected in the 15 ambient air samples (5 locations including co-located duplicate sample for 3 days).

The highest concentration of benzene was at the South Ambient Air Location which is next to a gravel road used by heavy diesel trucks. Benzene was detected in all of the ambient air samples except one, which was sample station GM 13 on May 4, 2016. The highest concentrations of toluene, ethylbenzene, the xylenes and, 1,2,4-trimethylbenzene were in the 24-hour ambient air sample started 07:47 on May 5, 2016 at the North Ambient Air Location. However, the automobile gas tank replacement that was happening at (b) (6) (GM119) which was upwind 200 feet away likely was the major source in the area.

Toluene was detected in every ambient air sample collected. Three of the seven chlorinated analytes were detected in the ambient air samples; chloroform was detected in one sample, vinyl chloride was detected in four samples, and cis-1,2-dichloroethene was detected in ten samples.

Eight VOC target analytes were not detected in any of the ambient air samples; these were: 1,1,2-trichloroethane, 1,1-dichloroethene, 1,2-dichloroethane, chloroform, methylene chloride, PCE, TCE and trans-1,2-dichloroethene.

Chart 2

Ambient Air Maximum and Minimum VOC Concentration Summary

Analyte	Units	Maximum Concentration	Minimun Concentration	Total Occurances	Maximum Concentration Station ID
(m- and/or p-)Xylene	ug/m3	2.3	0.48	7	GM12
1,1,2-Trichloroethane	ug/m3	0	0	0	N/D
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	0	0	0	N/D
1,2,4-Trimethylbenzene	ug/m3	0.92	0.33	4	GM12
1,2-Dichloroethane	ug/m3	0	0	0	N/D
Benzene	ug/m3	0.63	0.38	14	GM01
Chloroform	ug/m3	0.9	0.9	1	N/D
Ethyl Benzene	ug/m3	0.7	0.28	4	GM12
Methylene Chloride	ug/m3	0	0	0	N/D
Tetrachloroethene (Tetrachloroethylene)	ug/m3	0	0	0	N/D
Toluene	ug/m3	4.4	0.44	15	GM12
Trichloroethene (Trichloroethylene)	ug/m3	0	0	0	N/D
Vinyl chloride	ug/m3	0.19	0.14	4	GM12
cis-1,2-Dichloroethene	ug/m3	0.45	0.22	10	GM01
o-Xylene	ug/m3	0.92	0.24	5	GM12
trans-1,2-Dichloroethene	ug/m3	0	0	0	N/D

7.3 Indoor Air Sampling

VOCs were detected in each of the indoor air samples collected for this investigation. The maximum and minimum concentrations, the total number of occurrences (samples) of each analyte, and the station location where the maximum concentration was detected are summarized in Chart 3 at the end of this section.

Twelve of the 16 target analytes were detected in the 19 indoor air samples (17 locations plus 2 co-located duplicate samples).

The highest indoor air concentration of benzene was at (b) (6) (GM123) which was initially discovered by the TAGA lab during the investigation.

Toluene, m-and/or p-xylene, benzene, and chloroform were detected in all 19 indoor air samples collected. The highest concentrations of toluene, ethylbenzene, the xylenes and, 1,2,4-trimethylbenzene were detected in the sample collected at (b) (6) (GM119) which is where the automobile gas tank replacement was occurring.

Six of the ten chlorinated analytes were detected in the indoor air samples; 1,1-dichloroethene was detected in one sample, 1,2-dichloroethane was detected in 17 samples, chloroform was detected in all 19 samples, methylene chloride was detected in one sample, PCE was detected in one sample, and cis-1,2-dichloroethene was detected in three samples.

Four of the VOC target analytes were not detected in any of the indoor air samples these were; 1,1,2-trichloroethane, TCE, vinyl chloride and trans-1,2-dichloroethene.

Chart 3					
Indoor Air Maximum and Minimum VOC Concentration Summary					
Analyte	Units	Maximum Concentration	Minimun Concentration	Total Occurances	Maximum Concentration Station ID
(m- and/or p-)Xylene	ug/m3	22	0.5	19	GM119
1,1,2-Trichloroethane	ug/m3	0	0	0	N/D
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	0.33	0.33	1	GM121
1,2,4-Trimethylbenzene	ug/m3	9.2	0.26	18	GM119
1,2-Dichloroethane	ug/m3	4.1	0.32	17	GM108
Benzene	ug/m3	57	0.67	19	GM123
Chloroform	ug/m3	4.7	0.25	19	GM118
Ethyl Benzene	ug/m3	6.8	0.25	17	GM119
Methylene Chloride	ug/m3	1.4	1.4	1	GM112
Tetrachloroethene (Tetrachloroethylene)	ug/m3	0.72	0.72	1	GM110
Toluene	ug/m3	53	0.4	19	GM119
Trichloroethene (Trichloroethylene)	ug/m3	0	0	0	N/D
Vinyl chloride	ug/m3	0	0	0	N/D
cis-1,2-Dichloroethene	ug/m3	0.28	0.21	3	GM123
o-Xylene	ug/m3	8.6	0.26	18	GM119
trans-1,2-Dichloroethene	ug/m3	0	0	0	N/D

8.0 References

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2. EPA Region 4 SESD ASB. *SESD Analytical Support Branch Laboratory Operations and Quality Assurance Manual*, April 2015.
3. USEPA. *EPA Compendium Method TO-15, Determination Of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*, January 1999.
4. EPA Region 4 SESD. *Field Branches Quality System and Technical Procedures (Latest Versions).* http://www.epa.gov/region4/sesd/fbqstp/. Webpage last updated December 14, 2015.
5. USEPA. *Quality Assurance Project Plan for Grenada Manufacturing Ambient Air Sampling Event SESD Project #16-0323.* April 2016.
6. USEPA. *Regional Screening Levels Summary Table – November 2015.* https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables-november-2015. Webpage last updated March 7, 2016.

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Appendix A

Figures

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Figure 1 - Sample Locations
Grenada Manufacturing Site
Formerly Rockwell International Wheel and Trim
SESD Project # 16-0323
US EPA SESD
Field Services Branch
980 College Station Road
Athens, GA 30605
Met Station
Ambient Air Stations
(b)
(6)
N
0
75
150
300 Feet
Site
Met Station
Past Equalization Pond
Current Stormwater Retention
Canadian National
Kennedy Cir
Tallahoma Dr
Lyon Dr
Pittsburg Cir
Rockwell Cir
GM01
GM02
GM03
GM04
GM05
GM06
GM07
GM08
GM09
GM10
GM11
GM12
GM13
GM14
GM15
GM16
GM17
GM18
GM19
GM20
GM21
GM22
GM23
GM24
MS-332
1258

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Appendix B

Tables

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Table 1 – Station and Sample Information

Station ID	Sample ID	Location/Address	Latitude*	Longitude*	Matrix
GM01	GM01AA0516	South ambient air location	33.80506895	-89.80015824	Ambient Air
GM11	GM11AA0516	West ambient air location	33.80636768	-89.80076134	
GM12	GM12AA0516	North ambient air location	33.80595308	-89.79941396	
GM13	GM13AA0516	East ambient air location	33.80511017	-89.79804096	
GM107	GM107SS0516	(b) (6)	33.80507488	-89.79958934	Subslab Soil Gas
	GM107IA0516				Indoor Air
GM108	GM108SS0516	(b) (6)	33.80495638	-89.79941821	Subslab Soil Gas
	GM108IA0516				Indoor Air
GM109	GM109SS0516	(b) (6)	33.80515783	-89.79911873	Subslab Soil Gas
	GM109IA0516				Indoor Air
GM110	GM110SS0516	(b) (6)	33.80500378	-89.79898326	Subslab Soil Gas
	GM110IA0516				Indoor Air
GM111	GM111SS0516	(b) (6)	33.80490898	-89.79866952	Subslab Soil Gas
	GM111IA0516				Indoor Air
GM112	GM112SS0516	(b) (6)	33.80503933	-89.79845561	Subslab Soil Gas
	GM112IA0516				Indoor Air
GM113	GM113SS0516	(b) (6)	33.8052704	-89.79844848	Subslab Soil Gas
	GM113IA0516				Indoor Air
GM114	GM114SS0516	(b) (6)	33.80540075	-89.79862674	Subslab Soil Gas
	GM114IA0516				Indoor Air
GM115	GM115SS0516	(b) (6)	33.80551924	-89.79876935	Subslab Soil Gas
	GM115IA0516				Indoor Air
GM116	GM116IA0516	(b) (6)	33.80578586	-89.79914013	Subslab Soil Gas
	GM116SS0516				Indoor Air
GM117	GM117SS0516	(b) (6)	33.80558442	-89.79930412	Subslab Soil Gas
	GM117IA0516				Indoor Air
GM118	GM118SS0516	(b) (6)	33.80544222	-89.79945386	Subslab Soil Gas
	GM118IA0516				Indoor Air
GM119	GM119SS0516	(b) (6)	33.80573846	-89.79997438	Subslab Soil Gas
	GM119IA0516				Indoor Air
GM120	GM1020SS0516	(b) (6)	33.80590436	-89.79983177	Subslab Soil Gas
	GM120IA0516				Indoor Air
GM121	GM121SS0516	(b) (6)	33.8060584	-89.7996963	Subslab Soil Gas
	GM121IA0516				Indoor Air
GM122	GM122SS0516	(b) (6)	33.80594583	-89.80039507	Subslab Soil Gas
	GM122IA0516				Indoor Air
GM123	GM123SS0516	(b) (6)	33.80607618	-89.80064464	Subslab Soil Gas
	GM123IA0516				Indoor Air

* Latitudes and Longitudes for indoor air and sub-slab soil gas samples are recorded for the center of the house, the samples may not be taken directly at that spot.

Table 2 – QA/QC Sample Information

Station ID	Sample ID	Location/Address	Latitude*	Longitude*	Matrix
GM01	GM01AAD0516	South ambient air location	33.80506895	-89.80015824	Ambient Air
	GM01AAD20516				
	GM01AAD30516				
GM107	GM107IAD0516	(b) (6)	33.80507488	-89.79958934	Indoor Air
	GM107SSS0516				Subslab Soil Gas
GM108	GM108IAD0516	(b) (6)	33.80495638	-89.79941821	Indoor Air
	GM108SSSD0516				Subslab Soil Gas
#R4DART#	GMTBA0116	-	-	-	Trip Blank Air
#R4DART#	GMTBB0116	-	-	-	Trip Blank Air
#R4DART#	GMTBC0116	-	-	-	Trip Blank Air

* Latitudes and Longitudes for indoor air and sub-slab soil gas samples are recorded for the center of the house, the samples may not be taken directly at that spot.

Table 3 – VOC Analyte List

Constituent	Air Minimum Detection Limit (MDLs)* ($\mu g/m^3$)
Benzene	0.067
Chloroform	0.10
Dichloroethane, 1,2-	0.11
Dichloroethene, 1,1-	0.078
Dichloroethene, cis-1,2-	0.083
Dichloroethene, trans-1,2-	0.087
Ethylbenzene	0.092
Methylene chloride	0.077
Tetrachloroethene	0.14
Toluene	0.08
Trichloroethane, 1,1,2-	0.12
Trichloroethene	0.11
Trimethylbenzene, 1,2,4-	0.11
Vinyl chloride	0.053
(m- and/or p-) Xylene	0.19
o-Xylenes	0.093

***** Detection limits are based on the analytical methods and instrumentation used by SESD Analytical Support Branch (ASB)

TABLE 4

(b) (6)

Sample Station GM110
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
May 2016

		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		(b) (6)	
Station ID		GM12		GM01				GM13		GM11		GM110	
Sample ID		GM12AA0516	GM12AA2016	GM01AA0516	GM01AAD0516	GM01AA2016	GM01AAD2016	GM13AA0516	GM13AA2016	GM11AA0516	GM11AA2016	GM110IA0516	GM110SS0516
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Soil Gas
Sample Date		5/3/2016 7:37	5/4/2016 7:36	5/3/2016 7:12		5/4/2016 7:17		5/3/2016 7:25	5/4/2016 7:27	5/3/2016 7:50	5/4/2016 7:49	5/3/2016 9:30	5/3/2016 8:50
Analyte	Units												
(m- and/or p-)Xylene	ug/m3	0.56 J,O	0.84 J,O	4.7 U	4.6 U	4.5 U	4.6 U	4.6 U	4.7 U	0.48 J,O	4.8 U	8.4	3.8 U
1,1,2-Trichloroethane	ug/m3	2.7 U	2.8 U	2.9 U	2.9 U	2.8 U	2.9 U	2.8 U	2.9 U	2.9 U	3.0 U	2.8 U	2.4 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.8 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	1.6 U
1,2,4-Trimethylbenzene	ug/m3	2.5 U	0.33 J,O	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.6 U	2.6 U	2.7 U	0.72 J,O	0.71 J,O
1,2-Dichloroethane	ug/m3	1.9 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.0 U	2.1 U	2.1 U	2.1 U	0.83 J,O	1.7 U
Benzene	ug/m3	0.59 J,O	0.55 J,O	0.57 J,O	0.61 J,O	0.44 J,O	0.41 J,O	0.41 J,O	1.7 U	0.63 J,O	0.46 J,O	1.3 J,O	0.86 J,O
Chloroform	ug/m3	2.4 U	0.90 J,O	2.5 U	2.5 U	2.4 U	2.5 U	2.5 U	2.5 U	2.5 U	2.6 U	0.58 J,O	0.34 J,O
Ethyl Benzene	ug/m3	2.1 U	0.28 J,O	2.3 U	2.3 U	2.2 U	2.3 U	2.3 U	2.3 U	2.3 U	2.4 U	2.6	1.9 U
Methylene Chloride	ug/m3	1.6 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.4 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.3 U	3.4 U	3.6 U	3.5 U	3.4 U	3.5 U	3.5 U	3.6 U	3.6 U	3.6 U	0.72 J,O	0.61 J,O
Toluene	ug/m3	1.9	2.1	0.96 J,O	1.0 J,O	0.69 J,O	0.68 J,O	0.72 J,O	0.44 J,O	1.1 J,O	0.69 J,O	5.9	1.0 J,O
Trichloroethene (Trichloroethylene)	ug/m3	2.6 U	2.7 U	2.8 U	2.8 U	2.7 U	2.8 U	2.8 U	2.8 U	2.8 U	2.9 U	2.7 U	2.3 U
Vinyl chloride	ug/m3	1.2 U	0.19 J,O	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.4 U	1.3 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	1.9 U	0.22 J,O	2.1 U	2.0 U	0.28 J,O	0.29 J,O	2.0 U	2.1 U	0.24 J,O	0.28 J,O	2.0 U	1.7 U
o-Xylene	ug/m3	0.24 J,O	0.38 J,O	2.3 U	2.3 U	2.2 U	2.3 U	2.3 U	2.3 U	2.3 U	2.4 U	1.5 J,O	0.22 J,O
trans-1,2-Dichloroethene	ug/m3	2.0 U	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.1 U	1.8 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	Definition
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 5

(b) (6)

Sample Station GM114
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
May 2016

		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		(b) (6)	
Station ID		GM12		GM01				GM13		GM11		GM114	
Sample ID		GM12AA0516	GM12AA2016	GM01AA0516	GM01AAD0516	GM01AA2016	GM01AAD2016	GM13AA0516	GM13AA2016	GM11AA0516	GM11AA2016	GM114IA0516	GM114SS0516
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Soil Gas
Sample Date		5/3/2016 7:37	5/4/2016 7:36	5/3/2016 7:12		5/4/2016 7:17		5/3/2016 7:25	5/4/2016 7:27	5/3/2016 7:50	5/4/2016 7:49	5/3/2016 10:54	5/3/2016 10:13
Analyte	**Units**												
(m- and/or p-)Xylene	ug/m3	0.56 J,O	0.84 J,O	4.7 U	4.6 U	4.5 U	4.6 U	4.6 U	4.7 U	0.48 J,O	4.8 U	0.66 J,O	3.9 U
1,1,2-Trichloroethane	ug/m3	2.7 U	2.8 U	2.9 U	2.9 U	2.8 U	2.9 U	2.8 U	2.9 U	2.9 U	3.0 U	3.0 U	2.4 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.8 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U	2.0 U	1.6 U
1,2,4-Trimethylbenzene	ug/m3	2.5 U	0.33 J,O	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.6 U	2.6 U	2.7 U	2.7 U	0.41 J,O
1,2-Dichloroethane	ug/m3	1.9 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.0 U	2.1 U	2.1 U	2.1 U	0.44 J,O	1.7 U
Benzene	ug/m3	0.59 J,O	0.55 J,O	0.57 J,O	0.61 J,O	0.44 J,O	0.41 J,O	0.41 J,O	1.7 U	0.63 J,O	0.46 J,O	2.1	0.47 J,O
Chloroform	ug/m3	2.4 U	0.90 J,O	2.5 U	2.5 U	2.4 U	2.5 U	2.5 U	2.5 U	2.5 U	2.6 U	0.72 J,O	0.62 J,O
Ethyl Benzene	ug/m3	2.1 U	0.28 J,O	2.3 U	2.3 U	2.2 U	2.3 U	2.3 U	2.3 U	2.3 U	2.4 U	0.62 J,O	1.9 U
Methylene Chloride	ug/m3	1.6 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.3 U	3.4 U	3.6 U	3.5 U	3.4 U	3.5 U	3.5 U	3.6 U	3.6 U	3.6 U	3.6 U	0.38 J,O
Toluene	ug/m3	1.9	2.1	0.96 J,O	1.0 J,O	0.69 J,O	0.68 J,O	0.72 J,O	0.44 J,O	1.1 J,O	0.69 J,O	3.0	0.42 J,O
Trichloroethene (Trichloroethylene)	ug/m3	2.6 U	2.7 U	2.8 U	2.8 U	2.7 U	2.8 U	2.8 U	2.8 U	2.8 U	2.9 U	2.9 U	2.4 U
Vinyl chloride	ug/m3	1.2 U	0.19 J,O	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.4 U	1.4 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	1.9 U	0.22 J,O	2.1 U	2.0 U	0.28 J,O	0.29 J,O	2.0 U	2.1 U	0.24 J,O	0.28 J,O	2.1 U	1.7 U
o-Xylene	ug/m3	0.24 J,O	0.38 J,O	2.3 U	2.3 U	2.2 U	2.3 U	2.3 U	2.3 U	2.3 U	2.4 U	0.36 J,O	0.19 J,O
trans-1,2-Dichloroethene	ug/m3	2.0 U	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	1.8 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 6

[redacted]

Sample Station GM115
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
May 2016

		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		[redacted]	
Station ID		GM12		GM01				GM13		GM11		GM115	
Sample ID		GM12AA0516	GM12AA2516	GM01AA0516	GM01AAD0516	GM01AA2516	GM01AAD2516	GM13AA0516	GM13AA2516	GM11AA0516	GM11AA2516	GM115IA0516	GM115SS0516
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Soil Gas
Sample Date		5/3/2016 7:37	5/4/2016 7:36	5/3/2016 7:12		5/4/2016 7:17		5/3/2016 7:25	5/4/2016 7:27	5/3/2016 7:50	5/4/2016 7:49	5/3/2016 11:40	5/3/2016 11:08
Analyte	**Units**												
(m- and/or p-)Xylene	ug/m3	0.56 J,O	0.84 J,O	4.7 U	4.6 U	4.5 U	4.6 U	4.6 U	4.7 U	0.48 J,O	4.8 U	0.50 J,O	3.9 U
1,1,2-Trichloroethane	ug/m3	2.7 U	2.8 U	2.9 U	2.9 U	2.8 U	2.9 U	2.8 U	2.9 U	2.9 U	3.0 U	3.1 U	2.4 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.8 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U	2.1 U	1.6 U
1,2,4-Trimethylbenzene	ug/m3	2.5 U	0.33 J,O	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.6 U	2.6 U	2.7 U	0.42 J,O	2.2 U
1,2-Dichloroethane	ug/m3	1.9 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.0 U	2.1 U	2.1 U	2.1 U	2.2 U	1.7 U
Benzene	ug/m3	0.59 J,O	0.55 J,O	0.57 J,O	0.61 J,O	0.44 J,O	0.41 J,O	0.41 J,O	1.7 U	0.63 J,O	0.46 J,O	0.70 J,O	1.4 U
Chloroform	ug/m3	2.4 U	0.90 J,O	2.5 U	2.5 U	2.4 U	2.5 U	2.5 U	2.5 U	2.5 U	2.6 U	0.34 J,O	1.4 J,O
Ethyl Benzene	ug/m3	2.1 U	0.28 J,O	2.3 U	2.3 U	2.2 U	2.3 U	2.3 U	2.3 U	2.3 U	2.4 U	2.5 U	1.9 U
Methylene Chloride	ug/m3	1.6 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	1.8 U	1.9 U	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.3 U	3.4 U	3.6 U	3.5 U	3.4 U	3.5 U	3.5 U	3.6 U	3.6 U	3.6 U	3.8 U	3.0 U
Toluene	ug/m3	1.9	2.1	0.96 J,O	1.0 J,O	0.69 J,O	0.68 J,O	0.72 J,O	0.44 J,O	1.1 J,O	0.69 J,O	2.9	0.63 J,O
Trichloroethene (Trichloroethylene)	ug/m3	2.6 U	2.7 U	2.8 U	2.8 U	2.7 U	2.8 U	2.8 U	2.8 U	2.8 U	2.9 U	3.0 U	2.4 U
Vinyl chloride	ug/m3	1.2 U	0.19 J,O	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.4 U	1.4 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	1.9 U	0.22 J,O	2.1 U	2.0 U	0.28 J,O	0.29 J,O	2.0 U	2.1 U	0.24 J,O	0.28 J,O	2.2 U	1.7 U
o-Xylene	ug/m3	0.24 J,O	0.38 J,O	2.3 U	2.3 U	2.2 U	2.3 U	2.3 U	2.3 U	2.3 U	2.4 U	2.5 U	1.9 U
trans-1,2-Dichloroethene	ug/m3	2.0 U	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.3 U	1.8 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 7

(b) (6) [redacted]
Sample Station GM107
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
May 2016

		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		(b) (6) [redacted]			
Station ID		GM12		GM01				GM13		GM11		GM107			
Sample ID		GM12AA0516	GM12AA2051 6	GM01AA0516	GM01AAD0516	GM01AA2051 6	GM01AAD2051 6	GM13AA0516	GM13AA2051 6	GM11AA0516	GM11AA2051 6	GM107IA0516	GM107IAD0516	GM107SS0516	GM107SSS0516
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air		Soil Gas	
Sample Date		5/3/2016 7:37	5/4/2016 7:36	5/3/2016 7:12		5/4/2016 7:17		5/3/2016 7:25	5/4/2016 7:27	5/3/2016 7:50	5/4/2016 7:49	5/3/2016 12:43		5/3/2016 12:05	
Analyte	**Units**														
(m- and/or p-)Xylene	ug/m3	0.56 J,O	0.84 J,O	4.7 U	4.6 U	4.5 U	4.6 U	4.6 U	4.7 U	0.48 J,O	4.8 U	1.5 J,O	1.7 J,O	3.8 U	3.8 U
1,1,2-Trichloroethane	ug/m3	2.7 U	2.8 U	2.9 U	2.9 U	2.8 U	2.9 U	2.8 U	2.9 U	2.9 U	3.0 U	2.9 U	2.9 U	2.4 U	2.4 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.8 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U	1.6 U	1.6 U
1,2,4-Trimethylbenzene	ug/m3	2.5 U	0.33 J,O	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.6 U	2.6 U	2.7 U	0.39 J,O	0.39 J,O	0.28 J,O	0.27 J,O
1,2-Dichloroethane	ug/m3	1.9 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.0 U	2.1 U	2.1 U	2.1 U	0.92 J,O	0.87 J,O	1.7 U	1.7 U
Benzene	ug/m3	0.59 J,O	0.55 J,O	0.57 J,O	0.61 J,O	0.44 J,O	0.41 J,O	0.41 J,O	1.7 U	0.63 J,O	0.46 J,O	2.7	2.6	1.4 U	1.4 U
Chloroform	ug/m3	2.4 U	0.90 J,O	2.5 U	2.5 U	2.4 U	2.5 U	2.5 U	2.5 U	2.5 U	2.6 U	1.3 J,O	1.3 J,O	0.54 J,O	0.51 J,O
Ethyl Benzene	ug/m3	2.1 U	0.28 J,O	2.3 U	2.3 U	2.2 U	2.3 U	2.3 U	2.3 U	2.3 U	2.4 U	0.58 J,O	0.63 J,O	1.9 U	1.9 U
Methylene Chloride	ug/m3	1.6 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.4 U	1.4 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.3 U	3.4 U	3.6 U	3.5 U	3.4 U	3.5 U	3.5 U	3.6 U	3.6 U	3.6 U	3.5 U	3.6 U	2.9 U	2.9 U
Toluene	ug/m3	1.9	2.1	0.96 J,O	1.0 J,O	0.69 J,O	0.68 J,O	0.72 J,O	0.44 J,O	1.1 J,O	0.69 J,O	6.7	6.6	1.6 U	1.6 U
Trichloroethene (Trichloroethylene)	ug/m3	2.6 U	2.7 U	2.8 U	2.8 U	2.7 U	2.8 U	2.8 U	2.8 U	2.8 U	2.9 U	2.8 U	2.8 U	1.4 J,O	1.4 J,O
Vinyl chloride	ug/m3	1.2 U	0.19 J,O	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.4 U	1.3 U	1.3 U	1.1 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	1.9 U	0.22 J,O	2.1 U	2.0 U	0.28 J,O	0.29 J,O	2.0 U	2.1 U	0.24 J,O	0.28 J,O	2.0 U	2.1 U	1.7 U	1.7 U
o-Xylene	ug/m3	0.24 J,O	0.38 J,O	2.3 U	2.3 U	2.2 U	2.3 U	2.3 U	2.3 U	2.3 U	2.4 U	0.51 J,O	0.49 J,O	1.9 U	1.9 U
trans-1,2-Dichloroethene	ug/m3	2.0 U	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.1 U	2.2 U	1.8 U	1.8 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 8

(b) (6)

Sample Station GM109
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
May 2016

		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		(b) (6)	
Station ID		GM12		GM01				GM13		GM11		GM109	
Sample ID		GM12AA0516	GM12AA2016	GM01AA0516	GM01AAD0516	GM01AA2016	GM01AAD2016	GM13AA0516	GM13AA2016	GM11AA0516	GM11AA2016	GM109IA0516	GM109SS0516
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Soil Gas
Sample Date		5/3/2016 7:37	5/4/2016 7:36	5/3/2016 7:12		5/4/2016 7:17		5/3/2016 7:25	5/4/2016 7:27	5/3/2016 7:50	5/4/2016 7:49	5/3/2016 15:35	5/3/2016 14:33
Analyte	**Units**												
(m- and/or p-)Xylene	ug/m3	0.56 J,O	0.84 J,O	4.7 U	4.6 U	4.5 U	4.6 U	4.6 U	4.7 U	0.48 J,O	4.8 U	1.5 J,O	1.6 J,O
1,1,2-Trichloroethane	ug/m3	2.7 U	2.8 U	2.9 U	2.9 U	2.8 U	2.9 U	2.8 U	2.9 U	2.9 U	3.0 U	3.2 U	2.4 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.8 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U	2.2 U	1.6 U
1,2,4-Trimethylbenzene	ug/m3	2.5 U	0.33 J,O	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.6 U	2.6 U	2.7 U	0.38 J,O	1.5 J,O
1,2-Dichloroethane	ug/m3	1.9 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.0 U	2.1 U	2.1 U	2.1 U	0.99 J,O	0.48 J,O
Benzene	ug/m3	0.59 J,O	0.55 J,O	0.57 J,O	0.61 J,O	0.44 J,O	0.41 J,O	0.41 J,O	1.7 U	0.63 J,O	0.46 J,O	3.4	3.2 J,O
Chloroform	ug/m3	2.4 U	0.90 J,O	2.5 U	2.5 U	2.4 U	2.5 U	2.5 U	2.5 U	2.5 U	2.6 U	2.4 J,O	2.3 J,O
Ethyl Benzene	ug/m3	2.1 U	0.28 J,O	2.3 U	2.3 U	2.2 U	2.3 U	2.3 U	2.3 U	2.3 U	2.4 U	0.60 J,O	0.70 J,O
Methylene Chloride	ug/m3	1.6 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	1.8 U	1.9 U	1.4 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.3 U	3.4 U	3.6 U	3.5 U	3.4 U	3.5 U	3.5 U	3.6 U	3.6 U	3.6 U	3.9 U	2.9 U
Toluene	ug/m3	1.9	2.1	0.96 J,O	1.0 J,O	0.69 J,O	0.68 J,O	0.72 J,O	0.44 J,O	1.1 J,O	0.69 J,O	6.2	4.7 J,O
Trichloroethene (Trichloroethylene)	ug/m3	2.6 U	2.7 U	2.8 U	2.8 U	2.7 U	2.8 U	2.8 U	2.8 U	2.8 U	2.9 U	3.1 U	2.3 U
Vinyl chloride	ug/m3	1.2 U	0.19 J,O	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.4 U	1.5 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	1.9 U	0.22 J,O	2.1 U	2.0 U	0.28 J,O	0.29 J,O	2.0 U	2.1 U	0.24 J,O	0.28 J,O	2.3 U	1.7 U
o-Xylene	ug/m3	0.24 J,O	0.38 J,O	2.3 U	2.3 U	2.2 U	2.3 U	2.3 U	2.3 U	2.3 U	2.4 U	0.47 J,O	1.0 J,O
trans-1,2-Dichloroethene	ug/m3	2.0 U	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.4 U	1.8 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 9

[redacted]e
Sample Station GM112
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
May 2016

		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		[redacted]	
Station ID		GM12		GM01				GM13		GM11		GM112	
Sample ID		GM12AA0516	GM12AA2016	GM01AA0516	GM01AAD0516	GM01AA2016	GM01AAD2016	GM13AA0516	GM13AA2016	GM11AA0516	GM11AA2016	GM112IA0516	GM112SS0516
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Soil Gas
Sample Date		5/3/2016 7:37	5/4/2016 7:36	5/3/2016 7:12		5/4/2016 7:17		5/3/2016 7:25	5/4/2016 7:27	5/3/2016 7:50	5/4/2016 7:49	5/3/2016 15:47	5/3/2016 15:10
Analyte	**Units**												
(m- and/or p-)Xylene	ug/m3	0.56 J,O	0.84 J,O	4.7 U	4.6 U	4.5 U	4.6 U	4.6 U	4.7 U	0.48 J,O	4.8 U	0.63 J,O	3.9 U
1,1,2-Trichloroethane	ug/m3	2.7 U	2.8 U	2.9 U	2.9 U	2.8 U	2.9 U	2.8 U	2.9 U	2.9 U	3.0 U	3.1 U	2.4 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.8 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U	2.1 U	1.6 U
1,2,4-Trimethylbenzene	ug/m3	2.5 U	0.33 J,O	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.6 U	2.6 U	2.7 U	0.30 J,O	2.2 U
1,2-Dichloroethane	ug/m3	1.9 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.0 U	2.1 U	2.1 U	2.1 U	0.66 J,O	1.7 U
Benzene	ug/m3	0.59 J,O	0.55 J,O	0.57 J,O	0.61 J,O	0.44 J,O	0.41 J,O	0.41 J,O	1.7 U	0.63 J,O	0.46 J,O	1.3 J,O	1.4 U
Chloroform	ug/m3	2.4 U	0.90 J,O	2.5 U	2.5 U	2.4 U	2.5 U	2.5 U	2.5 U	2.5 U	2.6 U	2.2 J,O	0.21 J,O
Ethyl Benzene	ug/m3	2.1 U	0.28 J,O	2.3 U	2.3 U	2.2 U	2.3 U	2.3 U	2.3 U	2.3 U	2.4 U	0.26 J,O	1.9 U
Methylene Chloride	ug/m3	1.6 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	1.8 U	1.4 J,O	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.3 U	3.4 U	3.6 U	3.5 U	3.4 U	3.5 U	3.5 U	3.6 U	3.6 U	3.6 U	3.8 U	0.76 J,O
Toluene	ug/m3	1.9	2.1	0.96 J,O	1.0 J,O	0.69 J,O	0.68 J,O	0.72 J,O	0.44 J,O	1.1 J,O	0.69 J,O	2.6	1.7 U
Trichloroethene (Trichloroethylene)	ug/m3	2.6 U	2.7 U	2.8 U	2.8 U	2.7 U	2.8 U	2.8 U	2.8 U	2.8 U	2.9 U	3.0 U	2.4 U
Vinyl chloride	ug/m3	1.2 U	0.19 J,O	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.4 U	1.4 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	1.9 U	0.22 J,O	2.1 U	2.0 U	0.28 J,O	0.29 J,O	2.0 U	2.1 U	0.24 J,O	0.28 J,O	2.2 U	1.7 U
o-Xylene	ug/m3	0.24 J,O	0.38 J,O	2.3 U	2.3 U	2.2 U	2.3 U	2.3 U	2.3 U	2.3 U	2.4 U	0.26 J,O	1.9 U
trans-1,2-Dichloroethene	ug/m3	2.0 U	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.3 U	1.8 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 10

(b) (6)

Sample Station GM117
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
May 2016

		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		(b) (6)	
Station ID		GM12		GM01				GM13		GM11		GM117	
Sample ID		GM12AA0516	GM12AA2516	GM01AA0516	GM01AAD0516	GM01AA2516	GM01AAD2516	GM13AA0516	GM13AA2516	GM11AA0516	GM11AA2516	GM117IA0516	GM117SS0516
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Soil Gas
Sample Date		5/3/2016 7:37	5/4/2016 7:36	5/3/2016 7:12		5/4/2016 7:17		5/3/2016 7:25	5/4/2016 7:27	5/3/2016 7:50	5/4/2016 7:49	5/3/2016 16:48	5/3/2016 16:10
Analyte	**Units**												
(m- and/or p-)Xylene	ug/m3	0.56 J,O	0.84 J,O	4.7 U	4.6 U	4.5 U	4.6 U	4.6 U	4.7 U	0.48 J,O	4.8 U	0.98 J,O	3.8 U
1,1,2-Trichloroethane	ug/m3	2.7 U	2.8 U	2.9 U	2.9 U	2.8 U	2.9 U	2.8 U	2.9 U	2.9 U	3.0 U	3.0 U	2.4 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.8 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U	2.0 U	1.6 U
1,2,4-Trimethylbenzene	ug/m3	2.5 U	0.33 J,O	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.6 U	2.6 U	2.7 U	0.53 J,O	0.63 J,O
1,2-Dichloroethane	ug/m3	1.9 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.0 U	2.1 U	2.1 U	2.1 U	2.9	0.52 J,O
Benzene	ug/m3	0.59 J,O	0.55 J,O	0.57 J,O	0.61 J,O	0.44 J,O	0.41 J,O	0.41 J,O	1.7 U	0.63 J,O	0.46 J,O	1.2 J,O	0.79 J,O
Chloroform	ug/m3	2.4 U	0.90 J,O	2.5 U	2.5 U	2.4 U	2.5 U	2.5 U	2.5 U	2.5 U	2.6 U	0.39 J,O	0.67 J,O
Ethyl Benzene	ug/m3	2.1 U	0.28 J,O	2.3 U	2.3 U	2.2 U	2.3 U	2.3 U	2.3 U	2.3 U	2.4 U	0.41 J,O	1.9 U
Methylene Chloride	ug/m3	1.6 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.4 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.3 U	3.4 U	3.6 U	3.5 U	3.4 U	3.5 U	3.5 U	3.6 U	3.6 U	3.6 U	3.6 U	0.61 J,O
Toluene	ug/m3	1.9	2.1	0.96 J,O	1.0 J,O	0.69 J,O	0.68 J,O	0.72 J,O	0.44 J,O	1.1 J,O	0.69 J,O	4.3	1.6
Trichloroethene (Trichloroethylene)	ug/m3	2.6 U	2.7 U	2.8 U	2.8 U	2.7 U	2.8 U	2.8 U	2.8 U	2.8 U	2.9 U	2.9 U	2.3 U
Vinyl chloride	ug/m3	1.2 U	0.19 J,O	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.4 U	1.4 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	1.9 U	0.22 J,O	2.1 U	2.0 U	0.28 J,O	0.29 J,O	2.0 U	2.1 U	0.24 J,O	0.28 J,O	2.1 U	1.7 U
o-Xylene	ug/m3	0.24 J,O	0.38 J,O	2.3 U	2.3 U	2.2 U	2.3 U	2.3 U	2.3 U	2.3 U	2.4 U	0.48 J,O	0.23 J,O
trans-1,2-Dichloroethene	ug/m3	2.0 U	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	1.8 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 11

(b) (6)
Sample Station GM120
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
May 2016

		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		(b) (6)	
Station ID		GM12		GM01				GM13		GM11		GM120	
Sample ID		GM12AA0516	GM12AA2016	GM01AA0516	GM01AAD0516	GM01AA2016	GM01AAD2016	GM13AA0516	GM13AA2016	GM11AA0516	GM11AA2016	GM120IA0516	GM120SS0516
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Soil Gas
Sample Date		5/3/2016 7:37	5/4/2016 7:36	5/3/2016 7:12		5/4/2016 7:17		5/3/2016 7:25	5/4/2016 7:27	5/3/2016 7:50	5/4/2016 7:49	5/3/2016 17:40	5/3/2016 17:05
Analyte	**Units**												
(m- and/or p-)Xylene	ug/m3	0.56 J,O	0.84 J,O	4.7 U	4.6 U	4.5 U	4.6 U	4.6 U	4.7 U	0.48 J,O	4.8 U	1.2 J,O	4.0 U
1,1,2-Trichloroethane	ug/m3	2.7 U	2.8 U	2.9 U	2.9 U	2.8 U	2.9 U	2.8 U	2.9 U	2.9 U	3.0 U	2.7 U	2.5 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.8 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U	1.8 U	1.7 U
1,2,4-Trimethylbenzene	ug/m3	2.5 U	0.33 J,O	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.6 U	2.6 U	2.7 U	0.38 J,O	3.6
1,2-Dichloroethane	ug/m3	1.9 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.0 U	2.1 U	2.1 U	2.1 U	1.9 J,O	1.8 U
Benzene	ug/m3	0.59 J,O	0.55 J,O	0.57 J,O	0.61 J,O	0.44 J,O	0.41 J,O	0.41 J,O	1.7 U	0.63 J,O	0.46 J,O	0.98 J,O	0.51 J,O
Chloroform	ug/m3	2.4 U	0.90 J,O	2.5 U	2.5 U	2.4 U	2.5 U	2.5 U	2.5 U	2.5 U	2.6 U	0.40 J,O	12
Ethyl Benzene	ug/m3	2.1 U	0.28 J,O	2.3 U	2.3 U	2.2 U	2.3 U	2.3 U	2.3 U	2.3 U	2.4 U	0.46 J,O	2.0 U
Methylene Chloride	ug/m3	1.6 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	1.8 U	1.6 U	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.3 U	3.4 U	3.6 U	3.5 U	3.4 U	3.5 U	3.5 U	3.6 U	3.6 U	3.6 U	3.3 U	0.35 J,O
Toluene	ug/m3	1.9	2.1	0.96 J,O	1.0 J,O	0.69 J,O	0.68 J,O	0.72 J,O	0.44 J,O	1.1 J,O	0.69 J,O	7.6	14
Trichloroethene (Trichloroethylene)	ug/m3	2.6 U	2.7 U	2.8 U	2.8 U	2.7 U	2.8 U	2.8 U	2.8 U	2.8 U	2.9 U	2.6 U	2.4 U
Vinyl chloride	ug/m3	1.2 U	0.19 J,O	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.4 U	1.2 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	1.9 U	0.22 J,O	2.1 U	2.0 U	0.28 J,O	0.29 J,O	2.0 U	2.1 U	0.24 J,O	0.28 J,O	2.0 U	1.8 U
o-Xylene	ug/m3	0.24 J,O	0.38 J,O	2.3 U	2.3 U	2.2 U	2.3 U	2.3 U	2.3 U	2.3 U	2.4 U	0.49 J,O	0.30 J,O
trans-1,2-Dichloroethene	ug/m3	2.0 U	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.0 U	1.9 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 12

(b) (6) [redacted]
Sample Station GM121
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
May 2016

		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		(b) (6) [redacted]	
Station ID		GM12		GM01				GM13		GM11		GM121	
Sample ID		GM12AA0516	GM12AA2516	GM01AA0516	GM01AAD0516	GM01AA2516	GM01AAD2516	GM13AA0516	GM13AA2516	GM11AA0516	GM11AA2516	GM121IA0516	GM121SS0516
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Soil Gas
Sample Date		5/3/2016 7:37	5/4/2016 7:36	5/3/2016 7:12		5/4/2016 7:17		5/3/2016 7:25	5/4/2016 7:27	5/3/2016 7:50	5/4/2016 7:49	5/3/2016 18:38	5/3/2016 18:02
Analyte	**Units**												
(m- and/or p-)Xylene	ug/m3	0.56 J,O	0.84 J,O	4.7 U	4.6 U	4.5 U	4.6 U	4.6 U	4.7 U	0.48 J,O	4.8 U	1.2 J,O	3.8 U
1,1,2-Trichloroethane	ug/m3	2.7 U	2.8 U	2.9 U	2.9 U	2.8 U	2.9 U	2.8 U	2.9 U	2.9 U	3.0 U	3.0 U	2.4 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.8 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U	0.33 J,O	1.6 U
1,2,4-Trimethylbenzene	ug/m3	2.5 U	0.33 J,O	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.6 U	2.6 U	2.7 U	0.75 J,O	2.2 U
1,2-Dichloroethane	ug/m3	1.9 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.0 U	2.1 U	2.1 U	2.1 U	2.2 U	1.7 U
Benzene	ug/m3	0.59 J,O	0.55 J,O	0.57 J,O	0.61 J,O	0.44 J,O	0.41 J,O	0.41 J,O	1.7 U	0.63 J,O	0.46 J,O	1.1 J,O	0.65 J,O
Chloroform	ug/m3	2.4 U	0.90 J,O	2.5 U	2.5 U	2.4 U	2.5 U	2.5 U	2.5 U	2.5 U	2.6 U	0.70 J,O	0.99 J,O
Ethyl Benzene	ug/m3	2.1 U	0.28 J,O	2.3 U	2.3 U	2.2 U	2.3 U	2.3 U	2.3 U	2.3 U	2.4 U	0.46 J,O	1.9 U
Methylene Chloride	ug/m3	1.6 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.4 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.3 U	3.4 U	3.6 U	3.5 U	3.4 U	3.5 U	3.5 U	3.6 U	3.6 U	3.6 U	3.7 U	2.9 U
Toluene	ug/m3	1.9	2.1	0.96 J,O	1.0 J,O	0.69 J,O	0.68 J,O	0.72 J,O	0.44 J,O	1.1 J,O	0.69 J,O	7.5	0.47 J,O
Trichloroethene (Trichloroethylene)	ug/m3	2.6 U	2.7 U	2.8 U	2.8 U	2.7 U	2.8 U	2.8 U	2.8 U	2.8 U	2.9 U	3.0 U	2.3 U
Vinyl chloride	ug/m3	1.2 U	0.19 J,O	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.4 U	1.4 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	1.9 U	0.22 J,O	2.1 U	2.0 U	0.28 J,O	0.29 J,O	2.0 U	2.1 U	0.24 J,O	0.28 J,O	2.2 U	1.7 U
o-Xylene	ug/m3	0.24 J,O	0.38 J,O	2.3 U	2.3 U	2.2 U	2.3 U	2.3 U	2.3 U	2.3 U	2.4 U	0.56 J,O	1.9 U
trans-1,2-Dichloroethene	ug/m3	2.0 U	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.3 U	1.8 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 13

(b) (6)

Sample Station GM113
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
May 2016

		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		(b) (6)	
Station ID		GM12		GM01				GM13		GM11		GM113	
Sample ID		GM12AA20516	GM12AA30516	GM01AA20516	GM01AAD20516	GM01AA30516	GM01AAD30516	GM13AA20516	GM13AA30516	GM11AA20516	GM11AA30516	GM113IA0516	GM113SS0516
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Soil Gas
Sample Date		5/4/2016 7:36	5/5/2016 7:47	5/4/2016 7:17		5/5/2016 7:30		5/4/2016 7:27	5/5/2016 7:38	5/4/2016 7:49	5/5/2016 7:55	5/4/2016 9:22	5/4/2016 8:43
Analyte	**Units**												
(m- and/or p-)Xylene	ug/m3	0.84 J,O	2.3 J,O	4.5 U	4.6 U	1.0 J,O	1.2 J,O	4.7 U	4.6 U	4.8 U	0.51 J,O	0.68 J,O	1.1 J,O
1,1,2-Trichloroethane	ug/m3	2.8 U	2.8 U	2.8 U	2.9 U	2.8 U	2.8 U	2.9 U	2.9 U	3.0 U	3.1 U	2.8 U	2.6 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.1 U	1.9 U	1.7 U
1,2,4-Trimethylbenzene	ug/m3	0.33 J,O	0.92 J,O	2.5 U	2.6 U	0.54 J,O	0.70 J,O	2.6 U	2.6 U	2.7 U	2.8 U	0.35 J,O	0.88 J,O
1,2-Dichloroethane	ug/m3	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.0 U	2.1 U	2.3 U	1.6 J,O	1.8 U
Benzene	ug/m3	0.55 J,O	0.51 J,O	0.44 J,O	0.41 J,O	0.62 J,O	0.63 J,O	1.7 U	0.38 J,O	0.46 J,O	0.52 J,O	0.67 J,O	0.77 J,O
Chloroform	ug/m3	0.90 J,O	2.4 U	2.4 U	2.5 U	2.4 U	2.5 U	2.5 U	2.5 U	2.6 U	2.7 U	0.69 J,O	8.8 O
Ethyl Benzene	ug/m3	0.28 J,O	0.70 J,O	2.2 U	2.3 U	0.39 J,O	0.41 J,O	2.3 U	2.3 U	2.4 U	2.5 U	0.32 J,O	0.65 J,O
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.9 U	1.7 U	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.4 U	3.4 U	3.4 U	3.5 U	3.4 U	3.5 U	3.6 U	3.5 U	3.6 U	3.8 U	3.4 U	1.7 J,O
Toluene	ug/m3	2.1	4.4	0.69 J,O	0.68 J,O	2.0	2.1	0.44 J,O	0.90 J,O	0.69 J,O	0.83 J,O	13	3.5 J,O
Trichloroethene (Trichloroethylene)	ug/m3	2.7 U	2.7 U	2.7 U	2.8 U	2.7 U	0.30 J,O	2.8 U	2.8 U	2.9 U	3.1 U	2.7 U	0.93 J,O
Vinyl chloride	ug/m3	0.19 J,O	0.14 J,O	1.3 U	1.3 U	1.3 U	0.14 J,O	1.3 U	1.3 U	1.4 U	0.14 J,O	1.3 U	1.2 U
cis-1,2-Dichloroethene	ug/m3	0.22 J,O	0.39 J,O	0.28 J,O	0.29 J,O	0.40 J,O	0.45 J,O	2.1 U	0.26 J,O	0.28 J,O	0.39 J,O	2.0 U	1.8 U
o-Xylene	ug/m3	0.38 J,O	0.92 J,O	2.2 U	2.3 U	0.49 J,O	0.52 J,O	2.3 U	2.3 U	2.4 U	2.5 U	0.28 J,O	1.2 J,O
trans-1,2-Dichloroethene	ug/m3	2.1 U	2.1 U	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U	2.1 U	2.2 U	2.4 U	2.1 U	1.9 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 14

[redacted]

Sample Station GM111
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
May 2016

		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		[redacted]	
Station ID		GM12		GM01				GM13		GM11		GM111	
Sample ID		GM12AA20516	GM12AA30516	GM01AA20516	GM01AAD20516	GM01AA30516	GM01AAD30516	GM13AA20516	GM13AA30516	GM11AA20516	GM11AA30516	GM111IA0516	GM111SS0516
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Soil Gas
Sample Date		5/4/2016 7:36	5/5/2016 7:47	5/4/2016 7:17		5/5/2016 7:30		5/4/2016 7:27	5/5/2016 7:38	5/4/2016 7:49	5/5/2016 7:55	5/4/2016 10:18	5/4/2016 9:35
Analyte	**Units**												
(m- and/or p-)Xylene	ug/m3	0.84 J,O	2.3 J,O	4.5 U	4.6 U	1.0 J,O	1.2 J,O	4.7 U	4.6 U	4.8 U	0.51 J,O	1.3 J,O	3.8 U
1,1,2-Trichloroethane	ug/m3	2.8 U	2.8 U	2.8 U	2.9 U	2.8 U	2.8 U	2.9 U	2.9 U	3.0 U	3.1 U	3.0 U	2.4 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.1 U	2.0 U	1.6 U
1,2,4-Trimethylbenzene	ug/m3	0.33 J,O	0.92 J,O	2.5 U	2.6 U	0.54 J,O	0.70 J,O	2.6 U	2.6 U	2.7 U	2.8 U	0.65 J,O	2.2 U
1,2-Dichloroethane	ug/m3	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.0 U	2.1 U	2.3 U	0.88 J,O	1.7 U
Benzene	ug/m3	0.55 J,O	0.51 J,O	0.44 J,O	0.41 J,O	0.62 J,O	0.63 J,O	1.7 U	0.38 J,O	0.46 J,O	0.52 J,O	1.7	1.4 U
Chloroform	ug/m3	0.90 J,O	2.4 U	2.4 U	2.5 U	2.4 U	2.5 U	2.5 U	2.5 U	2.6 U	2.7 U	1.1 J,O	0.85 J,O
Ethyl Benzene	ug/m3	0.28 J,O	0.70 J,O	2.2 U	2.3 U	0.39 J,O	0.41 J,O	2.3 U	2.3 U	2.4 U	2.5 U	0.46 J,O	1.9 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.9 U	1.8 U	1.4 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.4 U	3.4 U	3.4 U	3.5 U	3.4 U	3.5 U	3.6 U	3.5 U	3.6 U	3.8 U	3.6 U	2.9 U
Toluene	ug/m3	2.1	4.4	0.69 J,O	0.68 J,O	2.0	2.1	0.44 J,O	0.90 J,O	0.69 J,O	0.83 J,O	4.4	0.40 J,O
Trichloroethene (Trichloroethylene)	ug/m3	2.7 U	2.7 U	2.7 U	2.8 U	2.7 U	0.30 J,O	2.8 U	2.8 U	2.9 U	3.1 U	2.9 U	2.3 U
Vinyl chloride	ug/m3	0.19 J,O	0.14 J,O	1.3 U	1.3 U	1.3 U	0.14 J,O	1.3 U	1.3 U	1.4 U	0.14 J,O	1.4 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	0.22 J,O	0.39 J,O	0.28 J,O	0.29 J,O	0.40 J,O	0.45 J,O	2.1 U	0.26 J,O	0.28 J,O	0.39 J,O	2.1 U	1.7 U
o-Xylene	ug/m3	0.38 J,O	0.92 J,O	2.2 U	2.3 U	0.49 J,O	0.52 J,O	2.3 U	2.3 U	2.4 U	2.5 U	0.55 J,O	1.9 U
trans-1,2-Dichloroethene	ug/m3	2.1 U	2.1 U	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U	2.1 U	2.2 U	2.4 U	2.2 U	1.8 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
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O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 15

[redacted]

Sample Station GM118
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
May 2016

		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		[redacted]	
Station ID		GM12		GM01				GM13		GM11		GM118	
Sample ID		GM12AA20516	GM12AA30516	GM01AA20516	GM01AAD20516	GM01AA30516	GM01AAD30516	GM13AA20516	GM13AA30516	GM11AA20516	GM11AA30516	GM118IA0516	GM118SS0516
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Soil Gas
Sample Date		5/4/2016 7:36	5/5/2016 7:47	5/4/2016 7:17		5/5/2016 7:30		5/4/2016 7:27	5/5/2016 7:38	5/4/2016 7:49	5/5/2016 7:55	5/4/2016 12:06	5/4/2016 11:07
Analyte	**Units**												
(m- and/or p-)Xylene	ug/m3	0.84 J,O	2.3 J,O	4.5 U	4.6 U	1.0 J,O	1.2 J,O	4.7 U	4.6 U	4.8 U	0.51 J,O	2.4 J,O	3.8 U
1,1,2-Trichloroethane	ug/m3	2.8 U	2.8 U	2.8 U	2.9 U	2.8 U	2.8 U	2.9 U	2.9 U	3.0 U	3.1 U	2.9 U	2.4 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.1 U	1.9 U	1.6 U
1,2,4-Trimethylbenzene	ug/m3	0.33 J,O	0.92 J,O	2.5 U	2.6 U	0.54 J,O	0.70 J,O	2.6 U	2.6 U	2.7 U	2.8 U	1.4 J,O	2.2 U
1,2-Dichloroethane	ug/m3	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.0 U	2.1 U	2.3 U	2.7	1.7 U
Benzene	ug/m3	0.55 J,O	0.51 J,O	0.44 J,O	0.41 J,O	0.62 J,O	0.63 J,O	1.7 U	0.38 J,O	0.46 J,O	0.52 J,O	1.9	1.4 U
Chloroform	ug/m3	0.90 J,O	2.4 U	2.4 U	2.5 U	2.4 U	2.5 U	2.5 U	2.5 U	2.6 U	2.7 U	4.7	0.81 J,O
Ethyl Benzene	ug/m3	0.28 J,O	0.70 J,O	2.2 U	2.3 U	0.39 J,O	0.41 J,O	2.3 U	2.3 U	2.4 U	2.5 U	0.75 J,O	1.9 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.9 U	1.7 U	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.4 U	3.4 U	3.4 U	3.5 U	3.4 U	3.5 U	3.6 U	3.5 U	3.6 U	3.8 U	3.5 U	2.9 U
Toluene	ug/m3	2.1	4.4	0.69 J,O	0.68 J,O	2.0	2.1	0.44 J,O	0.90 J,O	0.69 J,O	0.83 J,O	7.1	1.7 U
Trichloroethene (Trichloroethylene)	ug/m3	2.7 U	2.7 U	2.7 U	2.8 U	2.7 U	0.30 J,O	2.8 U	2.8 U	2.9 U	3.1 U	2.8 U	2.3 U
Vinyl chloride	ug/m3	0.19 J,O	0.14 J,O	1.3 U	1.3 U	1.3 U	0.14 J,O	1.3 U	1.3 U	1.4 U	0.14 J,O	1.3 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	0.22 J,O	0.39 J,O	0.28 J,O	0.29 J,O	0.40 J,O	0.45 J,O	2.1 U	0.26 J,O	0.28 J,O	0.39 J,O	0.21 J,O	1.7 U
o-Xylene	ug/m3	0.38 J,O	0.92 J,O	2.2 U	2.3 U	0.49 J,O	0.52 J,O	2.3 U	2.3 U	2.4 U	2.5 U	0.96 J,O	1.9 U
trans-1,2-Dichloroethene	ug/m3	2.1 U	2.1 U	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U	2.1 U	2.2 U	2.4 U	2.2 U	1.8 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 16

[redacted]

Sample Station GM122

Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results

May 2016

		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		[redacted]	
Station ID		GM12		GM01				GM13		GM11		GM122	
Sample ID		GM12AA20516	GM12AA30516	GM01AA20516	GM01AAD20516	GM01AA30516	GM01AAD30516	GM13AA20516	GM13AA30516	GM11AA20516	GM11AA30516	GM122IA0516	GM122SS0516
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Soil Gas
Sample Date		5/4/2016 7:36	5/5/2016 7:47	5/4/2016 7:17		5/5/2016 7:30		5/4/2016 7:27	5/5/2016 7:38	5/4/2016 7:49	5/5/2016 7:55	5/4/2016 12:37	5/4/2016 11:54
Analyte	**Units**												
(m- and/or p-)Xylene	ug/m3	0.84 J,O	2.3 J,O	4.5 U	4.6 U	1.0 J,O	1.2 J,O	4.7 U	4.6 U	4.8 U	0.51 J,O	0.55 J,O	4.0 U
1,1,2-Trichloroethane	ug/m3	2.8 U	2.8 U	2.8 U	2.9 U	2.8 U	2.8 U	2.9 U	2.9 U	3.0 U	3.1 U	2.7 U	2.5 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.1 U	1.8 U	1.7 U
1,2,4-Trimethylbenzene	ug/m3	0.33 J,O	0.92 J,O	2.5 U	2.6 U	0.54 J,O	0.70 J,O	2.6 U	2.6 U	2.7 U	2.8 U	0.43 J,O	2.3 U
1,2-Dichloroethane	ug/m3	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.0 U	2.1 U	2.3 U	0.86 J,O	1.8 U
Benzene	ug/m3	0.55 J,O	0.51 J,O	0.44 J,O	0.41 J,O	0.62 J,O	0.63 J,O	1.7 U	0.38 J,O	0.46 J,O	0.52 J,O	0.77 J,O	0.14 J,O
Chloroform	ug/m3	0.90 J,O	2.4 U	2.4 U	2.5 U	2.4 U	2.5 U	2.5 U	2.5 U	2.6 U	2.7 U	0.25 J,O	2.2 U
Ethyl Benzene	ug/m3	0.28 J,O	0.70 J,O	2.2 U	2.3 U	0.39 J,O	0.41 J,O	2.3 U	2.3 U	2.4 U	2.5 U	2.2 U	2.0 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.9 U	1.7 U	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.4 U	3.4 U	3.4 U	3.5 U	3.4 U	3.5 U	3.6 U	3.5 U	3.6 U	3.8 U	3.3 U	1.0 J,O
Toluene	ug/m3	2.1	4.4	0.69 J,O	0.68 J,O	2.0	2.1	0.44 J,O	0.90 J,O	0.69 J,O	0.83 J,O	1.8 J,O	1.7 U
Trichloroethene (Trichloroethylene)	ug/m3	2.7 U	2.7 U	2.7 U	2.8 U	2.7 U	0.30 J,O	2.8 U	2.8 U	2.9 U	3.1 U	2.7 U	2.4 U
Vinyl chloride	ug/m3	0.19 J,O	0.14 J,O	1.3 U	1.3 U	1.3 U	0.14 J,O	1.3 U	1.3 U	1.4 U	0.14 J,O	1.3 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	0.22 J,O	0.39 J,O	0.28 J,O	0.29 J,O	0.40 J,O	0.45 J,O	2.1 U	0.26 J,O	0.28 J,O	0.39 J,O	0.23 J,O	1.8 U
o-Xylene	ug/m3	0.38 J,O	0.92 J,O	2.2 U	2.3 U	0.49 J,O	0.52 J,O	2.3 U	2.3 U	2.4 U	2.5 U	0.26 J,O	2.0 U
trans-1,2-Dichloroethene	ug/m3	2.1 U	2.1 U	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U	2.1 U	2.2 U	2.4 U	2.1 U	1.9 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
U	The analyte was not detected at or above the reporting limit
J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 17

(b) (6) [redacted]
Sample Station GM123
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
May 2016

		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		(b) (6) [redacted]	
Station ID		GM12		GM01				GM13		GM11		GM123	
Sample ID		GM12AA20516	GM12AA30516	GM01AA20516	GM01AAD20516	GM01AA30516	GM01AAD30516	GM13AA20516	GM13AA30516	GM11AA20516	GM11AA30516	GM123IA0516	GM123SS0516
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Soil Gas
Sample Date		5/4/2016 7:36	5/5/2016 7:47	5/4/2016 7:17		5/5/2016 7:30		5/4/2016 7:27	5/5/2016 7:38	5/4/2016 7:49	5/5/2016 7:55	5/4/2016 13:30	5/4/2016 12:40
Analyte	**Units**												
(m- and/or p-)Xylene	ug/m3	0.84 J,O	2.3 J,O	4.5 U	4.6 U	1.0 J,O	1.2 J,O	4.7 U	4.6 U	4.8 U	0.51 J,O	3.9 J,O	3.9 U
1,1,2-Trichloroethane	ug/m3	2.8 U	2.8 U	2.8 U	2.9 U	2.8 U	2.8 U	2.9 U	2.9 U	3.0 U	3.1 U	3.1 U	2.5 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.1 U	2.1 U	1.7 U
1,2,4-Trimethylbenzene	ug/m3	0.33 J,O	0.92 J,O	2.5 U	2.6 U	0.54 J,O	0.70 J,O	2.6 U	2.6 U	2.7 U	2.8 U	0.58 J,O	2.2 U
1,2-Dichloroethane	ug/m3	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.0 U	2.1 U	2.3 U	2.0 J,O	1.8 U
Benzene	ug/m3	0.55 J,O	0.51 J,O	0.44 J,O	0.41 J,O	0.62 J,O	0.63 J,O	1.7 U	0.38 J,O	0.46 J,O	0.52 J,O	57	0.65 J,O
Chloroform	ug/m3	0.90 J,O	2.4 U	2.4 U	2.5 U	2.4 U	2.5 U	2.5 U	2.5 U	2.6 U	2.7 U	0.90 J,O	0.63 J,O
Ethyl Benzene	ug/m3	0.28 J,O	0.70 J,O	2.2 U	2.3 U	0.39 J,O	0.41 J,O	2.3 U	2.3 U	2.4 U	2.5 U	2.5	1.9 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.4 U	3.4 U	3.4 U	3.5 U	3.4 U	3.5 U	3.6 U	3.5 U	3.6 U	3.8 U	3.8 U	0.66 J,O
Toluene	ug/m3	2.1	4.4	0.69 J,O	0.68 J,O	2.0	2.1	0.44 J,O	0.90 J,O	0.69 J,O	0.83 J,O	14	0.42 J,O
Trichloroethene (Trichloroethylene)	ug/m3	2.7 U	2.7 U	2.7 U	2.8 U	2.7 U	0.30 J,O	2.8 U	2.8 U	2.9 U	3.1 U	3.0 U	2.4 U
Vinyl chloride	ug/m3	0.19 J,O	0.14 J,O	1.3 U	1.3 U	1.3 U	0.14 J,O	1.3 U	1.3 U	1.4 U	0.14 J,O	1.4 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	0.22 J,O	0.39 J,O	0.28 J,O	0.29 J,O	0.40 J,O	0.45 J,O	2.1 U	0.26 J,O	0.28 J,O	0.39 J,O	0.28 J,O	1.8 U
o-Xylene	ug/m3	0.38 J,O	0.92 J,O	2.2 U	2.3 U	0.49 J,O	0.52 J,O	2.3 U	2.3 U	2.4 U	2.5 U	1.3 J,O	2.0 U
trans-1,2-Dichloroethene	ug/m3	2.1 U	2.1 U	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U	2.1 U	2.2 U	2.4 U	2.3 U	1.8 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
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O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 18

(b) (6) [redacted]
Sample Station GM108
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
May 2016

		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		(b) (6) [redacted]			
Station ID		GM12		GM01				GM13		GM11		GM108			
Sample ID		GM12AA20516	GM12AA30516	GM01AA20516	GM01AAD20516	GM01AA30516	GM01AAD30516	GM13AA20516	GM13AA30516	GM11AA20516	GM11AA30516	GM108IA0516	GM108IAD0516	GM108SS0516	GM108SSS0516
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air		Soil Gas	
Sample Date		5/4/2016 7:36	5/5/2016 7:47	5/4/2016 7:17		5/5/2016 7:30		5/4/2016 7:27	5/5/2016 7:38	5/4/2016 7:49	5/5/2016 7:55	5/4/2016 16:27		5/4/2016 15:45	
Analyte	**Units**														
(m- and/or p-)Xylene	ug/m3	0.84 J,O	2.3 J,O	4.5 U	4.6 U	1.0 J,O	1.2 J,O	4.7 U	4.6 U	4.8 U	0.51 J,O	0.66 J,O	0.70 J,O	3.9 U	3.9 U
1,1,2-Trichloroethane	ug/m3	2.8 U	2.8 U	2.8 U	2.9 U	2.8 U	2.8 U	2.9 U	2.9 U	3.0 U	3.1 U	2.8 U	2.9 U	2.5 U	2.5 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.1 U	1.9 U	2.0 U	1.7 U	1.7 U
1,2,4-Trimethylbenzene	ug/m3	0.33 J,O	0.92 J,O	2.5 U	2.6 U	0.54 J,O	0.70 J,O	2.6 U	2.6 U	2.7 U	2.8 U	0.26 J,O	0.30 J,O	2.2 U	2.2 U
1,2-Dichloroethane	ug/m3	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.0 U	2.1 U	2.3 U	4.0	4.1	1.8 U	1.8 U
Benzene	ug/m3	0.55 J,O	0.51 J,O	0.44 J,O	0.41 J,O	0.62 J,O	0.63 J,O	1.7 U	0.38 J,O	0.46 J,O	0.52 J,O	0.92 J,O	0.90 J,O	1.4 U	1.4 U
Chloroform	ug/m3	0.90 J,O	2.4 U	2.4 U	2.5 U	2.4 U	2.5 U	2.5 U	2.5 U	2.6 U	2.7 U	0.50 J,O	0.48 J,O	0.62 J,O	0.62 J,O
Ethyl Benzene	ug/m3	0.28 J,O	0.70 J,O	2.2 U	2.3 U	0.39 J,O	0.41 J,O	2.3 U	2.3 U	2.4 U	2.5 U	0.25 J,O	0.27 J,O	1.9 U	1.9 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.9 U	1.7 U	1.7 U	1.5 U	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.4 U	3.4 U	3.4 U	3.5 U	3.4 U	3.5 U	3.6 U	3.5 U	3.6 U	3.8 U	3.4 U	3.5 U	0.43 J,O	0.46 J,O
Toluene	ug/m3	2.1	4.4	0.69 J,O	0.68 J,O	2.0	2.1	0.44 J,O	0.90 J,O	0.69 J,O	0.83 J,O	9.5	9.5	2.1 J,O	2.1 J,O
Trichloroethene (Trichloroethylene)	ug/m3	2.7 U	2.7 U	2.7 U	2.8 U	2.7 U	0.30 J,O	2.8 U	2.8 U	2.9 U	3.1 U	2.7 U	2.8 U	2.4 U	2.4 U
Vinyl chloride	ug/m3	0.19 J,O	0.14 J,O	1.3 U	1.3 U	1.3 U	0.14 J,O	1.3 U	1.3 U	1.4 U	0.14 J,O	1.3 U	1.3 U	1.1 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	0.22 J,O	0.39 J,O	0.28 J,O	0.29 J,O	0.40 J,O	0.45 J,O	2.1 U	0.26 J,O	0.28 J,O	0.39 J,O	2.0 U	2.1 U	1.8 U	1.8 U
o-Xylene	ug/m3	0.38 J,O	0.92 J,O	2.2 U	2.3 U	0.49 J,O	0.52 J,O	2.3 U	2.3 U	2.4 U	2.5 U	0.29 J,O	0.26 J,O	0.26 J,O	0.29 J,O
trans-1,2-Dichloroethene	ug/m3	2.1 U	2.1 U	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U	2.1 U	2.2 U	2.4 U	2.1 U	2.2 U	1.8 U	1.8 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
Flag	**Definition**
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J	The identification of the analyte is acceptable; the reported value is an estimate
O	Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the Laboratory Data export Files.

TABLE 19

(b) (6)

Sample Station GM119
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
May 2016

		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		(b) (6)	
Station ID		GM12		GM01				GM13		GM11		GM119	
Sample ID		GM12AA20516	GM12AA30516	GM01AA20516	GM01AAD20516	GM01AA30516	GM01AAD30516	GM13AA20516	GM13AA30516	GM11AA20516	GM11AA30516	GM119IA0516	GM119SS0516
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Soil Gas
Sample Date		5/4/2016 7:36	5/5/2016 7:47	5/4/2016 7:17		5/5/2016 7:30		5/4/2016 7:27	5/5/2016 7:38	5/4/2016 7:49	5/5/2016 7:55	5/4/2016 17:55	5/4/2016 17:07
Analyte	**Units**												
(m- and/or p-)Xylene	ug/m3	0.84 J,O	2.3 J,O	4.5 U	4.6 U	1.0 J,O	1.2 J,O	4.7 U	4.6 U	4.8 U	0.51 J,O	22	4.0 U
1,1,2-Trichloroethane	ug/m3	2.8 U	2.8 U	2.8 U	2.9 U	2.8 U	2.8 U	2.9 U	2.9 U	3.0 U	3.1 U	2.9 U	2.5 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.1 U	2.0 U	1.7 U
1,2,4-Trimethylbenzene	ug/m3	0.33 J,O	0.92 J,O	2.5 U	2.6 U	0.54 J,O	0.70 J,O	2.6 U	2.6 U	2.7 U	2.8 U	9.2	2.2 U
1,2-Dichloroethane	ug/m3	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.0 U	2.1 U	2.3 U	3.7	1.8 U
Benzene	ug/m3	0.55 J,O	0.51 J,O	0.44 J,O	0.41 J,O	0.62 J,O	0.63 J,O	1.7 U	0.38 J,O	0.46 J,O	0.52 J,O	4.0	1.4 U
Chloroform	ug/m3	0.90 J,O	2.4 U	2.4 U	2.5 U	2.4 U	2.5 U	2.5 U	2.5 U	2.6 U	2.7 U	1.3 J,O	0.56 J,O
Ethyl Benzene	ug/m3	0.28 J,O	0.70 J,O	2.2 U	2.3 U	0.39 J,O	0.41 J,O	2.3 U	2.3 U	2.4 U	2.5 U	6.8	2.0 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.9 U	1.8 U	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.4 U	3.4 U	3.4 U	3.5 U	3.4 U	3.5 U	3.6 U	3.5 U	3.6 U	3.8 U	3.6 U	0.41 J,O
Toluene	ug/m3	2.1	4.4	0.69 J,O	0.68 J,O	2.0	2.1	0.44 J,O	0.90 J,O	0.69 J,O	0.83 J,O	53	1.7 U
Trichloroethene (Trichloroethylene)	ug/m3	2.7 U	2.7 U	2.7 U	2.8 U	2.7 U	0.30 J,O	2.8 U	2.8 U	2.9 U	3.1 U	2.8 U	2.4 U
Vinyl chloride	ug/m3	0.19 J,O	0.14 J,O	1.3 U	1.3 U	1.3 U	0.14 J,O	1.3 U	1.3 U	1.4 U	0.14 J,O	1.3 U	1.1 U
cis-1,2-Dichloroethene	ug/m3	0.22 J,O	0.39 J,O	0.28 J,O	0.29 J,O	0.40 J,O	0.45 J,O	2.1 U	0.26 J,O	0.28 J,O	0.39 J,O	2.1 U	1.8 U
o-Xylene	ug/m3	0.38 J,O	0.92 J,O	2.2 U	2.3 U	0.49 J,O	0.52 J,O	2.3 U	2.3 U	2.4 U	2.5 U	8.6	2.0 U
trans-1,2-Dichloroethene	ug/m3	2.1 U	2.1 U	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U	2.1 U	2.2 U	2.4 U	2.2 U	1.9 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
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TABLE 20

[redacted]

Sample Station GM116
Ambient Air, Indoor Air and Sub-Slab Soil Gas VOC Analytical Results
May 2016

		North Ambient Air Location		South Ambient Air Location				East Ambient Air Location		West Ambient Air Location		[redacted]	
Station ID		GM12		GM01				GM13		GM11		GM116	
Sample ID		GM12AA20516	GM12AA30516	GM01AA20516	GM01AAD20516	GM01AA30516	GM01AAD30516	GM13AA20516	GM13AA30516	GM11AA20516	GM11AA30516	GM116IA0516	GM116SS0516
Matrix		Ambient Air		Ambient Air				Ambient Air		Ambient Air		Indoor Air	Soil Gas
Sample Date		5/4/2016 7:36	5/5/2016 7:47	5/4/2016 7:17		5/5/2016 7:30		5/4/2016 7:27	5/5/2016 7:38	5/4/2016 7:49	5/5/2016 7:55	5/4/2016 18:48	5/4/2016 18:08
Analyte	**Units**												
(m- and/or p-)Xylene	ug/m3	0.84 J,O	2.3 J,O	4.5 U	4.6 U	1.0 J,O	1.2 J,O	4.7 U	4.6 U	4.8 U	0.51 J,O	2.4 J,O	4.1 U
1,1,2-Trichloroethane	ug/m3	2.8 U	2.8 U	2.8 U	2.9 U	2.8 U	2.8 U	2.9 U	2.9 U	3.0 U	3.1 U	2.8 U	2.5 U
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.1 U	1.9 U	1.7 U
1,2,4-Trimethylbenzene	ug/m3	0.33 J,O	0.92 J,O	2.5 U	2.6 U	0.54 J,O	0.70 J,O	2.6 U	2.6 U	2.7 U	2.8 U	1.0 J,O	2.3 U
1,2-Dichloroethane	ug/m3	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	2.0 U	2.1 U	2.3 U	0.32 J,O	1.8 U
Benzene	ug/m3	0.55 J,O	0.51 J,O	0.44 J,O	0.41 J,O	0.62 J,O	0.63 J,O	1.7 U	0.38 J,O	0.46 J,O	0.52 J,O	1.0 J,O	0.52 J,O
Chloroform	ug/m3	0.90 J,O	2.4 U	2.4 U	2.5 U	2.4 U	2.5 U	2.5 U	2.5 U	2.6 U	2.7 U	1.3 J,O	0.64 J,O
Ethyl Benzene	ug/m3	0.28 J,O	0.70 J,O	2.2 U	2.3 U	0.39 J,O	0.41 J,O	2.3 U	2.3 U	2.4 U	2.5 U	0.75 J,O	2.0 U
Methylene Chloride	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.9 U	1.7 U	1.5 U
Tetrachloroethene (Tetrachloroethylene)	ug/m3	3.4 U	3.4 U	3.4 U	3.5 U	3.4 U	3.5 U	3.6 U	3.5 U	3.6 U	3.8 U	3.4 U	0.87 J,O
Toluene	ug/m3	2.1	4.4	0.69 J,O	0.68 J,O	2.0	2.1	0.44 J,O	0.90 J,O	0.69 J,O	0.83 J,O	7.8	0.64 J,O
Trichloroethene (Trichloroethylene)	ug/m3	2.7 U	2.7 U	2.7 U	2.8 U	2.7 U	0.30 J,O	2.8 U	2.8 U	2.9 U	3.1 U	2.7 U	2.5 U
Vinyl chloride	ug/m3	0.19 J,O	0.14 J,O	1.3 U	1.3 U	1.3 U	0.14 J,O	1.3 U	1.3 U	1.4 U	0.14 J,O	1.3 U	1.2 U
cis-1,2-Dichloroethene	ug/m3	0.22 J,O	0.39 J,O	0.28 J,O	0.29 J,O	0.40 J,O	0.45 J,O	2.1 U	0.26 J,O	0.28 J,O	0.39 J,O	2.0 U	1.8 U
o-Xylene	ug/m3	0.38 J,O	0.92 J,O	2.2 U	2.3 U	0.49 J,O	0.52 J,O	2.3 U	2.3 U	2.4 U	2.5 U	0.88 J,O	0.20 J,O
trans-1,2-Dichloroethene	ug/m3	2.1 U	2.1 U	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U	2.1 U	2.2 U	2.4 U	2.1 U	1.9 U

Detects are Highlighted

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS	
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TABLE 21

Co-Located Duplicate Comparisons of the South Ambient Air Location

		South Ambient Air Location								
Station ID		GM01								
Sample ID		GM01AA05516	GM01AAD05516	**Percent Difference**	GM01AA20516	GM01AAD20516	**Percent Difference**	GM01AA30516	GM01AAD30516	**Percent Difference**
Matrix		Ambient Air			Ambient Air			Ambient Air		
Sample Date		5/3/2016 7:12		**%**	5/4/2016 7:17		**%**	5/5/2016 7:30		**%**
Analyte	**Units**									
(m- and/or p-)Xylene	ug/m3	-	-		-	-		1.00	1.20	**18.18%**
1,1,2-Trichloroethane	ug/m3	-	-		-	-		-	-	
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	-	-		-	-		-	-	
1,2,4-Trimethylbenzene	ug/m3	-	-		-	-		0.54	0.70	**25.81%**
1,2-Dichloroethane	ug/m3	-	-		-	-		-	-	
Benzene	ug/m3	0.57	0.61	**6.78%**	0.44	0.41	**7.06%**	0.62	0.63	**1.60%**
Chloroform	ug/m3	-	-		-	-		-	-	
Ethyl Benzene	ug/m3	-	-		-	-		0.39	0.41	**5.00%**
Methylene Chloride	ug/m3	-	-		-	-		-	-	
Tetrachloroethene (Tetrachloroethylene)	ug/m3	-	-		-	-		-	-	
Toluene	ug/m3	0.96	1.00	**4.08%**	0.69	0.68	**1.46%**	2	2.1	**4.88%**
Trichloroethene (Trichloroethylene)	ug/m3	-	-		-	-		-	-	
Vinyl chloride	ug/m3	-	-		-	-		0.13	0.14	**7.41%**
cis-1,2-Dichloroethene	ug/m3	-	-		0.28	0.29	**3.51%**	0.40	0.45	**11.76%**
o-Xylene	ug/m3	-	-		-	-		0.49	0.52	**5.94%**
trans-1,2-Dichloroethene	ug/m3	-	-		-	-		-	-	

**see note below

Detects are Highlighted

** The percent difference calculation for vinyl chloride in sample GM01AA30516 was conducted using the Method Detection Level (MDL) of 0.13ug/m3 due to the non detection of the analyte.

Data qualifiers were left out of this table for sake of calculations.

TABLE 22

Co-Located Duplicate Comparisons of Indoor Air and Soil Gas Samples at 110 Lyon Drive

		(b) (6)					
Station ID		GM107					
Sample ID		GM107IA0516	GM107IAD0516	**Percent**	GM107SS0516	GM107SSS0516	**Percent**
Matrix		Indoor Air		**Difference**	Soil Gas		**Difference**
Sample Date		5/3/2016 12:43		**%**	5/3/2016 12:05		**%**
Analyte	**Units**						
(m- and/or p-)Xylene	ug/m3	1.5	1.7	**12.50%**	-	-	
1,1,2-Trichloroethane	ug/m3	-	-		-	-	
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	-	-		-	-	
1,2,4-Trimethylbenzene	ug/m3	0.39	0.39	**0.00%**	0.28	0.27	**3.64%**
1,2-Dichloroethane	ug/m3	0.92	0.87		-	-	
Benzene	ug/m3	2.7	2.6	**3.77%**	-	-	
Chloroform	ug/m3	1.3	1.3		0.54	0.51	**5.71%**
Ethyl Benzene	ug/m3	0.58	0.63	**8.26%**	-	-	
Methylene Chloride	ug/m3	-	-		-	-	
Tetrachloroethene (Tetrachloroethylene)	ug/m3	-	-		-	-	
Toluene	ug/m3	6.7	6.6	**1.50%**	-	-	
Trichloroethene (Trichloroethylene)	ug/m3	-	-		1.4	1.4	**0.00%**
Vinyl chloride	ug/m3	-	-		-	-	
cis-1,2-Dichloroethene	ug/m3	-	-		-	-	
o-Xylene	ug/m3	0.51	0.49	**4.00%**	-	-	
trans-1,2-Dichloroethene	ug/m3	-	-		-	-	

Detects are Highlighted

Data qualifiers were left out of this table for sake of calculations

TABLE 23

Co-Located Duplicate Comparisons of Indoor Air and Soil Gas Samples at 112 Lyon Drive

		(b) (6)					
Station ID		GM108					
Sample ID		GM108IA0516	GM108IAD0516	**Percent Difference**	GM108SS0516	GM108SSS0516	**Percent Difference**
Matrix		Indoor Air			Soil Gas		
Sample Date		5/4/2016 16:27		%	5/4/2016 15:45		%
Analyte	**Units**						
(m- and/or p-)Xylene	ug/m3	0.66	0.7	**5.88%**	-	-	
1,1,2-Trichloroethane	ug/m3	-	-		-	-	
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3	-	-		-	-	
1,2,4-Trimethylbenzene	ug/m3	0.26	0.3	**14.29%**	-	-	
1,2-Dichloroethane	ug/m3	4	4.1	**2.47%**	-	-	
Benzene	ug/m3	0.92	0.9	**2.20%**	-	-	
Chloroform	ug/m3	0.5	0.48	**4.08%**	0.62	0.62	**0.00%**
Ethyl Benzene	ug/m3	0.25	0.27	**7.69%**	-	-	
Methylene Chloride	ug/m3	-	-		-	-	
Tetrachloroethene (Tetrachloroethylene)	ug/m3	-	-		0.43	0.46	**6.74%**
Toluene	ug/m3	9.5	9.5	**0.00%**	2.1	2.1	**0.00%**
Trichloroethene (Trichloroethylene)	ug/m3	-	-		-	-	
Vinyl chloride	ug/m3	-	-		-	-	
cis-1,2-Dichloroethene	ug/m3	-	-		-	-	
o-Xylene	ug/m3	0.29	0.26	**10.91%**	0.26	0.29	**10.91%**
trans-1,2-Dichloroethene	ug/m3	-	-		-	-	

Detects are Highlighted

Data qualifiers were left out of this table for sake of calculations

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Appendix C

Wind Speed and Direction Data

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Table 24

Wind Speed and Direction Data
07:00 May 3 to 08:00 May 4, 2016

RM YOUNG CO.
TRAVERSE CITY , MI
26700 SERIES TRANSLATOR

DATE MON	DATE DAY	TIME HR	TIME MIN	WS:AVG MPH	WS:MAX MPH	WD:AVG DEG	WD:SDV DEG
5	3	7	0	0.7	7	267	40
5	3	8	0	1.7	7	4	38
5	3	9	0	2.7	7	11	41
5	3	10	0	2.2	7	46	64
5	3	11	0	2.4	7	88	48
5	3	12	0	2.7	8	9	71
5	3	13	0	4	12	306	54
5	3	14	0	4.3	16	306	47
5	3	15	0	4.9	15	308	46
5	3	16	0	4.6	16	301	42
5	3	17	0	4.7	17	308	42
5	3	18	0	4	12	311	42
5	3	19	0	3.4	11	318	39
5	3	20	0	2.4	8	286	40
5	3	21	0	1.4	3	255	13
5	3	22	0	1.2	2	259	13
5	3	23	0	0.6	2	256	14
5	4	0	0	0.1	1	255	21
5	4	1	0	0.7	2	251	22
5	4	2	0	1	2	262	8
5	4	3	0	0.8	2	255	15
5	4	4	0	0.9	2	267	14
5	4	5	0	0.5	2	264	19
5	4	6	0	0.4	2	270	13
5	4	7	0	0.3	2	279	36
5	4	8	0	1.6	6	260	31

Table 25

Wind Speed and Direction Data
07:00 May 4 to 08:00 May 5, 2016

RM YOUNG CO.
TRAVERSE CITY , MI
26700 SERIES TRANSLATOR

DATE MON	DATE DAY	TIME HR	TIME MIN	WS:AVG MPH	WS:MAX MPH	WD:AVG DEG	WD:SDV DEG
5	4	7	0	0.3	2	279	36
5	4	8	0	1.6	6	260	31
5	4	9	0	3.8	9	270	21
5	4	10	0	4.5	10	265	26
5	4	11	0	5.1	15	265	33
5	4	12	0	6.4	18	271	32
5	4	13	0	7.4	21	275	30
5	4	14	0	7.8	24	271	29
5	4	15	0	7.7	20	273	31
5	4	16	0	7.5	23	271	27
5	4	17	0	6.5	19	269	25
5	4	18	0	5	16	272	28
5	4	19	0	2.8	12	322	47
5	4	20	0	2	8	285	36
5	4	21	0	1.1	4	257	18
5	4	22	0	0.7	2	260	19
5	4	23	0	0.7	2	267	14
5	5	0	0	1.1	3	272	31
5	5	1	0	0.7	2	274	34
5	5	2	0	1.1	7	302	74
5	5	3	0	2.3	8	34	32
5	5	4	0	1.1	6	334	58
5	5	5	0	1.8	4	264	20
5	5	6	0	1.1	2	261	13
5	5	7	0	1	3	257	11
5	5	8	0	2	5	267	20

Table 26

Wind Speed and Direction Data
07:00 May 5 to 08:00 May 6, 2016

RM YOUNG CO.
TRAVERSE CITY , MI
26700 SERIES TRANSLATOR

DATE MON	DATE DAY	TIME HR	TIME MIN	WS:AVG MPH	WS:MAX MPH	WD:AVG DEG	WD:SDV DEG
5	5	7	0	1	3	257	11
5	5	8	0	2	5	267	20
5	5	9	0	3.3	8	260	21
5	5	10	0	4.4	12	266	26
5	5	11	0	4.9	16	284	40
5	5	12	0	5.7	19	314	47
5	5	13	0	5.8	20	316	46
5	5	14	0	5.8	21	314	45
5	5	15	0	6.1	18	318	46
5	5	16	0	5.6	18	329	47
5	5	17	0	5.7	18	335	45
5	5	18	0	5.3	17	338	44
5	5	19	0	3.7	13	352	42
5	5	20	0	2	10	331	43
5	5	21	0	0.8	2	264	12
5	5	22	0	0.7	2	267	16
5	5	23	0	1.1	3	257	9
5	6	0	0	0.8	7	278	43
5	6	1	0	0.9	4	272	24
5	6	2	0	1.3	6	283	40
5	6	3	0	1.3	3	257	21
5	6	4	0	1.1	2	262	16
5	6	5	0	0.9	2	276	28
5	6	6	0	1.1	2	261	9
5	6	7	0	0.3	2	273	22
6	6	8	0	0	0	0	0

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Appendix D

Photographs

Image 1 thru Image 37– Sample Stations
Image 38 – Meteorological Station
Photograph Log (4 pages)
Photographs (4 pages)

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Image 1 – Sample station GM12 - North Ambient Air Monitoring Location facing south
DSCN4259 – Taken 5/3/2016 07:39

Image 2 – Sample station GM01 - South Ambient Air Monitoring Location (duplicate site) facing north
DSCN4257 – Taken 5/3/2016 07:14

Image 3 – Sample station GM13 - East Ambient Air Monitoring Location facing west
DSCN4258 – Taken 5/3/2016 07:27

Image 4 – Sample station GM11 - West Ambient Air Monitoring Station facing east
DSCN4260 – Taken 5/3/2016 07:51

Image 5 – Sample station GM110 - (b) (6) Sub-Slab Soil Gas Sampling Location
DSCN4261 – Taken 5/3/2016 08:53

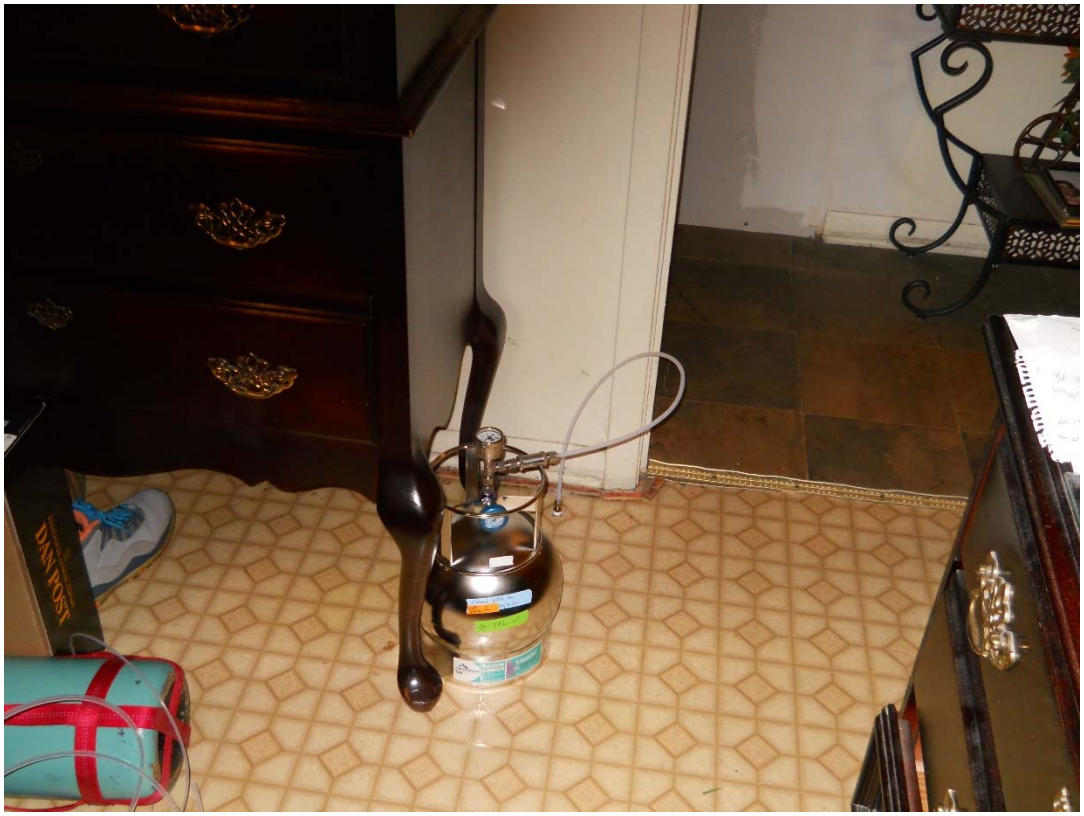

Image 6 – Sample station GM110 – (b) (6) Indoor Air Sampling Location
DSCN4262 – Taken 5/3/2016 09:30

Image 7 – Sample station GM114 – (b) (6) [redacted] Sub-Slab Soil Gas Sampling Location
DSCN4271 – Taken 5/3/2016 10:19

Image 8 – Sample station GM114 – (b) (6) [redacted] Indoor Air Sampling Location
DSCN4272 – Taken 5/3/2016 10:21

Image 9 – Sample station GM115 – (b) (6) Sub-Slab Soil Gas and Indoor Air Sampling Locations
DSCN4274 – Taken 5/3/2016 11:32

Note: Only one photograph of the sampling stations was taken at Sample station GM115 – (b) (6) (b) (6).

This space was left blank in order to keep one sample station per page.

Image 10 – Sample station GM107 – (b) (6) Sub-Slab Soil Gas (split) Sampling Location DSCN4275 – Taken 5/3/2016 12:09

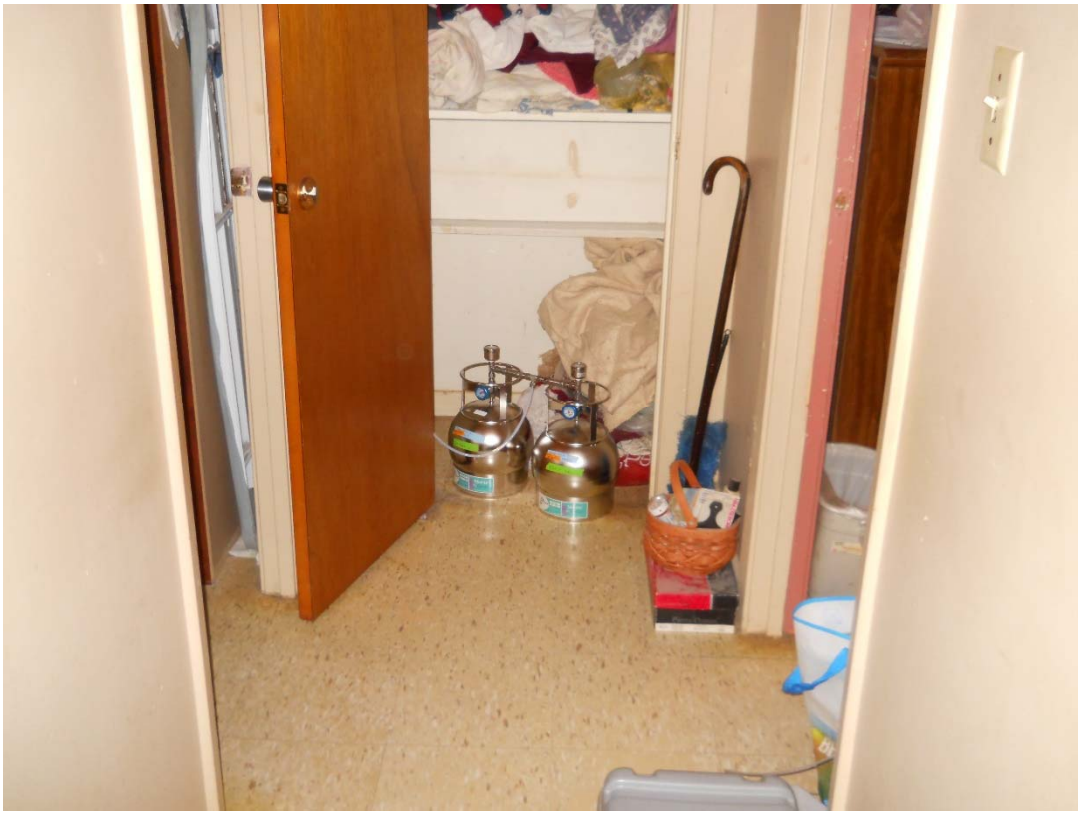

Image 11 – Sample station GM107 – (b) (6) Indoor Air Duplicate Sampling Location DSCN4276 – Taken 5/3/2016 12:45

Image 12 – Sample station GM109 – (b) (6) Sub- Slab Soil Gas Sampling Location
DSCN4286 – Taken 5/3/2016 14:39

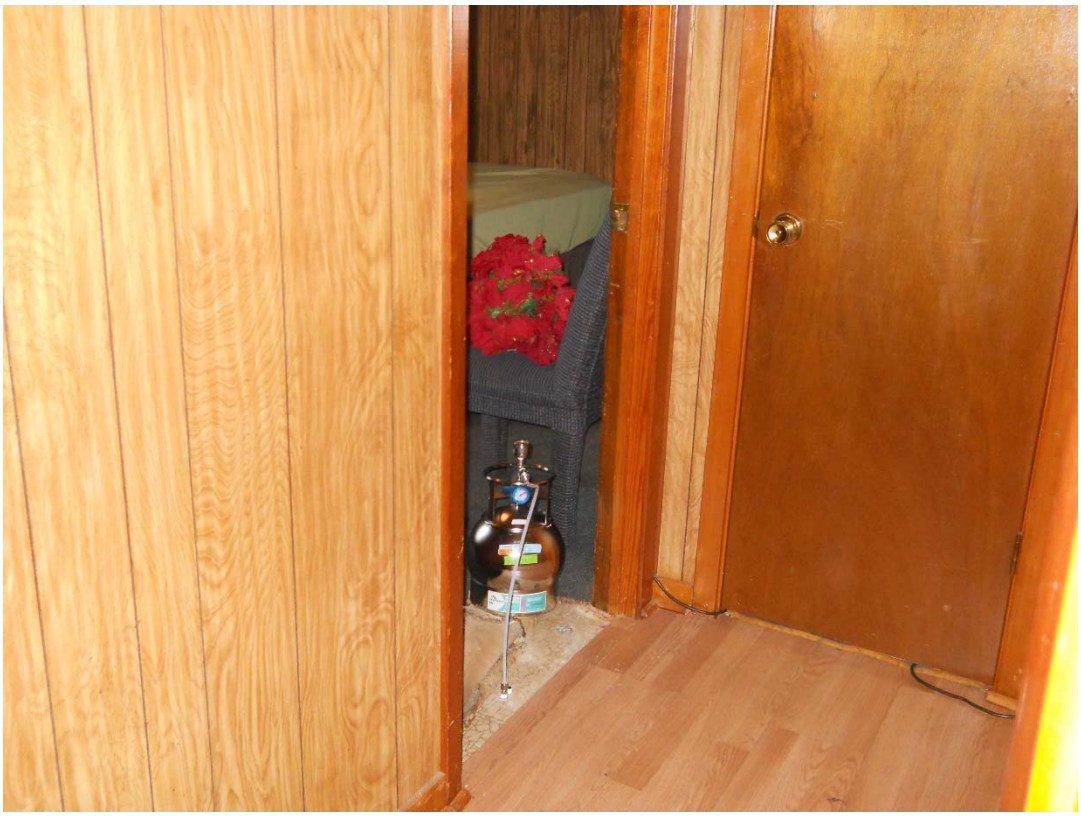

Image 13 – Sample station GM109 – (b) (6) Indoor Air Sampling Location
DSCN4288 – Taken 5/3/2016 14:40

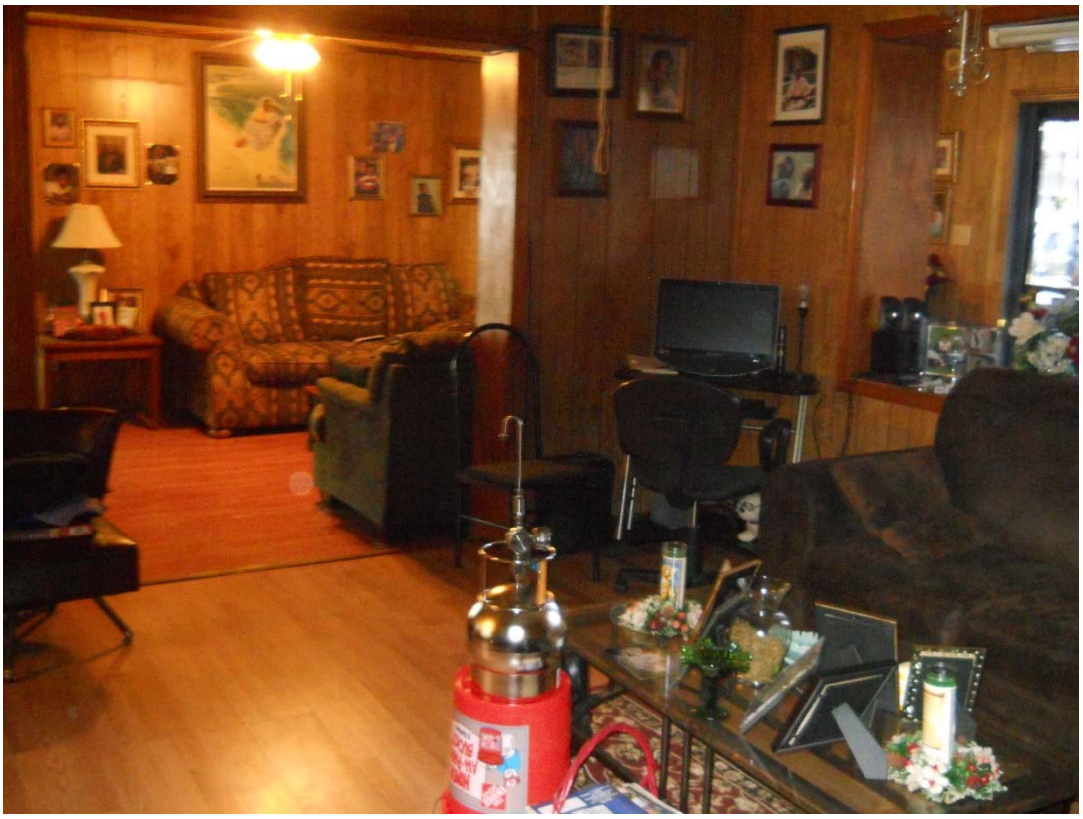

Image 14 – Sample station GM112 – (b) (6) Sub-Slab Soil Gas Sampling Location
DSCN4289 – Taken 5/3/2016 15:14

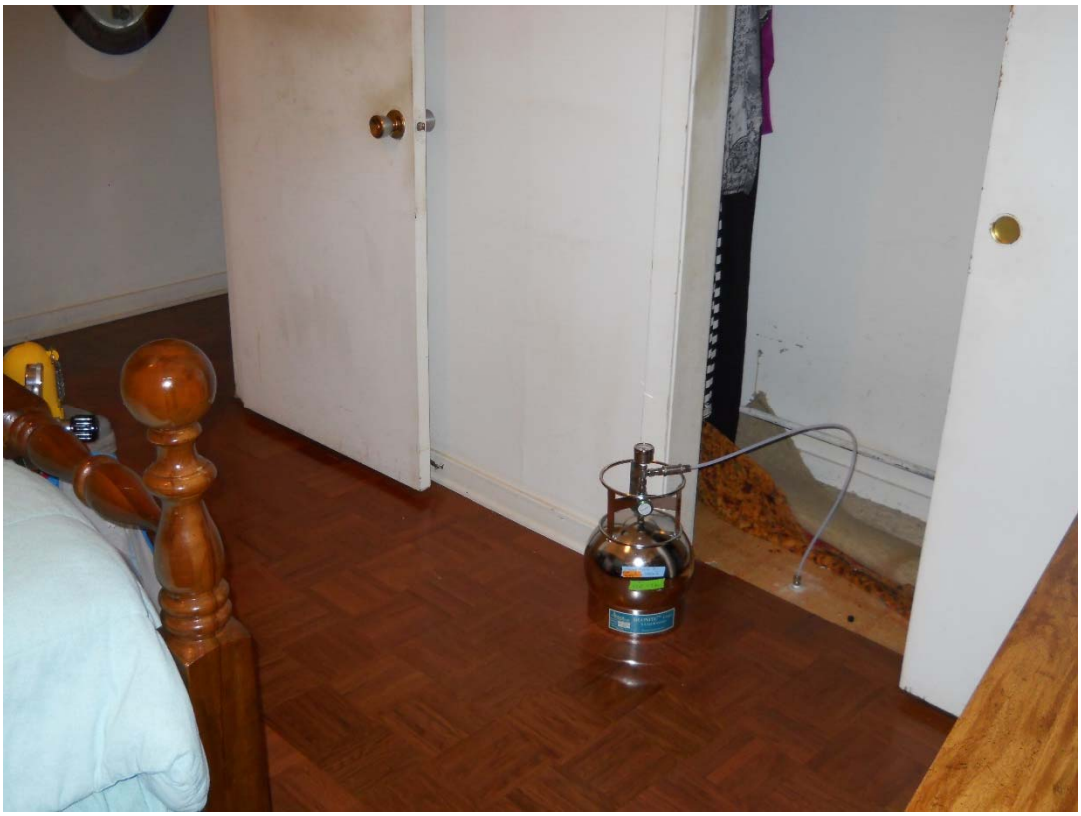

Image 15 – Sample station GM112 – (b) (6) Indoor Air Sampling Location
DSCN4290 – Taken 5/3/2016 15:14

Image 16 – Sample station GM117 – (b) (6) Sub-Slab Soil Gas Sampling Location
DSCN4299 – Taken 5/3/2016 16:13

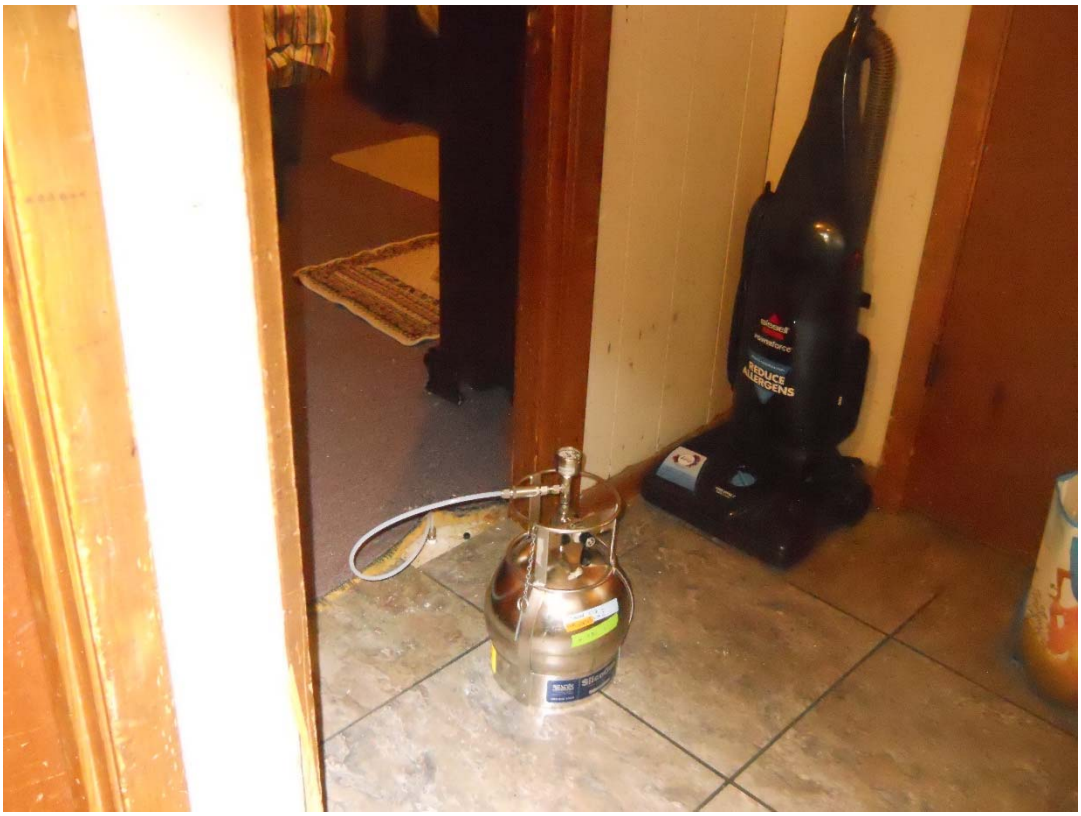

Image 17 – Sample station GM117 – (b) (6) Indoor Air Sampling Location
DSCN4300 – Taken 5/3/2016 16:19

Image 18 – Sample station GM120 – (b) (6) Circle Sub-Slab Soil Gas Sampling Location DSCN4301 – Taken 5/3/2016 17:09

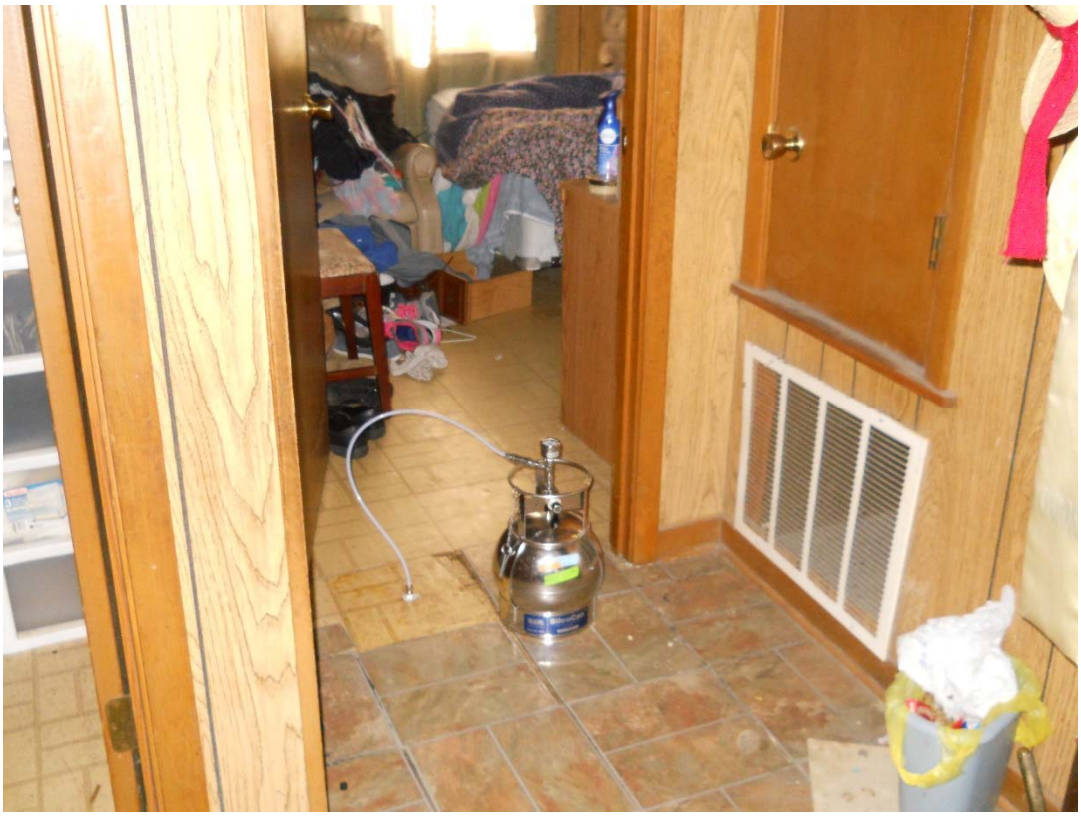

Image 19 – Sample station GM120 – (b) (6) Indoor Air Sampling Location DSCN4302 – Taken 5/3/2016 17:12

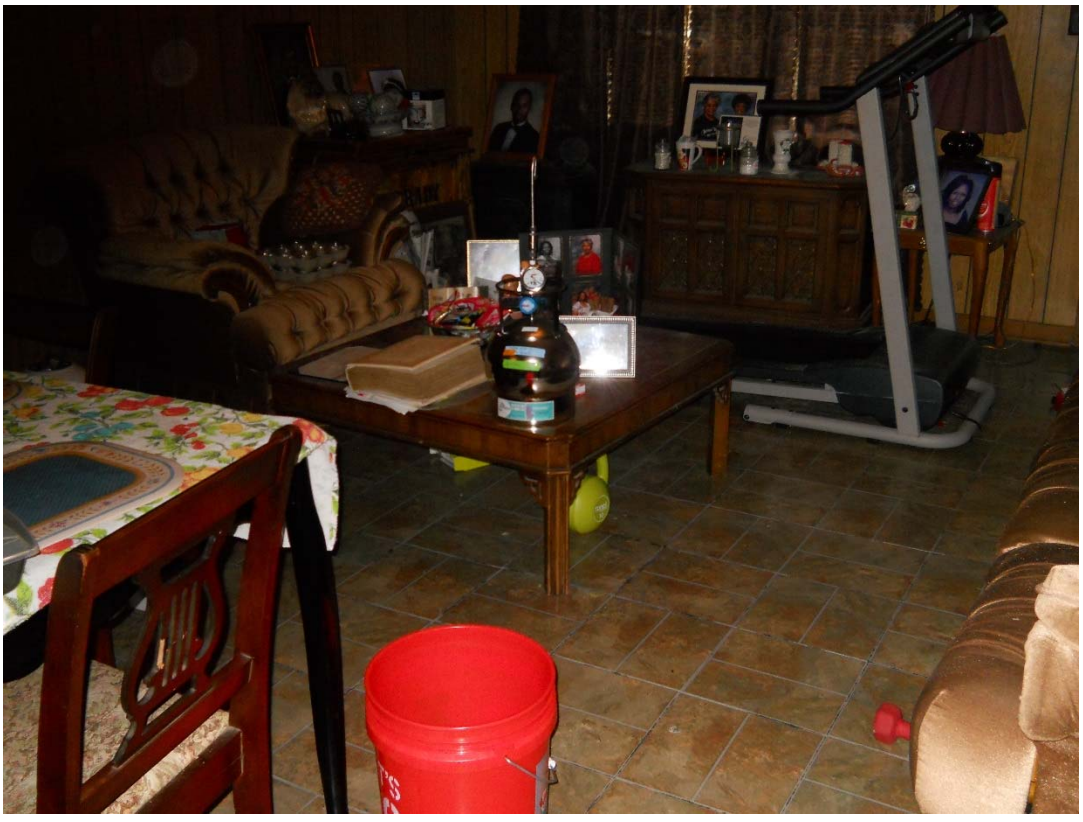

Image 20 – Sample station GM121 – (b) (6) [redacted] Sub Slab Soil Gas Sampling
DSCN4304 – Taken 5/3/2016 18:06

Image 21 – Sample station GM121 – (b) (6) [redacted] Indoor Air Sampling Location
DSCN4305 – Taken 5/3/2016 18:07

Image 22 – Sample station GM113 – (b) (6) Sub-Slab Soil Gas Sampling Location DSCN4308 – Taken 5/4/2016 08:45

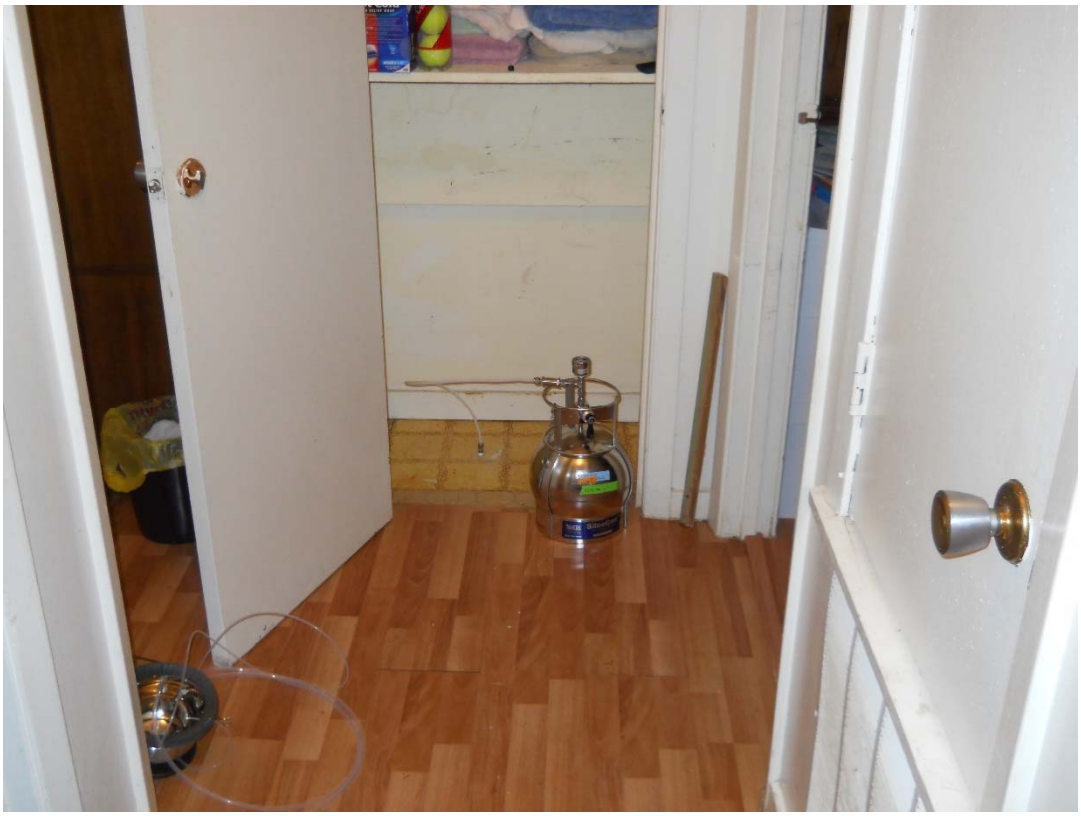

Image 23 – Sample station GM113 (b) (6) Indoor Air Sampling Location DSCN4309 – Taken 5/4/2016 09:05

Image 24 – Sample station GM111 – (b) (6) Sub-Slab Soil Gas Sampling Location
DSCN4310 – Taken 5/4/2016 09:35

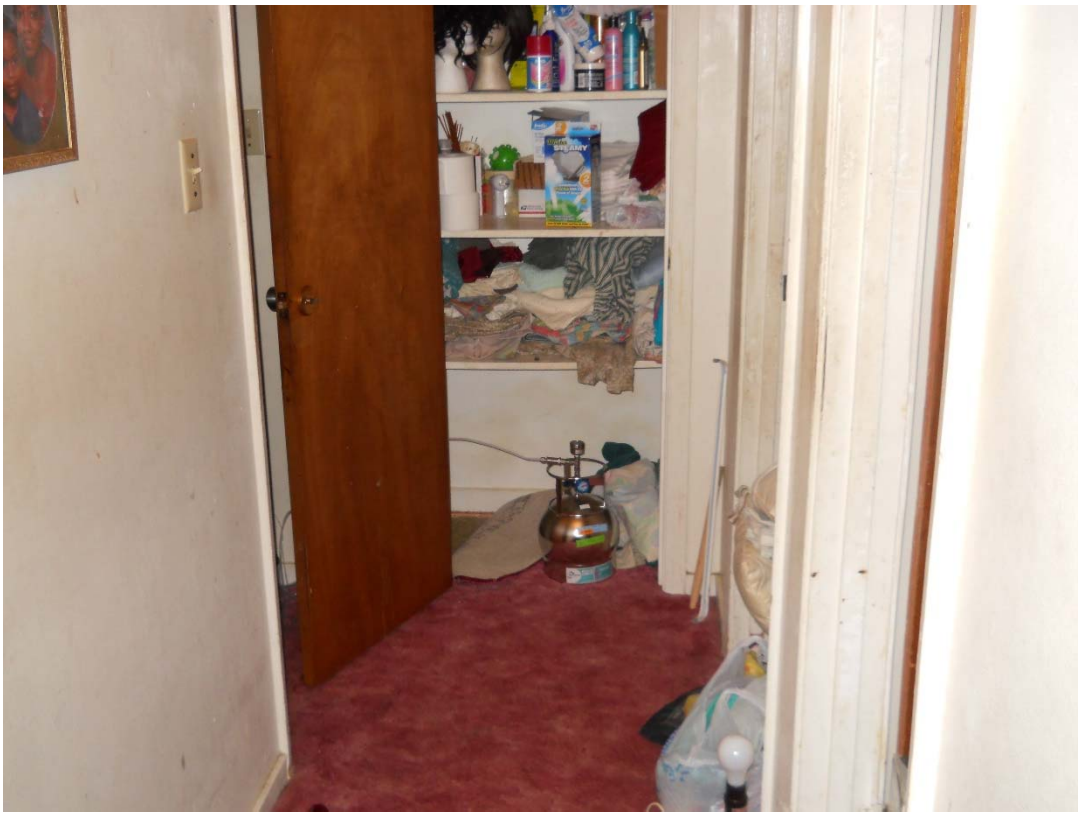

Image 25 – Sample station GM111 – (b) (6) Indoor Air Sampling Location
DSCN4311 – Taken 5/4/2016 09:40

Image 26– Sample station GM118 – (b) (6) Sub-Slab Sampling Location
DSCN4328 – Taken 5/4/2016 11:11

Image 27 – Sample station GM118 – (b) (6) Indoor Air Sampling Location
DSCN4329 – Taken 5/4/2016 11:16

Image 28 – Sample station GM122 – (b) (6) Sub-Slab Soil Gas Sampling Location
DSCN4332 – Taken 5/4/2016 11:59

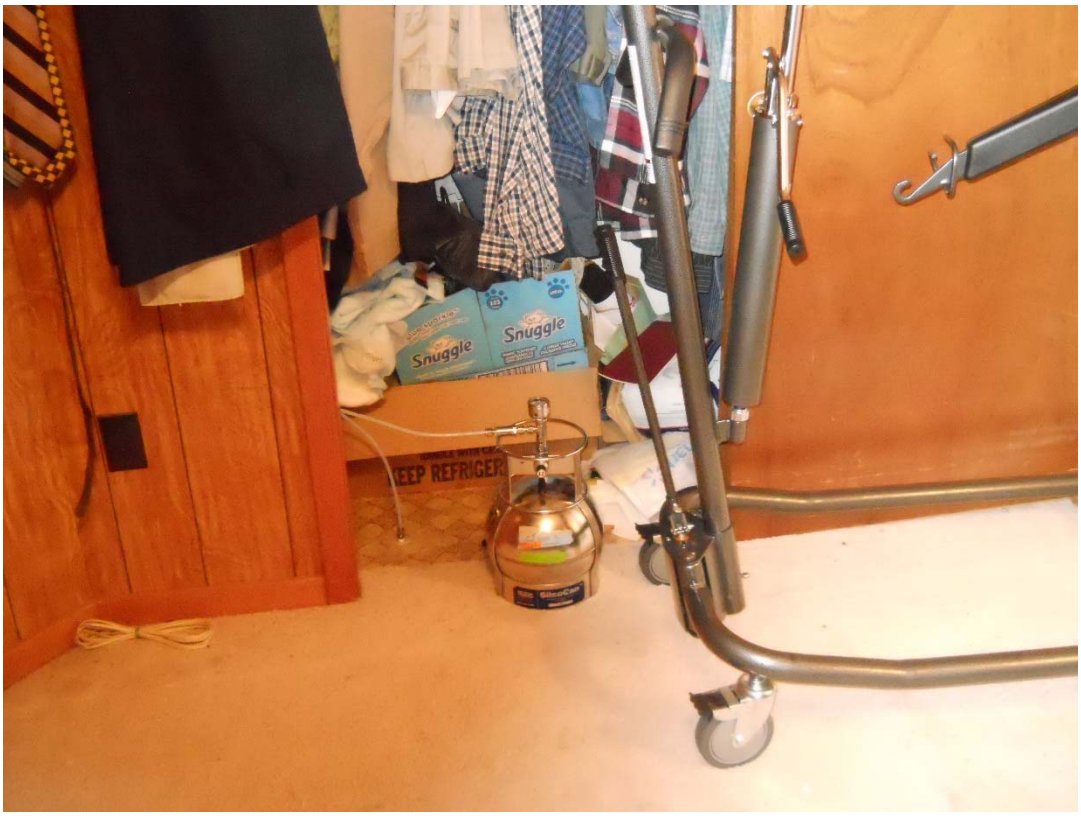

Image 29 – Sample station GM122 (b) (6) Indoor Air Sampling Location
DSCN4334 – Taken 5/4/2016 11:59

Image 30 – Sample station GM123 - (b) (6) Sub-Slab Soil Gas Sampling Location
DSCN4335 – Taken 5/4/2016 12:55

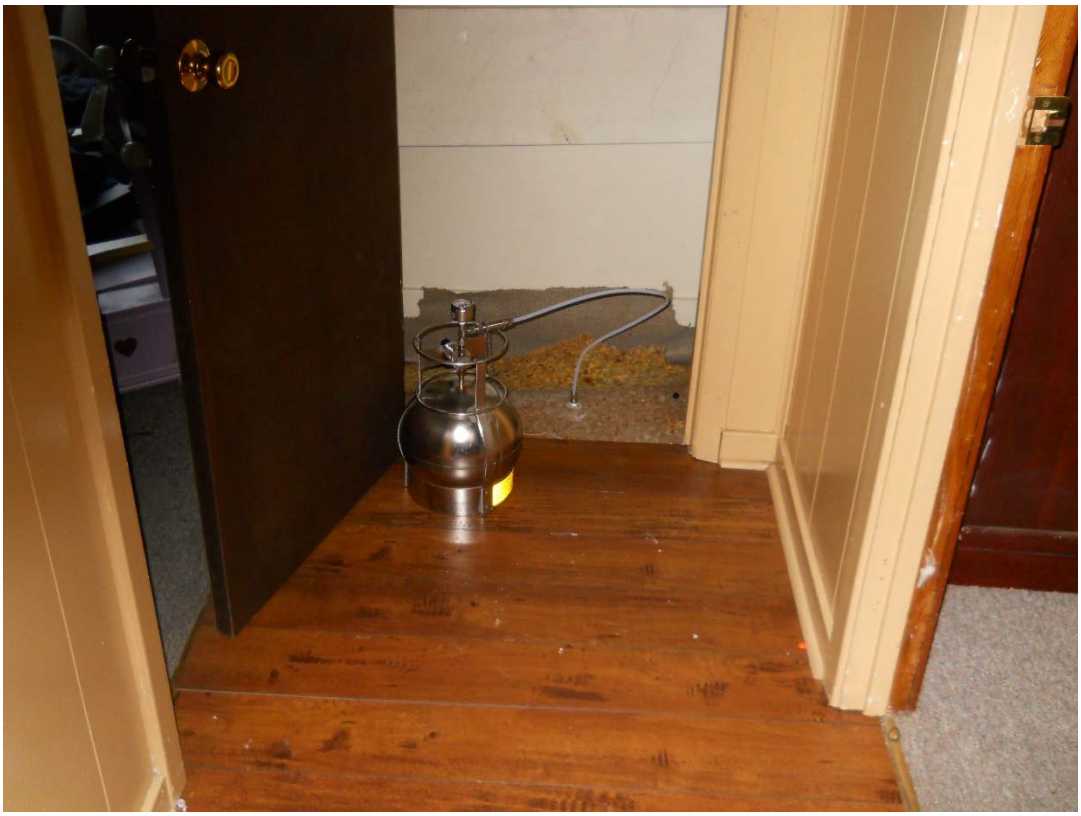

Image 31 – Sample station GM123 - (b) (6) Indoor Air Sampling Location
DSCN4336 – Taken 5/4/2016 13:18

Image 32 – Sample station GM108 – (b) (6) Sub Slab Soil Gas Split Sample Location
DSCN4339 – Taken 5/4/2016 15:46

Image 33 – Sample station GM 108 - (b) (6) Indoor Air Sampling Location
DSCN4342 – Taken 5/4/2016 15:51

Image 34 – Sample station GM119 – (b) (6) Sub Slab Soil Gas Sample Location
DSCN4346 – Taken 5/4/2016 17:10

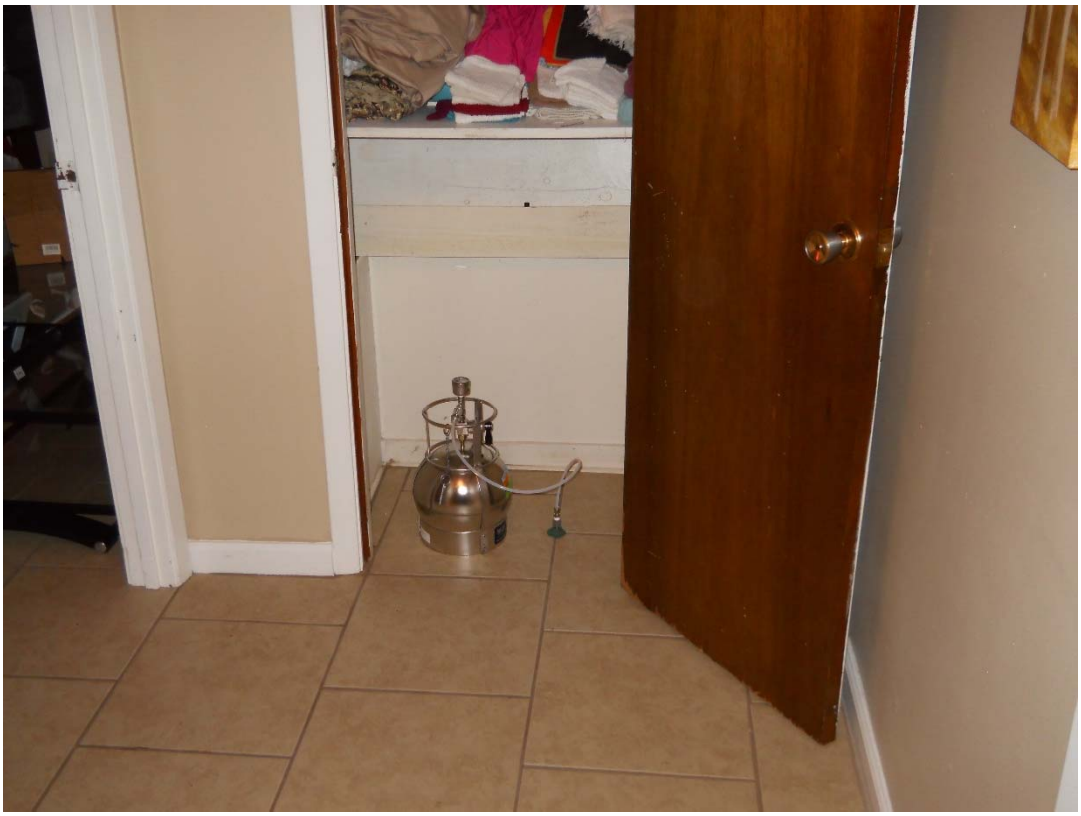

Image 35 – Sample station GM119 – (b) (6) Indoor Air Sampling Location
DSCN4347 – Taken 5/4/2016 17:12

Image 36 – Sample station GM116 – (b) (6) Sub Slab Soil Gas Sample Location
DSCN4348 – Taken 5/4/2016 18:15

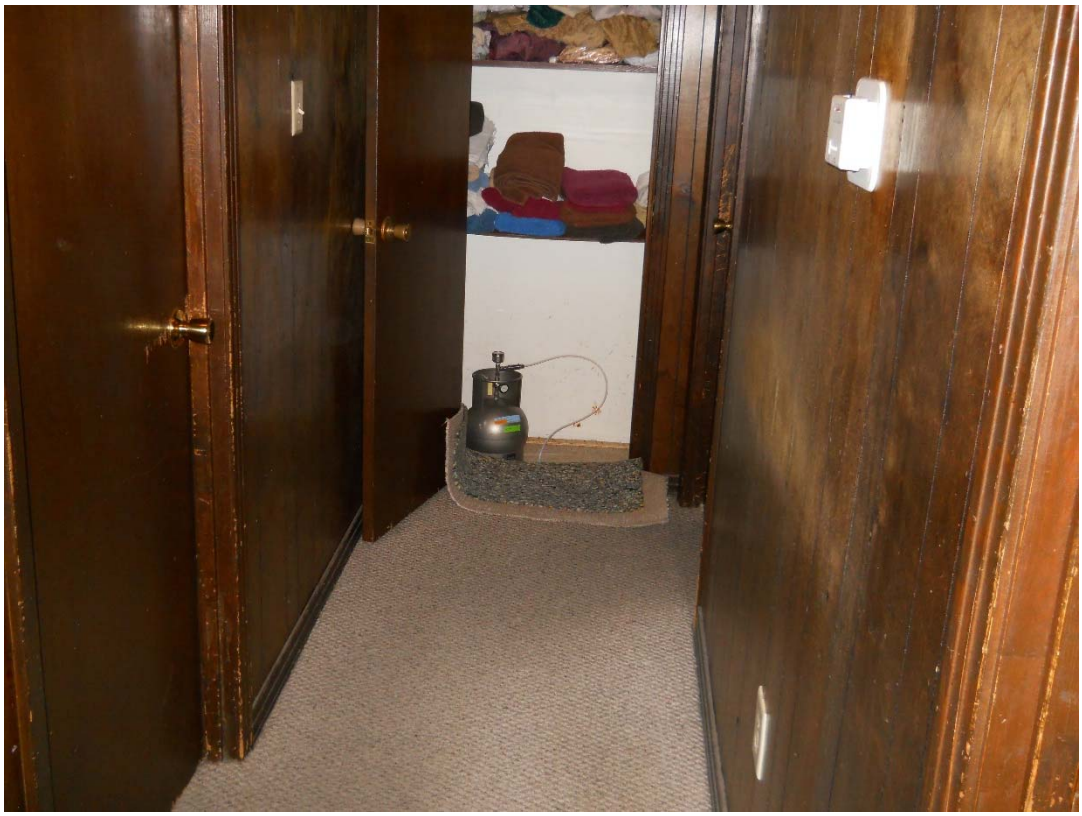

Image 37 – Sample station GM116 - (b) (6) Indoor Air Sampling Location
DSCN4349 – Taken 5/4/2016 18:17

Image 38 – Meteorological Station facing north
DSCN4249 – Taken 5/2/2016 13:58

Photograph Log

Digital Photo Identification Number	Date	Local Time	Sample Station	Photo Subject	Photographer
DSCN4240.JPG	5/2/2016	8:42	GM114	(b) (6) [redacted]. SS implant location	Tim Slagle
DSCN4241.JPG	5/2/2016	9:17	GM115	(b) (6) [redacted]. SS implant location	Tim Slagle
DSCN4242.JPG	5/2/2016	9:50	GM110	(b) (6) [redacted]. SS implant location	Tim Slagle
DSCN4243.JPG	5/2/2016	9:51	GM110	(b) (6) [redacted]. SS implant location	Tim Slagle
DSCN4244.JPG	5/2/2016	10:31	GM111	(b) (6) [redacted]. SS implant location	Tim Slagle
DSCN4245.JPG	5/2/2016	11:13	GM107	(b) (6) [redacted]. SS implant location	Tim Slagle
DSCN4246.JPG	5/2/2016	11:39	GM122	(b) (6) [redacted] SS implant install	Tim Slagle
DSCN4247.JPG	5/2/2016	11:48	GM122	(b) (6) [redacted] SS implant location	Tim Slagle
DSCN4248.JPG	5/2/2016	13:58	--	Meterological Station	Tim Slagle
DSCN4249.JPG	5/2/2016	13:58	--	Meterological Station	Tim Slagle
DSCN4250.JPG	5/2/2016	14:25	GM109	(b) (6) [redacted] SS implant location	Tim Slagle
DSCN4251.JPG	5/2/2016	15:01	GM117	(b) (6) [redacted]. SS implant location	Tim Slagle
DSCN4252.JPG	5/2/2016	15:52	GM121	(b) (6) [redacted]. SS implant location	Tim Slagle
DSCN4253.JPG	5/2/2016	16:47	GM112	(b) (6) [redacted]. SS implant location	Tim Slagle
DSCN4254.JPG	5/2/2016	17:30	GM120	(b) (6) [redacted]. SS implant location	Tim Slagle
DSCN4255.JPG	5/2/2016	18:21	GM118	(b) (6) [redacted] SS implant location	Tim Slagle
DSCN4256.JPG	5/2/2016	18:52	GM108	(b) (6) [redacted] SS implant location	Tim Slagle
DSCN4257.JPG	5/3/2016	7:14	GM01	South AA duplicate sample location	Tim Slagle
DSCN4258.JPG	5/3/2016	7:27	GM13	East AA location	Tim Slagle
DSCN4259.JPG	5/3/2016	7:39	GM12	North AA location	Tim Slagle
DSCN4260.JPG	5/3/2016	7:51	GM11	West AA location	Tim Slagle
DSCN4261.JPG	5/3/2016	8:53	GM110	(b) (6) [redacted] Cir. SS sampling	Tim Slagle
DSCN4262.JPG	5/3/2016	9:32	GM110	(b) (6) [redacted] r. IA sampling	Tim Slagle
DSCN4263.JPG	5/3/2016	9:42	--	TAGA	Tim Slagle
DSCN4264.JPG	5/3/2016	9:42	--	TAGA	Tim Slagle
DSCN4265.JPG	5/3/2016	9:43	--	TAGA	Tim Slagle
DSCN4266.JPG	5/3/2016	9:46	--	TAGA	Tim Slagle
DSCN4267.JPG	5/3/2016	9:46	--	TAGA	Tim Slagle
DSCN4268.JPG	5/3/2016	10:06	GM114	(b) (6) [redacted]. SS sampling	Tim Slagle
DSCN4269.JPG	5/3/2016	10:08	GM114	(b) (6) [redacted] SS sampling	Tim Slagle
DSCN4270.JPG	5/3/2016	10:08	GM114	(b) (6) [redacted]. SS sampling	Tim Slagle
DSCN4271.JPG	5/3/2016	10:19	GM114	(b) (6) [redacted] SS sampling	Tim Slagle
DSCN4272.JPG	5/3/2016	10:21	GM114	(b) (6) [redacted]. IA sampling	Tim Slagle
DSCN4273.JPG	5/3/2016	10:49	--	TAGA	Tim Slagle
DSCN4274.JPG	5/3/2016	11:32	GM115	(b) (6) [redacted] SS and IA sampling	Tim Slagle
	IA = Indoor Air				
	AA = Ambient Air (outdoor air)				
	SS = Sub-Slab Soil Gas (the sample is collected under the floor slab)				

Photograph Log continued

Digital Photo Identification Number	Date	Local Time	Sample Station	Photo Subject	Photographer
DSCN4275.JPG	5/3/2016	12:09	GM107	(b) (6) . SS split sample location	Tim Slagle
DSCN4276.JPG	5/3/2016	12:45	GM107	(b) (6) . IA duplicate sample location	Tim Slagle
DSCN4277.JPG	5/3/2016	13:42	--	TAGA	Tim Slagle
DSCN4278.JPG	5/3/2016	13:42	--	TAGA	Tim Slagle
DSCN4279.JPG	5/3/2016	13:42	--	TAGA	Tim Slagle
DSCN4280.JPG	5/3/2016	13:42	--	TAGA	Tim Slagle
DSCN4281.JPG	5/3/2016	13:42	--	TAGA	Tim Slagle
DSCN4282.JPG	5/3/2016	13:43	--	TAGA	Tim Slagle
DSCN4283.JPG	5/3/2016	14:26	GM109	(b) (6) . SS sampling	Gary Newhart -TAGA
DSCN4284.JPG	5/3/2016	14:28	GM109	(b) (6) . SS sampling	Gary Newhart -TAGA
DSCN4285.JPG	5/3/2016	14:28	GM109	(b) (6) . SS sampling	Gary Newhart -TAGA
DSCN4286.JPG	5/3/2016	14:39	GM109	(b) (6) SS sampling	Tim Slagle
DSCN4287.JPG	5/3/2016	14:39	GM109	(b) (6) SS sampling	Tim Slagle
DSCN4288.JPG	5/3/2016	14:40	GM109	(b) (6) . IA sampling	Tim Slagle
DSCN4289.JPG	5/3/2016	15:14	GM112	(b) (6) . SS sampling	Tim Slagle
DSCN4290.JPG	5/3/2016	15:14	GM112	(b) (6) . IA sampling	Tim Slagle
DSCN4291.JPG	5/3/2016	16:04	GM117	(b) (6) SS sampling	Gary Newhart -TAGA
DSCN4292.JPG	5/3/2016	16:05	GM117	(b) (6) SS sampling	Gary Newhart -TAGA
DSCN4293.JPG	5/3/2016	16:05	GM117	(b) (6) . SS sampling	Gary Newhart -TAGA
DSCN4294.JPG	5/3/2016	16:05	GM117	(b) (6) . SS sampling	Gary Newhart -TAGA
DSCN4295.JPG	5/3/2016	16:07	GM117	(b) (6) SS sampling	Gary Newhart -TAGA
DSCN4296.JPG	5/3/2016	16:08	GM117	(b) (6) . SS sampling	Gary Newhart -TAGA
DSCN4297.JPG	5/3/2016	16:12	GM117	(b) (6) SS sampling	Gary Newhart -TAGA
DSCN4298.JPG	5/3/2016	16:13	GM117	(b) (6) . SS sampling	Tim Slagle
DSCN4299.JPG	5/3/2016	16:13	GM117	(b) (6) . SS sampling	Tim Slagle
DSCN4300.JPG	5/3/2016	16:19	GM117	(b) (6) IA sampling	Tim Slagle
DSCN4301.JPG	5/3/2016	17:09	GM120	(b) (6) . SS sampling	Tim Slagle
DSCN4302.JPG	5/3/2016	17:12	GM120	(b) (6) IA sampling	Tim Slagle
DSCN4303.JPG	5/3/2016	18:06	GM121	(b) (6) . SS sampling	Tim Slagle
DSCN4304.JPG	5/3/2016	18:06	GM121	(b) (6) SS sampling	Tim Slagle
DSCN4305.JPG	5/3/2016	18:07	GM121	(b) (6) sampling	Tim Slagle
DSCN4306.JPG	5/4/2016	8:42	GM113	(b) (6) r. SS sampling	Tim Slagle
DSCN4307.JPG	5/4/2016	8:45	GM113	(b) (6) SS sampling	Tim Slagle
DSCN4308.JPG	5/4/2016	8:45	GM113	(b) (6) SS sampling	Tim Slagle
DSCN4309.JPG	5/4/2016	9:05	GM113	(b) (6) IA sampling	Tim Slagle
	IA = Indoor Air				
	AA = Ambient Air (outdoor air)				
	SS = Sub-Slab Soil Gas (the sample is collected under the floor slab)				

Photograph Log continued

Digital Photo Identification Number	Date	Local Time	Sample Station	Photo Subject	Photographer
DSCN4310.JPG	5/4/2016	9:35	GM111	(b) (6) . SS sampling	Tim Slagle
DSCN4311.JPG	5/4/2016	9:40	GM111	(b) (6) IA sampling	Tim Slagle
DSCN4312.JPG	5/4/2016	10:38	--	START soil gas sampling	Tim Slagle
DSCN4313.JPG	5/4/2016	10:38	--	START soil gas sampling	Tim Slagle
DSCN4314.JPG	5/4/2016	10:39	--	START soil gas sampling	Tim Slagle
DSCN4315.JPG	5/4/2016	10:59	GM118	(b) (6) . SS sampling	Brian Holtzclaw - EPA Region 4
DSCN4316.JPG	5/4/2016	10:59	GM118	(b) (6) . SS sampling	Brian Holtzclaw - EPA Region 4
DSCN4317.JPG	5/4/2016	10:59	GM118	(b) (6) . SS sampling	Brian Holtzclaw - EPA Region 4
DSCN4318.JPG	5/4/2016	11:00	GM118	(b) (6) . SS sampling	Brian Holtzclaw - EPA Region 4
DSCN4319.JPG	5/4/2016	11:00	GM118	(b) (6) . SS sampling	Brian Holtzclaw - EPA Region 4
DSCN4320.JPG	5/4/2016	11:01	GM118	(b) (6) . SS sampling	Brian Holtzclaw - EPA Region 4
DSCN4321.JPG	5/4/2016	11:01	GM118	(b) (6) . SS sampling	Brian Holtzclaw - EPA Region 4
DSCN4322.JPG	5/4/2016	11:01	GM118	(b) (6) . SS sampling	Brian Holtzclaw - EPA Region 4
DSCN4323.JPG	5/4/2016	11:03	GM118	(b) (6) . SS sampling	Brian Holtzclaw - EPA Region 4
DSCN4324.JPG	5/4/2016	11:08	GM118	(b) (6) SS sampling	Brian Holtzclaw - EPA Region 4
DSCN4325.JPG	5/4/2016	11:09	GM118	(b) (6) r. SS sampling	Brian Holtzclaw - EPA Region 4
DSCN4326.JPG	5/4/2016	11:09	GM118	(b) (6) . SS sampling	Brian Holtzclaw - EPA Region 4
DSCN4327.JPG	5/4/2016	11:10	GM118	(b) (6) . SS sampling	Brian Holtzclaw - EPA Region 4
DSCN4328.JPG	5/4/2016	11:11	GM118	(b) (6) . SS sampling	Tim Slagle
DSCN4329.JPG	5/4/2016	11:16	GM118	(b) (6) . IA sampling	Tim Slagle
DSCN4330.JPG	5/4/2016	11:46	GM122	(b) (6) S sampling	Tim Slagle
DSCN4331.JPG	5/4/2016	11:46	GM122	(b) (6) . SS sampling	Tim Slagle
DSCN4332.JPG	5/4/2016	11:59	GM122	(b) (6) . SS sampling	Tim Slagle
DSCN4333.JPG	5/4/2016	11:59	GM122	(b) (6) SS sampling	Tim Slagle
DSCN4334.JPG	5/4/2016	11:59	GM122	(b) (6) r. IA sampling	Tim Slagle
DSCN4335.JPG	5/4/2016	12:55	GM123	(b) (6) . SS sampling	Tim Slagle
DSCN4336.JPG	5/4/2016	13:14	GM123	(b) (6) IA sampling	Tim Slagle
DSCN4337.JPG	5/4/2016	15:28	--	TAGA	Tim Slagle
DSCN4338.JPG	5/4/2016	15:28	--	TAGA	Tim Slagle
DSCN4339.JPG	5/4/2016	15:46	GM108	(b) (6) . SS split sample location	Tim Slagle
DSCN4340.JPG	5/4/2016	15:47	GM108	(b) (6) . SS split sample location	Tim Slagle
DSCN4341.JPG	5/4/2016	15:50	GM108	(b) (6) IA duplicate sample location	Tim Slagle
DSCN4342.JPG	5/4/2016	15:51	GM108	(b) (6) IA duplicate sample location	Tim Slagle
DSCN4343.JPG	5/4/2016	16:43	--	TAGA	Tim Slagle
DSCN4344.JPG	5/4/2016	16:44	--	TAGA	Tim Slagle
	IA = Indoor Air				
	AA = Ambient Air (outdoor air)				
	SS = Sub-Slab Soil Gas (the sample is collected under the floor slab)				

Photograph Log continued

Digital Photo Identification Number	Date	Local Time	Sample Station	Photo Subject	Photographer
DSCN4345.JPG	5/4/2016	16:48	--	TAGA	Tim Slagle
DSCN4346.JPG	5/4/2016	17:10	GM119	(b) (6) . SS sampling	Tim Slagle
DSCN4347.JPG	5/4/2016	17:12	GM119	(b) (6) . IA sampling	Tim Slagle
DSCN4348.JPG	5/4/2016	18:15	GM116	(b) (6) SS sampling	Tim Slagle
DSCN4349.JPG	5/4/2016	18:17	GM116	(b) (6) IA sampling	Tim Slagle
	IA = Indoor Air				
	AA = Ambient Air (outdoor air)				
	SS = Sub-Slab Soil Gas (the sample is collected under the floor slab)				

Photographs


DSCN4240.JPG


DSCN4241.JPG


DSCN4242.JPG


DSCN4243.JPG


DSCN4244.JPG


DSCN4245.JPG


DSCN4246.JPG


DSCN4247.JPG


DSCN4248.JPG


DSCN4249.JPG


DSCN4250.JPG


DSCN4251.JPG


DSCN4252.JPG


DSCN4253.JPG


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DSCN4256.JPG


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DSCN4258.JPG


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DSCN4273.JPG


DSCN4274.JPG

Photographs continued


DSCN4275.JPG


DSCN4276.JPG


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DSCN4299.JPG


DSCN4300.JPG


DSCN4301.JPG


DSCN4302.JPG


DSCN4303.JPG


DSCN4304.JPG


DSCN4305.JPG


DSCN4306.JPG


DSCN4307.JPG


DSCN4308.JPG


DSCN4309.JPG

Photographs continued


DSCN4310.JPG


DSCN4311.JPG


DSCN4312.JPG


DSCN4313.JPG


DSCN4314.JPG


DSCN4315.JPG


DSCN4316.JPG


DSCN4317.JPG


DSCN4318.JPG


DSCN4319.JPG


DSCN4320.JPG


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DSCN4343.JPG


DSCN4344.JPG

Photographs continued


DSCN4345.JPG


DSCN4346.JPG


DSCN4347.JPG


DSCN4348.JPG


DSCN4349.JPG

Appendix E

Attachments

(Each attachments are individually numbered)

FINAL Analytical Report – VOC Air (75 pages)
Field Sampling Logbook (48 pages)
Chain of Custody (6 pages)

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 16-0152
Project: 16-0323, Grenada Manufacturing - Reported by Sallie Hale

June 8, 2016

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 16-0323, Grenada Manufacturing
Resource Conservation and Recovery Act

FROM: Sallie Hale
OCS Analyst

THRU: Floyd Wellborn, Chief
ASB Organic Chemistry Section

TO: Tim Slagle

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
Volatile Organics (VOA)		
Volatile organic compounds	EPA TO-15 (Air)	ISO

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov, and provide a reason for holding samples beyond 60 days

SAMPLES INCLUDED IN THIS REPORT

Project: 16-0323, Grenada Manufacturing

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
GMTBA010516	E162001-01	Trip Blank Air	5/2/16 08:00	5/6/16 17:51
GMTBB010516	E162001-02	Trip Blank Air	5/4/16 08:00	5/6/16 17:51
GMTBC0516	E162001-03	Trip Blank Air	5/5/16 08:00	5/6/16 17:51
GM01AA0516	E162001-04	Ambient Air	5/3/16 07:12	5/6/16 17:51
GM01AA20516	E162001-05	Ambient Air	5/4/16 07:17	5/6/16 17:51
GM01AA30516	E162001-06	Ambient Air	5/5/16 07:30	5/6/16 17:51
GM01AAD0516	E162001-07	Ambient Air	5/3/16 07:12	5/6/16 17:51
GM01AAD20516	E162001-08	Ambient Air	5/4/16 07:17	5/6/16 17:51
GM01AAD30516	E162001-09	Ambient Air	5/5/16 07:30	5/6/16 17:51
GM107IA0516	E162001-10	Indoor Air	5/3/16 12:43	5/6/16 17:51
GM107IAD0516	E162001-11	Indoor Air	5/3/16 12:43	5/6/16 17:51
GM107SS0516	E162001-12	Soil Gas	5/3/16 12:05	5/6/16 17:51
GM107SSS0516	E162001-13	Soil Gas	5/3/16 12:05	5/6/16 17:51
GM108IA0516	E162001-14	Indoor Air	5/4/16 16:27	5/6/16 17:51
GM108IAD0516	E162001-15	Indoor Air	5/4/16 16:27	5/6/16 17:51
GM108SS0516	E162001-16	Soil Gas	5/4/16 15:45	5/6/16 17:51
GM108SSS0516	E162001-17	Soil Gas	5/4/16 15:45	5/6/16 17:51
GM109IA0516	E162001-18	Indoor Air	5/3/16 15:35	5/6/16 17:51
GM109SS0516	E162001-19	Soil Gas	5/3/16 14:33	5/6/16 17:51
GM11AA0516	E162001-20	Ambient Air	5/3/16 07:50	5/6/16 17:51
GM11AA20516	E162001-21	Ambient Air	5/4/16 07:49	5/6/16 17:51
GM11AA30516	E162001-22	Ambient Air	5/5/16 07:55	5/6/16 17:51
GM110IA0516	E162001-23	Indoor Air	5/3/16 09:30	5/6/16 17:51
GM110SS0516	E162001-24	Soil Gas	5/3/16 08:50	5/6/16 17:51
GM111IA0516	E162001-25	Indoor Air	5/4/16 10:18	5/6/16 17:51
GM111SS0516	E162001-26	Soil Gas	5/4/16 09:35	5/6/16 17:51
GM112IA0516	E162001-27	Indoor Air	5/3/16 15:47	5/6/16 17:51
GM112SS0516	E162001-28	Soil Gas	5/3/16 15:10	5/6/16 17:51
GM113IA0516	E162001-29	Indoor Air	5/4/16 09:22	5/6/16 17:51
GM113SS0516	E162001-30	Soil Gas	5/4/16 08:43	5/6/16 17:51
GM114IA0516	E162001-31	Indoor Air	5/3/16 10:54	5/6/16 17:51
GM114SS0516	E162001-32	Soil Gas	5/4/16 10:13	5/6/16 17:51
GM115IA0516	E162001-33	Indoor Air	5/3/16 11:40	5/6/16 17:51
GM115SS0516	E162001-34	Soil Gas	5/3/16 11:08	5/6/16 17:51

GM116IA0516	E162001-35	Indoor Air	5/4/16 18:48	5/6/16 17:51
GM116SS0516	E162001-36	Soil Gas	5/4/16 18:08	5/6/16 17:51
GM117IA0516	E162001-37	Indoor Air	5/3/16 16:48	5/6/16 17:51
GM117SS0516	E162001-38	Soil Gas	5/3/16 16:10	5/6/16 17:51
GM118IA0516	E162001-39	Indoor Air	5/4/16 12:06	5/6/16 17:51
GM118SS0516	E162001-40	Soil Gas	5/4/16 11:07	5/6/16 17:51
GM119IA0516	E162001-41	Indoor Air	5/4/16 17:55	5/6/16 17:51
GM119SS0516	E162001-42	Soil Gas	5/4/16 17:07	5/6/16 17:51
GM12AA0516	E162001-43	Ambient Air	5/3/16 07:37	5/6/16 17:51
GM12AA20516	E162001-44	Ambient Air	5/4/16 07:36	5/6/16 17:51
GM12AA30516	E162001-45	Ambient Air	5/5/16 07:47	5/6/16 17:51
GM120IA0516	E162001-46	Indoor Air	5/3/16 17:40	5/6/16 17:51
GM120SS0516	E162001-47	Soil Gas	5/3/16 17:05	5/6/16 17:51
GM121IA0516	E162001-48	Indoor Air	5/3/16 18:38	5/6/16 17:51
GM121SS0516	E162001-49	Soil Gas	5/3/16 18:02	5/6/16 17:51
GM122IA0516	E162001-50	Indoor Air	5/4/16 12:37	5/6/16 17:51
GM122SS0516	E162001-51	Soil Gas	5/4/16 11:54	5/6/16 17:51
GM123IA0516	E162001-52	Indoor Air	5/4/16 13:30	5/6/16 17:51
GM123SS0516	E162001-53	Soil Gas	5/4/16 12:40	5/6/16 17:51
GM13AA0516	E162001-54	Ambient Air	5/3/16 07:25	5/6/16 17:51
GM13AA20516	E162001-55	Ambient Air	5/4/16 07:27	5/6/16 17:51
GM13AA30516	E162001-56	Ambient Air	5/5/16 07:38	5/6/16 17:51

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
QL-2	Laboratory Control Spike Recovery greater than method control limits
QR-2	MRL verification recovery greater than upper control limits.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

ISO The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.

NR The EPA Region 4 Laboratory has not requested accreditation for this test.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 16-0152
Project: 16-0323, Grenada Manufacturing - Reported by Sallie Hale

Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GMTBA010516 **Lab ID:** E162001-01

Station ID: **Matrix:** Trip Blank Air

Date Collected: 5/2/16 8:00

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/m3	0.50 / 5.0	5/10/16 13:54	5/13/16 17:52	EPA TO-15
79-00-5	1,1,2-Trichloroethane	3.1	U	ug/m3	0.31 / 3.1	5/10/16 13:54	5/13/16 17:52	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.1	U	ug/m3	0.21 / 2.1	5/10/16 13:54	5/13/16 17:52	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.8	U	ug/m3	0.28 / 2.8	5/10/16 13:54	5/13/16 17:52	EPA TO-15
107-06-2	1,2-Dichloroethane	2.2	U	ug/m3	0.29 / 2.2	5/10/16 13:54	5/13/16 17:52	EPA TO-15
71-43-2	Benzene	1.8	U	ug/m3	0.18 / 1.8	5/10/16 13:54	5/13/16 17:52	EPA TO-15
67-66-3	Chloroform	2.7	U	ug/m3	0.27 / 2.7	5/10/16 13:54	5/13/16 17:52	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.2	U	ug/m3	0.22 / 2.2	5/10/16 13:54	5/13/16 17:52	EPA TO-15
100-41-4	Ethyl Benzene	2.5	U	ug/m3	0.25 / 2.5	5/10/16 13:54	5/13/16 17:52	EPA TO-15
75-09-2	Methylene Chloride	1.9	U	ug/m3	0.21 / 1.9	5/10/16 13:54	5/13/16 17:52	EPA TO-15
95-47-6	o-Xylene	2.5	U	ug/m3	0.25 / 2.5	5/10/16 13:54	5/13/16 17:52	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.8	U	ug/m3	0.38 / 3.8	5/10/16 13:54	5/13/16 17:52	EPA TO-15
108-88-3	Toluene	2.1	U	ug/m3	0.21 / 2.1	5/10/16 13:54	5/13/16 17:52	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.3	U	ug/m3	0.23 / 2.3	5/10/16 13:54	5/13/16 17:52	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	3.0	U	ug/m3	0.30 / 3.0	5/10/16 13:54	5/13/16 17:52	EPA TO-15
75-01-4	Vinyl chloride	1.4	U	ug/m3	0.14 / 1.4	5/10/16 13:54	5/13/16 17:52	EPA TO-15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 16-0152
Project: 16-0323, Grenada Manufacturing - Reported by Sallie Hale

Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GMTBB010516 **Lab ID:** E162001-02

Station ID: **Matrix:** Trip Blank Air

Date Collected: 5/4/16 8:00

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.6	U	ug/m3	0.46 / 4.6	5/11/16 11:21	5/18/16 18:01	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.9	U	ug/m3	0.29 / 2.9	5/11/16 11:21	5/18/16 18:01	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:21	5/18/16 18:01	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.6	U	ug/m3	0.26 / 2.6	5/11/16 11:21	5/18/16 18:01	EPA TO-15
107-06-2	1,2-Dichloroethane	2.0	U	ug/m3	0.27 / 2.0	5/11/16 11:21	5/18/16 18:01	EPA TO-15
71-43-2	Benzene	1.6	U	ug/m3	0.16 / 1.6	5/11/16 11:21	5/18/16 18:01	EPA TO-15
67-66-3	Chloroform	2.5	U	ug/m3	0.25 / 2.5	5/11/16 11:21	5/18/16 18:01	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:21	5/18/16 18:01	EPA TO-15
100-41-4	Ethyl Benzene	2.3	U	ug/m3	0.23 / 2.3	5/11/16 11:21	5/18/16 18:01	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	0.19 / 1.7	5/11/16 11:21	5/18/16 18:01	EPA TO-15
95-47-6	o-Xylene	2.3	U	ug/m3	0.23 / 2.3	5/11/16 11:21	5/18/16 18:01	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	0.35 / 3.5	5/11/16 11:21	5/18/16 18:01	EPA TO-15
108-88-3	Toluene	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:21	5/18/16 18:01	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/11/16 11:21	5/18/16 18:01	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	0.28 / 2.8	5/11/16 11:21	5/18/16 18:01	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	0.13 / 1.3	5/11/16 11:21	5/18/16 18:01	EPA TO-15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 16-0152
Project: 16-0323, Grenada Manufacturing - Reported by Sallie Hale

Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GMTBC0516 **Lab ID:** E162001-03

Station ID: **Matrix:** Trip Blank Air

Date Collected: 5/5/16 8:00

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.8	U	ug/m3	0.48 / 4.8	5/11/16 11:24	5/24/16 20:16	EPA TO-15
79-00-5	1,1,2-Trichloroethane	3.0	U	ug/m3	0.30 / 3.0	5/11/16 11:24	5/24/16 20:16	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:24	5/24/16 20:16	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.7	U	ug/m3	0.27 / 2.7	5/11/16 11:24	5/24/16 20:16	EPA TO-15
107-06-2	1,2-Dichloroethane	2.1	U	ug/m3	0.28 / 2.1	5/11/16 11:24	5/24/16 20:16	EPA TO-15
71-43-2	Benzene	1.7	U	ug/m3	0.17 / 1.7	5/11/16 11:24	5/24/16 20:16	EPA TO-15
67-66-3	Chloroform	2.6	U	ug/m3	0.26 / 2.6	5/11/16 11:24	5/24/16 20:16	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/11/16 11:24	5/24/16 20:16	EPA TO-15
100-41-4	Ethyl Benzene	2.4	U	ug/m3	0.24 / 2.4	5/11/16 11:24	5/24/16 20:16	EPA TO-15
75-09-2	Methylene Chloride	1.8	U	ug/m3	0.20 / 1.8	5/11/16 11:24	5/24/16 20:16	EPA TO-15
95-47-6	o-Xylene	2.4	U	ug/m3	0.24 / 2.4	5/11/16 11:24	5/24/16 20:16	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.6	U	ug/m3	0.36 / 3.6	5/11/16 11:24	5/24/16 20:16	EPA TO-15
108-88-3	Toluene	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:24	5/24/16 20:16	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:24	5/24/16 20:16	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.9	U	ug/m3	0.29 / 2.9	5/11/16 11:24	5/24/16 20:16	EPA TO-15
75-01-4	Vinyl chloride	1.4	U	ug/m3	0.14 / 1.4	5/11/16 11:24	5/24/16 20:16	EPA TO-15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 16-0152
Project: 16-0323, Grenada Manufacturing - Reported by Sallie Hale

Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM01AA0516 **Lab ID:** E162001-04

Station ID: GM01 **Matrix:** Ambient Air

Date Collected: 5/3/16 7:12

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.7	U	ug/m3	0.47 / 4.7	5/10/16 13:54	5/13/16 18:42	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.9	U	ug/m3	0.29 / 2.9	5/10/16 13:54	5/13/16 18:42	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	0.20 / 2.0	5/10/16 13:54	5/13/16 18:42	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.6	U	ug/m3	0.26 / 2.6	5/10/16 13:54	5/13/16 18:42	EPA TO-15
107-06-2	1,2-Dichloroethane	2.1	U	ug/m3	0.27 / 2.1	5/10/16 13:54	5/13/16 18:42	EPA TO-15
71-43-2	Benzene	0.57	J, Q-2	ug/m3	0.17 / 1.7	5/10/16 13:54	5/13/16 18:42	EPA TO-15
67-66-3	Chloroform	2.5	U	ug/m3	0.25 / 2.5	5/10/16 13:54	5/13/16 18:42	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/10/16 13:54	5/13/16 18:42	EPA TO-15
100-41-4	Ethyl Benzene	2.3	U	ug/m3	0.23 / 2.3	5/10/16 13:54	5/13/16 18:42	EPA TO-15
75-09-2	Methylene Chloride	1.8	U	ug/m3	1.8 / 1.8	5/10/16 13:54	5/13/16 18:42	EPA TO-15
95-47-6	o-Xylene	2.3	U	ug/m3	0.23 / 2.3	5/10/16 13:54	5/13/16 18:42	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.6	U	ug/m3	0.36 / 3.6	5/10/16 13:54	5/13/16 18:42	EPA TO-15
108-88-3	Toluene	0.96	J, Q-2	ug/m3	0.20 / 2.0	5/10/16 13:54	5/13/16 18:42	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	0.22 / 2.2	5/10/16 13:54	5/13/16 18:42	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	0.28 / 2.8	5/10/16 13:54	5/13/16 18:42	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	0.13 / 1.3	5/10/16 13:54	5/13/16 18:42	EPA TO-15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 16-0152
Project: 16-0323, Grenada Manufacturing - Reported by Sallie Hale

Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM01AA20516 **Lab ID:** E162001-05
Station ID: GM01 **Matrix:** Ambient Air

Date Collected: 5/4/16 7:17

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.5	U	ug/m3	0.45 / 4.5	5/10/16 13:54	5/13/16 19:32	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	0.28 / 2.8	5/10/16 13:54	5/13/16 19:32	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	0.19 / 1.9	5/10/16 13:54	5/13/16 19:32	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.5	U	ug/m3	0.25 / 2.5	5/10/16 13:54	5/13/16 19:32	EPA TO-15
107-06-2	1,2-Dichloroethane	2.0	U	ug/m3	0.26 / 2.0	5/10/16 13:54	5/13/16 19:32	EPA TO-15
71-43-2	Benzene	0.44	J, Q-2	ug/m3	0.16 / 1.6	5/10/16 13:54	5/13/16 19:32	EPA TO-15
67-66-3	Chloroform	2.4	U	ug/m3	0.24 / 2.4	5/10/16 13:54	5/13/16 19:32	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	0.28	J, Q-2	ug/m3	0.20 / 2.0	5/10/16 13:54	5/13/16 19:32	EPA TO-15
100-41-4	Ethyl Benzene	2.2	U	ug/m3	0.22 / 2.2	5/10/16 13:54	5/13/16 19:32	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7 / 1.7	5/10/16 13:54	5/13/16 19:32	EPA TO-15
95-47-6	o-Xylene	2.2	U	ug/m3	0.22 / 2.2	5/10/16 13:54	5/13/16 19:32	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.4	U	ug/m3	0.34 / 3.4	5/10/16 13:54	5/13/16 19:32	EPA TO-15
108-88-3	Toluene	0.69	J, Q-2	ug/m3	0.19 / 1.9	5/10/16 13:54	5/13/16 19:32	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/10/16 13:54	5/13/16 19:32	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.7	U	ug/m3	0.27 / 2.7	5/10/16 13:54	5/13/16 19:32	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	0.13 / 1.3	5/10/16 13:54	5/13/16 19:32	EPA TO-15

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D.A.R.T. Id: 16-0152
Project: 16-0323, Grenada Manufacturing - Reported by Sallie Hale

Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM01AA30516 **Lab ID:** E162001-06
Station ID: GM01 **Matrix:** Ambient Air

Date Collected: 5/5/16 7:30

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	J, Q-2	ug/m3	0.44 / 4.4	5/10/16 13:54	5/13/16 20:23	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	0.28 / 2.8	5/10/16 13:54	5/13/16 20:23	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	0.19 / 1.9	5/10/16 13:54	5/13/16 20:23	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.54	J, Q-2	ug/m3	0.25 / 2.5	5/10/16 13:54	5/13/16 20:23	EPA TO-15
107-06-2	1,2-Dichloroethane	2.0	U	ug/m3	0.26 / 2.0	5/10/16 13:54	5/13/16 20:23	EPA TO-15
71-43-2	Benzene	0.62	J, Q-2	ug/m3	0.16 / 1.6	5/10/16 13:54	5/13/16 20:23	EPA TO-15
67-66-3	Chloroform	2.4	U	ug/m3	0.24 / 2.4	5/10/16 13:54	5/13/16 20:23	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	0.40	J, Q-2	ug/m3	0.20 / 2.0	5/10/16 13:54	5/13/16 20:23	EPA TO-15
100-41-4	Ethyl Benzene	0.39	J, Q-2	ug/m3	0.22 / 2.2	5/10/16 13:54	5/13/16 20:23	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7 / 1.7	5/10/16 13:54	5/13/16 20:23	EPA TO-15
95-47-6	o-Xylene	0.49	J, Q-2	ug/m3	0.22 / 2.2	5/10/16 13:54	5/13/16 20:23	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.4	U	ug/m3	0.34 / 3.4	5/10/16 13:54	5/13/16 20:23	EPA TO-15
108-88-3	Toluene	2.0		ug/m3	0.19 / 1.9	5/10/16 13:54	5/13/16 20:23	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/10/16 13:54	5/13/16 20:23	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.7	U	ug/m3	0.27 / 2.7	5/10/16 13:54	5/13/16 20:23	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	0.13 / 1.3	5/10/16 13:54	5/13/16 20:23	EPA TO-15

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Project: 16-0323, Grenada Manufacturing - Reported by Sallie Hale

Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM01AAD0516 **Lab ID:** E162001-07
Station ID: GM01 **Matrix:** Ambient Air

Date Collected: 5/3/16 7:12

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.6	U	ug/m3	0.46 / 4.6	5/10/16 13:54	5/13/16 21:13	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.9	U	ug/m3	0.29 / 2.9	5/10/16 13:54	5/13/16 21:13	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	0.19 / 1.9	5/10/16 13:54	5/13/16 21:13	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.6	U	ug/m3	0.26 / 2.6	5/10/16 13:54	5/13/16 21:13	EPA TO-15
107-06-2	1,2-Dichloroethane	2.0	U	ug/m3	0.27 / 2.0	5/10/16 13:54	5/13/16 21:13	EPA TO-15
71-43-2	Benzene	0.61	J, Q-2	ug/m3	0.16 / 1.6	5/10/16 13:54	5/13/16 21:13	EPA TO-15
67-66-3	Chloroform	2.5	U	ug/m3	0.25 / 2.5	5/10/16 13:54	5/13/16 21:13	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	0.20 / 2.0	5/10/16 13:54	5/13/16 21:13	EPA TO-15
100-41-4	Ethyl Benzene	2.3	U	ug/m3	0.23 / 2.3	5/10/16 13:54	5/13/16 21:13	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7 / 1.7	5/10/16 13:54	5/13/16 21:13	EPA TO-15
95-47-6	o-Xylene	2.3	U	ug/m3	0.23 / 2.3	5/10/16 13:54	5/13/16 21:13	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	0.35 / 3.5	5/10/16 13:54	5/13/16 21:13	EPA TO-15
108-88-3	Toluene	1.0	J, Q-2	ug/m3	0.20 / 2.0	5/10/16 13:54	5/13/16 21:13	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/10/16 13:54	5/13/16 21:13	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	0.28 / 2.8	5/10/16 13:54	5/13/16 21:13	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	0.13 / 1.3	5/10/16 13:54	5/13/16 21:13	EPA TO-15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 16-0152
Project: 16-0323, Grenada Manufacturing - Reported by Sallie Hale

Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM01AAD20516 **Lab ID:** E162001-08

Station ID: GM01 **Matrix:** Ambient Air

Date Collected: 5/4/16 7:17

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.6	U	ug/m3	0.46 / 4.6	5/10/16 13:54	5/13/16 22:04	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.9	U	ug/m3	0.29 / 2.9	5/10/16 13:54	5/13/16 22:04	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	0.19 / 1.9	5/10/16 13:54	5/13/16 22:04	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.6	U	ug/m3	0.26 / 2.6	5/10/16 13:54	5/13/16 22:04	EPA TO-15
107-06-2	1,2-Dichloroethane	2.1	U	ug/m3	0.27 / 2.1	5/10/16 13:54	5/13/16 22:04	EPA TO-15
71-43-2	Benzene	0.41	J, Q-2	ug/m3	0.17 / 1.7	5/10/16 13:54	5/13/16 22:04	EPA TO-15
67-66-3	Chloroform	2.5	U	ug/m3	0.25 / 2.5	5/10/16 13:54	5/13/16 22:04	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	0.29	J, Q-2	ug/m3	0.21 / 2.1	5/10/16 13:54	5/13/16 22:04	EPA TO-15
100-41-4	Ethyl Benzene	2.3	U	ug/m3	0.23 / 2.3	5/10/16 13:54	5/13/16 22:04	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7 / 1.7	5/10/16 13:54	5/13/16 22:04	EPA TO-15
95-47-6	o-Xylene	2.3	U	ug/m3	0.23 / 2.3	5/10/16 13:54	5/13/16 22:04	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	0.35 / 3.5	5/10/16 13:54	5/13/16 22:04	EPA TO-15
108-88-3	Toluene	0.68	J, Q-2	ug/m3	0.20 / 2.0	5/10/16 13:54	5/13/16 22:04	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	0.22 / 2.2	5/10/16 13:54	5/13/16 22:04	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	0.28 / 2.8	5/10/16 13:54	5/13/16 22:04	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	0.13 / 1.3	5/10/16 13:54	5/13/16 22:04	EPA TO-15

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Project: 16-0323, Grenada Manufacturing - Reported by Sallie Hale

Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM01AAD30516 **Lab ID:** E162001-09
Station ID: GM01 **Matrix:** Ambient Air

Date Collected: 5/5/16 7:30

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.2	J, Q-2	ug/m3	0.46 / 4.6	5/10/16 13:54	5/13/16 23:44	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	0.28 / 2.8	5/10/16 13:54	5/13/16 23:44	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	0.19 / 1.9	5/10/16 13:54	5/13/16 23:44	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.70	J, Q-2	ug/m3	0.26 / 2.6	5/10/16 13:54	5/13/16 23:44	EPA TO-15
107-06-2	1,2-Dichloroethane	2.0	U	ug/m3	0.26 / 2.0	5/10/16 13:54	5/13/16 23:44	EPA TO-15
71-43-2	Benzene	0.63	J, Q-2	ug/m3	0.16 / 1.6	5/10/16 13:54	5/13/16 23:44	EPA TO-15
67-66-3	Chloroform	2.5	U	ug/m3	0.25 / 2.5	5/10/16 13:54	5/13/16 23:44	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	0.45	J, Q-2	ug/m3	0.20 / 2.0	5/10/16 13:54	5/13/16 23:44	EPA TO-15
100-41-4	Ethyl Benzene	0.41	J, Q-2	ug/m3	0.23 / 2.3	5/10/16 13:54	5/13/16 23:44	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7 / 1.7	5/10/16 13:54	5/13/16 23:44	EPA TO-15
95-47-6	o-Xylene	0.52	J, Q-2	ug/m3	0.23 / 2.3	5/10/16 13:54	5/13/16 23:44	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	0.35 / 3.5	5/10/16 13:54	5/13/16 23:44	EPA TO-15
108-88-3	Toluene	2.1		ug/m3	0.20 / 2.0	5/10/16 13:54	5/13/16 23:44	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/10/16 13:54	5/13/16 23:44	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	0.30	J, Q-2	ug/m3	0.28 / 2.8	5/10/16 13:54	5/13/16 23:44	EPA TO-15
75-01-4	Vinyl chloride	0.14	J, Q-2	ug/m3	0.13 / 1.3	5/10/16 13:54	5/13/16 23:44	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM107IA0516 **Lab ID:** E162001-10

Station ID: GM107 **Matrix:** Indoor Air

Date Collected: 5/3/16 12:43

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.5	J, Q-2	ug/m3	0.46 / 4.6	5/11/16 11:21	5/18/16 18:52	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.9	U	ug/m3	0.29 / 2.9	5/11/16 11:21	5/18/16 18:52	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:21	5/18/16 18:52	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.39	J, Q-2	ug/m3	0.26 / 2.6	5/11/16 11:21	5/18/16 18:52	EPA TO-15
107-06-2	1,2-Dichloroethane	0.92	J, Q-2	ug/m3	0.27 / 2.0	5/11/16 11:21	5/18/16 18:52	EPA TO-15
71-43-2	Benzene	2.7		ug/m3	0.16 / 1.6	5/11/16 11:21	5/18/16 18:52	EPA TO-15
67-66-3	Chloroform	1.3	J, Q-2, QR-2	ug/m3	0.25 / 2.5	5/11/16 11:21	5/18/16 18:52	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:21	5/18/16 18:52	EPA TO-15
100-41-4	Ethyl Benzene	0.58	J, Q-2	ug/m3	0.23 / 2.3	5/11/16 11:21	5/18/16 18:52	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7 / 1.7	5/11/16 11:21	5/18/16 18:52	EPA TO-15
95-47-6	o-Xylene	0.51	J, Q-2	ug/m3	0.23 / 2.3	5/11/16 11:21	5/18/16 18:52	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	0.35 / 3.5	5/11/16 11:21	5/18/16 18:52	EPA TO-15
108-88-3	Toluene	6.7		ug/m3	0.20 / 2.0	5/11/16 11:21	5/18/16 18:52	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/11/16 11:21	5/18/16 18:52	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	0.28 / 2.8	5/11/16 11:21	5/18/16 18:52	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	0.13 / 1.3	5/11/16 11:21	5/18/16 18:52	EPA TO-15

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Project: 16-0323, Grenada Manufacturing

Sample ID: GM107IAD0516 **Lab ID:** E162001-11
Station ID: GM107 **Matrix:** Indoor Air

Date Collected: 5/3/16 12:43

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.7	J, Q-2	ug/m3	0.47 / 4.7	5/11/16 11:21	5/18/16 19:42	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.9	U	ug/m3	0.29 / 2.9	5/11/16 11:21	5/18/16 19:42	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:21	5/18/16 19:42	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.39	J, Q-2	ug/m3	0.26 / 2.6	5/11/16 11:21	5/18/16 19:42	EPA TO-15
107-06-2	1,2-Dichloroethane	0.87	J, Q-2	ug/m3	0.27 / 2.1	5/11/16 11:21	5/18/16 19:42	EPA TO-15
71-43-2	Benzene	2.6		ug/m3	0.17 / 1.7	5/11/16 11:21	5/18/16 19:42	EPA TO-15
67-66-3	Chloroform	1.3	J, Q-2, QR-2	ug/m3	0.25 / 2.5	5/11/16 11:21	5/18/16 19:42	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/11/16 11:21	5/18/16 19:42	EPA TO-15
100-41-4	Ethyl Benzene	0.63	J, Q-2	ug/m3	0.23 / 2.3	5/11/16 11:21	5/18/16 19:42	EPA TO-15
75-09-2	Methylene Chloride	1.8	U	ug/m3	1.8 / 1.8	5/11/16 11:21	5/18/16 19:42	EPA TO-15
95-47-6	o-Xylene	0.49	J, Q-2	ug/m3	0.23 / 2.3	5/11/16 11:21	5/18/16 19:42	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.6	U	ug/m3	0.36 / 3.6	5/11/16 11:21	5/18/16 19:42	EPA TO-15
108-88-3	Toluene	6.6		ug/m3	0.20 / 2.0	5/11/16 11:21	5/18/16 19:42	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:21	5/18/16 19:42	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	0.28 / 2.8	5/11/16 11:21	5/18/16 19:42	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	0.13 / 1.3	5/11/16 11:21	5/18/16 19:42	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM107SS0516 **Lab ID:** E162001-12

Station ID: GM107 **Matrix:** Soil Gas

Date Collected: 5/3/16 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.8	U	ug/m3	0.38 / 3.8	5/11/16 11:24	5/24/16 21:06	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.4	U	ug/m3	0.24 / 2.4	5/11/16 11:24	5/24/16 21:06	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.6	U	ug/m3	0.16 / 1.6	5/11/16 11:24	5/24/16 21:06	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.28	J, Q-2	ug/m3	0.22 / 2.2	5/11/16 11:24	5/24/16 21:06	EPA TO-15
107-06-2	1,2-Dichloroethane	1.7	U	ug/m3	0.22 / 1.7	5/11/16 11:24	5/24/16 21:06	EPA TO-15
71-43-2	Benzene	1.4	U	ug/m3	1.4 / 1.4	5/11/16 11:24	5/24/16 21:06	EPA TO-15
67-66-3	Chloroform	0.54	J, Q-2, QL-2, QR-2	ug/m3	0.21 / 2.1	5/11/16 11:24	5/24/16 21:06	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.7	U	ug/m3	0.17 / 1.7	5/11/16 11:24	5/24/16 21:06	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/24/16 21:06	EPA TO-15
75-09-2	Methylene Chloride	1.4	U	ug/m3	0.16 / 1.4	5/11/16 11:24	5/24/16 21:06	EPA TO-15
95-47-6	o-Xylene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/24/16 21:06	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	2.9	U	ug/m3	0.29 / 2.9	5/11/16 11:24	5/24/16 21:06	EPA TO-15
108-88-3	Toluene	1.6	U	ug/m3	1.6 / 1.6	5/11/16 11:24	5/24/16 21:06	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:24	5/24/16 21:06	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	1.4	J, Q-2, QR-2	ug/m3	0.23 / 2.3	5/11/16 11:24	5/24/16 21:06	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	0.11 / 1.1	5/11/16 11:24	5/24/16 21:06	EPA TO-15

Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM107SSS0516 **Lab ID:** E162001-13

Station ID: GM107 **Matrix:** Soil Gas

Date Collected: 5/3/16 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.8	U	ug/m3	0.38 / 3.8	5/11/16 11:24	5/24/16 21:57	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.4	U	ug/m3	0.24 / 2.4	5/11/16 11:24	5/24/16 21:57	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.6	U	ug/m3	0.16 / 1.6	5/11/16 11:24	5/24/16 21:57	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.27	J, Q-2	ug/m3	0.22 / 2.2	5/11/16 11:24	5/24/16 21:57	EPA TO-15
107-06-2	1,2-Dichloroethane	1.7	U	ug/m3	0.22 / 1.7	5/11/16 11:24	5/24/16 21:57	EPA TO-15
71-43-2	Benzene	1.4	U	ug/m3	1.4 / 1.4	5/11/16 11:24	5/24/16 21:57	EPA TO-15
67-66-3	Chloroform	0.51	J, Q-2, QL-2, QR-2	ug/m3	0.21 / 2.1	5/11/16 11:24	5/24/16 21:57	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.7	U	ug/m3	0.17 / 1.7	5/11/16 11:24	5/24/16 21:57	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/24/16 21:57	EPA TO-15
75-09-2	Methylene Chloride	1.4	U	ug/m3	0.16 / 1.4	5/11/16 11:24	5/24/16 21:57	EPA TO-15
95-47-6	o-Xylene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/24/16 21:57	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	2.9	U	ug/m3	0.29 / 2.9	5/11/16 11:24	5/24/16 21:57	EPA TO-15
108-88-3	Toluene	1.6	U	ug/m3	1.6 / 1.6	5/11/16 11:24	5/24/16 21:57	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:24	5/24/16 21:57	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	1.4	J, Q-2, QR-2	ug/m3	0.23 / 2.3	5/11/16 11:24	5/24/16 21:57	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	0.11 / 1.1	5/11/16 11:24	5/24/16 21:57	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM108IA0516 **Lab ID:** E162001-14

Station ID: GM108 **Matrix:** Indoor Air

Date Collected: 5/4/16 16:27

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.66	J, Q-2	ug/m3	0.45 / 4.5	5/11/16 11:21	5/18/16 20:33	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	0.28 / 2.8	5/11/16 11:21	5/18/16 20:33	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:21	5/18/16 20:33	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.26	J, Q-2	ug/m3	0.25 / 2.5	5/11/16 11:21	5/18/16 20:33	EPA TO-15
107-06-2	1,2-Dichloroethane	4.0		ug/m3	0.26 / 2.0	5/11/16 11:21	5/18/16 20:33	EPA TO-15
71-43-2	Benzene	0.92	J, Q-2	ug/m3	0.16 / 1.6	5/11/16 11:21	5/18/16 20:33	EPA TO-15
67-66-3	Chloroform	0.50	J, Q-2, QR-2	ug/m3	0.24 / 2.4	5/11/16 11:21	5/18/16 20:33	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:21	5/18/16 20:33	EPA TO-15
100-41-4	Ethyl Benzene	0.25	J, Q-2	ug/m3	0.22 / 2.2	5/11/16 11:21	5/18/16 20:33	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7 / 1.7	5/11/16 11:21	5/18/16 20:33	EPA TO-15
95-47-6	o-Xylene	0.29	J, Q-2	ug/m3	0.22 / 2.2	5/11/16 11:21	5/18/16 20:33	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.4	U	ug/m3	0.34 / 3.4	5/11/16 11:21	5/18/16 20:33	EPA TO-15
108-88-3	Toluene	9.5		ug/m3	0.19 / 1.9	5/11/16 11:21	5/18/16 20:33	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/11/16 11:21	5/18/16 20:33	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.7	U	ug/m3	0.27 / 2.7	5/11/16 11:21	5/18/16 20:33	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	0.13 / 1.3	5/11/16 11:21	5/18/16 20:33	EPA TO-15

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Project: 16-0323, Grenada Manufacturing

Sample ID: GM108IAD0516 **Lab ID:** E162001-15
Station ID: GM108 **Matrix:** Indoor Air

Date Collected: 5/4/16 16:27

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.70	J, Q-2	ug/m3	0.46 / 4.6	5/11/16 11:21	5/18/16 21:24	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.9	U	ug/m3	0.29 / 2.9	5/11/16 11:21	5/18/16 21:24	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:21	5/18/16 21:24	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.30	J, Q-2	ug/m3	0.26 / 2.6	5/11/16 11:21	5/18/16 21:24	EPA TO-15
107-06-2	1,2-Dichloroethane	4.1		ug/m3	0.27 / 2.1	5/11/16 11:21	5/18/16 21:24	EPA TO-15
71-43-2	Benzene	0.90	J, Q-2	ug/m3	0.17 / 1.7	5/11/16 11:21	5/18/16 21:24	EPA TO-15
67-66-3	Chloroform	0.48	J, Q-2, QR-2	ug/m3	0.25 / 2.5	5/11/16 11:21	5/18/16 21:24	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/11/16 11:21	5/18/16 21:24	EPA TO-15
100-41-4	Ethyl Benzene	0.27	J, Q-2	ug/m3	0.23 / 2.3	5/11/16 11:21	5/18/16 21:24	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7 / 1.7	5/11/16 11:21	5/18/16 21:24	EPA TO-15
95-47-6	o-Xylene	0.26	J, Q-2	ug/m3	0.23 / 2.3	5/11/16 11:21	5/18/16 21:24	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	0.35 / 3.5	5/11/16 11:21	5/18/16 21:24	EPA TO-15
108-88-3	Toluene	9.5		ug/m3	0.20 / 2.0	5/11/16 11:21	5/18/16 21:24	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:21	5/18/16 21:24	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	0.28 / 2.8	5/11/16 11:21	5/18/16 21:24	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	0.13 / 1.3	5/11/16 11:21	5/18/16 21:24	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM108SS0516 **Lab ID:** E162001-16

Station ID: GM108 **Matrix:** Soil Gas

Date Collected: 5/4/16 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.9	U	ug/m3	0.39 / 3.9	5/11/16 11:24	5/24/16 22:47	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.5	U	ug/m3	0.25 / 2.5	5/11/16 11:24	5/24/16 22:47	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	0.17 / 1.7	5/11/16 11:24	5/24/16 22:47	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:24	5/24/16 22:47	EPA TO-15
107-06-2	1,2-Dichloroethane	1.8	U	ug/m3	0.23 / 1.8	5/11/16 11:24	5/24/16 22:47	EPA TO-15
71-43-2	Benzene	1.4	U	ug/m3	1.4 / 1.4	5/11/16 11:24	5/24/16 22:47	EPA TO-15
67-66-3	Chloroform	0.62	J, Q-2, QL-2, QR-2	ug/m3	0.21 / 2.1	5/11/16 11:24	5/24/16 22:47	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:24	5/24/16 22:47	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/24/16 22:47	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	0.16 / 1.5	5/11/16 11:24	5/24/16 22:47	EPA TO-15
95-47-6	o-Xylene	0.26	J, Q-2	ug/m3	0.20 / 2.0	5/11/16 11:24	5/24/16 22:47	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.43	J, Q-2	ug/m3	0.30 / 3.0	5/11/16 11:24	5/24/16 22:47	EPA TO-15
108-88-3	Toluene	2.1	J, QL-2	ug/m3	0.17 / 1.7	5/11/16 11:24	5/24/16 22:47	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:24	5/24/16 22:47	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.4	U	ug/m3	0.24 / 2.4	5/11/16 11:24	5/24/16 22:47	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	0.11 / 1.1	5/11/16 11:24	5/24/16 22:47	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM108SSS0516 **Lab ID:** E162001-17

Station ID: GM108 **Matrix:** Soil Gas

Date Collected: 5/4/16 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.9	U	ug/m3	0.39 / 3.9	5/11/16 11:24	5/24/16 23:37	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.5	U	ug/m3	0.25 / 2.5	5/11/16 11:24	5/24/16 23:37	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	0.17 / 1.7	5/11/16 11:24	5/24/16 23:37	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:24	5/24/16 23:37	EPA TO-15
107-06-2	1,2-Dichloroethane	1.8	U	ug/m3	0.23 / 1.8	5/11/16 11:24	5/24/16 23:37	EPA TO-15
71-43-2	Benzene	1.4	U	ug/m3	1.4 / 1.4	5/11/16 11:24	5/24/16 23:37	EPA TO-15
67-66-3	Chloroform	0.62	J, QL-2, QR-2, Q-2	ug/m3	0.21 / 2.1	5/11/16 11:24	5/24/16 23:37	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:24	5/24/16 23:37	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/24/16 23:37	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	0.16 / 1.5	5/11/16 11:24	5/24/16 23:37	EPA TO-15
95-47-6	o-Xylene	0.29	J, Q-2	ug/m3	0.20 / 2.0	5/11/16 11:24	5/24/16 23:37	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.46	J, Q-2	ug/m3	0.30 / 3.0	5/11/16 11:24	5/24/16 23:37	EPA TO-15
108-88-3	Toluene	2.1	J, QL-2	ug/m3	0.17 / 1.7	5/11/16 11:24	5/24/16 23:37	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:24	5/24/16 23:37	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.4	U	ug/m3	0.24 / 2.4	5/11/16 11:24	5/24/16 23:37	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	0.11 / 1.1	5/11/16 11:24	5/24/16 23:37	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM109IA0516 **Lab ID:** E162001-18

Station ID: GM109 **Matrix:** Indoor Air

Date Collected: 5/3/16 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.5	J, Q-2	ug/m3	0.51 / 5.1	5/11/16 11:21	5/18/16 23:05	EPA TO-15
79-00-5	1,1,2-Trichloroethane	3.2	U	ug/m3	0.32 / 3.2	5/11/16 11:21	5/18/16 23:05	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:21	5/18/16 23:05	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.38	J, Q-2	ug/m3	0.29 / 2.9	5/11/16 11:21	5/18/16 23:05	EPA TO-15
107-06-2	1,2-Dichloroethane	0.99	J, Q-2	ug/m3	0.30 / 2.3	5/11/16 11:21	5/18/16 23:05	EPA TO-15
71-43-2	Benzene	3.4		ug/m3	0.18 / 1.8	5/11/16 11:21	5/18/16 23:05	EPA TO-15
67-66-3	Chloroform	2.4	J, Q-2, QR-2	ug/m3	0.28 / 2.8	5/11/16 11:21	5/18/16 23:05	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.3	U	ug/m3	0.23 / 2.3	5/11/16 11:21	5/18/16 23:05	EPA TO-15
100-41-4	Ethyl Benzene	0.60	J, Q-2	ug/m3	0.25 / 2.5	5/11/16 11:21	5/18/16 23:05	EPA TO-15
75-09-2	Methylene Chloride	1.9	U	ug/m3	1.9 / 1.9	5/11/16 11:21	5/18/16 23:05	EPA TO-15
95-47-6	o-Xylene	0.47	J, Q-2	ug/m3	0.26 / 2.6	5/11/16 11:21	5/18/16 23:05	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.9	U	ug/m3	0.39 / 3.9	5/11/16 11:21	5/18/16 23:05	EPA TO-15
108-88-3	Toluene	6.2		ug/m3	0.22 / 2.2	5/11/16 11:21	5/18/16 23:05	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.4	U	ug/m3	0.24 / 2.4	5/11/16 11:21	5/18/16 23:05	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	3.1	U	ug/m3	0.31 / 3.1	5/11/16 11:21	5/18/16 23:05	EPA TO-15
75-01-4	Vinyl chloride	1.5	U	ug/m3	0.15 / 1.5	5/11/16 11:21	5/18/16 23:05	EPA TO-15

Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM109SS0516 **Lab ID:** E162001-19

Station ID: GM109 **Matrix:** Soil Gas

Date Collected: 5/3/16 14:33

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.6	J, Q-2	ug/m3	0.38 / 3.8	5/11/16 11:24	5/25/16 0:27	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.4	U	ug/m3	0.24 / 2.4	5/11/16 11:24	5/25/16 0:27	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.6	U	ug/m3	0.16 / 1.6	5/11/16 11:24	5/25/16 0:27	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	1.5	J, Q-2	ug/m3	0.22 / 2.2	5/11/16 11:24	5/25/16 0:27	EPA TO-15
107-06-2	1,2-Dichloroethane	0.48	J, Q-2, QL-2, QR-2	ug/m3	0.22 / 1.7	5/11/16 11:24	5/25/16 0:27	EPA TO-15
71-43-2	Benzene	3.2	J, QL-2, QR-2	ug/m3	0.14 / 1.4	5/11/16 11:24	5/25/16 0:27	EPA TO-15
67-66-3	Chloroform	2.3	J, QL-2, QR-2	ug/m3	0.21 / 2.1	5/11/16 11:24	5/25/16 0:27	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.7	U	ug/m3	0.17 / 1.7	5/11/16 11:24	5/25/16 0:27	EPA TO-15
100-41-4	Ethyl Benzene	0.70	J, Q-2	ug/m3	0.19 / 1.9	5/11/16 11:24	5/25/16 0:27	EPA TO-15
75-09-2	Methylene Chloride	1.4	U	ug/m3	1.4 / 1.4	5/11/16 11:24	5/25/16 0:27	EPA TO-15
95-47-6	o-Xylene	1.0	J, Q-2	ug/m3	0.19 / 1.9	5/11/16 11:24	5/25/16 0:27	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	2.9	U	ug/m3	0.29 / 2.9	5/11/16 11:24	5/25/16 0:27	EPA TO-15
108-88-3	Toluene	4.7	J, QL-2	ug/m3	0.16 / 1.6	5/11/16 11:24	5/25/16 0:27	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:24	5/25/16 0:27	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.3	U	ug/m3	0.23 / 2.3	5/11/16 11:24	5/25/16 0:27	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	0.11 / 1.1	5/11/16 11:24	5/25/16 0:27	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM11AA0516 **Lab ID:** E162001-20

Station ID: GM11 **Matrix:** Ambient Air

Date Collected: 5/3/16 7:50

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.48	J, Q-2	ug/m3	0.46 / 4.6	5/10/16 13:54	5/14/16 0:35	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.9	U	ug/m3	0.29 / 2.9	5/10/16 13:54	5/14/16 0:35	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	0.20 / 2.0	5/10/16 13:54	5/14/16 0:35	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.6	U	ug/m3	0.26 / 2.6	5/10/16 13:54	5/14/16 0:35	EPA TO-15
107-06-2	1,2-Dichloroethane	2.1	U	ug/m3	0.27 / 2.1	5/10/16 13:54	5/14/16 0:35	EPA TO-15
71-43-2	Benzene	0.63	J, Q-2	ug/m3	0.17 / 1.7	5/10/16 13:54	5/14/16 0:35	EPA TO-15
67-66-3	Chloroform	2.5	U	ug/m3	0.25 / 2.5	5/10/16 13:54	5/14/16 0:35	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	0.24	J, Q-2	ug/m3	0.21 / 2.1	5/10/16 13:54	5/14/16 0:35	EPA TO-15
100-41-4	Ethyl Benzene	2.3	U	ug/m3	0.23 / 2.3	5/10/16 13:54	5/14/16 0:35	EPA TO-15
75-09-2	Methylene Chloride	1.8	U	ug/m3	1.8 / 1.8	5/10/16 13:54	5/14/16 0:35	EPA TO-15
95-47-6	o-Xylene	2.3	U	ug/m3	0.23 / 2.3	5/10/16 13:54	5/14/16 0:35	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.6	U	ug/m3	0.36 / 3.6	5/10/16 13:54	5/14/16 0:35	EPA TO-15
108-88-3	Toluene	1.1	J, Q-2	ug/m3	0.20 / 2.0	5/10/16 13:54	5/14/16 0:35	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	0.22 / 2.2	5/10/16 13:54	5/14/16 0:35	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	0.28 / 2.8	5/10/16 13:54	5/14/16 0:35	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	0.13 / 1.3	5/10/16 13:54	5/14/16 0:35	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM11AA20516 **Lab ID:** E162001-21

Station ID: GM11 **Matrix:** Ambient Air

Date Collected: 5/4/16 7:49

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.8	U	ug/m3	0.48 / 4.8	5/10/16 13:54	5/14/16 1:25	EPA TO-15
79-00-5	1,1,2-Trichloroethane	3.0	U	ug/m3	0.30 / 3.0	5/10/16 13:54	5/14/16 1:25	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	0.20 / 2.0	5/10/16 13:54	5/14/16 1:25	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.7	U	ug/m3	0.27 / 2.7	5/10/16 13:54	5/14/16 1:25	EPA TO-15
107-06-2	1,2-Dichloroethane	2.1	U	ug/m3	0.28 / 2.1	5/10/16 13:54	5/14/16 1:25	EPA TO-15
71-43-2	Benzene	0.46	J, Q-2	ug/m3	0.17 / 1.7	5/10/16 13:54	5/14/16 1:25	EPA TO-15
67-66-3	Chloroform	2.6	U	ug/m3	0.26 / 2.6	5/10/16 13:54	5/14/16 1:25	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	0.28	J, Q-2	ug/m3	0.21 / 2.1	5/10/16 13:54	5/14/16 1:25	EPA TO-15
100-41-4	Ethyl Benzene	2.4	U	ug/m3	0.24 / 2.4	5/10/16 13:54	5/14/16 1:25	EPA TO-15
75-09-2	Methylene Chloride	1.8	U	ug/m3	1.8 / 1.8	5/10/16 13:54	5/14/16 1:25	EPA TO-15
95-47-6	o-Xylene	2.4	U	ug/m3	0.24 / 2.4	5/10/16 13:54	5/14/16 1:25	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.6	U	ug/m3	0.36 / 3.6	5/10/16 13:54	5/14/16 1:25	EPA TO-15
108-88-3	Toluene	0.69	J, Q-2	ug/m3	0.20 / 2.0	5/10/16 13:54	5/14/16 1:25	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	0.22 / 2.2	5/10/16 13:54	5/14/16 1:25	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.9	U	ug/m3	0.29 / 2.9	5/10/16 13:54	5/14/16 1:25	EPA TO-15
75-01-4	Vinyl chloride	1.4	U	ug/m3	0.14 / 1.4	5/10/16 13:54	5/14/16 1:25	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM11AA30516 **Lab ID:** E162001-22

Station ID: GM11 **Matrix:** Ambient Air

Date Collected: 5/5/16 7:55

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.51	J, Q-2	ug/m3	0.50 / 5.0	5/10/16 13:54	5/14/16 2:16	EPA TO-15
79-00-5	1,1,2-Trichloroethane	3.1	U	ug/m3	0.31 / 3.1	5/10/16 13:54	5/14/16 2:16	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.1	U	ug/m3	0.21 / 2.1	5/10/16 13:54	5/14/16 2:16	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.8	U	ug/m3	0.28 / 2.8	5/10/16 13:54	5/14/16 2:16	EPA TO-15
107-06-2	1,2-Dichloroethane	2.3	U	ug/m3	0.29 / 2.3	5/10/16 13:54	5/14/16 2:16	EPA TO-15
71-43-2	Benzene	0.52	J, Q-2	ug/m3	0.18 / 1.8	5/10/16 13:54	5/14/16 2:16	EPA TO-15
67-66-3	Chloroform	2.7	U	ug/m3	0.27 / 2.7	5/10/16 13:54	5/14/16 2:16	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	0.39	J, Q-2	ug/m3	0.22 / 2.2	5/10/16 13:54	5/14/16 2:16	EPA TO-15
100-41-4	Ethyl Benzene	2.5	U	ug/m3	0.25 / 2.5	5/10/16 13:54	5/14/16 2:16	EPA TO-15
75-09-2	Methylene Chloride	1.9	U	ug/m3	1.9 / 1.9	5/10/16 13:54	5/14/16 2:16	EPA TO-15
95-47-6	o-Xylene	2.5	U	ug/m3	0.25 / 2.5	5/10/16 13:54	5/14/16 2:16	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.8	U	ug/m3	0.38 / 3.8	5/10/16 13:54	5/14/16 2:16	EPA TO-15
108-88-3	Toluene	0.83	J, Q-2	ug/m3	0.22 / 2.2	5/10/16 13:54	5/14/16 2:16	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.4	U	ug/m3	0.24 / 2.4	5/10/16 13:54	5/14/16 2:16	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	3.1	U	ug/m3	0.31 / 3.1	5/10/16 13:54	5/14/16 2:16	EPA TO-15
75-01-4	Vinyl chloride	0.14	J, Q-2	ug/m3	0.14 / 1.4	5/10/16 13:54	5/14/16 2:16	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM110IA0516 **Lab ID:** E162001-23

Station ID: GM110 **Matrix:** Indoor Air

Date Collected: 5/3/16 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	8.4		ug/m3	0.45 / 4.5	5/11/16 11:21	5/18/16 23:56	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	0.28 / 2.8	5/11/16 11:21	5/18/16 23:56	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:21	5/18/16 23:56	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.72	J, Q-2	ug/m3	0.26 / 2.6	5/11/16 11:21	5/18/16 23:56	EPA TO-15
107-06-2	1,2-Dichloroethane	0.83	J, Q-2	ug/m3	0.26 / 2.0	5/11/16 11:21	5/18/16 23:56	EPA TO-15
71-43-2	Benzene	1.3	J, Q-2	ug/m3	0.16 / 1.6	5/11/16 11:21	5/18/16 23:56	EPA TO-15
67-66-3	Chloroform	0.58	J, Q-2, QR-2	ug/m3	0.25 / 2.5	5/11/16 11:21	5/18/16 23:56	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:21	5/18/16 23:56	EPA TO-15
100-41-4	Ethyl Benzene	2.6		ug/m3	0.22 / 2.2	5/11/16 11:21	5/18/16 23:56	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7 / 1.7	5/11/16 11:21	5/18/16 23:56	EPA TO-15
95-47-6	o-Xylene	1.5	J, Q-2	ug/m3	0.23 / 2.3	5/11/16 11:21	5/18/16 23:56	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.72	J, Q-2	ug/m3	0.35 / 3.5	5/11/16 11:21	5/18/16 23:56	EPA TO-15
108-88-3	Toluene	5.9		ug/m3	0.19 / 1.9	5/11/16 11:21	5/18/16 23:56	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/11/16 11:21	5/18/16 23:56	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.7	U	ug/m3	0.27 / 2.7	5/11/16 11:21	5/18/16 23:56	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	0.13 / 1.3	5/11/16 11:21	5/18/16 23:56	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM110SS0516 **Lab ID:** E162001-24

Station ID: GM110 **Matrix:** Soil Gas

Date Collected: 5/3/16 8:50

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.8	U	ug/m3	0.38 / 3.8	5/11/16 11:24	5/25/16 1:18	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.4	U	ug/m3	0.24 / 2.4	5/11/16 11:24	5/25/16 1:18	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.6	U	ug/m3	0.16 / 1.6	5/11/16 11:24	5/25/16 1:18	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.71	J, Q-2	ug/m3	0.21 / 2.1	5/11/16 11:24	5/25/16 1:18	EPA TO-15
107-06-2	1,2-Dichloroethane	1.7	U	ug/m3	0.22 / 1.7	5/11/16 11:24	5/25/16 1:18	EPA TO-15
71-43-2	Benzene	0.86	J, Q-2, QL-2, QR-2	ug/m3	0.14 / 1.4	5/11/16 11:24	5/25/16 1:18	EPA TO-15
67-66-3	Chloroform	0.34	J, Q-2, QL-2, QR-2	ug/m3	0.21 / 2.1	5/11/16 11:24	5/25/16 1:18	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.7	U	ug/m3	0.17 / 1.7	5/11/16 11:24	5/25/16 1:18	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/25/16 1:18	EPA TO-15
75-09-2	Methylene Chloride	1.4	U	ug/m3	0.16 / 1.4	5/11/16 11:24	5/25/16 1:18	EPA TO-15
95-47-6	o-Xylene	0.22	J, Q-2	ug/m3	0.19 / 1.9	5/11/16 11:24	5/25/16 1:18	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.61	J, Q-2	ug/m3	0.29 / 2.9	5/11/16 11:24	5/25/16 1:18	EPA TO-15
108-88-3	Toluene	1.0	J, Q-2, QL-2	ug/m3	0.16 / 1.6	5/11/16 11:24	5/25/16 1:18	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:24	5/25/16 1:18	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.3	U	ug/m3	0.23 / 2.3	5/11/16 11:24	5/25/16 1:18	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	0.11 / 1.1	5/11/16 11:24	5/25/16 1:18	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM111IA0516 **Lab ID:** E162001-25
Station ID: GM111 **Matrix:** Indoor Air

Date Collected: 5/4/16 10:18

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.3	J, Q-2	ug/m3	0.48 / 4.8	5/11/16 11:21	5/19/16 0:47	EPA TO-15
79-00-5	1,1,2-Trichloroethane	3.0	U	ug/m3	0.30 / 3.0	5/11/16 11:21	5/19/16 0:47	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:21	5/19/16 0:47	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.65	J, Q-2	ug/m3	0.27 / 2.7	5/11/16 11:21	5/19/16 0:47	EPA TO-15
107-06-2	1,2-Dichloroethane	0.88	J, Q-2	ug/m3	0.28 / 2.1	5/11/16 11:21	5/19/16 0:47	EPA TO-15
71-43-2	Benzene	1.7		ug/m3	0.17 / 1.7	5/11/16 11:21	5/19/16 0:47	EPA TO-15
67-66-3	Chloroform	1.1	J, Q-2, QR-2	ug/m3	0.26 / 2.6	5/11/16 11:21	5/19/16 0:47	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/11/16 11:21	5/19/16 0:47	EPA TO-15
100-41-4	Ethyl Benzene	0.46	J, Q-2	ug/m3	0.24 / 2.4	5/11/16 11:21	5/19/16 0:47	EPA TO-15
75-09-2	Methylene Chloride	1.8	U	ug/m3	1.8 / 1.8	5/11/16 11:21	5/19/16 0:47	EPA TO-15
95-47-6	o-Xylene	0.55	J, Q-2	ug/m3	0.24 / 2.4	5/11/16 11:21	5/19/16 0:47	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.6	U	ug/m3	0.36 / 3.6	5/11/16 11:21	5/19/16 0:47	EPA TO-15
108-88-3	Toluene	4.4		ug/m3	0.20 / 2.0	5/11/16 11:21	5/19/16 0:47	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:21	5/19/16 0:47	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.9	U	ug/m3	0.29 / 2.9	5/11/16 11:21	5/19/16 0:47	EPA TO-15
75-01-4	Vinyl chloride	1.4	U	ug/m3	0.14 / 1.4	5/11/16 11:21	5/19/16 0:47	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM111SS0516 **Lab ID:** E162001-26

Station ID: GM111 **Matrix:** Soil Gas

Date Collected: 5/4/16 9:35

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.8	U	ug/m3	0.38 / 3.8	5/11/16 11:24	5/25/16 2:08	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.4	U	ug/m3	0.24 / 2.4	5/11/16 11:24	5/25/16 2:08	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.6	U	ug/m3	0.16 / 1.6	5/11/16 11:24	5/25/16 2:08	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:24	5/25/16 2:08	EPA TO-15
107-06-2	1,2-Dichloroethane	1.7	U	ug/m3	0.22 / 1.7	5/11/16 11:24	5/25/16 2:08	EPA TO-15
71-43-2	Benzene	1.4	U	ug/m3	1.4 / 1.4	5/11/16 11:24	5/25/16 2:08	EPA TO-15
67-66-3	Chloroform	0.85	J, Q-2, QL-2, QR-2	ug/m3	0.21 / 2.1	5/11/16 11:24	5/25/16 2:08	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.7	U	ug/m3	0.17 / 1.7	5/11/16 11:24	5/25/16 2:08	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/25/16 2:08	EPA TO-15
75-09-2	Methylene Chloride	1.4	U	ug/m3	0.16 / 1.4	5/11/16 11:24	5/25/16 2:08	EPA TO-15
95-47-6	o-Xylene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/25/16 2:08	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	2.9	U	ug/m3	0.29 / 2.9	5/11/16 11:24	5/25/16 2:08	EPA TO-15
108-88-3	Toluene	0.40	J, Q-2, QL-2	ug/m3	0.16 / 1.6	5/11/16 11:24	5/25/16 2:08	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:24	5/25/16 2:08	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.3	U	ug/m3	0.23 / 2.3	5/11/16 11:24	5/25/16 2:08	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	0.11 / 1.1	5/11/16 11:24	5/25/16 2:08	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM112IA0516 **Lab ID:** E162001-27
Station ID: GM112 **Matrix:** Indoor Air

Date Collected: 5/3/16 15:47

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.63	J, Q-2	ug/m3	0.50 / 5.0	5/11/16 11:21	5/19/16 1:37	EPA TO-15
79-00-5	1,1,2-Trichloroethane	3.1	U	ug/m3	0.31 / 3.1	5/11/16 11:21	5/19/16 1:37	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.1	U	ug/m3	0.21 / 2.1	5/11/16 11:21	5/19/16 1:37	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.30	J, Q-2	ug/m3	0.28 / 2.8	5/11/16 11:21	5/19/16 1:37	EPA TO-15
107-06-2	1,2-Dichloroethane	0.66	J, Q-2	ug/m3	0.29 / 2.2	5/11/16 11:21	5/19/16 1:37	EPA TO-15
71-43-2	Benzene	1.3	J, Q-2	ug/m3	0.18 / 1.8	5/11/16 11:21	5/19/16 1:37	EPA TO-15
67-66-3	Chloroform	2.2	J, Q-2, QR-2	ug/m3	0.27 / 2.7	5/11/16 11:21	5/19/16 1:37	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:21	5/19/16 1:37	EPA TO-15
100-41-4	Ethyl Benzene	0.26	J, Q-2	ug/m3	0.25 / 2.5	5/11/16 11:21	5/19/16 1:37	EPA TO-15
75-09-2	Methylene Chloride	1.4	J, Q-2	ug/m3	0.21 / 1.9	5/11/16 11:21	5/19/16 1:37	EPA TO-15
95-47-6	o-Xylene	0.26	J, Q-2	ug/m3	0.25 / 2.5	5/11/16 11:21	5/19/16 1:37	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.8	U	ug/m3	0.38 / 3.8	5/11/16 11:21	5/19/16 1:37	EPA TO-15
108-88-3	Toluene	2.6		ug/m3	0.21 / 2.1	5/11/16 11:21	5/19/16 1:37	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.3	U	ug/m3	0.23 / 2.3	5/11/16 11:21	5/19/16 1:37	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	3.0	U	ug/m3	0.30 / 3.0	5/11/16 11:21	5/19/16 1:37	EPA TO-15
75-01-4	Vinyl chloride	1.4	U	ug/m3	0.14 / 1.4	5/11/16 11:21	5/19/16 1:37	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM112SS0516 **Lab ID:** E162001-28
Station ID: GM112 **Matrix:** Soil Gas

Date Collected: 5/3/16 15:10

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.9	U	ug/m3	0.39 / 3.9	5/11/16 11:24	5/25/16 2:59	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.4	U	ug/m3	0.24 / 2.4	5/11/16 11:24	5/25/16 2:59	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.6	U	ug/m3	0.16 / 1.6	5/11/16 11:24	5/25/16 2:59	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:24	5/25/16 2:59	EPA TO-15
107-06-2	1,2-Dichloroethane	1.7	U	ug/m3	0.22 / 1.7	5/11/16 11:24	5/25/16 2:59	EPA TO-15
71-43-2	Benzene	1.4	U	ug/m3	1.4 / 1.4	5/11/16 11:24	5/25/16 2:59	EPA TO-15
67-66-3	Chloroform	0.21	J, Q-2, QL-2, QR-2	ug/m3	0.21 / 2.1	5/11/16 11:24	5/25/16 2:59	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.7	U	ug/m3	0.17 / 1.7	5/11/16 11:24	5/25/16 2:59	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/25/16 2:59	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	0.16 / 1.5	5/11/16 11:24	5/25/16 2:59	EPA TO-15
95-47-6	o-Xylene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/25/16 2:59	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.76	J, Q-2	ug/m3	0.30 / 3.0	5/11/16 11:24	5/25/16 2:59	EPA TO-15
108-88-3	Toluene	1.7	U	ug/m3	1.7 / 1.7	5/11/16 11:24	5/25/16 2:59	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:24	5/25/16 2:59	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.4	U	ug/m3	0.24 / 2.4	5/11/16 11:24	5/25/16 2:59	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	0.11 / 1.1	5/11/16 11:24	5/25/16 2:59	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM113IA0516 **Lab ID:** E162001-29
Station ID: GM113 **Matrix:** Indoor Air

Date Collected: 5/4/16 9:22

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.68	J, Q-2	ug/m3	0.44 / 4.4	5/11/16 11:21	5/19/16 2:28	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	0.28 / 2.8	5/11/16 11:21	5/19/16 2:28	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:21	5/19/16 2:28	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.35	J, Q-2	ug/m3	0.25 / 2.5	5/11/16 11:21	5/19/16 2:28	EPA TO-15
107-06-2	1,2-Dichloroethane	1.6	J, Q-2	ug/m3	0.26 / 2.0	5/11/16 11:21	5/19/16 2:28	EPA TO-15
71-43-2	Benzene	0.67	J, Q-2	ug/m3	0.16 / 1.6	5/11/16 11:21	5/19/16 2:28	EPA TO-15
67-66-3	Chloroform	0.69	J, Q-2, QR-2	ug/m3	0.24 / 2.4	5/11/16 11:21	5/19/16 2:28	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:21	5/19/16 2:28	EPA TO-15
100-41-4	Ethyl Benzene	0.32	J, Q-2	ug/m3	0.22 / 2.2	5/11/16 11:21	5/19/16 2:28	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7 / 1.7	5/11/16 11:21	5/19/16 2:28	EPA TO-15
95-47-6	o-Xylene	0.28	J, Q-2	ug/m3	0.22 / 2.2	5/11/16 11:21	5/19/16 2:28	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.4	U	ug/m3	0.34 / 3.4	5/11/16 11:21	5/19/16 2:28	EPA TO-15
108-88-3	Toluene	13		ug/m3	0.19 / 1.9	5/11/16 11:21	5/19/16 2:28	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/11/16 11:21	5/19/16 2:28	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.7	U	ug/m3	0.27 / 2.7	5/11/16 11:21	5/19/16 2:28	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	0.13 / 1.3	5/11/16 11:21	5/19/16 2:28	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM113SS0516 **Lab ID:** E162001-30
Station ID: GM113 **Matrix:** Soil Gas

Date Collected: 5/4/16 8:43

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.1	J, Q-2	ug/m3	0.41 / 4.1	5/11/16 11:24	5/25/16 3:49	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.6	U	ug/m3	0.26 / 2.6	5/11/16 11:24	5/25/16 3:49	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	0.17 / 1.7	5/11/16 11:24	5/25/16 3:49	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.88	J, Q-2	ug/m3	0.23 / 2.3	5/11/16 11:24	5/25/16 3:49	EPA TO-15
107-06-2	1,2-Dichloroethane	1.8	U	ug/m3	0.24 / 1.8	5/11/16 11:24	5/25/16 3:49	EPA TO-15
71-43-2	Benzene	0.77	J, Q-2, QL-2, QR-2	ug/m3	0.15 / 1.5	5/11/16 11:24	5/25/16 3:49	EPA TO-15
67-66-3	Chloroform	8.8	QL-2, QR-2	ug/m3	0.22 / 2.2	5/11/16 11:24	5/25/16 3:49	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:24	5/25/16 3:49	EPA TO-15
100-41-4	Ethyl Benzene	0.65	J, Q-2	ug/m3	0.20 / 2.0	5/11/16 11:24	5/25/16 3:49	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	0.17 / 1.5	5/11/16 11:24	5/25/16 3:49	EPA TO-15
95-47-6	o-Xylene	1.2	J, Q-2	ug/m3	0.20 / 2.0	5/11/16 11:24	5/25/16 3:49	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	1.7	J, Q-2	ug/m3	0.31 / 3.1	5/11/16 11:24	5/25/16 3:49	EPA TO-15
108-88-3	Toluene	3.5	J, QL-2	ug/m3	0.18 / 1.8	5/11/16 11:24	5/25/16 3:49	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/25/16 3:49	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	0.93	J, Q-2, QR-2	ug/m3	0.25 / 2.5	5/11/16 11:24	5/25/16 3:49	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	0.12 / 1.2	5/11/16 11:24	5/25/16 3:49	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM114IA0516 **Lab ID:** E162001-31

Station ID: GM114 **Matrix:** Indoor Air

Date Collected: 5/3/16 10:54

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.66	J, Q-2	ug/m3	0.48 / 4.8	5/11/16 11:21	5/19/16 3:19	EPA TO-15
79-00-5	1,1,2-Trichloroethane	3.0	U	ug/m3	0.30 / 3.0	5/11/16 11:21	5/19/16 3:19	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:21	5/19/16 3:19	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.7	U	ug/m3	0.27 / 2.7	5/11/16 11:21	5/19/16 3:19	EPA TO-15
107-06-2	1,2-Dichloroethane	0.44	J, Q-2	ug/m3	0.28 / 2.1	5/11/16 11:21	5/19/16 3:19	EPA TO-15
71-43-2	Benzene	2.1		ug/m3	0.17 / 1.7	5/11/16 11:21	5/19/16 3:19	EPA TO-15
67-66-3	Chloroform	0.72	J, Q-2, QR-2	ug/m3	0.26 / 2.6	5/11/16 11:21	5/19/16 3:19	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/11/16 11:21	5/19/16 3:19	EPA TO-15
100-41-4	Ethyl Benzene	0.62	J, Q-2	ug/m3	0.24 / 2.4	5/11/16 11:21	5/19/16 3:19	EPA TO-15
75-09-2	Methylene Chloride	1.8	U	ug/m3	1.8 / 1.8	5/11/16 11:21	5/19/16 3:19	EPA TO-15
95-47-6	o-Xylene	0.36	J, Q-2	ug/m3	0.24 / 2.4	5/11/16 11:21	5/19/16 3:19	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.6	U	ug/m3	0.36 / 3.6	5/11/16 11:21	5/19/16 3:19	EPA TO-15
108-88-3	Toluene	3.0		ug/m3	0.20 / 2.0	5/11/16 11:21	5/19/16 3:19	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:21	5/19/16 3:19	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.9	U	ug/m3	0.29 / 2.9	5/11/16 11:21	5/19/16 3:19	EPA TO-15
75-01-4	Vinyl chloride	1.4	U	ug/m3	0.14 / 1.4	5/11/16 11:21	5/19/16 3:19	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM114SS0516 **Lab ID:** E162001-32

Station ID: GM114 **Matrix:** Soil Gas

Date Collected: 5/4/16 10:13

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.9	U	ug/m3	0.39 / 3.9	5/11/16 11:24	5/25/16 5:30	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.4	U	ug/m3	0.24 / 2.4	5/11/16 11:24	5/25/16 5:30	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.6	U	ug/m3	0.16 / 1.6	5/11/16 11:24	5/25/16 5:30	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.41	J, Q-2	ug/m3	0.22 / 2.2	5/11/16 11:24	5/25/16 5:30	EPA TO-15
107-06-2	1,2-Dichloroethane	1.7	U	ug/m3	0.22 / 1.7	5/11/16 11:24	5/25/16 5:30	EPA TO-15
71-43-2	Benzene	0.47	J, Q-2, QL-2, QR-2	ug/m3	0.14 / 1.4	5/11/16 11:24	5/25/16 5:30	EPA TO-15
67-66-3	Chloroform	0.62	J, Q-2, QL-2, QR-2	ug/m3	0.21 / 2.1	5/11/16 11:24	5/25/16 5:30	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.7	U	ug/m3	0.17 / 1.7	5/11/16 11:24	5/25/16 5:30	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/25/16 5:30	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	0.16 / 1.5	5/11/16 11:24	5/25/16 5:30	EPA TO-15
95-47-6	o-Xylene	0.19	J, Q-2	ug/m3	0.19 / 1.9	5/11/16 11:24	5/25/16 5:30	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.38	J, Q-2	ug/m3	0.30 / 3.0	5/11/16 11:24	5/25/16 5:30	EPA TO-15
108-88-3	Toluene	0.42	J, Q-2, QL-2	ug/m3	0.17 / 1.7	5/11/16 11:24	5/25/16 5:30	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:24	5/25/16 5:30	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.4	U	ug/m3	0.24 / 2.4	5/11/16 11:24	5/25/16 5:30	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	0.11 / 1.1	5/11/16 11:24	5/25/16 5:30	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM115IA0516 **Lab ID:** E162001-33
Station ID: GM115 **Matrix:** Indoor Air

Date Collected: 5/3/16 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.50	J, Q-2	ug/m3	0.50 / 5.0	5/11/16 11:21	5/19/16 4:10	EPA TO-15
79-00-5	1,1,2-Trichloroethane	3.1	U	ug/m3	0.31 / 3.1	5/11/16 11:21	5/19/16 4:10	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.1	U	ug/m3	0.21 / 2.1	5/11/16 11:21	5/19/16 4:10	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.42	J, Q-2	ug/m3	0.28 / 2.8	5/11/16 11:21	5/19/16 4:10	EPA TO-15
107-06-2	1,2-Dichloroethane	2.2	U	ug/m3	0.29 / 2.2	5/11/16 11:21	5/19/16 4:10	EPA TO-15
71-43-2	Benzene	0.70	J, Q-2	ug/m3	0.18 / 1.8	5/11/16 11:21	5/19/16 4:10	EPA TO-15
67-66-3	Chloroform	0.34	J, Q-2, QR-2	ug/m3	0.27 / 2.7	5/11/16 11:21	5/19/16 4:10	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:21	5/19/16 4:10	EPA TO-15
100-41-4	Ethyl Benzene	2.5	U	ug/m3	0.25 / 2.5	5/11/16 11:21	5/19/16 4:10	EPA TO-15
75-09-2	Methylene Chloride	1.9	U	ug/m3	1.9 / 1.9	5/11/16 11:21	5/19/16 4:10	EPA TO-15
95-47-6	o-Xylene	2.5	U	ug/m3	0.25 / 2.5	5/11/16 11:21	5/19/16 4:10	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.8	U	ug/m3	0.38 / 3.8	5/11/16 11:21	5/19/16 4:10	EPA TO-15
108-88-3	Toluene	2.9		ug/m3	0.21 / 2.1	5/11/16 11:21	5/19/16 4:10	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.3	U	ug/m3	0.23 / 2.3	5/11/16 11:21	5/19/16 4:10	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	3.0	U	ug/m3	0.30 / 3.0	5/11/16 11:21	5/19/16 4:10	EPA TO-15
75-01-4	Vinyl chloride	1.4	U	ug/m3	0.14 / 1.4	5/11/16 11:21	5/19/16 4:10	EPA TO-15

Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM115SS0516 **Lab ID:** E162001-34

Station ID: GM115 **Matrix:** Soil Gas

Date Collected: 5/3/16 11:08

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.9	U	ug/m3	0.39 / 3.9	5/11/16 11:24	5/25/16 6:20	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.4	U	ug/m3	0.24 / 2.4	5/11/16 11:24	5/25/16 6:20	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.6	U	ug/m3	0.16 / 1.6	5/11/16 11:24	5/25/16 6:20	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:24	5/25/16 6:20	EPA TO-15
107-06-2	1,2-Dichloroethane	1.7	U	ug/m3	0.23 / 1.7	5/11/16 11:24	5/25/16 6:20	EPA TO-15
71-43-2	Benzene	1.4	U	ug/m3	1.4 / 1.4	5/11/16 11:24	5/25/16 6:20	EPA TO-15
67-66-3	Chloroform	1.4	J, Q-2, QL-2, QR-2	ug/m3	0.21 / 2.1	5/11/16 11:24	5/25/16 6:20	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.7	U	ug/m3	0.17 / 1.7	5/11/16 11:24	5/25/16 6:20	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/25/16 6:20	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	1.5 / 1.5	5/11/16 11:24	5/25/16 6:20	EPA TO-15
95-47-6	o-Xylene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/25/16 6:20	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.0	U	ug/m3	0.30 / 3.0	5/11/16 11:24	5/25/16 6:20	EPA TO-15
108-88-3	Toluene	0.63	J, Q-2, QL-2	ug/m3	0.17 / 1.7	5/11/16 11:24	5/25/16 6:20	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:24	5/25/16 6:20	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.4	U	ug/m3	0.24 / 2.4	5/11/16 11:24	5/25/16 6:20	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	0.11 / 1.1	5/11/16 11:24	5/25/16 6:20	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM116IA0516 **Lab ID:** E162001-35

Station ID: GM116 **Matrix:** Indoor Air

Date Collected: 5/4/16 18:48

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	2.4	J, Q-2	ug/m3	0.45 / 4.5	5/11/16 11:21	5/19/16 5:01	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	0.28 / 2.8	5/11/16 11:21	5/19/16 5:01	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:21	5/19/16 5:01	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	1.0	J, Q-2	ug/m3	0.25 / 2.5	5/11/16 11:21	5/19/16 5:01	EPA TO-15
107-06-2	1,2-Dichloroethane	0.32	J, Q-2	ug/m3	0.26 / 2.0	5/11/16 11:21	5/19/16 5:01	EPA TO-15
71-43-2	Benzene	1.0	J, Q-2	ug/m3	0.16 / 1.6	5/11/16 11:21	5/19/16 5:01	EPA TO-15
67-66-3	Chloroform	1.3	J, Q-2, QR-2	ug/m3	0.24 / 2.4	5/11/16 11:21	5/19/16 5:01	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:21	5/19/16 5:01	EPA TO-15
100-41-4	Ethyl Benzene	0.75	J, Q-2	ug/m3	0.22 / 2.2	5/11/16 11:21	5/19/16 5:01	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7 / 1.7	5/11/16 11:21	5/19/16 5:01	EPA TO-15
95-47-6	o-Xylene	0.88	J, Q-2	ug/m3	0.22 / 2.2	5/11/16 11:21	5/19/16 5:01	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.4	U	ug/m3	0.34 / 3.4	5/11/16 11:21	5/19/16 5:01	EPA TO-15
108-88-3	Toluene	7.8		ug/m3	0.19 / 1.9	5/11/16 11:21	5/19/16 5:01	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/11/16 11:21	5/19/16 5:01	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.7	U	ug/m3	0.27 / 2.7	5/11/16 11:21	5/19/16 5:01	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	0.13 / 1.3	5/11/16 11:21	5/19/16 5:01	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM116SS0516 **Lab ID:** E162001-36
Station ID: GM116 **Matrix:** Soil Gas

Date Collected: 5/4/16 18:08

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.1	U	ug/m3	0.41 / 4.1	5/11/16 11:24	5/25/16 7:11	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.5	U	ug/m3	0.25 / 2.5	5/11/16 11:24	5/25/16 7:11	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	0.17 / 1.7	5/11/16 11:24	5/25/16 7:11	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.3	U	ug/m3	0.23 / 2.3	5/11/16 11:24	5/25/16 7:11	EPA TO-15
107-06-2	1,2-Dichloroethane	1.8	U	ug/m3	0.24 / 1.8	5/11/16 11:24	5/25/16 7:11	EPA TO-15
71-43-2	Benzene	0.52	J, QR-2, Q-2, QL-2	ug/m3	0.15 / 1.5	5/11/16 11:24	5/25/16 7:11	EPA TO-15
67-66-3	Chloroform	0.64	J, Q-2, QL-2, QR-2	ug/m3	0.22 / 2.2	5/11/16 11:24	5/25/16 7:11	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:24	5/25/16 7:11	EPA TO-15
100-41-4	Ethyl Benzene	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:24	5/25/16 7:11	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	1.5 / 1.5	5/11/16 11:24	5/25/16 7:11	EPA TO-15
95-47-6	o-Xylene	0.20	J, Q-2	ug/m3	0.20 / 2.0	5/11/16 11:24	5/25/16 7:11	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.87	J, Q-2	ug/m3	0.31 / 3.1	5/11/16 11:24	5/25/16 7:11	EPA TO-15
108-88-3	Toluene	0.64	J, Q-2, QL-2	ug/m3	0.17 / 1.7	5/11/16 11:24	5/25/16 7:11	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/25/16 7:11	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.5	U	ug/m3	0.25 / 2.5	5/11/16 11:24	5/25/16 7:11	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	0.12 / 1.2	5/11/16 11:24	5/25/16 7:11	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM117IA0516 **Lab ID:** E162001-37

Station ID: GM117 **Matrix:** Indoor Air

Date Collected: 5/3/16 16:48

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.98	J, Q-2	ug/m3	0.48 / 4.8	5/11/16 11:21	5/19/16 21:49	EPA TO-15
79-00-5	1,1,2-Trichloroethane	3.0	U	ug/m3	0.30 / 3.0	5/11/16 11:21	5/19/16 21:49	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:21	5/19/16 21:49	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.53	J, Q-2	ug/m3	0.27 / 2.7	5/11/16 11:21	5/19/16 21:49	EPA TO-15
107-06-2	1,2-Dichloroethane	2.9		ug/m3	0.28 / 2.1	5/11/16 11:21	5/19/16 21:49	EPA TO-15
71-43-2	Benzene	1.2	J, Q-2	ug/m3	0.17 / 1.7	5/11/16 11:21	5/19/16 21:49	EPA TO-15
67-66-3	Chloroform	0.39	J, Q-2	ug/m3	0.26 / 2.6	5/11/16 11:21	5/19/16 21:49	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/11/16 11:21	5/19/16 21:49	EPA TO-15
100-41-4	Ethyl Benzene	0.41	J, Q-2	ug/m3	0.24 / 2.4	5/11/16 11:21	5/19/16 21:49	EPA TO-15
75-09-2	Methylene Chloride	1.8	U	ug/m3	1.8 / 1.8	5/11/16 11:21	5/19/16 21:49	EPA TO-15
95-47-6	o-Xylene	0.48	J, Q-2	ug/m3	0.24 / 2.4	5/11/16 11:21	5/19/16 21:49	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.6	U	ug/m3	0.36 / 3.6	5/11/16 11:21	5/19/16 21:49	EPA TO-15
108-88-3	Toluene	4.3		ug/m3	0.20 / 2.0	5/11/16 11:21	5/19/16 21:49	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:21	5/19/16 21:49	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.9	U	ug/m3	0.29 / 2.9	5/11/16 11:21	5/19/16 21:49	EPA TO-15
75-01-4	Vinyl chloride	1.4	U	ug/m3	0.14 / 1.4	5/11/16 11:21	5/19/16 21:49	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM117SS0516 **Lab ID:** E162001-38

Station ID: GM117 **Matrix:** Soil Gas

Date Collected: 5/3/16 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.8	U	ug/m3	0.38 / 3.8	5/11/16 11:24	5/26/16 0:01	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.4	U	ug/m3	2.4 / 2.4	5/11/16 11:24	5/26/16 0:01	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.6	U	ug/m3	0.16 / 1.6	5/11/16 11:24	5/26/16 0:01	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.63	J, Q-2	ug/m3	0.22 / 2.2	5/11/16 11:24	5/26/16 0:01	EPA TO-15
107-06-2	1,2-Dichloroethane	0.52	J, Q-2, QR-2	ug/m3	0.22 / 1.7	5/11/16 11:24	5/26/16 0:01	EPA TO-15
71-43-2	Benzene	0.79	J, Q-2, QR-2	ug/m3	0.14 / 1.4	5/11/16 11:24	5/26/16 0:01	EPA TO-15
67-66-3	Chloroform	0.67	J, Q-2, QR-2	ug/m3	0.21 / 2.1	5/11/16 11:24	5/26/16 0:01	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.7	U	ug/m3	0.17 / 1.7	5/11/16 11:24	5/26/16 0:01	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/26/16 0:01	EPA TO-15
75-09-2	Methylene Chloride	1.4	U	ug/m3	1.4 / 1.4	5/11/16 11:24	5/26/16 0:01	EPA TO-15
95-47-6	o-Xylene	0.23	J, Q-2	ug/m3	0.19 / 1.9	5/11/16 11:24	5/26/16 0:01	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.61	J, Q-2	ug/m3	0.29 / 2.9	5/11/16 11:24	5/26/16 0:01	EPA TO-15
108-88-3	Toluene	1.6		ug/m3	0.16 / 1.6	5/11/16 11:24	5/26/16 0:01	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:24	5/26/16 0:01	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.3	U	ug/m3	0.23 / 2.3	5/11/16 11:24	5/26/16 0:01	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	0.11 / 1.1	5/11/16 11:24	5/26/16 0:01	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM118IA0516 **Lab ID:** E162001-39

Station ID: GM118 **Matrix:** Indoor Air

Date Collected: 5/4/16 12:06

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	2.4	J, Q-2	ug/m3	0.46 / 4.6	5/11/16 11:21	5/19/16 22:40	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.9	U	ug/m3	0.29 / 2.9	5/11/16 11:21	5/19/16 22:40	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:21	5/19/16 22:40	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	1.4	J, Q-2	ug/m3	0.26 / 2.6	5/11/16 11:21	5/19/16 22:40	EPA TO-15
107-06-2	1,2-Dichloroethane	2.7		ug/m3	0.27 / 2.1	5/11/16 11:21	5/19/16 22:40	EPA TO-15
71-43-2	Benzene	1.9		ug/m3	0.17 / 1.7	5/11/16 11:21	5/19/16 22:40	EPA TO-15
67-66-3	Chloroform	4.7		ug/m3	0.25 / 2.5	5/11/16 11:21	5/19/16 22:40	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	0.21	J, Q-2	ug/m3	0.21 / 2.1	5/11/16 11:21	5/19/16 22:40	EPA TO-15
100-41-4	Ethyl Benzene	0.75	J, Q-2	ug/m3	0.23 / 2.3	5/11/16 11:21	5/19/16 22:40	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7 / 1.7	5/11/16 11:21	5/19/16 22:40	EPA TO-15
95-47-6	o-Xylene	0.96	J, Q-2	ug/m3	0.23 / 2.3	5/11/16 11:21	5/19/16 22:40	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	0.35 / 3.5	5/11/16 11:21	5/19/16 22:40	EPA TO-15
108-88-3	Toluene	7.1		ug/m3	0.20 / 2.0	5/11/16 11:21	5/19/16 22:40	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:21	5/19/16 22:40	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	0.28 / 2.8	5/11/16 11:21	5/19/16 22:40	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	0.13 / 1.3	5/11/16 11:21	5/19/16 22:40	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM118SS0516 **Lab ID:** E162001-40

Station ID: GM118 **Matrix:** Soil Gas

Date Collected: 5/4/16 11:07

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.8	U	ug/m3	0.38 / 3.8	5/11/16 11:24	5/26/16 0:52	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.4	U	ug/m3	0.24 / 2.4	5/11/16 11:24	5/26/16 0:52	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.6	U	ug/m3	0.16 / 1.6	5/11/16 11:24	5/26/16 0:52	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:24	5/26/16 0:52	EPA TO-15
107-06-2	1,2-Dichloroethane	1.7	U	ug/m3	0.22 / 1.7	5/11/16 11:24	5/26/16 0:52	EPA TO-15
71-43-2	Benzene	1.4	U	ug/m3	1.4 / 1.4	5/11/16 11:24	5/26/16 0:52	EPA TO-15
67-66-3	Chloroform	0.81	J, Q-2, QR-2	ug/m3	0.21 / 2.1	5/11/16 11:24	5/26/16 0:52	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.7	U	ug/m3	0.17 / 1.7	5/11/16 11:24	5/26/16 0:52	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/26/16 0:52	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	0.16 / 1.5	5/11/16 11:24	5/26/16 0:52	EPA TO-15
95-47-6	o-Xylene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/26/16 0:52	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	2.9	U	ug/m3	0.29 / 2.9	5/11/16 11:24	5/26/16 0:52	EPA TO-15
108-88-3	Toluene	1.7	U	ug/m3	1.7 / 1.7	5/11/16 11:24	5/26/16 0:52	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:24	5/26/16 0:52	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.3	U	ug/m3	0.23 / 2.3	5/11/16 11:24	5/26/16 0:52	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	0.11 / 1.1	5/11/16 11:24	5/26/16 0:52	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM119IA0516 **Lab ID:** E162001-41

Station ID: GM119 **Matrix:** Indoor Air

Date Collected: 5/4/16 17:55

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	22		ug/m3	0.46 / 4.6	5/11/16 11:21	5/19/16 23:32	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.9	U	ug/m3	2.9 / 2.9	5/11/16 11:21	5/19/16 23:32	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:21	5/19/16 23:32	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	9.2		ug/m3	0.26 / 2.6	5/11/16 11:21	5/19/16 23:32	EPA TO-15
107-06-2	1,2-Dichloroethane	3.7		ug/m3	0.27 / 2.1	5/11/16 11:21	5/19/16 23:32	EPA TO-15
71-43-2	Benzene	4.0		ug/m3	0.17 / 1.7	5/11/16 11:21	5/19/16 23:32	EPA TO-15
67-66-3	Chloroform	1.3	J, Q-2	ug/m3	0.25 / 2.5	5/11/16 11:21	5/19/16 23:32	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/11/16 11:21	5/19/16 23:32	EPA TO-15
100-41-4	Ethyl Benzene	6.8		ug/m3	0.23 / 2.3	5/11/16 11:21	5/19/16 23:32	EPA TO-15
75-09-2	Methylene Chloride	1.8	U	ug/m3	1.8 / 1.8	5/11/16 11:21	5/19/16 23:32	EPA TO-15
95-47-6	o-Xylene	8.6		ug/m3	0.23 / 2.3	5/11/16 11:21	5/19/16 23:32	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.6	U	ug/m3	0.36 / 3.6	5/11/16 11:21	5/19/16 23:32	EPA TO-15
108-88-3	Toluene	53		ug/m3	0.20 / 2.0	5/11/16 11:21	5/19/16 23:32	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:21	5/19/16 23:32	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	0.28 / 2.8	5/11/16 11:21	5/19/16 23:32	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	0.13 / 1.3	5/11/16 11:21	5/19/16 23:32	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM119SS0516 **Lab ID:** E162001-42
Station ID: GM119 **Matrix:** Soil Gas

Date Collected: 5/4/16 17:07

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.0	U	ug/m3	0.40 / 4.0	5/11/16 11:24	5/26/16 1:42	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.5	U	ug/m3	0.25 / 2.5	5/11/16 11:24	5/26/16 1:42	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	0.17 / 1.7	5/11/16 11:24	5/26/16 1:42	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:24	5/26/16 1:42	EPA TO-15
107-06-2	1,2-Dichloroethane	1.8	U	ug/m3	0.23 / 1.8	5/11/16 11:24	5/26/16 1:42	EPA TO-15
71-43-2	Benzene	1.4	U	ug/m3	1.4 / 1.4	5/11/16 11:24	5/26/16 1:42	EPA TO-15
67-66-3	Chloroform	0.56	J, Q-2, QR-2	ug/m3	0.21 / 2.1	5/11/16 11:24	5/26/16 1:42	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:24	5/26/16 1:42	EPA TO-15
100-41-4	Ethyl Benzene	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:24	5/26/16 1:42	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	0.16 / 1.5	5/11/16 11:24	5/26/16 1:42	EPA TO-15
95-47-6	o-Xylene	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:24	5/26/16 1:42	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.41	J, Q-2	ug/m3	0.30 / 3.0	5/11/16 11:24	5/26/16 1:42	EPA TO-15
108-88-3	Toluene	1.7	U	ug/m3	1.7 / 1.7	5/11/16 11:24	5/26/16 1:42	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/26/16 1:42	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.4	U	ug/m3	0.24 / 2.4	5/11/16 11:24	5/26/16 1:42	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	0.11 / 1.1	5/11/16 11:24	5/26/16 1:42	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM12AA0516 **Lab ID:** E162001-43
Station ID: GM12 **Matrix:** Ambient Air

Date Collected: 5/3/16 7:37

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.56	J, Q-2	ug/m3	0.43 / 4.3	5/10/16 13:54	5/14/16 3:06	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.7	U	ug/m3	0.27 / 2.7	5/10/16 13:54	5/14/16 3:06	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.8	U	ug/m3	0.18 / 1.8	5/10/16 13:54	5/14/16 3:06	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.5	U	ug/m3	0.25 / 2.5	5/10/16 13:54	5/14/16 3:06	EPA TO-15
107-06-2	1,2-Dichloroethane	1.9	U	ug/m3	0.25 / 1.9	5/10/16 13:54	5/14/16 3:06	EPA TO-15
71-43-2	Benzene	0.59	J, Q-2	ug/m3	0.16 / 1.6	5/10/16 13:54	5/14/16 3:06	EPA TO-15
67-66-3	Chloroform	2.4	U	ug/m3	0.24 / 2.4	5/10/16 13:54	5/14/16 3:06	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.9	U	ug/m3	0.19 / 1.9	5/10/16 13:54	5/14/16 3:06	EPA TO-15
100-41-4	Ethyl Benzene	2.1	U	ug/m3	0.21 / 2.1	5/10/16 13:54	5/14/16 3:06	EPA TO-15
75-09-2	Methylene Chloride	1.6	U	ug/m3	1.6 / 1.6	5/10/16 13:54	5/14/16 3:06	EPA TO-15
95-47-6	o-Xylene	0.24	J, Q-2	ug/m3	0.22 / 2.2	5/10/16 13:54	5/14/16 3:06	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.3	U	ug/m3	0.33 / 3.3	5/10/16 13:54	5/14/16 3:06	EPA TO-15
108-88-3	Toluene	1.9		ug/m3	0.19 / 1.9	5/10/16 13:54	5/14/16 3:06	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.0	U	ug/m3	0.20 / 2.0	5/10/16 13:54	5/14/16 3:06	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.6	U	ug/m3	0.26 / 2.6	5/10/16 13:54	5/14/16 3:06	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	0.12 / 1.2	5/10/16 13:54	5/14/16 3:06	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM12AA20516 **Lab ID:** E162001-44

Station ID: GM12 **Matrix:** Ambient Air

Date Collected: 5/4/16 7:36

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.84	J, Q-2	ug/m3	0.45 / 4.5	5/10/16 13:54	5/14/16 3:56	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	0.28 / 2.8	5/10/16 13:54	5/14/16 3:56	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	0.19 / 1.9	5/10/16 13:54	5/14/16 3:56	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.33	J, Q-2	ug/m3	0.25 / 2.5	5/10/16 13:54	5/14/16 3:56	EPA TO-15
107-06-2	1,2-Dichloroethane	2.0	U	ug/m3	0.26 / 2.0	5/10/16 13:54	5/14/16 3:56	EPA TO-15
71-43-2	Benzene	0.55	J, Q-2	ug/m3	0.16 / 1.6	5/10/16 13:54	5/14/16 3:56	EPA TO-15
67-66-3	Chloroform	0.90	J, Q-2, QR-2	ug/m3	0.24 / 2.4	5/10/16 13:54	5/14/16 3:56	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	0.22	J, Q-2	ug/m3	0.20 / 2.0	5/10/16 13:54	5/14/16 3:56	EPA TO-15
100-41-4	Ethyl Benzene	0.28	J, Q-2	ug/m3	0.22 / 2.2	5/10/16 13:54	5/14/16 3:56	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7 / 1.7	5/10/16 13:54	5/14/16 3:56	EPA TO-15
95-47-6	o-Xylene	0.38	J, Q-2	ug/m3	0.22 / 2.2	5/10/16 13:54	5/14/16 3:56	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.4	U	ug/m3	0.34 / 3.4	5/10/16 13:54	5/14/16 3:56	EPA TO-15
108-88-3	Toluene	2.1		ug/m3	0.19 / 1.9	5/10/16 13:54	5/14/16 3:56	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/10/16 13:54	5/14/16 3:56	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.7	U	ug/m3	0.27 / 2.7	5/10/16 13:54	5/14/16 3:56	EPA TO-15
75-01-4	Vinyl chloride	0.19	J, Q-2	ug/m3	0.13 / 1.3	5/10/16 13:54	5/14/16 3:56	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM12AA30516 **Lab ID:** E162001-45

Station ID: GM12 **Matrix:** Ambient Air

Date Collected: 5/5/16 7:47

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	2.3	J, Q-2	ug/m3	0.44 / 4.4	5/10/16 13:54	5/14/16 4:47	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	0.28 / 2.8	5/10/16 13:54	5/14/16 4:47	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	0.19 / 1.9	5/10/16 13:54	5/14/16 4:47	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.92	J, Q-2	ug/m3	0.25 / 2.5	5/10/16 13:54	5/14/16 4:47	EPA TO-15
107-06-2	1,2-Dichloroethane	2.0	U	ug/m3	0.26 / 2.0	5/10/16 13:54	5/14/16 4:47	EPA TO-15
71-43-2	Benzene	0.51	J, Q-2	ug/m3	0.16 / 1.6	5/10/16 13:54	5/14/16 4:47	EPA TO-15
67-66-3	Chloroform	2.4	U	ug/m3	0.24 / 2.4	5/10/16 13:54	5/14/16 4:47	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	0.39	J, Q-2	ug/m3	0.20 / 2.0	5/10/16 13:54	5/14/16 4:47	EPA TO-15
100-41-4	Ethyl Benzene	0.70	J, Q-2	ug/m3	0.22 / 2.2	5/10/16 13:54	5/14/16 4:47	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7 / 1.7	5/10/16 13:54	5/14/16 4:47	EPA TO-15
95-47-6	o-Xylene	0.92	J, Q-2	ug/m3	0.22 / 2.2	5/10/16 13:54	5/14/16 4:47	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.4	U	ug/m3	0.34 / 3.4	5/10/16 13:54	5/14/16 4:47	EPA TO-15
108-88-3	Toluene	4.4		ug/m3	0.19 / 1.9	5/10/16 13:54	5/14/16 4:47	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/10/16 13:54	5/14/16 4:47	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.7	U	ug/m3	0.27 / 2.7	5/10/16 13:54	5/14/16 4:47	EPA TO-15
75-01-4	Vinyl chloride	0.14	J, Q-2	ug/m3	0.13 / 1.3	5/10/16 13:54	5/14/16 4:47	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM120IA0516 **Lab ID:** E162001-46

Station ID: GM120 **Matrix:** Indoor Air

Date Collected: 5/3/16 17:40

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.2	J, Q-2	ug/m3	0.44 / 4.4	5/11/16 11:21	5/20/16 1:15	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.7	U	ug/m3	0.27 / 2.7	5/11/16 11:21	5/20/16 1:15	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:21	5/20/16 1:15	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.38	J, Q-2	ug/m3	0.25 / 2.5	5/11/16 11:21	5/20/16 1:15	EPA TO-15
107-06-2	1,2-Dichloroethane	1.9	J, Q-2	ug/m3	0.25 / 2.0	5/11/16 11:21	5/20/16 1:15	EPA TO-15
71-43-2	Benzene	0.98	J, Q-2	ug/m3	0.16 / 1.6	5/11/16 11:21	5/20/16 1:15	EPA TO-15
67-66-3	Chloroform	0.40	J, Q-2	ug/m3	0.24 / 2.4	5/11/16 11:21	5/20/16 1:15	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:21	5/20/16 1:15	EPA TO-15
100-41-4	Ethyl Benzene	0.46	J, Q-2	ug/m3	0.22 / 2.2	5/11/16 11:21	5/20/16 1:15	EPA TO-15
75-09-2	Methylene Chloride	1.6	U	ug/m3	1.6 / 1.6	5/11/16 11:21	5/20/16 1:15	EPA TO-15
95-47-6	o-Xylene	0.49	J, Q-2	ug/m3	0.22 / 2.2	5/11/16 11:21	5/20/16 1:15	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.3	U	ug/m3	0.33 / 3.3	5/11/16 11:21	5/20/16 1:15	EPA TO-15
108-88-3	Toluene	7.6		ug/m3	0.19 / 1.9	5/11/16 11:21	5/20/16 1:15	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:21	5/20/16 1:15	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.6	U	ug/m3	0.26 / 2.6	5/11/16 11:21	5/20/16 1:15	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	0.12 / 1.2	5/11/16 11:21	5/20/16 1:15	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM120SS0516 **Lab ID:** E162001-47
Station ID: GM120 **Matrix:** Soil Gas

Date Collected: 5/3/16 17:05

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.0	U	ug/m3	0.40 / 4.0	5/11/16 11:24	5/26/16 2:32	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.5	U	ug/m3	0.25 / 2.5	5/11/16 11:24	5/26/16 2:32	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	0.17 / 1.7	5/11/16 11:24	5/26/16 2:32	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	3.6		ug/m3	0.22 / 2.2	5/11/16 11:24	5/26/16 2:32	EPA TO-15
107-06-2	1,2-Dichloroethane	1.8	U	ug/m3	0.23 / 1.8	5/11/16 11:24	5/26/16 2:32	EPA TO-15
71-43-2	Benzene	0.51	J, Q-2, QR-2	ug/m3	0.14 / 1.4	5/11/16 11:24	5/26/16 2:32	EPA TO-15
67-66-3	Chloroform	12		ug/m3	0.22 / 2.2	5/11/16 11:24	5/26/16 2:32	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:24	5/26/16 2:32	EPA TO-15
100-41-4	Ethyl Benzene	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:24	5/26/16 2:32	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	1.5 / 1.5	5/11/16 11:24	5/26/16 2:32	EPA TO-15
95-47-6	o-Xylene	0.30	J, Q-2	ug/m3	0.20 / 2.0	5/11/16 11:24	5/26/16 2:32	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.35	J, Q-2	ug/m3	0.30 / 3.0	5/11/16 11:24	5/26/16 2:32	EPA TO-15
108-88-3	Toluene	14		ug/m3	0.17 / 1.7	5/11/16 11:24	5/26/16 2:32	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/26/16 2:32	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.4	U	ug/m3	0.24 / 2.4	5/11/16 11:24	5/26/16 2:32	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	0.11 / 1.1	5/11/16 11:24	5/26/16 2:32	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM121IA0516 **Lab ID:** E162001-48

Station ID: GM121 **Matrix:** Indoor Air

Date Collected: 5/3/16 18:38

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.2	J, Q-2	ug/m3	0.49 / 4.9	5/11/16 11:21	5/20/16 2:07	EPA TO-15
79-00-5	1,1,2-Trichloroethane	3.0	U	ug/m3	0.30 / 3.0	5/11/16 11:21	5/20/16 2:07	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.33	J, Q-2	ug/m3	0.21 / 2.1	5/11/16 11:21	5/20/16 2:07	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.75	J, Q-2	ug/m3	0.28 / 2.8	5/11/16 11:21	5/20/16 2:07	EPA TO-15
107-06-2	1,2-Dichloroethane	2.2	U	ug/m3	0.28 / 2.2	5/11/16 11:21	5/20/16 2:07	EPA TO-15
71-43-2	Benzene	1.1	J, Q-2	ug/m3	0.18 / 1.8	5/11/16 11:21	5/20/16 2:07	EPA TO-15
67-66-3	Chloroform	0.70	J, Q-2	ug/m3	0.26 / 2.6	5/11/16 11:21	5/20/16 2:07	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:21	5/20/16 2:07	EPA TO-15
100-41-4	Ethyl Benzene	0.46	J, Q-2	ug/m3	0.24 / 2.4	5/11/16 11:21	5/20/16 2:07	EPA TO-15
75-09-2	Methylene Chloride	1.8	U	ug/m3	1.8 / 1.8	5/11/16 11:21	5/20/16 2:07	EPA TO-15
95-47-6	o-Xylene	0.56	J, Q-2	ug/m3	0.24 / 2.4	5/11/16 11:21	5/20/16 2:07	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.7	U	ug/m3	0.37 / 3.7	5/11/16 11:21	5/20/16 2:07	EPA TO-15
108-88-3	Toluene	7.5		ug/m3	0.21 / 2.1	5/11/16 11:21	5/20/16 2:07	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.3	U	ug/m3	0.23 / 2.3	5/11/16 11:21	5/20/16 2:07	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	3.0	U	ug/m3	0.30 / 3.0	5/11/16 11:21	5/20/16 2:07	EPA TO-15
75-01-4	Vinyl chloride	1.4	U	ug/m3	0.14 / 1.4	5/11/16 11:21	5/20/16 2:07	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM121SS0516 **Lab ID:** E162001-49

Station ID: GM121 **Matrix:** Soil Gas

Date Collected: 5/3/16 18:02

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.8	U	ug/m3	0.38 / 3.8	5/11/16 11:24	5/26/16 4:13	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.4	U	ug/m3	0.24 / 2.4	5/11/16 11:24	5/26/16 4:13	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.6	U	ug/m3	0.16 / 1.6	5/11/16 11:24	5/26/16 4:13	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:24	5/26/16 4:13	EPA TO-15
107-06-2	1,2-Dichloroethane	1.7	U	ug/m3	0.22 / 1.7	5/11/16 11:24	5/26/16 4:13	EPA TO-15
71-43-2	Benzene	0.65	J, Q-2, QR-2	ug/m3	0.14 / 1.4	5/11/16 11:24	5/26/16 4:13	EPA TO-15
67-66-3	Chloroform	0.99	J, Q-2, QR-2	ug/m3	0.21 / 2.1	5/11/16 11:24	5/26/16 4:13	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.7	U	ug/m3	0.17 / 1.7	5/11/16 11:24	5/26/16 4:13	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/26/16 4:13	EPA TO-15
75-09-2	Methylene Chloride	1.4	U	ug/m3	1.4 / 1.4	5/11/16 11:24	5/26/16 4:13	EPA TO-15
95-47-6	o-Xylene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/26/16 4:13	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	2.9	U	ug/m3	0.29 / 2.9	5/11/16 11:24	5/26/16 4:13	EPA TO-15
108-88-3	Toluene	0.47	J, Q-2	ug/m3	0.16 / 1.6	5/11/16 11:24	5/26/16 4:13	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:24	5/26/16 4:13	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.3	U	ug/m3	0.23 / 2.3	5/11/16 11:24	5/26/16 4:13	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	0.11 / 1.1	5/11/16 11:24	5/26/16 4:13	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM122IA0516 **Lab ID:** E162001-50

Station ID: GM122 **Matrix:** Indoor Air

Date Collected: 5/4/16 12:37

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.55	J, Q-2	ug/m3	0.44 / 4.4	5/11/16 11:21	5/20/16 2:59	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.7	U	ug/m3	0.27 / 2.7	5/11/16 11:21	5/20/16 2:59	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:21	5/20/16 2:59	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.43	J, Q-2	ug/m3	0.25 / 2.5	5/11/16 11:21	5/20/16 2:59	EPA TO-15
107-06-2	1,2-Dichloroethane	0.86	J, Q-2	ug/m3	0.25 / 2.0	5/11/16 11:21	5/20/16 2:59	EPA TO-15
71-43-2	Benzene	0.77	J, Q-2	ug/m3	0.16 / 1.6	5/11/16 11:21	5/20/16 2:59	EPA TO-15
67-66-3	Chloroform	0.25	J, Q-2	ug/m3	0.24 / 2.4	5/11/16 11:21	5/20/16 2:59	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	0.23	J, Q-2	ug/m3	0.20 / 2.0	5/11/16 11:21	5/20/16 2:59	EPA TO-15
100-41-4	Ethyl Benzene	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:21	5/20/16 2:59	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7 / 1.7	5/11/16 11:21	5/20/16 2:59	EPA TO-15
95-47-6	o-Xylene	0.26	J, Q-2	ug/m3	0.22 / 2.2	5/11/16 11:21	5/20/16 2:59	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.3	U	ug/m3	0.33 / 3.3	5/11/16 11:21	5/20/16 2:59	EPA TO-15
108-88-3	Toluene	1.8	J, Q-2	ug/m3	0.19 / 1.9	5/11/16 11:21	5/20/16 2:59	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/11/16 11:21	5/20/16 2:59	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.7	U	ug/m3	0.27 / 2.7	5/11/16 11:21	5/20/16 2:59	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	0.13 / 1.3	5/11/16 11:21	5/20/16 2:59	EPA TO-15

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Region 4 Science and Ecosystem Support Division
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Project: 16-0323, Grenada Manufacturing - Reported by Sallie Hale

Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM122SS0516 **Lab ID:** E162001-51

Station ID: GM122 **Matrix:** Soil Gas

Date Collected: 5/4/16 11:54

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.0	U	ug/m3	0.40 / 4.0	5/11/16 11:24	5/26/16 5:03	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.5	U	ug/m3	0.25 / 2.5	5/11/16 11:24	5/26/16 5:03	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	0.17 / 1.7	5/11/16 11:24	5/26/16 5:03	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.3	U	ug/m3	0.23 / 2.3	5/11/16 11:24	5/26/16 5:03	EPA TO-15
107-06-2	1,2-Dichloroethane	1.8	U	ug/m3	0.23 / 1.8	5/11/16 11:24	5/26/16 5:03	EPA TO-15
71-43-2	Benzene	0.14	J, Q-2	ug/m3	0.14 / 1.4	5/11/16 11:24	5/26/16 5:03	EPA TO-15
67-66-3	Chloroform	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:24	5/26/16 5:03	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:24	5/26/16 5:03	EPA TO-15
100-41-4	Ethyl Benzene	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:24	5/26/16 5:03	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	0.17 / 1.5	5/11/16 11:24	5/26/16 5:03	EPA TO-15
95-47-6	o-Xylene	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:24	5/26/16 5:03	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	1.0	J, Q-2	ug/m3	0.31 / 3.1	5/11/16 11:24	5/26/16 5:03	EPA TO-15
108-88-3	Toluene	1.7	U	ug/m3	0.17 / 1.7	5/11/16 11:24	5/26/16 5:03	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/26/16 5:03	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.4	U	ug/m3	0.24 / 2.4	5/11/16 11:24	5/26/16 5:03	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	0.11 / 1.1	5/11/16 11:24	5/26/16 5:03	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM123IA0516 **Lab ID:** E162001-52

Station ID: GM123 **Matrix:** Indoor Air

Date Collected: 5/4/16 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.9	J, Q-2	ug/m3	0.49 / 4.9	5/11/16 11:21	5/20/16 3:52	EPA TO-15
79-00-5	1,1,2-Trichloroethane	3.1	U	ug/m3	0.31 / 3.1	5/11/16 11:21	5/20/16 3:52	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.1	U	ug/m3	0.21 / 2.1	5/11/16 11:21	5/20/16 3:52	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.58	J, Q-2	ug/m3	0.28 / 2.8	5/11/16 11:21	5/20/16 3:52	EPA TO-15
107-06-2	1,2-Dichloroethane	2.0	J, Q-2	ug/m3	0.29 / 2.2	5/11/16 11:21	5/20/16 3:52	EPA TO-15
71-43-2	Benzene	57		ug/m3	0.18 / 1.8	5/11/16 11:21	5/20/16 3:52	EPA TO-15
67-66-3	Chloroform	0.90	J, Q-2	ug/m3	0.27 / 2.7	5/11/16 11:21	5/20/16 3:52	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	0.28	J, Q-2	ug/m3	0.22 / 2.2	5/11/16 11:21	5/20/16 3:52	EPA TO-15
100-41-4	Ethyl Benzene	2.5		ug/m3	0.24 / 2.4	5/11/16 11:21	5/20/16 3:52	EPA TO-15
75-09-2	Methylene Chloride	1.9	U	ug/m3	1.9 / 1.9	5/11/16 11:21	5/20/16 3:52	EPA TO-15
95-47-6	o-Xylene	1.3	J, Q-2	ug/m3	0.25 / 2.5	5/11/16 11:21	5/20/16 3:52	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.8	U	ug/m3	0.38 / 3.8	5/11/16 11:21	5/20/16 3:52	EPA TO-15
108-88-3	Toluene	14		ug/m3	0.21 / 2.1	5/11/16 11:21	5/20/16 3:52	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.3	U	ug/m3	0.23 / 2.3	5/11/16 11:21	5/20/16 3:52	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	3.0	U	ug/m3	0.30 / 3.0	5/11/16 11:21	5/20/16 3:52	EPA TO-15
75-01-4	Vinyl chloride	1.4	U	ug/m3	0.14 / 1.4	5/11/16 11:21	5/20/16 3:52	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM123SS0516 **Lab ID:** E162001-53
Station ID: GM123 **Matrix:** Soil Gas

Date Collected: 5/4/16 12:40

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.9	U	ug/m3	0.39 / 3.9	5/11/16 11:24	5/26/16 5:54	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.5	U	ug/m3	0.25 / 2.5	5/11/16 11:24	5/26/16 5:54	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	0.17 / 1.7	5/11/16 11:24	5/26/16 5:54	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	0.22 / 2.2	5/11/16 11:24	5/26/16 5:54	EPA TO-15
107-06-2	1,2-Dichloroethane	1.8	U	ug/m3	0.23 / 1.8	5/11/16 11:24	5/26/16 5:54	EPA TO-15
71-43-2	Benzene	0.65	J, Q-2, QR-2	ug/m3	0.14 / 1.4	5/11/16 11:24	5/26/16 5:54	EPA TO-15
67-66-3	Chloroform	0.63	J, Q-2, QR-2	ug/m3	0.21 / 2.1	5/11/16 11:24	5/26/16 5:54	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:24	5/26/16 5:54	EPA TO-15
100-41-4	Ethyl Benzene	1.9	U	ug/m3	0.19 / 1.9	5/11/16 11:24	5/26/16 5:54	EPA TO-15
75-09-2	Methylene Chloride	1.5	U	ug/m3	0.16 / 1.5	5/11/16 11:24	5/26/16 5:54	EPA TO-15
95-47-6	o-Xylene	2.0	U	ug/m3	0.20 / 2.0	5/11/16 11:24	5/26/16 5:54	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.66	J, Q-2	ug/m3	0.30 / 3.0	5/11/16 11:24	5/26/16 5:54	EPA TO-15
108-88-3	Toluene	0.42	J, Q-2	ug/m3	0.17 / 1.7	5/11/16 11:24	5/26/16 5:54	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.8	U	ug/m3	0.18 / 1.8	5/11/16 11:24	5/26/16 5:54	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.4	U	ug/m3	0.24 / 2.4	5/11/16 11:24	5/26/16 5:54	EPA TO-15
75-01-4	Vinyl chloride	1.1	U	ug/m3	0.11 / 1.1	5/11/16 11:24	5/26/16 5:54	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM13AA0516 **Lab ID:** E162001-54

Station ID: GM13 **Matrix:** Ambient Air

Date Collected: 5/3/16 7:25

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.6	U	ug/m3	0.46 / 4.6	5/10/16 13:54	5/14/16 5:37	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	0.28 / 2.8	5/10/16 13:54	5/14/16 5:37	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	0.19 / 1.9	5/10/16 13:54	5/14/16 5:37	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.6	U	ug/m3	0.26 / 2.6	5/10/16 13:54	5/14/16 5:37	EPA TO-15
107-06-2	1,2-Dichloroethane	2.0	U	ug/m3	0.26 / 2.0	5/10/16 13:54	5/14/16 5:37	EPA TO-15
71-43-2	Benzene	0.41	J, Q-2	ug/m3	0.16 / 1.6	5/10/16 13:54	5/14/16 5:37	EPA TO-15
67-66-3	Chloroform	2.5	U	ug/m3	0.25 / 2.5	5/10/16 13:54	5/14/16 5:37	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	0.20 / 2.0	5/10/16 13:54	5/14/16 5:37	EPA TO-15
100-41-4	Ethyl Benzene	2.3	U	ug/m3	0.23 / 2.3	5/10/16 13:54	5/14/16 5:37	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7 / 1.7	5/10/16 13:54	5/14/16 5:37	EPA TO-15
95-47-6	o-Xylene	2.3	U	ug/m3	0.23 / 2.3	5/10/16 13:54	5/14/16 5:37	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	0.35 / 3.5	5/10/16 13:54	5/14/16 5:37	EPA TO-15
108-88-3	Toluene	0.72	J, Q-2	ug/m3	0.20 / 2.0	5/10/16 13:54	5/14/16 5:37	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/10/16 13:54	5/14/16 5:37	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	0.28 / 2.8	5/10/16 13:54	5/14/16 5:37	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	0.13 / 1.3	5/10/16 13:54	5/14/16 5:37	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM13AA20516 **Lab ID:** E162001-55

Station ID: GM13 **Matrix:** Ambient Air

Date Collected: 5/4/16 7:27

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.7	U	ug/m3	0.47 / 4.7	5/10/16 13:54	5/14/16 6:27	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.9	U	ug/m3	0.29 / 2.9	5/10/16 13:54	5/14/16 6:27	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	0.20 / 2.0	5/10/16 13:54	5/14/16 6:27	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.6	U	ug/m3	0.26 / 2.6	5/10/16 13:54	5/14/16 6:27	EPA TO-15
107-06-2	1,2-Dichloroethane	2.1	U	ug/m3	0.27 / 2.1	5/10/16 13:54	5/14/16 6:27	EPA TO-15
71-43-2	Benzene	1.7	U	ug/m3	1.7 / 1.7	5/10/16 13:54	5/14/16 6:27	EPA TO-15
67-66-3	Chloroform	2.5	U	ug/m3	0.25 / 2.5	5/10/16 13:54	5/14/16 6:27	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/10/16 13:54	5/14/16 6:27	EPA TO-15
100-41-4	Ethyl Benzene	2.3	U	ug/m3	0.23 / 2.3	5/10/16 13:54	5/14/16 6:27	EPA TO-15
75-09-2	Methylene Chloride	1.8	U	ug/m3	1.8 / 1.8	5/10/16 13:54	5/14/16 6:27	EPA TO-15
95-47-6	o-Xylene	2.3	U	ug/m3	0.23 / 2.3	5/10/16 13:54	5/14/16 6:27	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.6	U	ug/m3	0.36 / 3.6	5/10/16 13:54	5/14/16 6:27	EPA TO-15
108-88-3	Toluene	0.44	J, Q-2	ug/m3	0.20 / 2.0	5/10/16 13:54	5/14/16 6:27	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.2	U	ug/m3	0.22 / 2.2	5/10/16 13:54	5/14/16 6:27	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	0.28 / 2.8	5/10/16 13:54	5/14/16 6:27	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	0.13 / 1.3	5/10/16 13:54	5/14/16 6:27	EPA TO-15

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Volatile Organics

Project: 16-0323, Grenada Manufacturing

Sample ID: GM13AA30516 **Lab ID:** E162001-56

Station ID: GM13 **Matrix:** Ambient Air

Date Collected: 5/5/16 7:38

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.6	U	ug/m3	0.46 / 4.6	5/10/16 13:54	5/14/16 7:18	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.9	U	ug/m3	0.29 / 2.9	5/10/16 13:54	5/14/16 7:18	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.9	U	ug/m3	0.19 / 1.9	5/10/16 13:54	5/14/16 7:18	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.6	U	ug/m3	0.26 / 2.6	5/10/16 13:54	5/14/16 7:18	EPA TO-15
107-06-2	1,2-Dichloroethane	2.0	U	ug/m3	0.27 / 2.0	5/10/16 13:54	5/14/16 7:18	EPA TO-15
71-43-2	Benzene	0.38	J, Q-2	ug/m3	0.16 / 1.6	5/10/16 13:54	5/14/16 7:18	EPA TO-15
67-66-3	Chloroform	2.5	U	ug/m3	0.25 / 2.5	5/10/16 13:54	5/14/16 7:18	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	0.26	J, Q-2	ug/m3	0.20 / 2.0	5/10/16 13:54	5/14/16 7:18	EPA TO-15
100-41-4	Ethyl Benzene	2.3	U	ug/m3	0.23 / 2.3	5/10/16 13:54	5/14/16 7:18	EPA TO-15
75-09-2	Methylene Chloride	1.7	U	ug/m3	1.7 / 1.7	5/10/16 13:54	5/14/16 7:18	EPA TO-15
95-47-6	o-Xylene	2.3	U	ug/m3	0.23 / 2.3	5/10/16 13:54	5/14/16 7:18	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	0.35 / 3.5	5/10/16 13:54	5/14/16 7:18	EPA TO-15
108-88-3	Toluene	0.90	J, Q-2	ug/m3	0.20 / 2.0	5/10/16 13:54	5/14/16 7:18	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	0.21 / 2.1	5/10/16 13:54	5/14/16 7:18	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	0.28 / 2.8	5/10/16 13:54	5/14/16 7:18	EPA TO-15
75-01-4	Vinyl chloride	1.3	U	ug/m3	0.13 / 1.3	5/10/16 13:54	5/14/16 7:18	EPA TO-15

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1605046 - V TO-15 Air Canister										
Blank (1605046-BLK1)				Prepared: 05/10/16 Analyzed: 05/13/16						
EPA TO-15										
(m- and/or p-)Xylene	U	1.9	ug/m3							U
1,1,2-Trichloroethane	U	1.2	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.78	"							U
1,2,4-Trimethylbenzene	U	1.0	"							U
1,2-Dichloroethane	U	0.83	"							U
Benzene	U	0.67	"							U
Chloroform	U	1.0	"							U
cis-1,2-Dichloroethene	U	0.83	"							U
Ethyl Benzene	U	0.92	"							U
Methylene Chloride	0.12203	0.70	"							B-3, Q-2, J
o-Xylene	U	0.93	"							U
Tetrachloroethene (Tetrachloroethylene)	U	1.4	"							U
Toluene	U	0.80	"							U
trans-1,2-Dichloroethene	U	0.87	"							U
Trichloroethene (Trichloroethylene)	U	1.1	"							U
Vinyl chloride	U	0.53	"							U
LCS (1605046-BS1)				Prepared: 05/10/16 Analyzed: 05/13/16						
EPA TO-15										
(m- and/or p-)Xylene	5.0197		ppbv	4.2821		117	72-140			
1,1,2-Trichloroethane	2.8670		"	2.1815		131	71-142			
1,1-Dichloroethene (1,1-Dichloroethylene)	1.9966		"	2.0603		96.9	70-140			
1,2,4-Trimethylbenzene	2.7258		"	2.1613		126	66-136			
1,2-Dichloroethane	2.7123		"	2.0805		130	71-137			
Benzene	2.7168		"	2.1007		129	70-140			
Chloroform	2.8911		"	2.1613		134	70-141			
cis-1,2-Dichloroethene	2.0073		"	2.1613		92.9	70-136			
Ethyl Benzene	2.3904		"	2.1411		112	70-137			
Methylene Chloride	1.9005		"	2.0603		92.2	70-142			
o-Xylene	2.5542		"	2.1613		118	72-136			
Tetrachloroethene (Tetrachloroethylene)	2.5961		"	2.2219		117	68-148			
Toluene	2.7801		"	2.1411		130	72-138			
trans-1,2-Dichloroethene	2.1244		"	2.2017		96.5	73-136			
Trichloroethene (Trichloroethylene)	2.5614		"	2.1007		122	69-137			
Vinyl chloride	2.0978		"	2.1007		99.9	62-151			

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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1605046 - V TO-15 Air Canister										
LCS Dup (1605046-BSD1)				Prepared: 05/10/16 Analyzed: 05/13/16						
EPA TO-15										
(m- and/or p-)Xylene	5.0279		ppbv	4.2821		117	72-140	0.164	25	
1,1,2-Trichloroethane	2.8964		"	2.1815		133	71-142	1.02	25	
1,1-Dichloroethene (1,1-Dichloroethylene)	1.9751		"	2.0603		95.9	70-140	1.08	25	
1,2,4-Trimethylbenzene	2.7886		"	2.1613		129	66-136	2.28	25	
1,2-Dichloroethane	2.6644		"	2.0805		128	71-137	1.78	25	
Benzene	2.7058		"	2.1007		129	70-140	0.403	25	
Chloroform	2.8507		"	2.1613		132	70-141	1.41	25	
cis-1,2-Dichloroethene	2.1041		"	2.1613		97.4	70-136	4.71	25	
Ethyl Benzene	2.4164		"	2.1411		113	70-137	1.08	25	
Methylene Chloride	1.8871		"	2.0603		91.6	70-142	0.711	25	
o-Xylene	2.5600		"	2.1613		118	72-136	0.228	25	
Tetrachloroethene (Tetrachloroethylene)	2.6843		"	2.2219		121	68-148	3.34	25	
Toluene	2.7995		"	2.1411		131	72-138	0.696	25	
trans-1,2-Dichloroethene	2.1352		"	2.2017		97.0	73-136	0.506	25	
Trichloroethene (Trichloroethylene)	2.6313		"	2.1007		125	69-137	2.69	25	
Vinyl chloride	2.1506		"	2.1007		102	62-151	2.49	25	
Duplicate (1605046-DUP1)		**Source: E162001-08**		Prepared: 05/10/16 Analyzed: 05/13/16						
EPA TO-15										
(m- and/or p-)Xylene	U	4.6	ug/m3		U				20	U
1,1,2-Trichloroethane	U	2.9	"		U				20	U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	1.9	"		U				20	U
1,2,4-Trimethylbenzene	U	2.6	"		U				20	U
1,2-Dichloroethane	U	2.1	"		U				20	U
Benzene	0.34261	1.7	"		0.41368			18.8	20	Q-2, J
Chloroform	U	2.5	"		U				20	U
cis-1,2-Dichloroethene	0.35619	2.1	"		0.29145			20.0	20	Q-2, J
Ethyl Benzene	U	2.3	"		U				20	U
Methylene Chloride	U	1.7	"		U				20	U
o-Xylene	U	2.3	"		U				20	U
Tetrachloroethene (Tetrachloroethylene)	U	3.5	"		U				18.2	U
Toluene	0.68170	2.0	"		0.68048			0.178	20	Q-2, J
trans-1,2-Dichloroethene	U	2.2	"		U				20	U
Trichloroethene (Trichloroethylene)	U	2.8	"		U				20	U
Vinyl chloride	U	1.3	"		U				20	U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1605046 - V TO-15 Air Canister										
MRL Verification (1605046-PS1)				Prepared: 05/10/16 Analyzed: 05/13/16						
EPA TO-15										
(m- and/or p-)Xylene	0.45661		ppbv	0.42821		107	52-160			MRL-5
1,1,2-Trichloroethane	0.31545		"	0.21815		145	51-162			MRL-5
1,1-Dichloroethene (1,1-Dichloroethylene)	0.24017		"	0.20603		117	50-160			MRL-5
1,2,4-Trimethylbenzene	0.22673		"	0.21613		105	46-156			MRL-5
1,2-Dichloroethane	0.33810		"	0.20805		163	51-157			MRL-5, QR-2
Benzene	0.32216		"	0.21007		153	50-160			MRL-5
Chloroform	0.36253		"	0.21613		168	50-161			MRL-5, QR-2
cis-1,2-Dichloroethene	0.23600		"	0.21613		109	50-156			MRL-5
Ethyl Benzene	0.22134		"	0.21411		103	50-157			MRL-5
Methylene Chloride	0.25047		"	0.20603		122	50-162			MRL-5
o-Xylene	0.22535		"	0.21613		104	52-156			MRL-5
Tetrachloroethene (Tetrachloroethylene)	0.30155		"	0.22219		136	48-168			MRL-5
Toluene	0.29379		"	0.21411		137	52-158			MRL-5
trans-1,2-Dichloroethene	0.25393		"	0.22017		115	53-156			MRL-5
Trichloroethene (Trichloroethylene)	0.29290		"	0.21007		139	49-157			MRL-5
Vinyl chloride	0.26476		"	0.21007		126	42-171			MRL-5
Batch 1605059 - V TO-15 Air Canister										
Blank (1605059-BLK1)				Prepared: 05/11/16 Analyzed: 05/18/16						
EPA TO-15										
(m- and/or p-)Xylene	U	1.9	ug/m3							U
1,1,2-Trichloroethane	U	1.2	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.78	"							U
1,2,4-Trimethylbenzene	U	1.0	"							U
1,2-Dichloroethane	U	0.83	"							U
Benzene	U	0.67	"							U
Chloroform	U	1.0	"							U
cis-1,2-Dichloroethene	U	0.83	"							U
Ethyl Benzene	U	0.92	"							U
Methylene Chloride	U	0.70	"							U
o-Xylene	U	0.93	"							U
Tetrachloroethene (Tetrachloroethylene)	U	1.4	"							U
Toluene	U	0.80	"							U
trans-1,2-Dichloroethene	U	0.87	"							U
Trichloroethene (Trichloroethylene)	U	1.1	"							U
Vinyl chloride	U	0.53	"							U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1605059 - V TO-15 Air Canister										
LCS (1605059-BS1)				Prepared: 05/11/16 Analyzed: 05/18/16						
EPA TO-15										
(m- and/or p-)Xylene	4.7026		ppbv	4.2821		110	72-140			
1,1,2-Trichloroethane	2.8451		"	2.1815		130	71-142			
1,1-Dichloroethene (1,1-Dichloroethylene)	1.8060		"	2.0603		87.7	70-140			
1,2,4-Trimethylbenzene	2.6298		"	2.1613		122	66-136			
1,2-Dichloroethane	2.6159		"	2.0805		126	71-137			
Benzene	2.6330		"	2.1007		125	70-140			
Chloroform	2.8082		"	2.1613		130	70-141			
cis-1,2-Dichloroethene	1.9391		"	2.1613		89.7	70-136			
Ethyl Benzene	2.2551		"	2.1411		105	70-137			
Methylene Chloride	1.6868		"	2.0603		81.9	70-142			
o-Xylene	2.3801		"	2.1613		110	72-136			
Tetrachloroethene (Tetrachloroethylene)	2.6155		"	2.2219		118	68-148			
Toluene	2.6999		"	2.1411		126	72-138			
trans-1,2-Dichloroethene	1.9006		"	2.2017		86.3	73-136			
Trichloroethene (Trichloroethylene)	2.6128		"	2.1007		124	69-137			
Vinyl chloride	1.9479		"	2.1007		92.7	62-151			
LCS Dup (1605059-BSD1)				Prepared: 05/11/16 Analyzed: 05/18/16						
EPA TO-15										
(m- and/or p-)Xylene	4.7033		ppbv	4.2821		110	72-140	0.0138	25	
1,1,2-Trichloroethane	2.8948		"	2.1815		133	71-142	1.73	25	
1,1-Dichloroethene (1,1-Dichloroethylene)	1.9339		"	2.0603		93.9	70-140	6.84	25	
1,2,4-Trimethylbenzene	2.6438		"	2.1613		122	66-136	0.531	25	
1,2-Dichloroethane	2.6764		"	2.0805		129	71-137	2.29	25	
Benzene	2.6965		"	2.1007		128	70-140	2.39	25	
Chloroform	2.8399		"	2.1613		131	70-141	1.12	25	
cis-1,2-Dichloroethene	2.0617		"	2.1613		95.4	70-136	6.13	25	
Ethyl Benzene	2.2807		"	2.1411		107	70-137	1.13	25	
Methylene Chloride	1.8508		"	2.0603		89.8	70-142	9.27	25	
o-Xylene	2.3980		"	2.1613		111	72-136	0.752	25	
Tetrachloroethene (Tetrachloroethylene)	2.6368		"	2.2219		119	68-148	0.810	25	
Toluene	2.7868		"	2.1411		130	72-138	3.17	25	
trans-1,2-Dichloroethene	2.0461		"	2.2017		92.9	73-136	7.37	25	
Trichloroethene (Trichloroethylene)	2.6515		"	2.1007		126	69-137	1.47	25	
Vinyl chloride	2.1254		"	2.1007		101	62-151	8.71	25	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1605059 - V TO-15 Air Canister										
Duplicate (1605059-DUP1)	**Source: E162001-15**			Prepared: 05/11/16 Analyzed: 05/18/16						
EPA TO-15										
(m- and/or p-)Xylene	0.63827	4.6	ug/m3		0.69913			9.10	20	Q-2, J
1,1,2-Trichloroethane	U	2.9	"		U				20	U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	2.0	"		U				20	U
1,2,4-Trimethylbenzene	0.28873	2.6	"		0.29570			2.39	20	Q-2, J
1,2-Dichloroethane	3.9739	2.1	"		4.1332			3.93	20	
Benzene	0.90273	1.7	"		0.90472			0.220	20	Q-2, J
Chloroform	0.52307	2.5	"		0.48077			8.43	20	Q-2, QR-2, J
cis-1,2-Dichloroethene	U	2.1	"		U				20	U
Ethyl Benzene	0.24043	2.3	"		0.27330			12.8	20	Q-2, J
Methylene Chloride	U	1.7	"		U				20	U
o-Xylene	0.30497	2.3	"		0.26443			14.2	20	Q-2, J
Tetrachloroethene (Tetrachloroethylene)	U	3.5	"		U				18.2	U
Toluene	9.7364	2.0	"		9.5328			2.11	20	
trans-1,2-Dichloroethene	U	2.2	"		U				20	U
Trichloroethene (Trichloroethylene)	U	2.8	"		U				20	U
Vinyl chloride	U	1.3	"		U				20	U
MRL Verification (1605059-PS1)				Prepared: 05/11/16 Analyzed: 05/18/16						
EPA TO-15										
(m- and/or p-)Xylene	0.44251		ppbv	0.42821		103	52-160			MRL-5
1,1,2-Trichloroethane	0.35498		"	0.21815		163	51-162			MRL-5, QR-2
1,1-Dichloroethene (1,1-Dichloroethylene)	0.22929		"	0.20603		111	50-160			MRL-5
1,2,4-Trimethylbenzene	0.22719		"	0.21613		105	46-156			MRL-5
1,2-Dichloroethane	0.32559		"	0.20805		156	51-157			MRL-5
Benzene	0.32926		"	0.21007		157	50-160			MRL-5
Chloroform	0.35435		"	0.21613		164	50-161			MRL-5, QR-2
cis-1,2-Dichloroethene	0.23621		"	0.21613		109	50-156			MRL-5
Ethyl Benzene	0.21824		"	0.21411		102	50-157			MRL-5
Methylene Chloride	0.24385		"	0.20603		118	50-162			MRL-5
o-Xylene	0.21887		"	0.21613		101	52-156			MRL-5
Tetrachloroethene (Tetrachloroethylene)	0.31830		"	0.22219		143	48-168			MRL-5
Toluene	0.29214		"	0.21411		136	52-158			MRL-5
trans-1,2-Dichloroethene	0.23753		"	0.22017		108	53-156			MRL-5
Trichloroethene (Trichloroethylene)	0.29736		"	0.21007		142	49-157			MRL-5
Vinyl chloride	0.26130		"	0.21007		124	42-171			MRL-5

Volatile Organics (VOA) - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1605060 - V TO-15 Air Canister										
Blank (1605060-BLK1)				Prepared: 05/11/16 Analyzed: 05/24/16						
EPA TO-15										
(m- and/or p-)Xylene	U	1.9	ug/m3							U
1,1,2-Trichloroethane	U	1.2	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.78	"							U
1,2,4-Trimethylbenzene	U	1.0	"							U
1,2-Dichloroethane	U	0.83	"							U
Benzene	U	0.67	"							U
Chloroform	U	1.0	"							U
cis-1,2-Dichloroethene	U	0.83	"							U
Ethyl Benzene	U	0.92	"							U
Methylene Chloride	U	0.70	"							U
o-Xylene	U	0.93	"							U
Tetrachloroethene (Tetrachloroethylene)	U	1.4	"							U
Toluene	U	0.80	"							U
trans-1,2-Dichloroethene	U	0.87	"							U
Trichloroethene (Trichloroethylene)	U	1.1	"							U
Vinyl chloride	U	0.53	"							U
LCS (1605060-BS1)				Prepared: 05/11/16 Analyzed: 05/24/16						
EPA TO-15										
(m- and/or p-)Xylene	4.8703		ppbv	4.2821		114	72-140			
1,1,2-Trichloroethane	3.2777		"	2.1815		150	71-142			QL-2
1,1-Dichloroethene (1,1-Dichloroethylene)	2.1587		"	2.0603		105	70-140			
1,2,4-Trimethylbenzene	2.7146		"	2.1613		126	66-136			
1,2-Dichloroethane	3.0105		"	2.0805		145	71-137			QL-2
Benzene	2.9352		"	2.1007		140	70-140			
Chloroform	3.1743		"	2.1613		147	70-141			QL-2
cis-1,2-Dichloroethene	2.2411		"	2.1613		104	70-136			
Ethyl Benzene	2.3231		"	2.1411		109	70-137			
Methylene Chloride	1.9902		"	2.0603		96.6	70-142			
o-Xylene	2.4623		"	2.1613		114	72-136			
Tetrachloroethene (Tetrachloroethylene)	2.9266		"	2.2219		132	68-148			
Toluene	3.0501		"	2.1411		142	72-138			QL-2
trans-1,2-Dichloroethene	2.2512		"	2.2017		102	73-136			
Trichloroethene (Trichloroethylene)	2.8847		"	2.1007		137	69-137			
Vinyl chloride	2.3706		"	2.1007		113	62-151			

Volatile Organics (VOA) - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1605060 - V TO-15 Air Canister										
LCS Dup (1605060-BSD1)				Prepared: 05/11/16 Analyzed: 05/24/16						
EPA TO-15										
(m- and/or p-)Xylene	4.9559		ppbv	4.2821		116	72-140	1.74	25	
1,1,2-Trichloroethane	3.2119		"	2.1815		147	71-142	2.03	25	QL-2
1,1-Dichloroethene (1,1-Dichloroethylene)	2.1252		"	2.0603		103	70-140	1.56	25	
1,2,4-Trimethylbenzene	2.7547		"	2.1613		127	66-136	1.47	25	
1,2-Dichloroethane	2.9252		"	2.0805		141	71-137	2.87	25	QL-2
Benzene	2.9562		"	2.1007		141	70-140	0.712	25	QL-2
Chloroform	3.0836		"	2.1613		143	70-141	2.90	25	QL-2
cis-1,2-Dichloroethene	2.2710		"	2.1613		105	70-136	1.33	25	
Ethyl Benzene	2.3707		"	2.1411		111	70-137	2.03	25	
Methylene Chloride	1.9967		"	2.0603		96.9	70-142	0.330	25	
o-Xylene	2.5013		"	2.1613		116	72-136	1.57	25	
Tetrachloroethene (Tetrachloroethylene)	2.8912		"	2.2219		130	68-148	1.22	25	
Toluene	3.0184		"	2.1411		141	72-138	1.04	25	QL-2
trans-1,2-Dichloroethene	2.2829		"	2.2017		104	73-136	1.40	25	
Trichloroethene (Trichloroethylene)	2.8826		"	2.1007		137	69-137	0.0725	25	
Vinyl chloride	2.3807		"	2.1007		113	62-151	0.423	25	
Duplicate (1605060-DUP1)		**Source: E162001-30**		Prepared: 05/11/16 Analyzed: 05/25/16						
EPA TO-15										
(m- and/or p-)Xylene	1.1798	4.1	ug/m3		1.1079			6.29	20	Q-2, J
1,1,2-Trichloroethane	U	2.6	"		U				20	U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	1.7	"		U				20	U
1,2,4-Trimethylbenzene	0.87940	2.3	"		0.88372			0.490	20	Q-2, J
1,2-Dichloroethane	U	1.8	"		U				20	U
Benzene	0.70600	1.5	"		0.77400			9.19	20	Q-2, QL-2, QR-2, J
Chloroform	9.0208	2.2	"		8.7564			2.97	20	QL-2, QR-2
cis-1,2-Dichloroethene	U	1.8	"		U				20	U
Ethyl Benzene	0.63825	2.0	"		0.65265			2.23	20	Q-2, J
Methylene Chloride	U	1.5	"		U				20	U
o-Xylene	1.2341	2.0	"		1.2309			0.255	20	Q-2, J
Tetrachloroethene (Tetrachloroethylene)	1.6998	3.1	"		1.6846			0.898	18.2	Q-2, J
Toluene	3.5717	1.8	"		3.5433			0.798	20	QL-2
trans-1,2-Dichloroethene	U	1.9	"		U				20	U
Trichloroethene (Trichloroethylene)	0.89056	2.5	"		0.92621			3.92	20	Q-2, QR-2, J
Vinyl chloride	U	1.2	"		U				20	U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1605060 - V TO-15 Air Canister										
MRL Verification (1605060-PS1)				Prepared: 05/11/16 Analyzed: 05/24/16						
EPA TO-15										
(m- and/or p-)Xylene	0.45137		ppbv	0.42821		105	52-160			MRL-5
1,1,2-Trichloroethane	0.36364		"	0.21815		167	51-162			MRL-5, QR-2
1,1-Dichloroethene (1,1-Dichloroethylene)	0.26798		"	0.20603		130	50-160			MRL-5
1,2,4-Trimethylbenzene	0.23502		"	0.21613		109	46-156			MRL-5
1,2-Dichloroethane	0.37408		"	0.20805		180	51-157			MRL-5, QR-2
Benzene	0.37900		"	0.21007		180	50-160			MRL-5, QR-2
Chloroform	0.39737		"	0.21613		184	50-161			MRL-5, QR-2
cis-1,2-Dichloroethene	0.26540		"	0.21613		123	50-156			MRL-5
Ethyl Benzene	0.22577		"	0.21411		105	50-157			MRL-5
Methylene Chloride	0.27694		"	0.20603		134	50-162			MRL-5
o-Xylene	0.21668		"	0.21613		100	52-156			MRL-5
Tetrachloroethene (Tetrachloroethylene)	0.34820		"	0.22219		157	48-168			MRL-5
Toluene	0.31358		"	0.21411		146	52-158			MRL-5
trans-1,2-Dichloroethene	0.28855		"	0.22017		131	53-156			MRL-5
Trichloroethene (Trichloroethylene)	0.34425		"	0.21007		164	49-157			MRL-5, QR-2
Vinyl chloride	0.32233		"	0.21007		153	42-171			MRL-5
Batch 1605090 - V TO-15 Air Canister										
Blank (1605090-BLK1)				Prepared & Analyzed: 05/19/16						
EPA TO-15										
(m- and/or p-)Xylene	U	1.9	ug/m3							U
1,1,2-Trichloroethane	U	1.2	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.78	"							U
1,2,4-Trimethylbenzene	U	1.0	"							U
1,2-Dichloroethane	U	0.83	"							U
Benzene	U	0.67	"							U
Chloroform	U	1.0	"							U
cis-1,2-Dichloroethene	U	0.83	"							U
Ethyl Benzene	U	0.92	"							U
Methylene Chloride	U	0.70	"							U
o-Xylene	U	0.93	"							U
Tetrachloroethene (Tetrachloroethylene)	U	1.4	"							U
Toluene	U	0.80	"							U
trans-1,2-Dichloroethene	U	0.87	"							U
Trichloroethene (Trichloroethylene)	U	1.1	"							U

Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1605090 - V TO-15 Air Canister										
Blank (1605090-BLK1)				Prepared & Analyzed: 05/19/16						
Vinyl chloride	U	0.53	ug/m3							U
LCS (1605090-BS1)				Prepared & Analyzed: 05/19/16						
EPA TO-15										
(m- and/or p-)Xylene	4.6675		ppbv	4.2821		109	72-140			
1,1,2-Trichloroethane	2.9302		"	2.1815		134	71-142			
1,1-Dichloroethene (1,1-Dichloroethylene)	1.8993		"	2.0603		92.2	70-140			
1,2,4-Trimethylbenzene	2.6310		"	2.1613		122	66-136			
1,2-Dichloroethane	2.6252		"	2.0805		126	71-137			
Benzene	2.7034		"	2.1007		129	70-140			
Chloroform	2.8248		"	2.1613		131	70-141			
cis-1,2-Dichloroethene	2.0631		"	2.1613		95.5	70-136			
Ethyl Benzene	2.2512		"	2.1411		105	70-137			
Methylene Chloride	1.7760		"	2.0603		86.2	70-142			
o-Xylene	2.3718		"	2.1613		110	72-136			
Tetrachloroethene (Tetrachloroethylene)	2.7003		"	2.2219		122	68-148			
Toluene	2.7807		"	2.1411		130	72-138			
trans-1,2-Dichloroethene	2.0193		"	2.2017		91.7	73-136			
Trichloroethene (Trichloroethylene)	2.7014		"	2.1007		129	69-137			
Vinyl chloride	2.0744		"	2.1007		98.7	62-151			
LCS Dup (1605090-BSD1)				Prepared & Analyzed: 05/19/16						
EPA TO-15										
(m- and/or p-)Xylene	4.6902		ppbv	4.2821		110	72-140	0.487	25	
1,1,2-Trichloroethane	3.0871		"	2.1815		142	71-142	5.21	25	
1,1-Dichloroethene (1,1-Dichloroethylene)	2.0686		"	2.0603		100	70-140	8.54	25	
1,2,4-Trimethylbenzene	2.6237		"	2.1613		121	66-136	0.280	25	
1,2-Dichloroethane	2.7491		"	2.0805		132	71-137	4.61	25	
Benzene	2.8431		"	2.1007		135	70-140	5.04	25	
Chloroform	2.9312		"	2.1613		136	70-141	3.70	25	
cis-1,2-Dichloroethene	2.2388		"	2.1613		104	70-136	8.17	25	
Ethyl Benzene	2.2587		"	2.1411		105	70-137	0.332	25	
Methylene Chloride	1.9819		"	2.0603		96.2	70-142	11.0	25	
o-Xylene	2.3913		"	2.1613		111	72-136	0.820	25	
Tetrachloroethene (Tetrachloroethylene)	2.8570		"	2.2219		129	68-148	5.64	25	
Toluene	2.9375		"	2.1411		137	72-138	5.48	25	
trans-1,2-Dichloroethene	2.1953		"	2.2017		99.7	73-136	8.35	25	
Trichloroethene (Trichloroethylene)	2.8737		"	2.1007		137	69-137	6.18	25	
Vinyl chloride	2.2397		"	2.1007		107	62-151	7.66	25	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 16-0152
Project: 16-0323, Grenada Manufacturing - Reported by Sallie Hale

Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1605090 - V TO-15 Air Canister										
LCS Dup (1605090-BSD1)				Prepared & Analyzed: 05/19/16						
Duplicate (1605090-DUP1)				**Source: E162001-41**	Prepared: 05/19/16 Analyzed: 05/20/16					
EPA TO-15										
(m- and/or p-)Xylene	21.989	4.6	ug/m3		22.398			1.84	20	
1,1,2-Trichloroethane	U	2.9	"		U				20	U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	2.0	"		U				20	U
1,2,4-Trimethylbenzene	9.0176	2.6	"		9.2267			2.29	20	
1,2-Dichloroethane	3.7210	2.1	"		3.7265			0.147	20	
Benzene	4.0207	1.7	"		4.0129			0.193	20	
Chloroform	1.2622	2.5	"		1.2892			2.11	20	Q-2, J
cis-1,2-Dichloroethene	0.22039	2.1	"		U				20	Q-2, J
Ethyl Benzene	6.8360	2.3	"		6.8401			0.0603	20	
Methylene Chloride	U	1.8	"		U				20	U
o-Xylene	8.4724	2.3	"		8.5596			1.02	20	
Tetrachloroethene (Tetrachloroethylene)	U	3.6	"		U				18.2	U
Toluene	53.401	2.0	"		53.346			0.104	20	
trans-1,2-Dichloroethene	U	2.2	"		U				20	U
Trichloroethene (Trichloroethylene)	U	2.8	"		U				20	U
Vinyl chloride	U	1.3	"		U				20	U
MRL Verification (1605090-PS1)				Prepared & Analyzed: 05/19/16						
EPA TO-15										
(m- and/or p-)Xylene	0.45131		ppbv	0.42821		105	52-160			MRL-5
1,1,2-Trichloroethane	0.34594		"	0.21815		159	51-162			MRL-5
1,1-Dichloroethene (1,1-Dichloroethylene)	0.23293		"	0.20603		113	50-160			MRL-5
1,2,4-Trimethylbenzene	0.23087		"	0.21613		107	46-156			MRL-5
1,2-Dichloroethane	0.31735		"	0.20805		153	51-157			MRL-5
Benzene	0.33163		"	0.21007		158	50-160			MRL-5
Chloroform	0.34622		"	0.21613		160	50-161			MRL-5
cis-1,2-Dichloroethene	0.24625		"	0.21613		114	50-156			MRL-5
Ethyl Benzene	0.22523		"	0.21411		105	50-157			MRL-5
Methylene Chloride	0.22913		"	0.20603		111	50-162			MRL-5
o-Xylene	0.22036		"	0.21613		102	52-156			MRL-5
Tetrachloroethene (Tetrachloroethylene)	0.31919		"	0.22219		144	48-168			MRL-5
Toluene	0.29675		"	0.21411		139	52-158			MRL-5
trans-1,2-Dichloroethene	0.24722		"	0.22017		112	53-156			MRL-5
Trichloroethene (Trichloroethylene)	0.31478		"	0.21007		150	49-157			MRL-5
Vinyl chloride	0.27114		"	0.21007		129	42-171			MRL-5

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1605105 - V TO-15 Air Canister										
Blank (1605105-BLK1)				Prepared: 05/24/16 Analyzed: 05/25/16						
EPA TO-15										
(m- and/or p-)Xylene	U	1.9	ug/m3							U
1,1,2-Trichloroethane	U	1.2	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.78	"							U
1,2,4-Trimethylbenzene	U	1.0	"							U
1,2-Dichloroethane	U	0.83	"							U
Benzene	U	0.67	"							U
Chloroform	U	1.0	"							U
cis-1,2-Dichloroethene	U	0.83	"							U
Ethyl Benzene	U	0.92	"							U
Methylene Chloride	U	0.70	"							U
o-Xylene	U	0.93	"							U
Tetrachloroethene (Tetrachloroethylene)	U	1.4	"							U
Toluene	U	0.80	"							U
trans-1,2-Dichloroethene	U	0.87	"							U
Trichloroethene (Trichloroethylene)	U	1.1	"							U
Vinyl chloride	U	0.53	"							U
LCS (1605105-BS1)				Prepared: 05/24/16 Analyzed: 05/25/16						
EPA TO-15										
(m- and/or p-)Xylene	4.7713		ppbv	4.2821		111	72-140			
1,1,2-Trichloroethane	3.1080		"	2.1815		142	71-142			
1,1-Dichloroethene (1,1-Dichloroethylene)	2.0798		"	2.0603		101	70-140			
1,2,4-Trimethylbenzene	2.6567		"	2.1613		123	66-136			
1,2-Dichloroethane	2.7630		"	2.0805		133	71-137			
Benzene	2.8823		"	2.1007		137	70-140			
Chloroform	3.0294		"	2.1613		140	70-141			
cis-1,2-Dichloroethene	2.2325		"	2.1613		103	70-136			
Ethyl Benzene	2.2947		"	2.1411		107	70-137			
Methylene Chloride	1.9926		"	2.0603		96.7	70-142			
o-Xylene	2.4256		"	2.1613		112	72-136			
Tetrachloroethene (Tetrachloroethylene)	2.8292		"	2.2219		127	68-148			
Toluene	2.9590		"	2.1411		138	72-138			
trans-1,2-Dichloroethene	2.2220		"	2.2017		101	73-136			
Trichloroethene (Trichloroethylene)	2.8395		"	2.1007		135	69-137			
Vinyl chloride	2.2880		"	2.1007		109	62-151			

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1605105 - V TO-15 Air Canister										
LCS Dup (1605105-BSD1)				Prepared: 05/24/16 Analyzed: 05/25/16						
EPA TO-15										
(m- and/or p-)Xylene	4.8402		ppbv	4.2821		113	72-140	1.43	25	
1,1,2-Trichloroethane	3.0809		"	2.1815		141	71-142	0.878	25	
1,1-Dichloroethene (1,1-Dichloroethylene)	2.0520		"	2.0603		99.6	70-140	1.34	25	
1,2,4-Trimethylbenzene	2.6927		"	2.1613		125	66-136	1.35	25	
1,2-Dichloroethane	2.7813		"	2.0805		134	71-137	0.658	25	
Benzene	2.8760		"	2.1007		137	70-140	0.220	25	
Chloroform	2.9406		"	2.1613		136	70-141	2.97	25	
cis-1,2-Dichloroethene	2.2150		"	2.1613		102	70-136	0.787	25	
Ethyl Benzene	2.3254		"	2.1411		109	70-137	1.33	25	
Methylene Chloride	1.9718		"	2.0603		95.7	70-142	1.05	25	
o-Xylene	2.4615		"	2.1613		114	72-136	1.47	25	
Tetrachloroethene (Tetrachloroethylene)	2.7835		"	2.2219		125	68-148	1.63	25	
Toluene	2.9205		"	2.1411		136	72-138	1.31	25	
trans-1,2-Dichloroethene	2.1747		"	2.2017		98.8	73-136	2.15	25	
Trichloroethene (Trichloroethylene)	2.8005		"	2.1007		133	69-137	1.38	25	
Vinyl chloride	2.2438		"	2.1007		107	62-151	1.95	25	
Duplicate (1605105-DUP1)		**Source: E162001-47**		Prepared: 05/24/16 Analyzed: 05/26/16						
EPA TO-15										
(m- and/or p-)Xylene	U	4.0	ug/m3		U				20	U
1,1,2-Trichloroethane	U	2.5	"		U				20	U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	1.7	"		U				20	U
1,2,4-Trimethylbenzene	3.6794	2.2	"		3.5628			3.22	20	
1,2-Dichloroethane	U	1.8	"		U				20	U
Benzene	0.46439	1.4	"		0.50507			8.39	20	Q-2, QR-2, J
Chloroform	12.554	2.2	"		12.404			1.20	20	
cis-1,2-Dichloroethene	U	1.8	"		U				20	U
Ethyl Benzene	U	2.0	"		U				20	U
Methylene Chloride	U	1.5	"		U				20	U
o-Xylene	0.30241	2.0	"		0.29778			1.54	20	Q-2, J
Tetrachloroethene (Tetrachloroethylene)	0.33433	3.0	"		0.35415			5.76	18.2	Q-2, J
Toluene	13.748	1.7	"		13.829			0.589	20	
trans-1,2-Dichloroethene	U	1.9	"		U				20	U
Trichloroethene (Trichloroethylene)	U	2.4	"		U				20	U
Vinyl chloride	U	1.1	"		U				20	U

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1605105 - V TO-15 Air Canister										
MRL Verification (1605105-PS1)				Prepared: 05/24/16 Analyzed: 05/25/16						
EPA TO-15										
(m- and/or p-)Xylene	0.45782		ppbv	0.42821		107	52-160			MRL-5
1,1,2-Trichloroethane	0.37403		"	0.21815		171	51-162			MRL-5, QR-2
1,1-Dichloroethene (1,1-Dichloroethylene)	0.26238		"	0.20603		127	50-160			MRL-5
1,2,4-Trimethylbenzene	0.23688		"	0.21613		110	46-156			MRL-5
1,2-Dichloroethane	0.34773		"	0.20805		167	51-157			MRL-5, QR-2
Benzene	0.35666		"	0.21007		170	50-160			MRL-5, QR-2
Chloroform	0.40376		"	0.21613		187	50-161			MRL-5, QR-2
cis-1,2-Dichloroethene	0.26706		"	0.21613		124	50-156			MRL-5
Ethyl Benzene	0.23156		"	0.21411		108	50-157			MRL-5
Methylene Chloride	0.28238		"	0.20603		137	50-162			MRL-5
o-Xylene	0.23116		"	0.21613		107	52-156			MRL-5
Tetrachloroethene (Tetrachloroethylene)	0.33171		"	0.22219		149	48-168			MRL-5
Toluene	0.33292		"	0.21411		155	52-158			MRL-5
trans-1,2-Dichloroethene	0.27372		"	0.22017		124	53-156			MRL-5
Trichloroethene (Trichloroethylene)	0.34851		"	0.21007		166	49-157			MRL-5, QR-2
Vinyl chloride	0.30962		"	0.21007		147	42-171			MRL-5

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
B-3	Level in blank does not impact data quality
J	The identification of the analyte is acceptable; the reported value is an estimate.
MRL-5	MRL verification for Air matrix
Q-2	Result greater than MDL but less than MRL.
QL-2	Laboratory Control Spike Recovery greater than method control limits
QR-2	MRL verification recovery greater than upper control limits.

United States Environmental Protection Agency
Region 4
Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720

PROJECT NAME: Grenada Manufacturing Air Study
PROJECT LOCATION: Grenada, Grenada County, MS
PROJECT ID NUMBER: 16-0323
PROJECT LEADER: Tim Slagle

4/29/2016

Vapor Intrusion Sampling **~~Groundwater~~ Logbook**

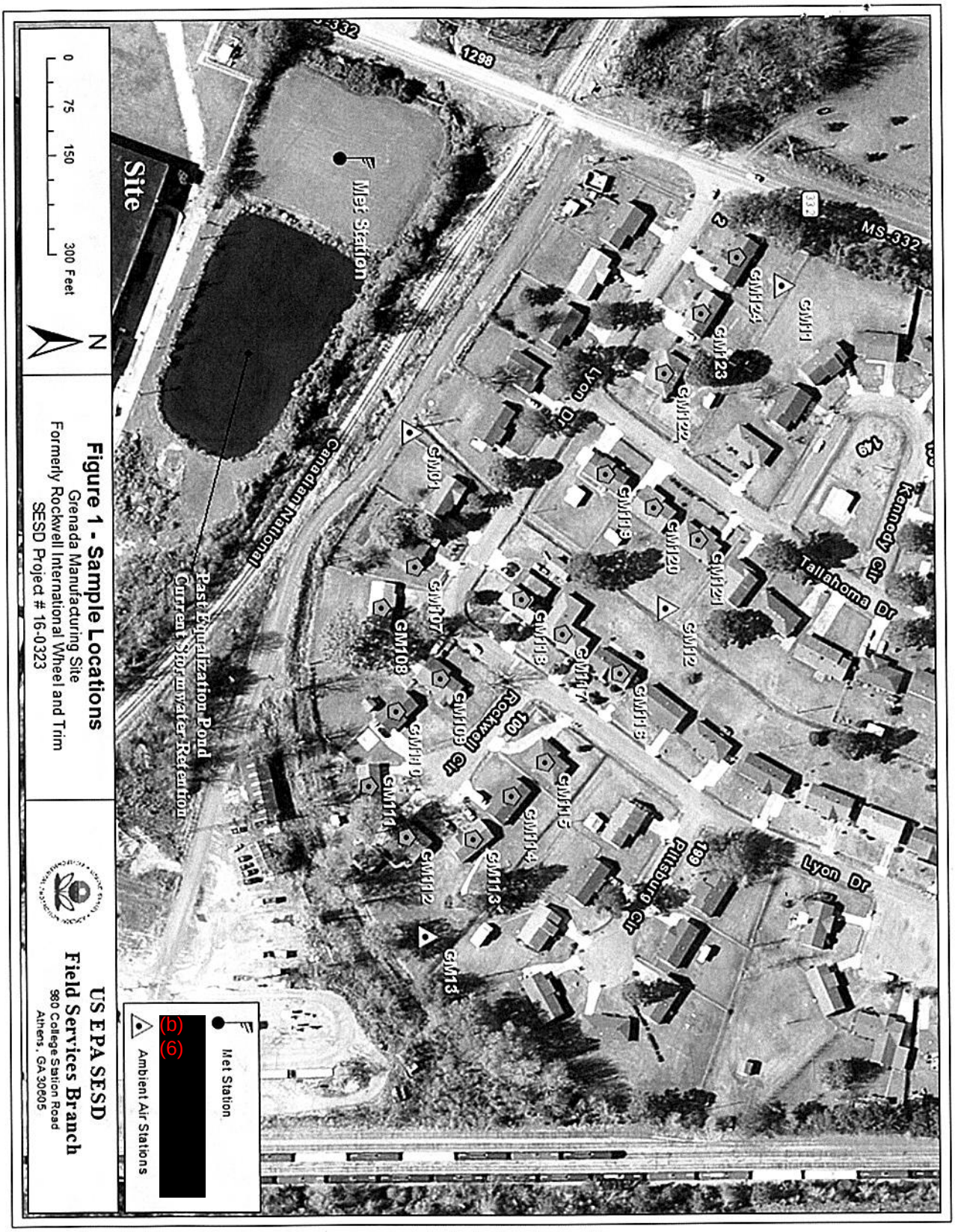
Book 1 **of** 1

Inclusive Dates: _____

List of personnel in logbook:

Name	Initials	Duties
Tim Slagle		Sampler, Team Leader
		Sampler, sample custody, SCRIBE

Team Leader (Initials) _____ Date 5/5/16



Team Leader (Initials) _____ Date 5/5/16

TABLE 1 Sample Station Information					
Station ID	**Sample ID**	**Location/Address**	**Latitude***	**Longitude***	**Matrix**
GM01	GM01AA0516	South ambient air location	33.80506895	-89.80015824	Ambient Air
GM11	GM11AA0516	West ambient air location	33.80636768	-89.80076134	
GM12	GM12AA0516	North ambient air location	33.80595308	-89.79941396	
GM13	GM13AA0516	East ambient air location	33.80511017	-89.79804096	
GM107	GM107SS0516	(b) (6)	33.80507488	-89.79958934	Sub-Slab Soil Gas
	GM107IA0516				Indoor Air
GM108	GM108SS0516	(b) (6)	33.80495638	-89.79941821	Sub-Slab Soil Gas
	GM108IA0516				Indoor Air
GM109	GM109SS0516	(b) (6)	33.80515783	-89.79911873	Sub-Slab Soil Gas
	GM109IA0516				Indoor Air
GM110	GM110SS0516	(b) (6)	33.80500378	-89.79898326	Sub-Slab Soil Gas
	GM110IA0516				Indoor Air
GM111	GM111SS0516	(b) (6)	33.80490898	-89.79866952	Sub-Slab Soil Gas
	GM111IA0516				Indoor Air
GM112	GM112SS0516	(b) (6)	33.80503933	-89.79845561	Sub-Slab Soil Gas
	GM112IA0516				Indoor Air
GM113	GM113SS0516	(b) (6)	33.8052704	-89.79844848	Sub-Slab Soil Gas
	GM113IA0516				Indoor Air
GM114	GM114SS0516	(b) (6)	33.80540075	-89.79862674	Sub-Slab Soil Gas
	GM114IA0516				Indoor Air
GM115	GM115SS0516	(b) (6)	33.80551924	-89.79876935	Sub-Slab Soil Gas
	GM115IA0516				Indoor Air
GM116	GM116SS0516	(b) (6)	33.80578586	-89.79914013	Sub-Slab Soil Gas
	GM116IA0516				Indoor Air
GM117	GM117SS0516	(b) (6)	33.80558442	-89.79930412	Sub-Slab Soil Gas
	GM117IA0516				Indoor Air
GM118	GM118SS0516	(b) (6)	33.80544222	-89.79945386	Sub-Slab Soil Gas
	GM118IA0516				Indoor Air
GM119	GM119SS0516	(b) (6)	33.80573846	-89.79997438	Sub-Slab Soil Gas
	GM119IA0516				Indoor Air
GM120	GM1020SS0516	(b) (6)	33.80590436	-89.79983177	Sub-Slab Soil Gas
	GM120IA0516				Indoor Air
GM121	GM121SS0516	(b) (6)	33.8060584	-89.7996963	Sub-Slab Soil Gas
	GM121IA0516				Indoor Air
GM122	GM122SS0516	(b) (6)	33.80594583	-89.80039507	Sub-Slab Soil Gas
	GM122IA0516				Indoor Air
GM123	GM123SS0516	(b) (6)	33.80607618	-89.80064464	Sub-Slab Soil Gas

Team Leader (Initials) _____ Date 5/5/16

	GM123IA0516				Indoor Air
GM124	GM124SS0516	(b) (6)	33.8062006	-89.80087994	Sub-Slab Soil Gas
	GM124IA0516				Indoor Air
xxxxx	xxxxxAAD0516	duplicate sample locations to be determined in the field	-	-	Ambient Air
xxxxx	xxxxxIAD0516		-	-	Indoor Air
xxxxx	xxxxxIAD0516		-	-	Indoor Air
xxxxx	xxxxxSSD0516		-	-	Sub-Slab Soil Gas
xxxxx	xxxxxSSD0516		-	-	Sub-Slab Soil Gas
#R4DART#	GMTBA0516	-	-	-	Trip Blank Air

* Latitudes and Longitudes for indoor air and sub-slab soil gas samples are recorded for the center of the house, the samples may not be taken directly at that spot.

General Sampling Methods:

Ambient Air samples will be collected using 6L Summa Canisters with a 24 hour flow controller following EPA Method TO-15 for Volatile Organics collection.

Sub-Slab Soil Gas samples will be collected by connecting a 6L Summa Canister to a critical orifice soil gas controller which will be connected via Teflon tubing to a permanent sampling port installed by EPA. The sampling techniques will following SESD Soil Gas Sampling SOP SESDPROC-307-R3.

#1

VOC Air Trip Blank
Station ID: #R4DART#
Sample ID: GMTBA0516
Sample Time: 0800
Sample Date: 5/2/16
Collected by: Slagle
can #4671

Notes:

Meteorological Station Set-up
Model Used: RM Young
Start Date and Time: 5/2/16 @ 1350
End Date and Time: 5/6/16 @ 0800
Location: see figure 1 pg 2
Data Saved Location:

Notes:

Trip Blank #2
~~#R4DART#~~
GMTBA0516
0800
5/4/16 can #2786
Slagle

Trip Blank #3
#R4DART
GMTBC0516
0800
5/5/16 can #4393
Slagle

Team Leader (Initials) [signature] Date 5/5/16

Station I.D. GM114 Sample I.D. GM114 SS 0516 Date. 5/2/16
<Station ID><media code><Date >

GPS Location see table 1, pg 3

Street Address (b) (6) [redacted]

Site Description Just inside doorway of ~~NE~~ NW most bedroom
~~NE~~ S/2

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth slab ≅ 4" Orifice or Flow Controller # SGC 2

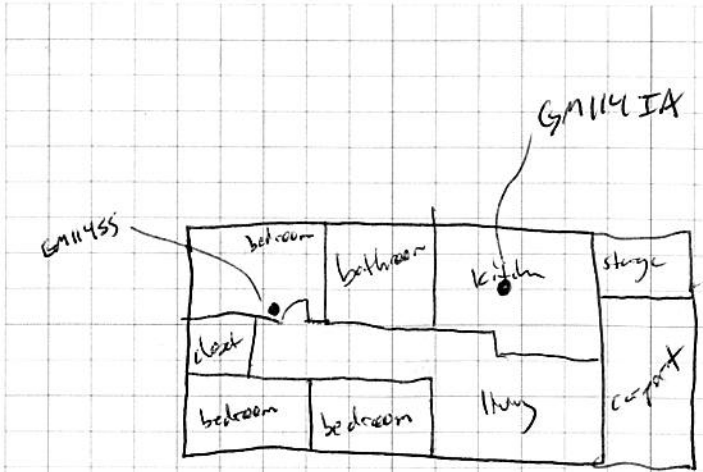
Canister # 3939

Name of Person Collecting Sample T. Slagle

				Can Pressure Gauge	
Start Date	5/3/16	Start Time	1013	Initial	28 "Hg
Stop Date	5/3/16	Stop Time	1045	Final	0-1 "Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



* port installed by TAGA crew @ 0840 on 5/2

He leak test cylinder = 2200 psi

shroud: 90+ %

test: 0 %

photo: 4271

Team Leader (Initials) [signature] Date 5/5/16

Station I.D. GM115 Sample I.D. GM115SS0516 Date. 5/2/16
<Station ID><media code><Date>

GPS Location see table 1 pg 3

Street Address (b) (6)

Site Description in hallway NW corner of hallway 5/2

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth slab ≅ 4" Orifice or Flow Controller # SGC3

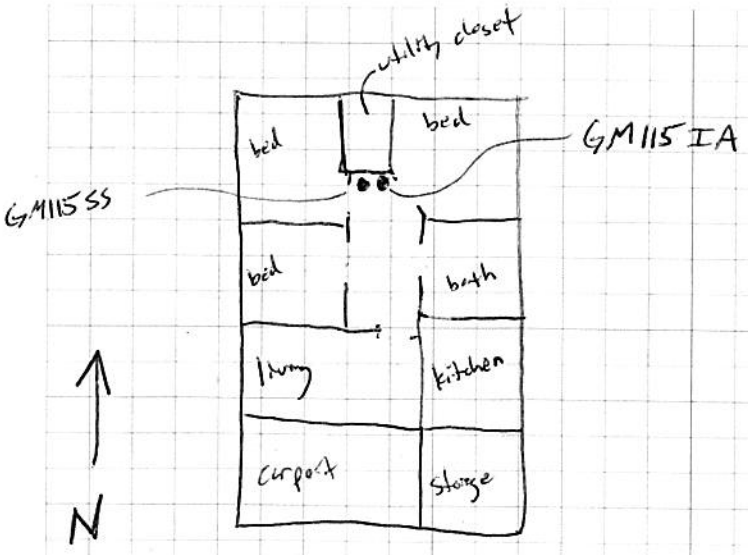
Canister # 6681

Name of Person Collecting Sample T. Slagle

				Can Pressure Gauge	
Start Date	5/3/16	Start Time	1108	Initial	30" Hg
Stop Date	5/3/16	Stop Time	1138	Final	1" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



- port installed @ 0920 on 5/2/16

He leak test

shroud: 90+ %

test: 0 %

photo 4274

Team Leader (Initials) Date 5/5/16

Station I.D. GM110 Sample I.D. GM110 SS 0516 Date. 5/2/16
<Station ID><media code><Date >

GPS Location see table 1 pg 3

Street Address (b) (6) [redacted]

Site Description just inside doorway of NE bedroom

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth slab ≅ 4" Orifice or Flow Controller # SGC 1

Canister # 20655

Name of Person Collecting Sample T. Slagle

Can Pressure Gauge

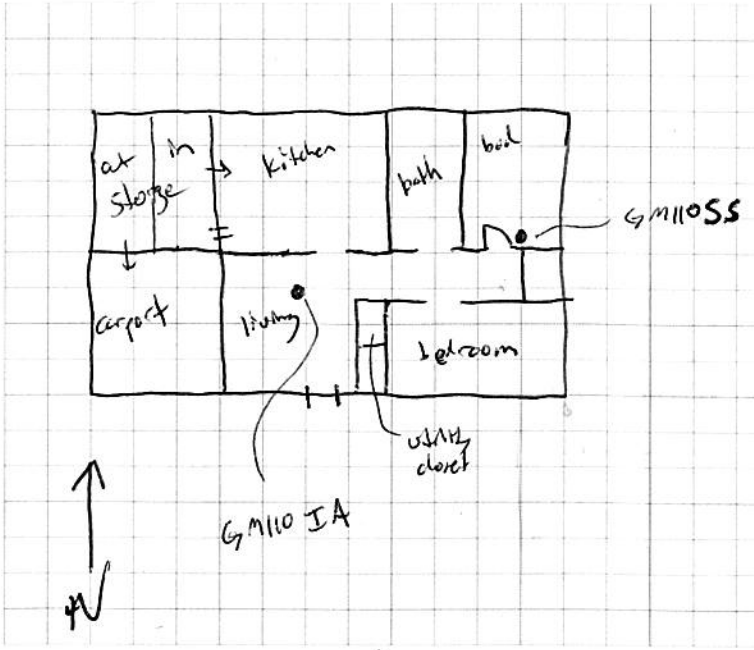
Start Date 5/3/16 Start Time 0850 Initial 30" Hg

Stop Date 5/3/16 Stop Time 0928 Final 1" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

* possible parking scrape on outside during IA



- post installed @ 0945 on 5/2

He leak test (2200 He test pressure)

shroud - 90+%

test - ~0%

photo 14261

Team Leader (Initials) Date 5/5/16

Station I.D. GM111 Sample I.D. GM111 SS 0516 Date. 5/2/16
<Station ID><media code><Date >

GPS Location see table 1 on pg 3

Street Address (b) (6) [redacted]

Site Description just inside closet at end of hall, NE corner of house

Type of sample: Ambient Air Sample Indoor Air Sample (Soil Gas Sample)

Sampling Depth slab ≅ 4" Orifice or Flow Controller # SGC 12

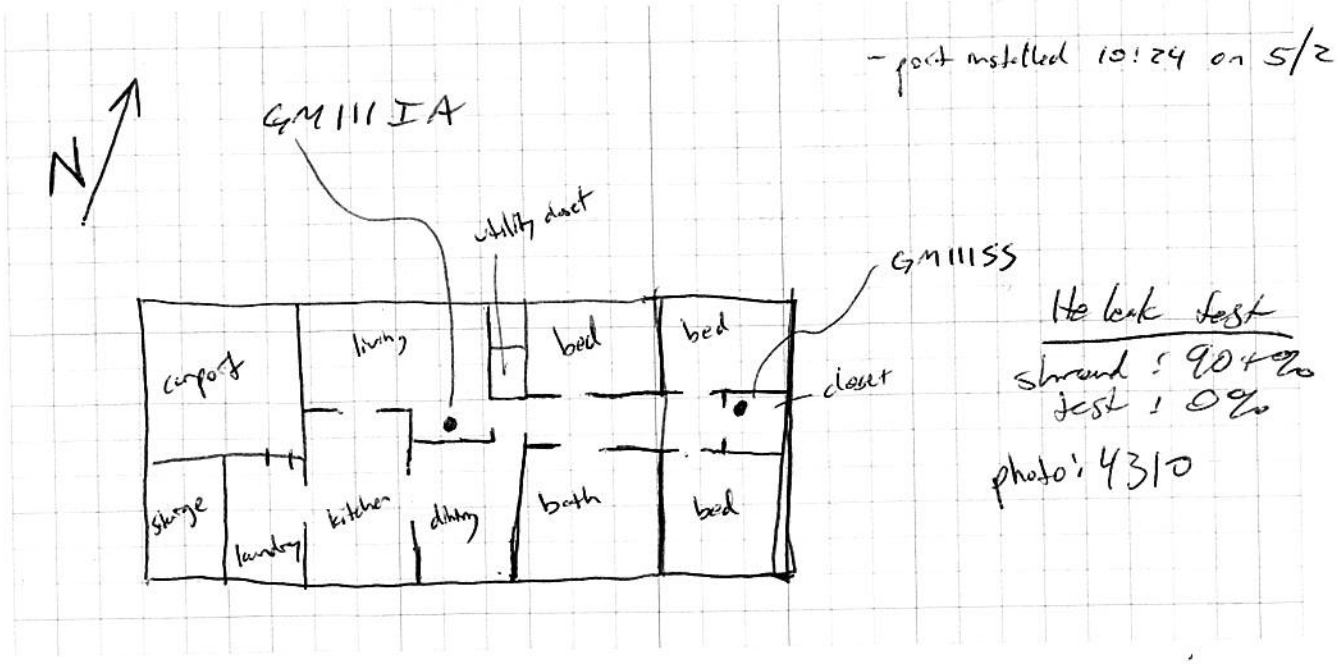
Canister # 20644

Name of Person Collecting Sample T. Slagle

		Can Pressure Gauge	
Start Date 5/4/16	Start Time 0935	Initial 30" Hg	
Stop Date 5/4/16	Stop Time 1014	Final 1" Hg	

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



Team Leader (Initials) Date 5/5/16

Station I.D. GM107 Sample I.D. GM107 SS 0516 Date. 5/2/16
<Station ID><media code><Date >

GPS Location (b) (6) see table 1, pg 3

Street Address (b) (6)

Site Description just inside closet on S end of house

Type of sample: Ambient Air Sample Indoor Air Sample (Soil Gas Sample)

Sampling Depth slab ≅ 4" Orifice or Flow Controller # SGC 9

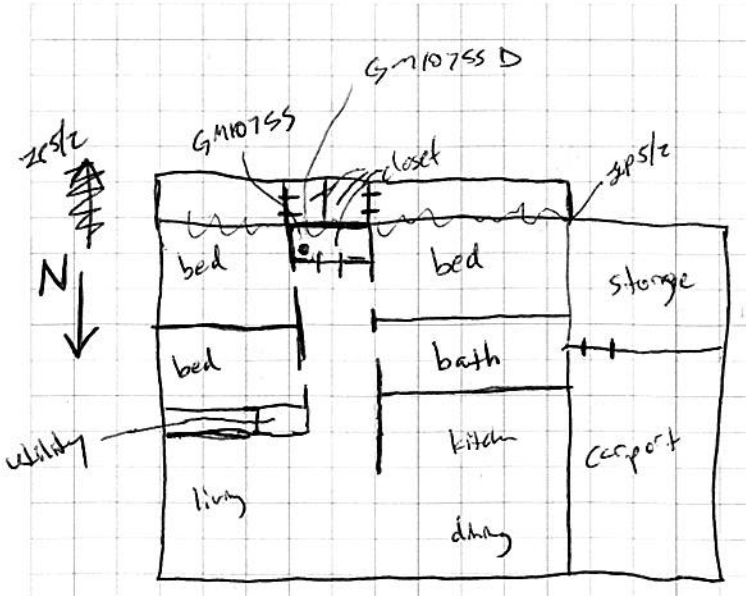
Canister # 14673

Name of Person Collecting Sample T. Slagle

		Can Pressure Gauge	
Start Date 5/3/16	Start Time 1205	Initial 30" Hg	
Stop Date ~~5/3/16~~ 5/5/16	Stop Time 1240	Final 1" Hg	

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



- port installed @ 1105 on 5/2
photo: 4275
He leak test
shroud: 90+ %
test: 0 %

Team Leader (Initials) Date 5/5/16

Station I.D. GM122 Sample I.D. GM122SS0516 Date. 5/2/16
<Station ID><media code><Date>

GPS Location see table 1, pg 3

Street Address (b) (6) [redacted]

Site Description just inside closet of NW most bed room

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth slab ≈ 4" Orifice or Flow Controller # SGC 15

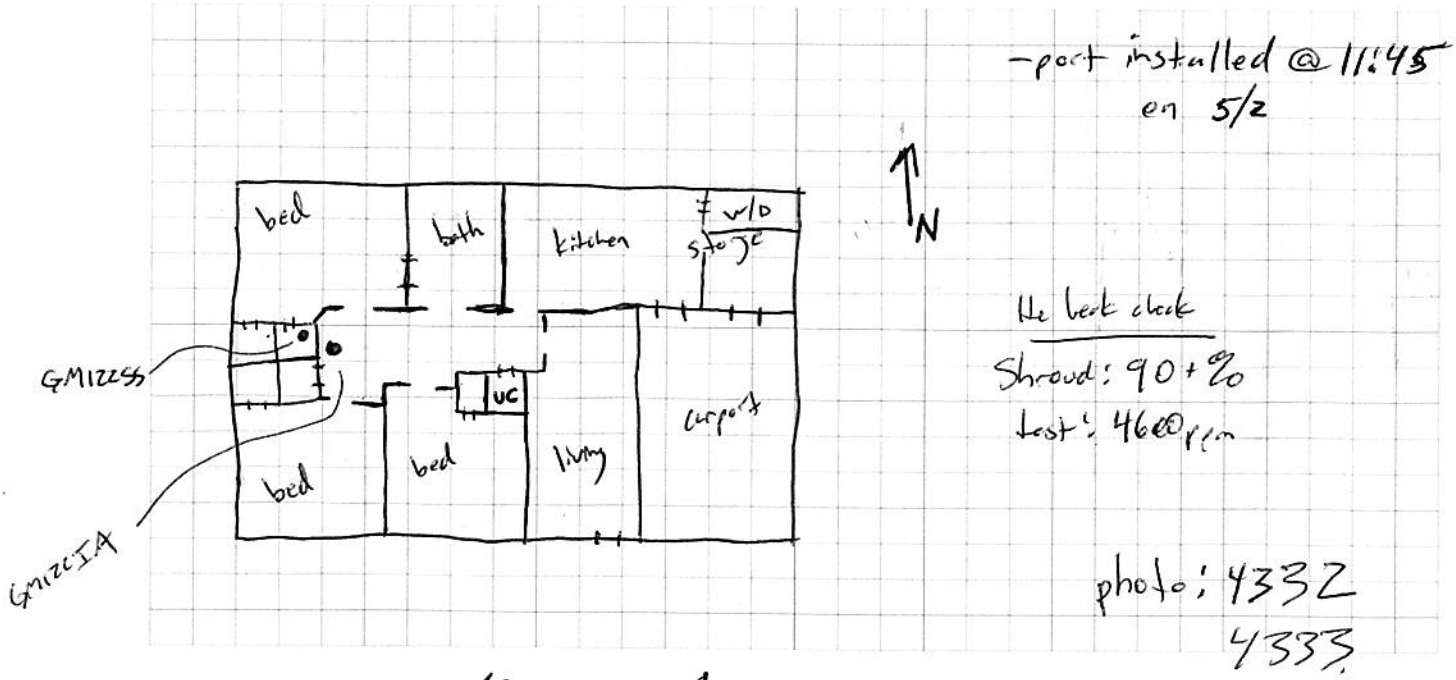
Canister # 3930

Name of Person Collecting Sample T. Slagle

		Can Pressure Gauge	
Start Date 5/4/16	Start Time 1154	Initial 30" Hg	
Stop Date 5/4/16	Stop Time ~~13~~ 1254 ~~1513~~	Final 1" Hg	

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



Team Leader (Initials) Date 5/5/16

Station I.D. GM109 Sample I.D. GM109 SS 0516 Date. 5/2/16
<Station ID><media code><Date>

GPS Location see table 1 on p 3

Street Address (b) (6) [redacted]

Site Description just inside doorway of NW bedroom

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth slab ≈ 4" Orifice or Flow Controller # SGC 4

Canister # 20648

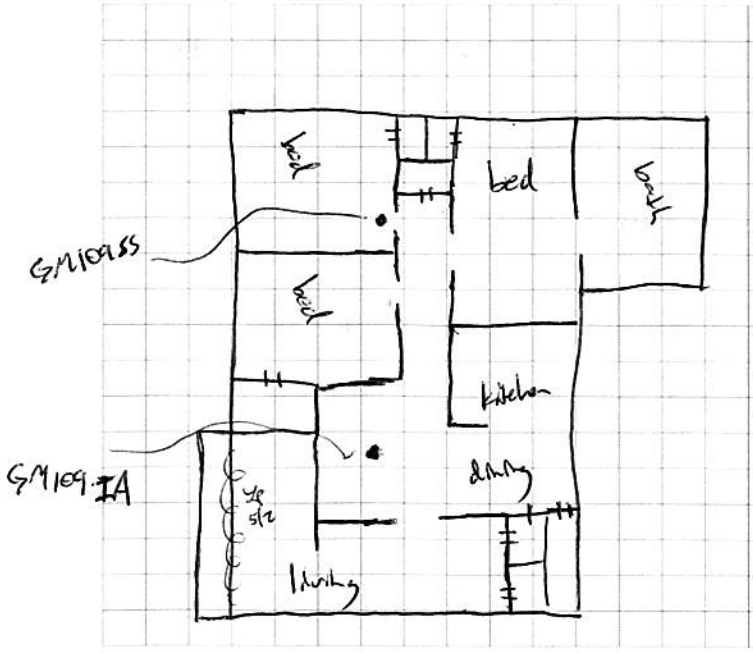
Name of Person Collecting Sample T. Slagle

				Can Pressure Gauge	
Start Date	5/3/16	Start Time	1433	Initial	30" Hg
Stop Date	5/3/16	Stop Time	1532	Final	2.5" Hg

gauge read 2.5" @ 1515

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



- port installed @ 1420 on 5/2
- two points side by side
  * TAGA team's is southern most
  * Atlas team's is northern most

He leak test
shroud: 90+%
test: 0 %
photo 4286

Team Leader (Initials) [signature] Date 5/5/16

Station I.D. GM117 Sample I.D. GM117SS0516 Date. 5/2/16
<Station ID><media code><Date >

GPS Location table 1, pg 3

Street Address (b) (6) [redacted]

Site Description in threshold of doorway to SE bedroom

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth slab ≈ 4" Orifice or Flow Controller # SGC 6

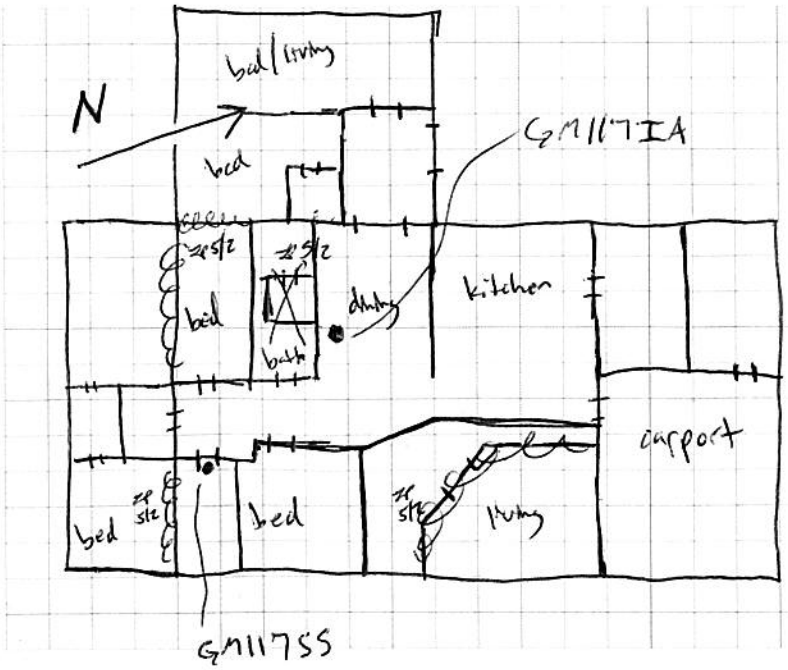
Canister # 4394

Name of Person Collecting Sample T. Slayle

		Can Pressure Gauge			
Start Date	5/3/16	Start Time	1610	Initial	30" Hg
Stop Date	5/3/16	Stop Time	1646	Final	1" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



- port installed @ 1455 on 5/2

He leak test

shroud: 90+%

test: 0 %

photo: 4298
4299

Team Leader (Initials) [redacted] Date 5/5/16

Station I.D. GM121 Sample I.D. GM121 SS 0516 Date. 5/2/16
<Station ID><media code><Date>

GPS Location see field 1, pg. 3

Street Address (b) (6) [redacted]

Site Description just inside doorway of ~~NE~~ SW bedroom
~~4~~ 5/3

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth slab ≅ 4" Orifice or Flow Controller # SGC 8

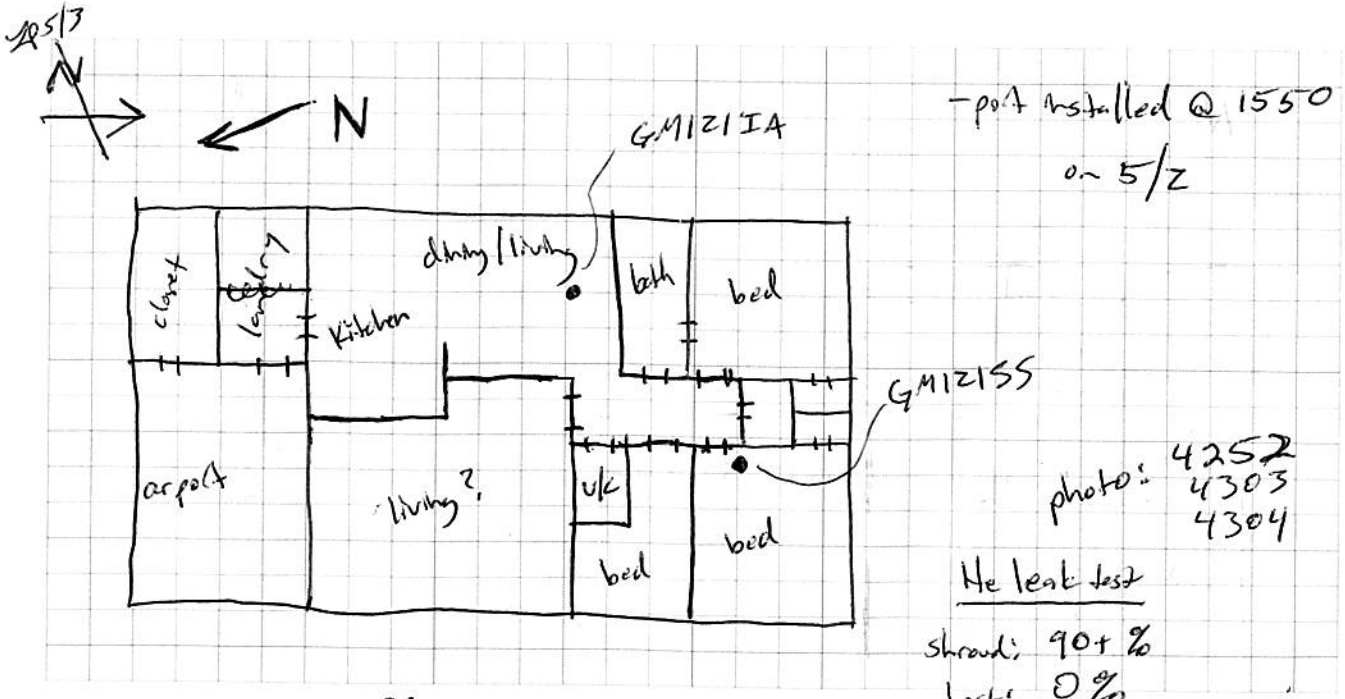
Canister # 4506

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date 5/3/16	Start Time 1802	Initial	30" Hg
Stop Date 5/3/16	Stop Time 1835	Final	1" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



Team Leader (Initials) Date 5/5/16

Station I.D. GM112 Sample I.D. GM112 SS 0516 Date. 5/2/16
<Station ID><media code><Date >

GPS Location see task 1 on pg 3

Street Address (b) (6) [redacted]

Site Description just inside closet of bedroom in middle of house

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth slab ≅ 4" Orifice or Flow Controller # 5GC5

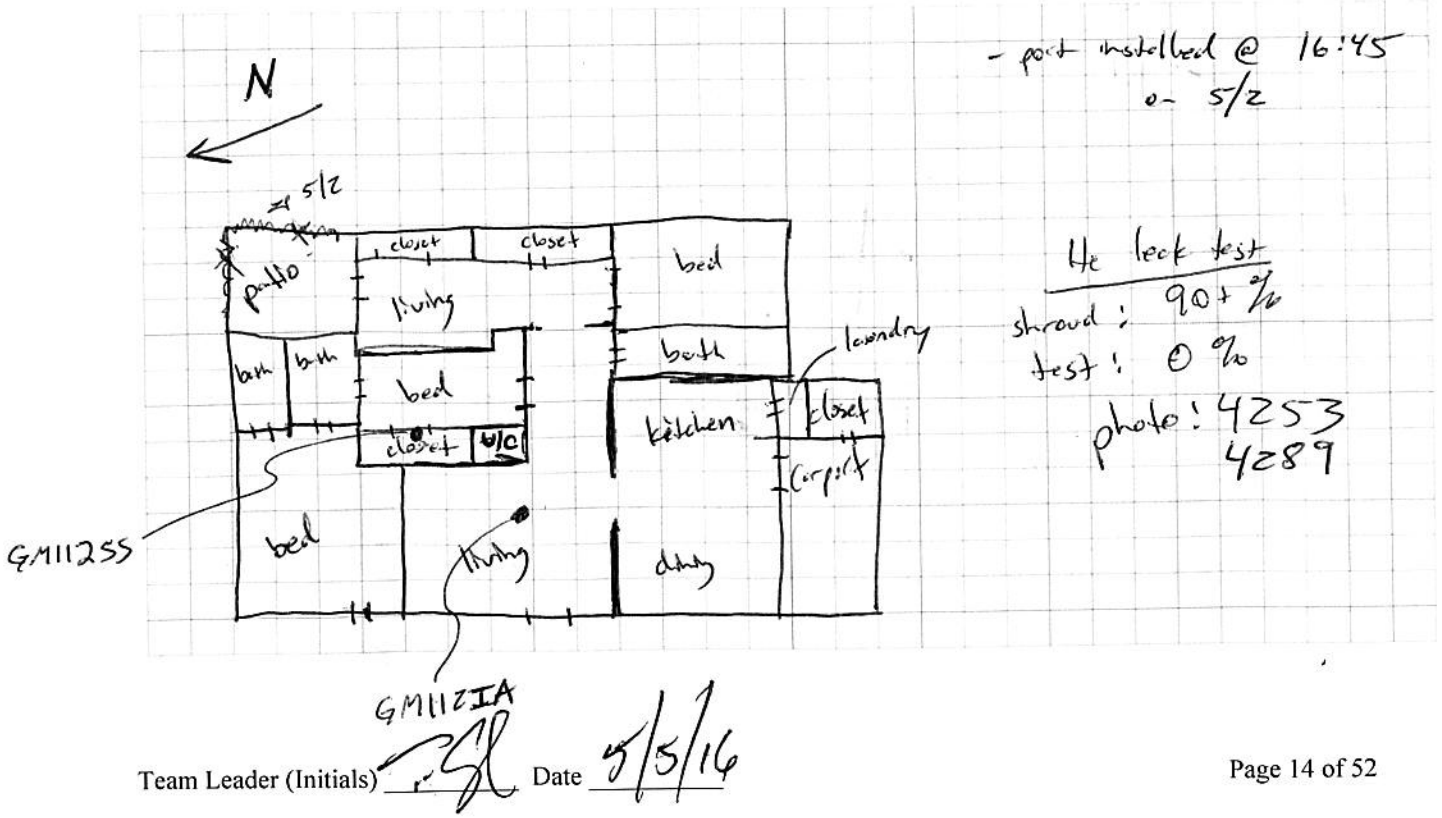
Canister # 2782

Name of Person Collecting Sample T. Slagle

		Can Pressure Gauge
Start Date 5/3/16	Start Time 1510	Initial 30" Hg 1.0
Stop Date 5/3/16	Stop Time 1542	Final ~~2.5~~ "Hg 2.5/3

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



Team Leader (Initials) [signature] Date 5/5/16

Station I.D. GM120 Sample I.D. GM120 SS 0516 Date. 5/2/16
<Station ID><media code><Date>

GPS Location see table 1 on pg 3

Street Address (b) (6) [redacted]

Site Description In hallway at threshold to NW most bedroom

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth slab ≅ 4" Orifice or Flow Controller # SGC 7

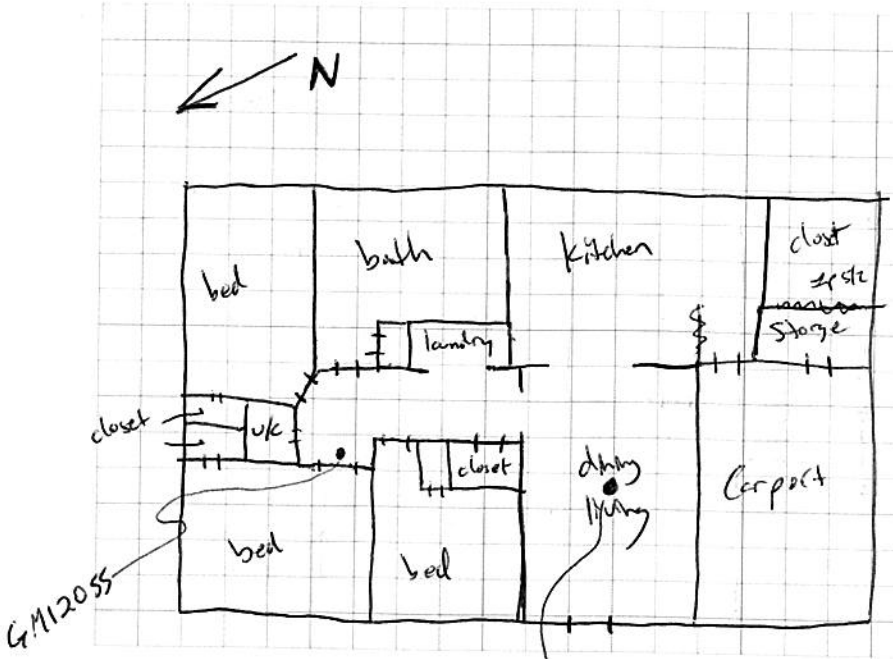
Canister # 6678

Name of Person Collecting Sample T. Slayle

				Can Pressure Gauge
Start Date	5/3/16	Start Time	1705	Initial 30" Hg
Stop Date	5/3/16	Stop Time	1737	Final 1" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



- port installed @ 1725 on 5/2

4301
photo: 4254 ~~4289~~ 4p 5/3

He leak test
shroud: 90+ %
test: 0 %

GM120FA

Team Leader (Initials) Date 5/5/16

Station I.D. GM118 Sample I.D. GM118SS0516 Date. 5/2/16
<Station ID><media code><Date>

GPS Location see table 1, pg 3

Street Address (b) (6) [redacted]

Site Description in closet off of hallway, S corner of house

Type of sample: Ambient Air Sample Indoor Air Sample (Soil Gas Sample)

Sampling Depth slab ≅ 4" Orifice or Flow Controller # SGC 14

Canister # 4027

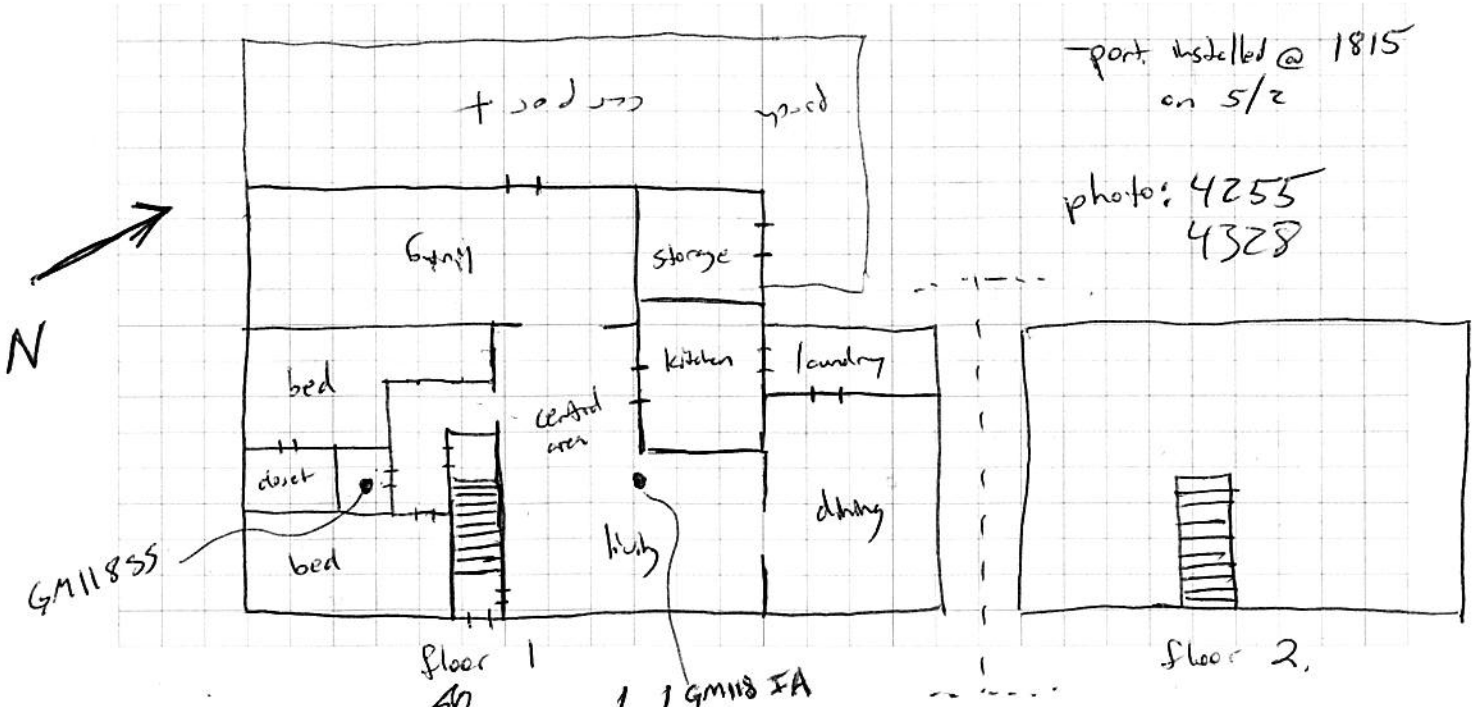
Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date 5/4/16	Start Time 1107	Initial	30" Hg
Stop Date 5/4/16	Stop Time 1202	Final	1" Hg

He leak test – shroud: 90+ %
test: 0 %

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



Team Leader (Initials) Date 5/5/16

Station I.D. GM108 Sample I.D. GM108SS0516 Date. 5/2/16
<Station ID><media code><Date >

GPS Location see table 1 on pg. 3

Street Address (b) (6) [redacted]

Site Description in closet at hallway, west end of hallway

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth Slab ≅ 4" Orifice or Flow Controller # SGC 16

Canister # 2778

Name of Person Collecting Sample T. Slagle

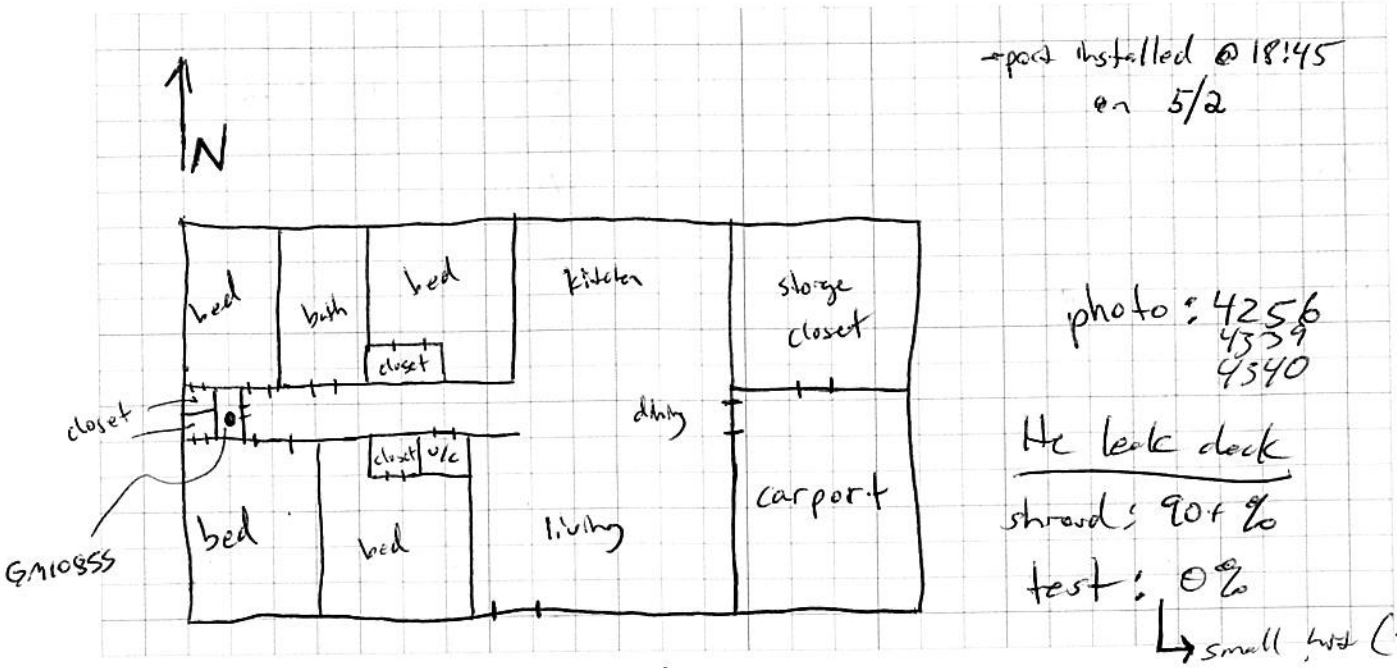
Can Pressure Gauge

Start Date 5/4/16 Start Time 1545 Initial 30" Hg

Stop Date 5/4/16 Stop Time 1625 Final 1" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



probe installed @ 18:45 on 5/2

photo: 4256 4539 4540

He leak check

shroud: 90+ %

test: 0%

↳ small leak (<5%) but considered collection error from bag to meter (He)

Team Leader (Initials) [signature] Date 5/5/16

Station I.D. GM01 Sample I.D. GM01AA0516 Date. 5/3/16
<Station ID><media code><Date>

GPS Location see table 1 & 3

Street Address —

Site Description S of neighborhood, N of site

Type of sample: (Ambient Air Sample) Indoor Air Sample Soil Gas Sample

Sampling Depth — Orifice or Flow Controller # FC 2

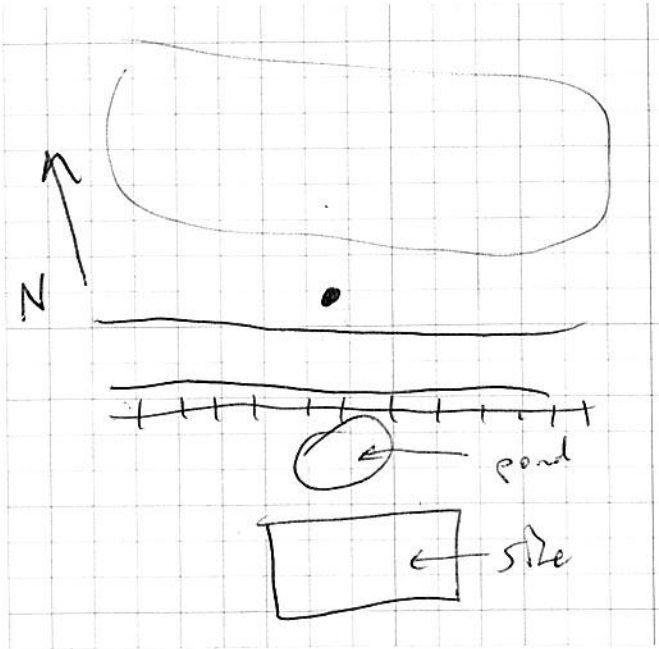
Canister # 6687

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date	5/3/16	Start Time 0712	Initial 30 "Hg
Stop Date	5/4/16	Stop Time 0712	Final 8" Hg

neighbor burning brush pile nearby @ 0715 on 5/3
Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



2nd day ambients

	GM01	GM01AA20516	
	FC2	Can# 20646	
start	5/4/16	0717	30"Hg
stop	5/5/16	0725	6"Hg

photo: 4257
facing N

3rd day ambients

GM01	GM01AA30516		
FC2	Can# 4016		
5/5/16	0730	30"Hg	
5/6/16	0728	6"Hg	

Team Leader (Initials) [signature] Date 5/5/16

Station I.D. GM01 Sample I.D. GM01AAD0516 Date. 5/3/16
<Station ID><media code><Date >

GPS Location task 1, 3

Street Address —

Site Description GM01 duplicate

Type of sample: (Ambient Air Sample) Indoor Air Sample Soil Gas Sample

Sampling Depth — Orifice or Flow Controller # FC 3

Canister # 20651

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date 5/3/16	Start Time 0717	Initial	30" Hg
Stop Date 5/4/16	Stop Time 0717	Final	4" Hg

GM01 dup; neighbor burning brush pile @ 0715 on 5/3
Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

map pg 18

2nd days canisters

	GM01	GM01AADZ0516	
start	5/4/16	0717	30" Hg
stop	5/5/16	0725	6" Hg
	FC3	can # 4152	

3rd day canisters

GM01	GM01AAD30516	
5/5/16	0730	30" Hg
5/6/16	0728	6" Hg
FC3	can # 5920	

Team Leader (Initials) [signature] Date 5/5/16

Station I.D. GM13 Sample I.D. GM13AA0516 Date. 5/3/16
<Station ID><media code><Date>

GPS Location ~~see~~

Street Address –

Site Description behind (b) (6)

Type of sample: ~~Ambient Air Sample~~ Indoor Air Sample Soil Gas Sample

Sampling Depth – Orifice or Flow Controller # FC1

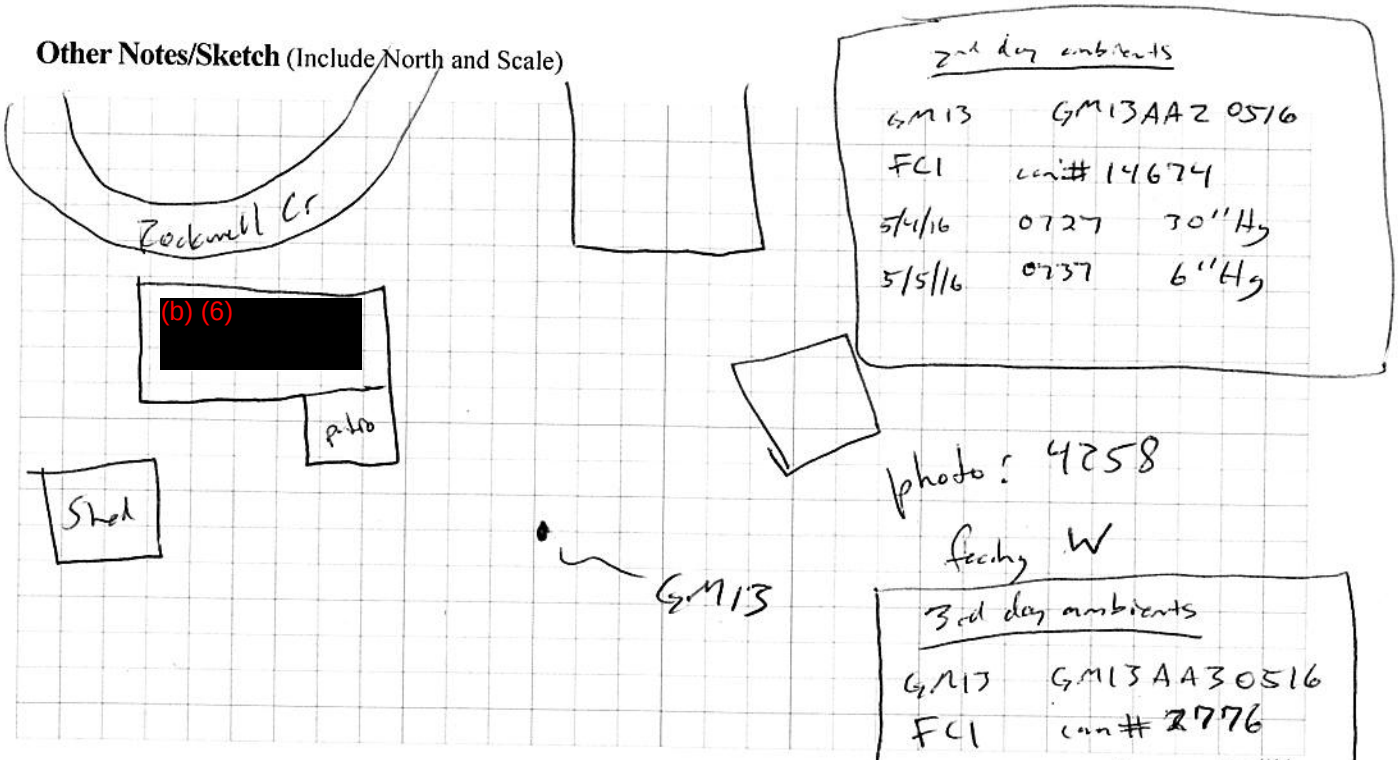
Canister # A9319

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date	5/3/16	Start Time 0725	Initial 30" Hg
Stop Date	5/4/16	Stop Time 0725	Final 6" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



Team Leader (Initials) [signature] Date 5/5/16

Station I.D. GM12 Sample I.D. GM12AA0516 Date. 5/3/16
<Station ID><media code><Date >

GPS Location table 1 pg 3

Street Address –

Site Description behind (b) (6)

Type of sample: (Ambient Air Sample) Indoor Air Sample Soil Gas Sample

Sampling Depth – Orifice or Flow Controller # FC4

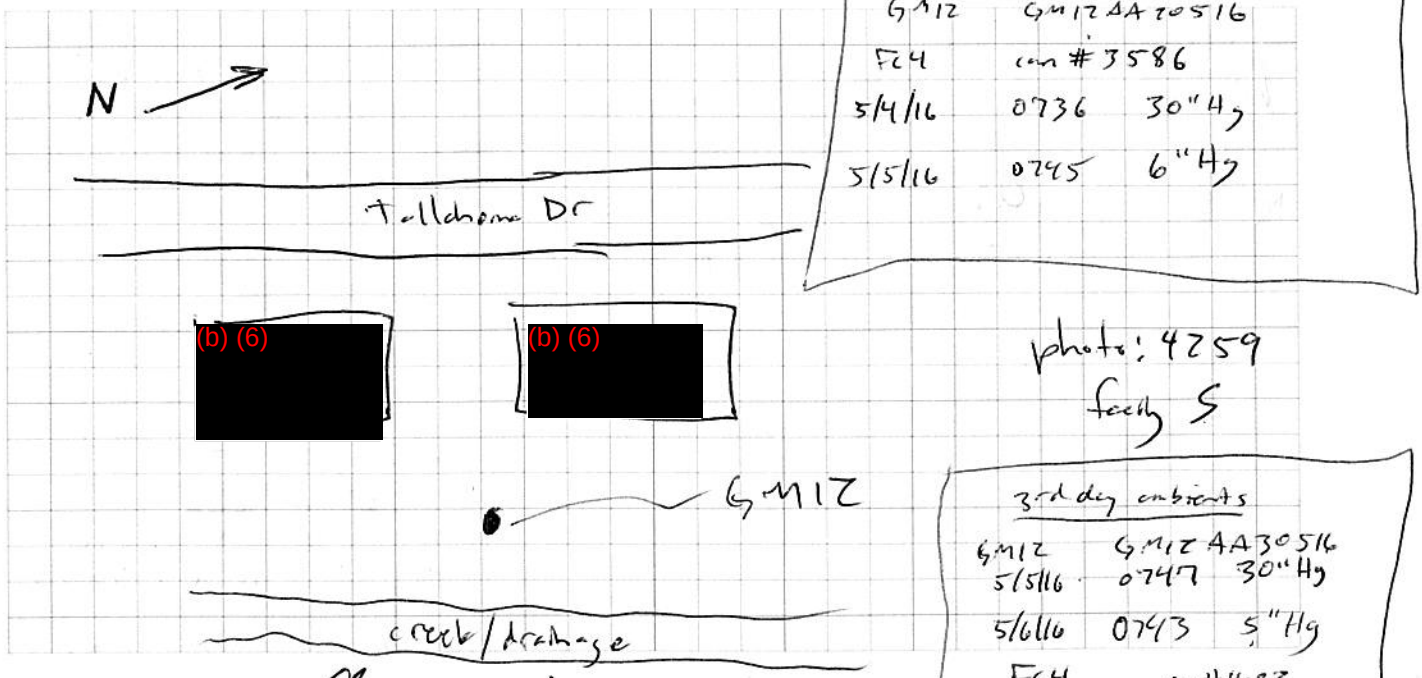
Canister # 5935

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date	5/3/16	Start Time 0737	Initial 30" Hg
Stop Date	5/4/16	Stop Time 0734	Final 3" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



Team Leader (Initials) [signature] Date 5/5/16

Station I.D. GM11 Sample I.D. GM11AA0516 Date. 5/3/16
<Station ID><media code><Date>

GPS Location map pg 2, table pg 3

Street Address –

Site Description behind GM124 (b) (6) [redacted]

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth – Orifice or Flow Controller # FC5

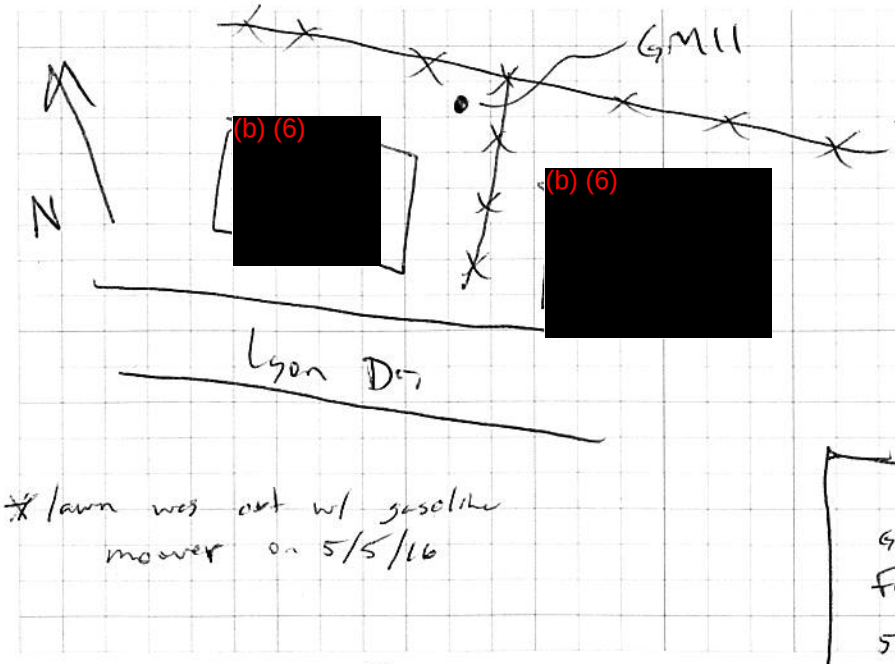
Canister # 3931

Name of Person Collecting Sample T. Skyle

				Can Pressure Gauge	
Start Date	5/3/16	Start Time	0750	Initial	30" Hg
Stop Date	5/4/16	Stop Time	0746	Final	7" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



* lawn was cut w/ gasoline mower on 5/5/16

2nd day ambients
GM11 GM11AA20516
FC5 can # 4669
start 5/4/16 0749 30" Hg
stop 5/5/16 0753 8" Hg

photo: 4760
facing E

3rd day ambients
GM11 GM11AA30516
FC5 can # L4875
5/5/16 0755 50+" Hg
5/6/16 0749 9" Hg

Team Leader (Initials) [signature] Date 5/5/16

Station I.D. GM110 Sample I.D. GM110IA0516 Date. 5/3/16
<Station ID><media code><Date >

GPS Location table 1 pg. 3

Street Address (b) (6) [redacted]

Site Description in living room, beside couch

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling Depth – Orifice or Flow Controller # FC 6

Canister # 4369

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date 5/3/16	Start Time 0930	Initial	30" Hg
Stop Date 5/4/16	Stop Time 0928	Final	6" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

map pg 7

* possible painting/caulking during sampling

photo; 4762

Team Leader (Initials) [signature] Date 5/5/16

Station I.D. GM114 Sample I.D. GM114 IA0516 Date. 5/3/16
<Station ID><media code><Date >

GPS Location tble 1 pg 3

Street Address (b) (6) [redacted]

Site Description map pg 5

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling Depth — Orifice or Flow Controller # 5' FC 13
5/3

Canister # 4156

Name of Person Collecting Sample T. Sky/o

				Can Pressure Gauge	
Start Date	5/3/16	Start Time	1054	Initial	30" Hg
Stop Date	5/4/16	Stop Time	1105	Final	6" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

map pg 5

photo: 9272

Team Leader (Initials) [signature] Date 5/5/16

Station I.D. ~~5/GMIIH~~ GM115 Sample I.D. ~~GMIIH~~ GM115IA0516 Date. 5/3/16
<Station ID><media code><Date >

GPS Location —

Street Address (b) (6) [redacted]

Site Description end of hall on dresser, mp fig 6

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth — Orifice or Flow Controller # FC14

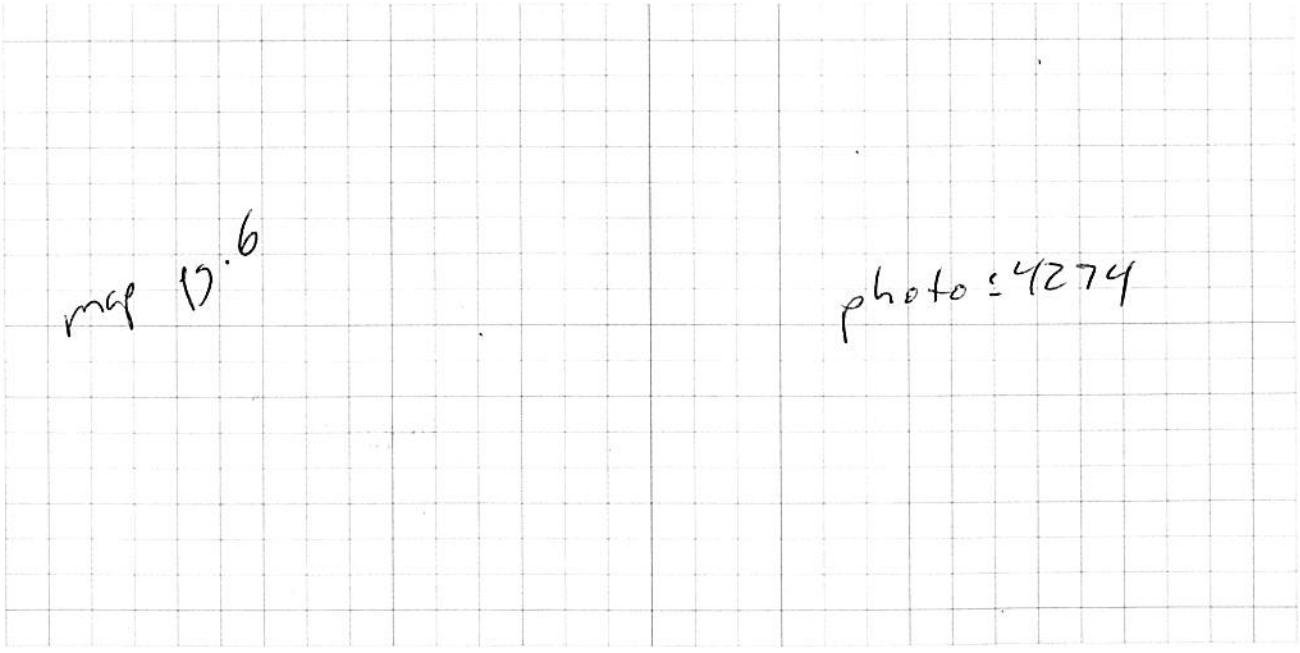
Canister # 20642

Name of Person Collecting Sample T. Sigle

					Can Pressure Gauge
Start Date	5/3/16	Start Time	1140	Initial	30" Hg
Stop Date	5/4/16	Stop Time	1142	Final	7" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



Team Leader (Initials) [signature] Date 5/5/16

Station I.D. GM107 Sample I.D. GM107SSD0516 Date. 05/3/16
<Station ID><media code><Date >

GPS Location –

Street Address (b) (6) [redacted]

Site Description GM 107 split, pg 9

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth slab = 4" Orifice or Flow Controller # SG10

Canister # 20643

Name of Person Collecting Sample T. Slagle

Can Pressure Gauge

Start Date 5/3/16 Start Time 1205 Initial 30" Hg

Stop Date 5/3/16 Stop Time 1240 Final 1" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

map pg 9

He leak test

see pg 9

photo 4275

Team Leader (Initials) [redacted] Date 5/5/16

Station I.D. GM107 Sample I.D. GM107IA0516 Date. 5/3/16
<Station ID><media code><Date >

GPS Location —

Street Address (b) (6) [redacted]

Site Description mp @ 9

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling Depth — Orifice or Flow Controller # ~~FC22~~ or 5/4 FC23

Canister # 2768

Name of Person Collecting Sample T. Slagle

				Can Pressure Gauge	
Start Date	5/3/16	Start Time	1243	Initial	30" Hg
Stop Date	5/4/16	Stop Time	1244	Final	5" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

mp @ 9

photo 4276

Team Leader (Initials) [signature] Date 5/5/16

Station I.D. GM107 Sample I.D. GM107IAD0516 Date. 5/3/16
<Station ID><media code><Date>

GPS Location –

Street Address (b) (6) [redacted]

Site Description GM107 IA dup.

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling Depth – Orifice or Flow Controller # FC24

Canister # 471

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date 5/3/16	Start Time 1243	Initial	30" Hg
Stop Date 5/4/16	Stop Time 1244	Final	5" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

mp - pg 9

photo: 4276

Team Leader (Initials) [redacted] Date 5/5/16

Station I.D. GM109 Sample I.D. GM109IA0516 Date. 5/3/16
<Station ID><media code><Date>

GPS Location – map pg 11 / table 1 pg 3

Street Address (b) (6) [redacted]

Site Description in living room, coffee table / map pg 3

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling Depth – Orifice or Flow Controller # FC15

Canister # 14675

Name of Person Collecting Sample T. Sigle

Can Pressure Gauge

Start Date 5/3/16 Start Time 1535 Initial 30 29" Hg
1535/3

Stop Date 5/4/16 Stop Time 1535 Final 6" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

see map pg 11

photo: 4288

Team Leader (Initials) [signature] Date 5/5/16

Station I.D. ~~GM120~~ GM112 SP 5/3 Sample I.D. ~~GM120~~ GM112 SP 5/3 IA0516 Date. 5/3/16
<Station ID><media code><Date>

GPS Location table 1 pg 3

Street Address (b) (6) [redacted]

Site Description front living room, see map pg. 14

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth — Orifice or Flow Controller # 5.FC16 SP 5/3

Canister # 3587

Name of Person Collecting Sample T. Slagle

					Can Pressure Gauge
Start Date	5/3/16	Start Time	1547	Initial	30" Hg
Stop Date	5/4/16	Stop Time	1553	Final	7" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

see map pg ~~15~~ 14 SP 5/3

photo: 4290

Team Leader (Initials) [signature] Date 5/5/16

Station I.D. GM117 Sample I.D. GM117IA0516 Date. 5/3/16
<Station ID><media code><Date>

GPS Location table 1 map pg 3 zoom in

Street Address (b) (6) [redacted]

Site Description map pg 12

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling Depth – Orifice or Flow Controller # FC17

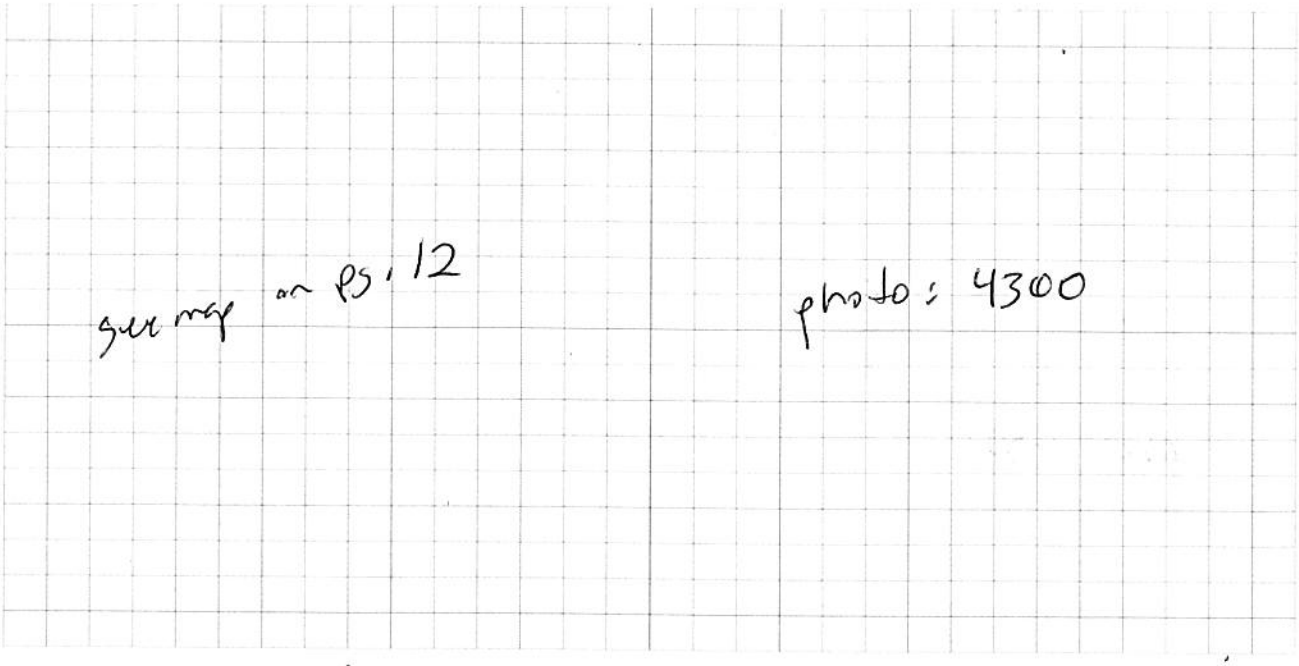
Canister # 2773

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date 5/3/16	Start Time 1648	Initial	27.5" Hg
Stop Date 5/4/16	Stop Time 1649	Final	5" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



Team Leader (Initials) TS Date 5/5/16

Station I.D. GM120 Sample I.D. GM120IA0516 Date. 5/3/16
<Station ID><media code><Date >

GPS Location ~~153~~ Tallahoma ~~2~~ 5/3 table 1, pg 3

Street Address (b) (6) [redacted]

Site Description coffee table in living room

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling Depth — Orifice or Flow Controller # FC18

Canister # 20647

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date 5/3/16	Start Time 1740	Initial	30" Hg
Stop Date 5/4/16	Stop Time 1855	Final	3" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

map ~ pg. 15

photo 4302

Team Leader (Initials) [signature] Date 5/5/16

Station I.D. GM121 Sample I.D. GM121IA0516 Date. 5/3/16
<Station ID><media code><Date >

GPS Location Table 1, pg 3

Street Addres (b) (6) [redacted]

Site Description living room

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling Depth — Orifice or Flow Controller # FC19

Canister # 20659

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date 5/3/16	Start Time 1838	Initial 30" Hg	
Stop Date 5/4/16	Stop Time 1855	Final 6" Hg	

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

map pg 13

photo: 4305

Team Leader (Initials) [signature] Date 5/5/16

Station I.D. GM113 Sample I.D. GM113 SS 0516 Date. 5/4/16
<Station ID><media code><Date>

GPS Location table 1, pg 3

Street Address (b) (6) [redacted]

Site Description in closet at end of hall

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth slab ≈ 4" Orifice or Flow Controller # SGC 11

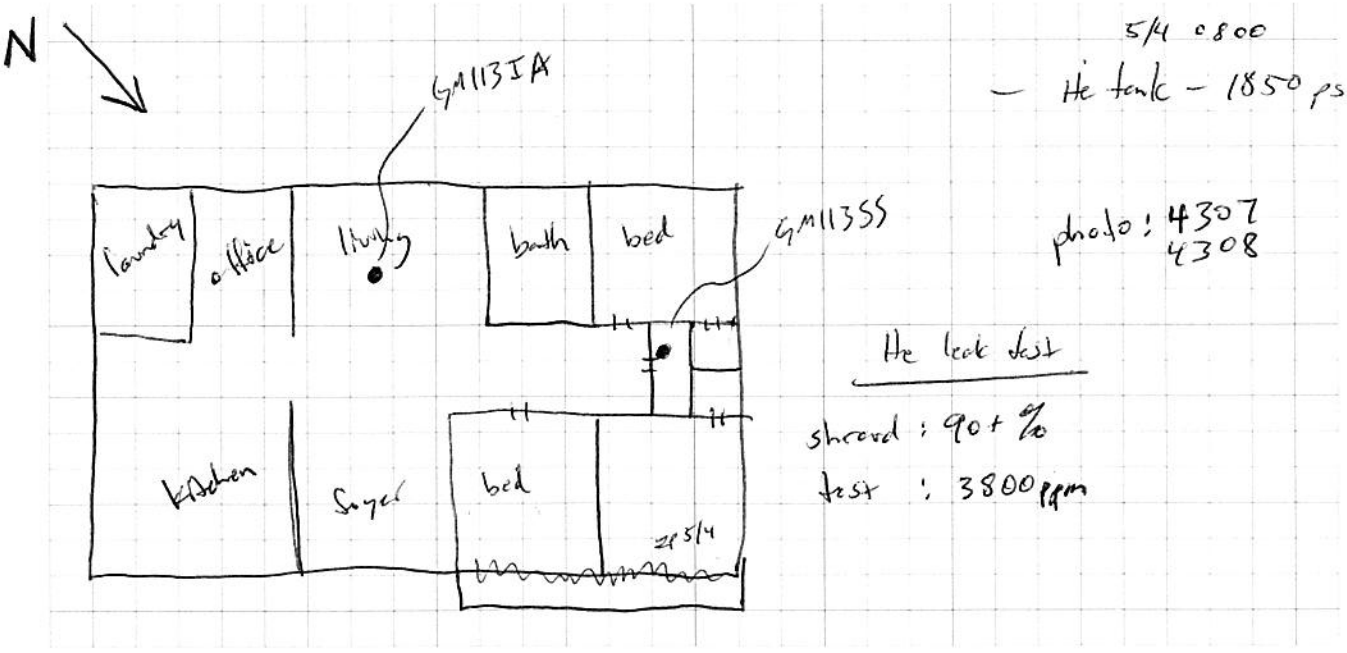
Canister # 4419

Name of Person Collecting Sample T. Slagle

		Can Pressure Gauge	
Start Date 5/4/16	Start Time 0843	Initial 30" Hg	
Stop Date 5/4/16	Stop Time 0920	Final 1" Hg	

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



Team Leader (Initials) Date 5/5/16

Station I.D. GM113 Sample I.D. GM113IA0516 Date. 5/4/16
<Station ID><media code><Date>

GPS Location table 1, pg 3

Street Address (b) (6) [redacted]

Site Description coffee table in living room

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling Depth — Orifice or Flow Controller # FC 20

Canister # 14676

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date 5/4/16	Start Time 0922	Initial	29" Hg
Stop Date 5/5/16	Stop Time 0921	Final	4"Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

See my p 34

photo: 4309

Team Leader (Initials) [signature] Date 5/5/16

Station I.D. GM111 Sample I.D. GM111 IA0516 Date. 5/4/16
<Station ID><media code><Date >

GPS Location table 1, pg 3

Street Address (b) (6) [redacted]

Site Description side table in living room

Type of sample: Ambient Air Sample ~~Indoor Air Sample~~ Soil Gas Sample

Sampling Depth — Orifice or Flow Controller # FC21

Canister # 20658

Name of Person Collecting Sample T. Slyle

				Can Pressure Gauge	
Start Date	5/4/16	Start Time	1018	Initial	30" Hg
Stop Date	5/5/16	Stop Time	1021	Final	6" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

Team Leader (Initials) T. S Date 5/5/16

Station I.D. GM118 Sample I.D. GM118 IA0516 Date. 5/4/16
<Station ID><media code><Date >

GPS Location table 1, pg 3

Street Address (b) (6) [redacted]

Site Description in front living room

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling Depth ~ Orifice or Flow Controller # FC22

Canister # 3920

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date 5/4/16	Start Time 1206	Initial	30" Hg
Stop Date 5/5/16	Stop Time 1212	Final	5" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

~~5/4/16~~ 7/19/16 moved to pg 45 (wrong house)

* walking on car on morning of 5/5/16, removed gas tank, gas smell around house, garage

mp on pg. 16

photo: 4329

Team Leader (Initials) [signature] Date 5/5/16

Station I.D. GM122 Sample I.D. GM122IA0516 Date. 5/4/16
<Station ID><media code><Date>

GPS Location Task 1, pg 3

Street Address (b) (6) [redacted]

Site Description at end of hallway

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth - Orifice or Flow Controller # FC26

Canister # 5927

Name of Person Collecting Sample

Can Pressure Gauge

Start Date 5/4/16 Start Time 1237 Initial 30" Hg

Stop Date 5/5/16 Stop Time 1238 Final 4" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

map pg. 10

*

photo: 4334

Team Leader (Initials) Date 5/5/16

Station I.D. GM123 Sample I.D. GM123 SS 0516 Date. 5/4/16
<Station ID><media code><Date>

GPS Location table 1, pg 3

Street Address (b) (6) [redacted]

Site Description closet end of hallway
re 5/4

Type of sample: Ambient Air Sample Indoor Air Sample (Soil Gas Sample)

Sampling Depth slab ≈ 4" Orifice or Flow Controller # SGC17

Canister # 4340

Name of Person Collecting Sample T. Sigle

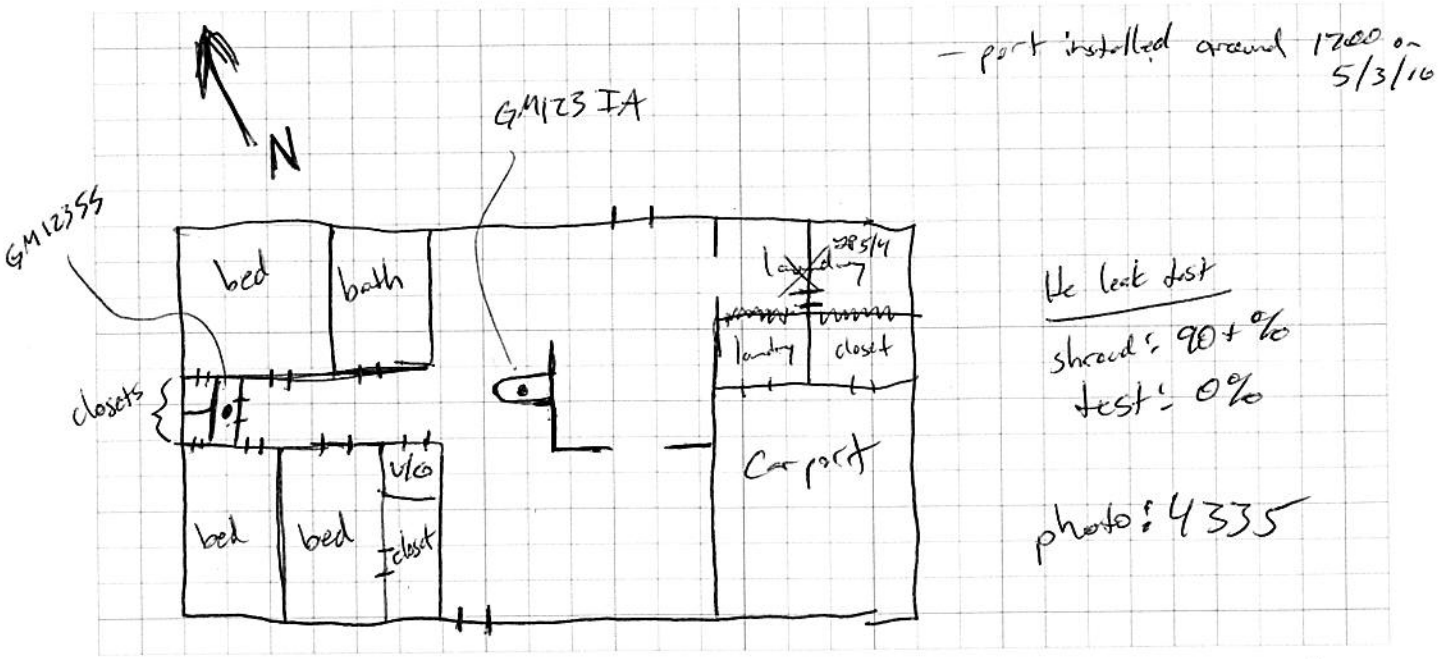
Can Pressure Gauge

Start Date 5/4/16 Start Time 1240 Initial 30" Hg

Stop Date 5/4/16 Stop Time ~~1328~~ 1328 Final 1" Hg
re 5/4

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



Team Leader (Initials) [signature] Date 5/5/16

Station I.D. GM123 Sample I.D. GM123IA0516 Date. 5/4/16
<Station ID><media code><Date >

GPS Location Task 1, pg 3

Street Address (b) (6) [redacted]

Site Description on island in living/dining room, middle of house

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth – Orifice or Flow Controller # FC28

Canister # 20653

Name of Person Collecting Sample T. Sigle

			Can Pressure Gauge
Start Date 5/4/16	Start Time 1330	Initial 29" Hg	
Stop Date 5/5/16	Stop Time 1333	Final 7" Hg	

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

map pg 39

photo: 4336

Team Leader (Initials) Date 5/5/16

Station I.D. GM108 Sample I.D. GM108SS0516 Date. 5/4/16
<Station ID><media code><Date>

GPS Location table 1, pg 3

Street Address (b) (6) [redacted]

Site Description see page 17 GM108SS duplicate

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth slab ≅ 4" Orifice or Flow Controller # SGC20

Canister # 2774

Name of Person Collecting Sample T. Slagle

		Can Pressure Gauge	
Start Date 5/4/16	Start Time 1545	Initial	30" Hg
Stop Date 5/4/16	Stop Time 1625	Final	1" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

map on pg. 17
photos 4339 & 4340

Team Leader (Initials) [signature] Date 5/5/16

Station I.D. GM108 Sample I.D. GM108 IA 0516 Date. 5/4/16
<Station ID><media code><Date>

GPS Location table 1, page 3

Street Address (b) (6) [redacted]

Site Description hallway up hallway

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling Depth – Orifice or Flow Controller # FC 25

Canister # 4555

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date 5/4/16	Start Time 1627	Initial 30" Hg	
Stop Date 5/5/16	Stop Time 1628	Final 5" Hg	

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

mgp page 17

photo; 4341
4342

Team Leader (Initials) [redacted] Date 5/5/16

Station I.D. GM108 Sample I.D. GM108 IAD 0516 Date. 5/4/16
<Station ID><media code><Date>

GPS Location table 1 page 3

Street Address (b) (6)

Site Description pg 42 (dup), halfway up hallway

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling Depth — Orifice or Flow Controller # FC27

Canister # 4168

Name of Person Collecting Sample T. Slagle

Can Pressure Gauge

Start Date 5/4/16 Start Time 1627 Initial 30" Hg

Stop Date 5/5/16 Stop Time 1628 Final 5" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

map pg. 17

photos pg 42

Team Leader (Initials) T.S. Date 5/5/16

Station I.D. GM119 Sample I.D. GM119SS0516 Date. 5/4/16
<Station ID><media code><Date>

GPS Location folk 1, pg 3

Street Address (b) (6) [redacted]

Site Description closet, end of hallway

Type of sample: Ambient Air Sample Indoor Air Sample (Soil Gas Sample)

Sampling Depth slab ≅ 4" Orifice or Flow Controller # 5GC18

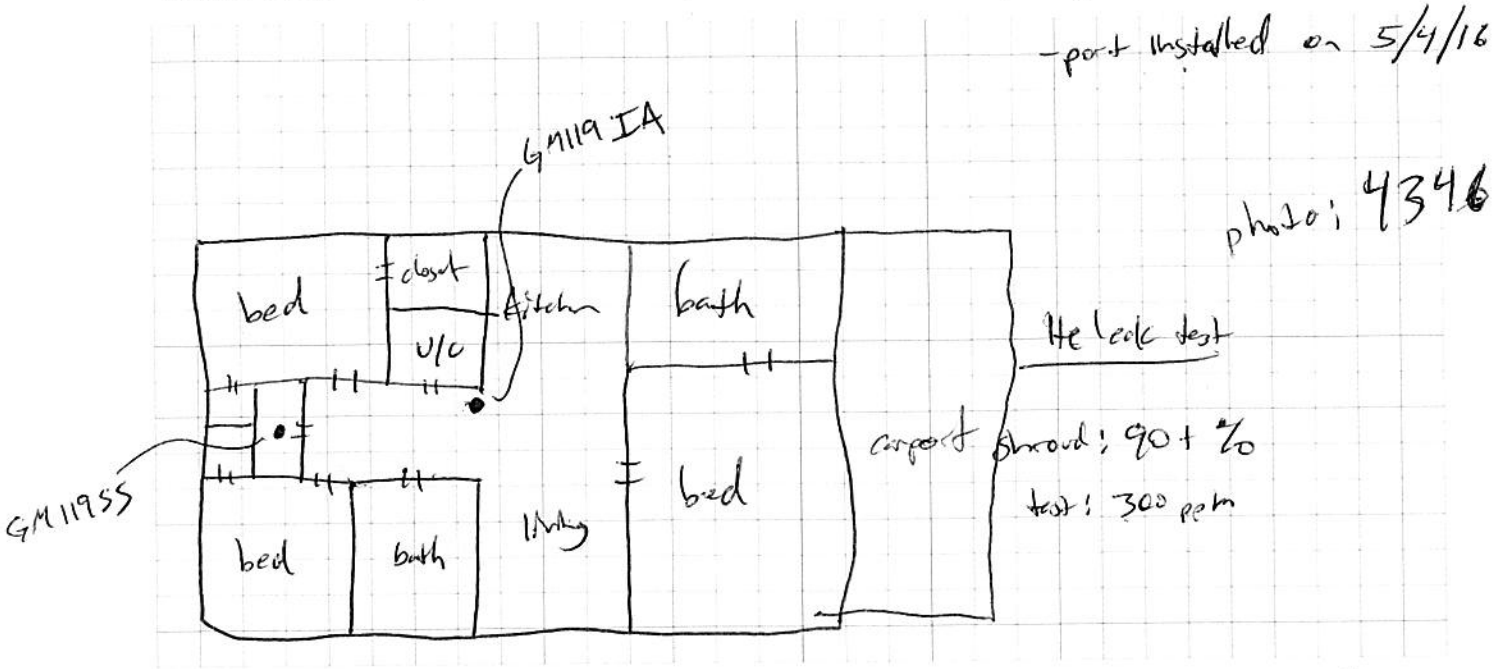
Canister # 4029

Name of Person Collecting Sample T. Slagle

		Can Pressure Gauge	
Start Date 5/4/16	Start Time 1707	Initial 30 "Hg	
Stop Date 5/4/16	Stop Time 1750	Final 1 "Hg	

Notes: (other measurements) owner requested temp sub-slab implant to be installed for sampling then removed & grouted after sampling.

Other Notes/Sketch (Include North and Scale)



Team Leader (Initials) [signature] Date 5/5/16

Station I.D. GM119 Sample I.D. GM119IA0516 Date. 5/4/16
<Station ID><media code><Date>

GPS Location table 1, pg 3

Street Address (b) (6) [redacted]

Site Description just in hallway from living room, map pg 44

Type of sample: Ambient Air Sample (Indoor Air Sample) Soil Gas Sample

Sampling Depth — Orifice or Flow Controller # FC29

Canister # 5930

Name of Person Collecting Sample T. Sigle

			Can Pressure Gauge
Start Date 5/4/16	Start Time 1755	Initial	30" Hg
Stop Date 5/5/16	Stop Time 1756	Final	5" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

* car maintenance in garage, removed gas tank from car, smell gas around house/garage (morning of 5/5/16

photo: 4347

map pg 44

homeowner
* brought chemicals back in on her own about an hour before can was closed

Team Leader (Initials) TS Date 5/5/16

Station I.D. GM116 Sample I.D. GM116SS0516 Date. 5/4/16
<Station ID><media code><Date >

GPS Location table 1, pg 3

Street Address (b) (6) [redacted]

Site Description map below
2054

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth slab ≅ 4" Orifice or Flow Controller # SGC19

Canister # 14130

Name of Person Collecting Sample T, Sla, L

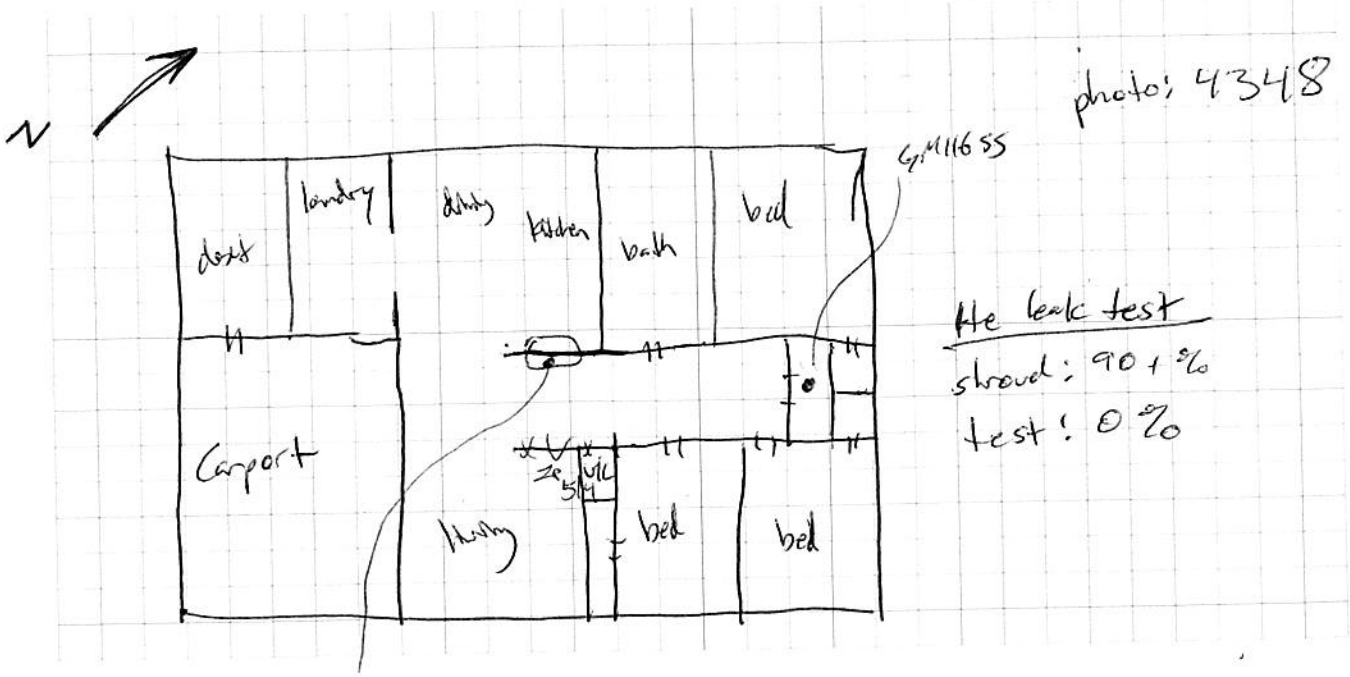
Can Pressure Gauge

Start Date 5/4/16 Start Time 1808 Initial 30 "Hg

Stop Date 5/4/16 Stop Time 1846 Final 1 "Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



GM116IA

Team Leader (Initials) Date 5/5/16

Station I.D. GM116 Sample I.D. GM116IA0516 Date. 5/4/16
<Station ID><media code><Date>

GPS Location table 1, pg 3

Street Address (b) (6) [redacted]

Site Description on island in b/w kitchen and living room

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth — Orifice or Flow Controller # FC30

Canister # 4672

Name of Person Collecting Sample T. Slagle

			Can Pressure Gauge
Start Date 5/4/16	Start Time 1838 (4 STM)	Initial	30" Hg
Stop Date 5/5/16	Stop Time 1847	Final	5" Hg

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)

map p) 46

photo: 4349

Team Leader (Initials) [signature] Date 5/5/16

Station I.D. _____ Sample I.D. _____ Date. _____
<Station ID><media code><Date >

GPS Location _____

Street Address _____

Site Description _____

_____

Type of sample: Ambient Air Sample Indoor Air Sample Soil Gas Sample

Sampling Depth _____ Orifice or Flow Controller # _____

Canister # _____

Name of Person Collecting Sample _____

Can Pressure Gauge

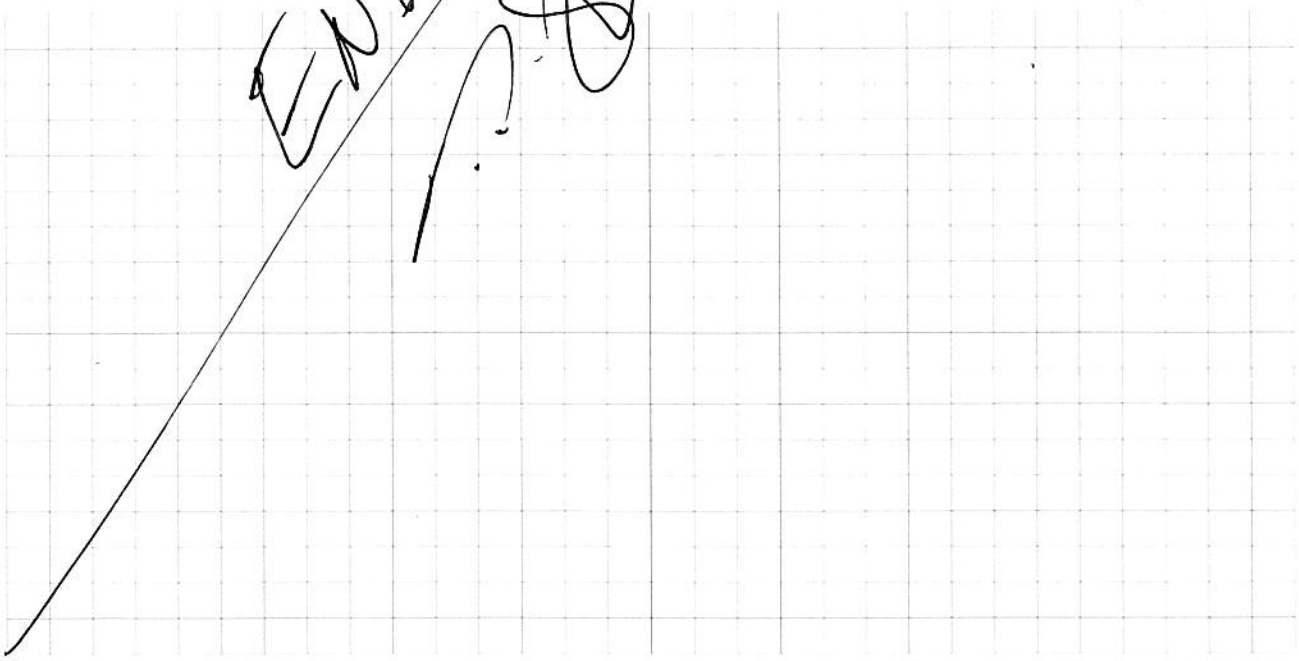
Start Date _____ Start Time _____ Initial _____

Stop Date _____ Stop Time _____ Final _____

_____

Notes: (other measurements)

Other Notes/Sketch (Include North and Scale)



E162001

USEPA Region 4 COC (REGION COPY)
DateShipped: 5/6/2016
CarrierName: GOV Carrier
AirbillNo:

CHAIN OF CUSTODY RECORD
Grenada Soil Gas Study/MS
Project Number: 16-0323
Cooler #:

No: 05/05/16-0003
Lab: Region 4 Lab
Lab Contact: Mike Beall
Lab Phone: 706-355-8856

	Sample Identifier	CLP Sample No.	Media/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
-03	GMTBC0516		Trip Blank Air/ Slagle, Tim	Grab	VOA	A (1) ✓	#R4DART#	05/05/2016 08:00	Trip Blank
-04	GM01AA0516		Ambient Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM01	05/03/2016 07:12	Field Sample
-05	GM01AA20516		Ambient Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM01	05/04/2016 07:17	Field Sample
-06	GM01AA30516		Ambient Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM01	05/05/2016 07:30	Field Sample
-07	GM01AAD0516		Ambient Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM01	05/03/2016 07:12	Field Duplicate
-08	GM01AAD20516		Ambient Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM01	05/04/2016 07:17	Field Duplicate
-09	GM01AAD30516		Ambient Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM01	05/05/2016 07:30	Field Duplicate
-10	GM107IA0516		Indoor Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM107	05/03/2016 12:43	Field Sample
-11	GM107IAD0516		Indoor Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM107	05/03/2016 12:43	Field Duplicate
-12	GM107SS0516		Soil Gas/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM107	05/03/2016 12:05	Field Sample

Special Instructions: Can #'s GM114SS0516=3939, GM115SS0516=6681, GM110SS0516=20655, GM111SS0516=20644, GM107SS0516=14673, GM122SS0516=3930, GM109SS0516=20648, GM117SS0516=4394, GM121SS0516=4506, GM112SS0516=2782, GM120SS0516=6678, GM118SS0516=4027, GM108SS0516=2778, GM01AA0516=6687, GM01AA20516=20646, GM01AA30516=4016, GM01AAD0516=20651, GM01AAD20516=4152, GM01AAD30516=5920, GM13AA0516=A9319, GM13AA20516=14674, GM13AA30516=2776, GM12AA0516=5935, GM12AA20516=3586, GM12AA30516=4083, GM11AA0516=3931, GM11AA20516=4669, GM11AA30516=L4875, GM110IA0516=4369, GM114IA0516=4156, GM115IA0516=20642, GM107SSS0516=20643, GM107IA0516=2768, GM107IAD0516=471, GM109IA0516=14675, GM112IA0516=3587, GM117IA0516=2773, GM120IA0516=20647, GM121IA0516=20659, GM113SS0516=4419, GM113IA0516=14676, GM111IA0516=20658, GM118IA0516=3920, GM122IA0516=5927, GM123SS0516=4340, GM123IA0516=20653, GM108SSS0516=2774, GM108IA0516=4555, GM108IAD0516=4168, GM119SS0516=4029, GM119IA0516=5930, GM116SS0516=14130, GM116IA0516=4672, GMTBA0516=4671, GMTBB0516=2786, GMTBC0516=4393

Analysis Key: VOA=(VOA) Volatile Organics

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	SESD	5/6/16 5:50pm	KMBeall EPA SESD ASB	5-6-16 1751	Good

E162001

USEPA Region 4 COC (REGION COPY)
DateShipped: 5/6/2016
CarrierName: GOV Carrier
AirbillNo:

CHAIN OF CUSTODY RECORD
Grenada Soil Gas Study/MS
Project Number: 16-0323
Cooler #:

No: 05/05/16-0003
Lab: Region 4 Lab
Lab Contact: Mike Beall
Lab Phone: 706-355-8856

	Sample Identifier	CLP Sample No.	Media/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
-13	GM107SSS0516		Soil Gas/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM107	05/03/2016 12:05	Field Duplicate
-14	GM108IA0516		Indoor Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM108	05/04/2016 16:27	Field Sample
-15	GM108IAD0516		Indoor Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM108	05/04/2016 16:27	Field Duplicate
-16	GM108SS0516		Soil Gas/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM108	05/04/2016 15:45	Field Sample
-17	GM108SSS0516		Soil Gas/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM108	05/04/2016 15:45	Field Duplicate
-18	GM109IA0516		Indoor Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM109	05/03/2016 15:35	Field Sample
-19	GM109SS0516		Soil Gas/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM109	05/03/2016 14:33	Field Sample
-23	GM110IA0516		Indoor Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM110	05/03/2016 09:30	Field Sample
-24	GM110SS0516		Soil Gas/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM110	05/03/2016 08:50	Field Sample
-25	GM111IA0516		Indoor Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM111	05/04/2016 10:18	Field Sample

Special Instructions: Can #'s GM114SS0516=3939, GM115SS0516=6681, GM110SS0516=20655, GM111SS0516=20644, GM107SS0516=14673, GM122SS0516=3930, GM109SS0516=20648, GM117SS0516=4394, GM121SS0516=4506, GM112SS0516=2782, GM120SS0516=6678, GM118SS0516=4027, GM108SS0516=2778, GM01AA0516=6687, GM01AA20516=20646, GM01AA30516=4016, GM01AAD0516=20651, GM01AAD20516=4152, GM01AAD30516=5920, GM13AA0516=A9319, GM13AA20516=14674, GM13AA30516=2776, GM12AA0516=5935, GM12AA20516=3586, GM12AA30516=4083, GM11AA0516=3931, GM11AA20516=4669, GM11AA30516=L4875, GM110IA0516=4369, GM114IA0516=4156, GM115IA0516=20642, GM107SSS0516=20643, GM107IA0516=2768, GM107IAD0516=471, GM109IA0516=14675, GM112IA0516=3587, GM117IA0516=2773, GM120IA0516=20647, GM121IA0516=20659, GM113SS0516=4419, GM113IA0516=14676, GM111IA0516=20658, GM118IA0516=3920, GM122IA0516=5927, GM123SS0516=4340, GM123IA0516=20653, GM108SSS0516=2774, GM108IA0516=4555, GM108IAD0516=4168, GM119SS0516=4029, GM119IA0516=5930, GM116SS0516=14130, GM116IA0516=4672, GMTBA0516=4671, GMTBB0516=2786, GMTBC0516=4393

Analysis Key: VOA=(VOA) Volatile Organics

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	SESD	5/6/16 5:50 pm	Beall EPA SESD ASB	5-6-16 1751	Good

E162001

USEPA Region 4 COC (REGION COPY)
DateShipped: 5/6/2016
CarrierName: GOV Carrier
AirbillNo:

CHAIN OF CUSTODY RECORD
Grenada Soil Gas Study/MS
Project Number: 16-0323
Cooler #:

No: 05/05/16-0003
Lab: Region 4 Lab
Lab Contact: Mike Beall
Lab Phone: 706-355-8856

	Sample Identifier	CLP Sample No.	Media/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
-26	GM111SS0516		Soil Gas/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM111	05/04/2016 09:35	Field Sample
-27	GM112IA0516		Indoor Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM112	05/03/2016 15:47	Field Sample
-28	GM112SS0516		Soil Gas/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM112	05/03/2016 15:10	Field Sample
-29	GM113IA0516		Indoor Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM113	05/04/2016 09:22	Field Sample
-30	GM113SS0516		Soil Gas/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM113	05/04/2016 08:43	Field Sample
-31	GM114IA0516		Indoor Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM114	05/03/2016 10:54	Field Sample
-32	GM114SS0516		Soil Gas/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM114	05/04/2016 10:13	Field Sample
-33	GM115IA0516		Indoor Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM115	05/03/2016 11:40	Field Sample
-34	GM115SS0516		Soil Gas/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM115	05/03/2016 11:08	Field Sample
-35	GM116IA0516		Indoor Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM116	05/04/2016 18:48	Field Sample

Special Instructions: Can #'s GM114SS0516=3939, GM115SS0516=6681, GM110SS0516=20655, GM111SS0516=20644, GM107SS0516=14673, GM122SS0516=3930, GM109SS0516=20648, GM117SS0516=4394, GM121SS0516=4506, GM112SS0516=2782, GM120SS0516=6678, GM118SS0516=4027, GM108SS0516=2778, GM01AA0516=6687, GM01AA20516=20646, GM01AA30516=4016, GM01AAD0516=20651, GM01AAD20516=4152, GM01AAD30516=5920, GM13AA0516=A9319, GM13AA20516=14674, GM13AA30516=2776, GM12AA0516=5935, GM12AA20516=3586, GM12AA30516=4083, GM11AA0516=3931, GM11AA20516=4669, GM11AA30516=L4875, GM110IA0516=4369, GM114IA0516=4156, GM115IA0516=20642, GM107SSS0516=20643, GM107IA0516=2768, GM107IAD0516=471, GM109IA0516=14675, GM112IA0516=3587, GM117IA0516=2773, GM120IA0516=20647, GM121IA0516=20659, GM113SS0516=4419, GM113IA0516=14676, GM111IA0516=20658, GM118IA0516=3920, GM122IA0516=5927, GM123SS0516=4340, GM123IA0516=20653, GM108SSS0516=2774, GM108IA0516=4555, GM108IAD0516=4168, GM119SS0516=4029, GM119IA0516=5930, GM116SS0516=14130, GM116IA0516=4672, GMTBA0516=4671, GMTBB0516=2786, GMTBC0516=4393

Analysis Key: VOA=(VOA) Volatile Organics

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	1. SESD	5/6/16 5:50 pm	Ron Beall EPA SESD ~~ASB~~	5-6-16 1751	Good

E16 2001

USEPA Region 4 COC (REGION COPY)
DateShipped: 5/6/2016
CarrierName: GOV Carrier
AirbillNo:

CHAIN OF CUSTODY RECORD
Grenada Soil Gas Study/MS
Project Number: 16-0323
Cooler #:

No: 05/05/16-0003
Lab: Region 4 Lab
Lab Contact: Mike Beall
Lab Phone: 706-355-8856

	Sample Identifier	CLP Sample No.	Media/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
-36	GM116SS0516		Soil Gas/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM116	05/04/2016 18:08	Field Sample
-37	GM117IA0516		Indoor Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM117	05/03/2016 16:48	Field Sample
-38	GM117SS0516		Soil Gas/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM117	05/03/2016 16:10	Field Sample
-39	GM118IA0516		Indoor Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM118	05/04/2016 12:06	Field Sample
-40	GM118SS0516		Soil Gas/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM118	05/04/2016 11:07	Field Sample
-41	GM119IA0516		Indoor Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM119	05/04/2016 17:55	Field Sample
-42	GM119SS0516		Soil Gas/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM119	05/04/2016 17:07	Field Sample
-20	GM11AA0516		Ambient Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM11	05/03/2016 07:50	Field Sample
-21	GM11AA20516		Ambient Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM11	05/04/2016 07:49	Field Sample
-22	GM11AA30516		Ambient Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM11	05/05/2016 07:55	Field Sample

Special Instructions: Can #'s GM114SS0516=3939, GM115SS0516=6681, GM110SS0516=20655, GM111SS0516=20644, GM107SS0516=14673, GM122SS0516=3930, GM109SS0516=20648, GM117SS0516=4394, GM121SS0516=4506, GM112SS0516=2782, GM120SS0516=6678, GM118SS0516=4027, GM108SS0516=2778, GM01AA0516=6687, GM01AA20516=20646, GM01AA30516=4016, GM01AAD0516=20651, GM01AAD20516=4152, GM01AAD30516=5920, GM13AA0516=A9319, GM13AA20516=14674, GM13AA30516=2776, GM12AA0516=5935, GM12AA20516=3586, GM12AA30516=4083, GM11AA0516=3931, GM11AA20516=4669, GM11AA30516=L4875, GM110IA0516=4369, GM114IA0516=4156, GM115IA0516=20642, GM107SSS0516=20643, GM107IA0516=2768, GM107IAD0516=471, GM109IA0516=14675, GM112IA0516=3587, GM117IA0516=2773, GM120IA0516=20647, GM121IA0516=20659, GM113SS0516=4419, GM113IA0516=14676, GM111IA0516=20658, GM118IA0516=3920, GM122IA0516=5927, GM123SS0516=4340, GM123IA0516=20653, GM108SSS0516=2774, GM108IA0516=4555, GM108IAD0516=4168, GM119SS0516=4029, GM119IA0516=5930, GM116SS0516=14130, GM116IA0516=4672, GMTBA0516=4671, GMTBB0516=2786, GMTBC0516=4393

Analysis Key: VOA=(VOA) Volatile Organics

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	SESD	5/6/16 5:50pm	EIA SESD ASB	5-6-16 1751	Good

E162001

USEPA Region 4 COC (REGION COPY)
DateShipped: 5/6/2016
CarrierName: GOV Carrier
AirbillNo:

CHAIN OF CUSTODY RECORD
Grenada Soil Gas Study/MS
Project Number: 16-0323
Cooler #:

No: 05/05/16-0003
Lab: Region 4 Lab
Lab Contact: Mike Beall
Lab Phone: 706-355-8856

	Sample Identifier	CLP Sample No.	Media/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
-46	GM120IA0516		Indoor Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM120	05/03/2016 17:40	Field Sample
-47	GM120SS0516		Soil Gas/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM120	05/03/2016 17:05	Field Sample
-48	GM121IA0516		Indoor Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM121	05/03/2016 18:38	Field Sample
-49	GM121SS0516		Soil Gas/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM121	05/03/2016 18:02	Field Sample
-50	GM122IA0516		Indoor Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM122	05/04/2016 12:37	Field Sample
-51	GM122SS0516		Soil Gas/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM122	05/04/2016 11:54	Field Sample
-52	GM123IA0516		Indoor Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM123	05/04/2016 13:30	Field Sample
-53	GM123SS0516		Soil Gas/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM123	05/04/2016 12:40	Field Sample
-43	GM12AA0516		Ambient Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM12	05/03/2016 07:37	Field Sample
-44	GM12AA20516		Ambient Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM12	05/04/2016 07:36	Field Sample

Special Instructions: Can #'s GM114SS0516=3939, GM115SS0516=6681, GM110SS0516=20655, GM111SS0516=20644, GM107SS0516=14673, GM122SS0516=3930, GM109SS0516=20648, GM117SS0516=4394, GM121SS0516=4506, GM112SS0516=2782, GM120SS0516=6678, GM118SS0516=4027, GM108SS0516=2778, GM01AA0516=6687, GM01AA20516=20646, GM01AA30516=4016, GM01AAD0516=20651, GM01AAD20516=4152, GM01AAD30516=5920, GM13AA0516=A9319, GM13AA20516=14674, GM13AA30516=2776, GM12AA0516=5935, GM12AA20516=3586, GM12AA30516=4083, GM11AA0516=3931, GM11AA20516=4669, GM11AA30516=L4875, GM110IA0516=4369, GM114IA0516=4156, GM115IA0516=20642, GM107SSS0516=20643, GM107IA0516=2768, GM107IAD0516=471, GM109IA0516=14675, GM112IA0516=3587, GM117IA0516=2773, GM120IA0516=20647, GM121IA0516=20659, GM113SS0516=4419, GM113IA0516=14676, GM111IA0516=20658, GM118IA0516=3920, GM122IA0516=5927, GM123SS0516=4340, GM123IA0516=20653, GM108SSS0516=2774, GM108IA0516=4555, GM108IAD0516=4168, GM119SS0516=4029, GM119IA0516=5930, GM116SS0516=14130, GM116IA0516=4672, GMTBA0516=4671, GMTBB0516=2786, GMTBC0516=4393

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: VOA=(VOA) Volatile Organics

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	SESD	5/6/16 5:50 pm	EPA SESA ASB	5-6-16 1751	Good

E162001

USEPA Region 4 COC (REGION COPY)
DateShipped: 5/6/2016
CarrierName: GOV Carrier
AirbillNo:

CHAIN OF CUSTODY RECORD
Grenada Soil Gas Study/MS
Project Number: 16-0323
Cooler #:

No: 05/05/16-0003
Lab: Region 4 Lab
Lab Contact: Mike Beall
Lab Phone: 706-355-8856

	Sample Identifier	CLP Sample No.	Media/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
-45	GM12AA30516		Ambient Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM12	05/05/2016 07:47	Field Sample
-54	GM13AA0516		Ambient Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM13	05/03/2016 07:25	Field Sample
-55	GM13AA20516		Ambient Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM13	05/04/2016 07:27	Field Sample
-56	GM13AA30516		Ambient Air/ Slagle, Tim	Comp.	VOA	A (1) ✓	GM13	05/05/2016 07:38	Field Sample
-01	GMTBA010516		Trip Blank Air/ Slagle, Tim	Grab	VOA	A (1) ✓	#R4DART#	05/02/2016 08:00	Trip Blank
-02	GMTBB010516		Trip Blank Air/ Slagle, Tim	Grab	VOA	A (1) ✓	#R4DART#	05/04/2016 08:00	Trip Blank

Special Instructions: Can #'s GM114SS0516=3939, GM115SS0516=6681, GM110SS0516=20655, GM111SS0516=20644, GM107SS0516=14673, GM122SS0516=3930, GM109SS0516=20648, GM117SS0516=4394, GM121SS0516=4506, GM112SS0516=2782, GM120SS0516=6678, GM118SS0516=4027, GM108SS0516=2778, GM01AA0516=6687, GM01AA20516=20646, GM01AA30516=4016, GM01AAD0516=20651, GM01AAD20516=4152, GM01AAD30516=5920, GM13AA0516=A9319, GM13AA20516=14674, GM13AA30516=2776, GM12AA0516=5935, GM12AA20516=3586, GM12AA30516=4083, GM11AA0516=3931, GM11AA20516=4669, GM11AA30516=L4875, GM110IA0516=4369, GM114IA0516=4156, GM115IA0516=20642, GM107SSS0516=20643, GM107IA0516=2768, GM107IAD0516=471, GM109IA0516=14675, GM112IA0516=3587, GM117IA0516=2773, GM120IA0516=20647, GM121IA0516=20659, GM113SS0516=4419, GM113IA0516=14676, GM111IA0516=20658, GM118IA0516=3920, GM122IA0516=5927, GM123SS0516=4340, GM123IA0516=20653, GM108SSS0516=2774, GM108IA0516=4555, GM108IAD0516=4168, GM119SS0516=4029, GM119IA0516=5930, GM116SS0516=14130, GM116IA0516=4672, GMTBA0516=4671, GMTBB0516=2786, GMTBC0516=4393

Analysis Key: VOA=(VOA) Volatile Organics

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	T. Slagle SESD	5/6/16 5:30pm	M Beall EPA SESD ASB	5-6-16 1751	Good

End of Report