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ERM NC, Inc.

5720 Brixham Hill Avenue,
Suite 120

Charlotte, NC 28277

(704) 541-8345

<http://www.erm.com>

JUL 23 2014

SITE ASSESSMENT,
REMEDICATION &
REVITALIZATION

July 22, 2014

Mr. Lucas Berresford
SCDHEC - State Voluntary Cleanup Section
Bureau of Land & Waste Management
2600 Bull Street
Columbia, SC 29201
803-896-4071



Subject: Vapor Intrusion Assessment Report
Joslyn Clark Controls, LLC. Facility
2013 West Meeting Street
Lancaster County, South Carolina

Dear Mr. Berresford:

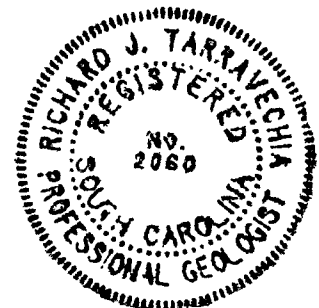
On behalf of Joslyn Clark Controls, LLC., ERM NC, Inc. is pleased to present one hard copy and one electronic copy of the Vapor Intrusion Assessment Report for the above referenced site.

Should you have any questions or comments, feel free to contact us at (704) 541-8345.

Sincerely,

Rick Tarravechia
Rick Tarravechia, P.G.
Partner-in Charge

Michael J. Pressley
Michael Pressley
Project Manager



enclosures

cc: Mr. Carl Grabinski - Joslyn Clark Controls

(29)

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July 21, 2014

Mr. Lucas Berresford
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Bureau of Land & Waste Management
2600 Bull Street
Columbia, SC 29201
803-896-4071



Subject: Vapor Intrusion Assessment Report
Joslyn Clark Controls, LLC Facility
2013 West Meeting Street
Lancaster County, South Carolina

Dear Mr. Berresford:

On behalf of Joslyn Clark Controls, LLC, ERM NC, Inc. (ERM) is pleased to present one hard copy and one electronic copy of the Vapor Intrusion (VI) Assessment Report for the above referenced site (Figure 1). The VI Assessment has been conducted in accordance with the approved VI Work Plan dated March 19, 2014 and approved April 25, 2014.

BACKGROUND

The subject property consists of 23 acres of land and is developed with two main buildings. The now vacant former manufacturing building was constructed in 1964 and consists of approximately 180,000 square feet of floor space. The now vacant former warehouse/storage building was constructed in 1967 and consists of approximately 14,400 square feet of floor space. The subject property has been used to manufacture electrical control equipment for fire safety purposes since its construction in 1964.

Site assessment activities at this facility have been ongoing since 2009. Groundwater at the site is impacted with elevated TCE concentrations of up to 3,200 ug/L. The apparent source area for the observed TCE in groundwater is beneath the existing building. A passive soil gas survey confirmed the presence of TCE and other organic vapors beneath the concrete slab of the building. As a result, SCDHEC requested a VI Assessment of sub slab and indoor air at the facility on February 5, 2014.

PURPOSE AND SCOPE

The purpose of this VI assessment is to quantify the presence of TCE and other volatile organics in sub slab soil gas, and to evaluate indoor air quality for these same compounds. Objectives set forth in the March 19, 2014 *Vapor Intrusion Work Plan* included:

- Collect seven indoor air samples from the building;
- Collect sub-slab soil gas samples from approximately the same locations as the indoor air samples (except for the office area where vinyl floor tiles have the potential to be asbestos-containing);
- Collect an ambient air sample outside the building;
- Analyze the air and soil gas samples for VOCs; and
- Evaluate and report the results.

Results of the Vapor Intrusion Assessment are summarized in the following sections.

VAPOR INTRUSION ASSESSMENT

The vapor intrusion assessment was conducted by ERM on May 8 and 9, 2014 using the procedures and methods outlined in ERM's VI Work Plan dated March 19, 2014. The assessment consisted of co-located sub-slab soil gas and indoor/ambient air samples at select locations (see Figure 3). The sub-slab sample tubing was installed and leak tested on May 8th and samples were collected on May 9th. Prior to sample collection, ERM conducted a visual survey inside the building near the sampling locations to identify features relevant to the indoor air sampling activities such as areas of higher/lower susceptibility to potential vapor intrusion (i.e. utility corridors, enclosed rooms), general information on building ventilation and products used in the facility that may serve as potential sources of VOCs. Results of the building survey have been used to evaluate the findings of the vapor intrusion assessment. A copy of the survey form is attached as Appendix A.

Field sampling forms were completed at each sampling location to document the setup and sampling details (see Appendix B).

Sub-Slab Soil Gas Sample Collection

Sub-slab samples were collected from six locations to assess the potential for vapor intrusion. Two of the six locations were chosen to correspond to the two areas of highest soil gas TCE concentrations from ERM's December 2012 passive soil gas survey. The remaining locations focused

on the overall source area and the general footprint of the building. Sample locations were installed on May 8th by methods described in the approved *Work Plan*, leak tested using helium as a tracer, and then allowed to equilibrate overnight.

On May 9th, soil gas sampling was performed using 6-liter SUMMA® canisters to collect whole air samples. The SUMMA canisters were equipped with flow regulators and to allow air samples to be collected over a 4-hour sampling period at rate not exceeding 200 ml/min. After completion of the sampling activities, the temporary probes were removed and the holes were filled with concrete.

Soil gas samples were analyzed by USEPA Method TO-15 for VOCs. The samples were submitted to Eurofins Air Toxics of Folsom, California (Air Toxics) for laboratory analysis.

Air Sample Collection

Seven indoor air samples were collected using 6-liter SUMMA® canisters on May 9th at locations corresponding with the sub-slab samples, except for the office area where a sub-slab sample was not collected due to potential asbestos material in the floor tiles.

One ambient air sample was also collected from an outdoor location approximately 100 feet northeast of the site building. Air samples were collected in accordance with the *Work Plan* and field data sheets were completed for each location (see Appendix A). Indoor and ambient air samples were analyzed using USEPA Method TO-15. The samples will be submitted to Air Toxics for laboratory analyses.

FINDINGS

A summary of the samples collected and analytical results generated as part of this sampling event are presented in Table 1 (sub slab soil gas results) and Table 2 (indoor air results). Indoor air results were compared to Industrial Air Regional Screening Levels (RSLs) established by the US EPA, dated May 2014. Sub slab soil gas samples were compared to the same RSLs, but at one order of magnitude higher concentration than for indoor air (assuming an attenuation factor of 10). This method is commensurate with the EPA VISL calculator which lists soil gas target values of one order magnitude higher than those for indoor air. The laboratory analytical report for the sampling event is included in Appendix C.

Soil Gas Results

Four soil gas samples exceeded a published RSL. TCE was the most prevalent VOC detected, and was detected in each sub-slab sample at concentrations ranging from 6.4 to 28,000 $\mu\text{g}/\text{m}^3$. The sub slab soil gas RSL threshold is 30 $\mu\text{g}/\text{m}^3$. The other compounds which exceeded a published RSL for sub slab soil gas included chloroform, 1,1-dichloroethene, and tetrachloroethene (PCE).

Indoor Air Results

VOCs were not detected above the laboratory reporting limits in indoor air samples or in the ambient outdoor sample, with the exception of one sample (AA-5) that contained hexane at 4.5 $\mu\text{g}/\text{m}^3$. This concentration is below the RSL of 3,100 $\mu\text{g}/\text{m}^3$. It should also be noted that hexane is not a compound of concern in soil or groundwater at the site, and appears to be related to an in-building source, or possibly a laboratory artifact.


TCE was detected in six of the seven indoor air samples at concentrations below the laboratory's reporting limit of 4.9 $\mu\text{g}/\text{m}^3$ but above the method detection limit of 0.93 $\mu\text{g}/\text{m}^3$. These TCE concentrations were J-flagged by the laboratory as estimated values. A note in the laboratory report indicated that these estimated sample results may be biased high. The J-flagged estimated values ranged from 1.7 $\mu\text{g}/\text{m}^3$ to 3.5 g/m^3 . The industrial RSL for TCE is 3.0 g/m^3 . The RSL was exceeded only in samples AA-1 and AA-2, located in the former production area (western side of the building). It should be noted that all of these detected concentrations are well below the OSHA permissible exposure limit (PEL) of 100 parts per million for TCE.

RECOMMENDATIONS


IRTC (2007) guidance suggests that the “worst-case” scenario for soil gas and indoor air concentrations would be in the colder, winter months. Therefore, an additional, confirmatory soil gas/indoor air survey is recommended for January, 2015. This confirmatory sampling event should also satisfy the SCDHEC letter dated May 15, 2014 which that it may be necessary to evaluate sub slab vapor to following the Groundwater Pilot Test to determine if the potential remedy will have an impact on vapor intrusion.

Should you have any questions or comments, feel free to contact us at (704) 541-8345.

Sincerely,


Rick Tarravechia, P.G.
Partner in Charge




Michael Pressley
Project Manager

cc: Mr. Carl Grabinski – Joslyn Clark Controls

Attachments

Figure 1 – Site Location Map

Figure 2 – Site Plan Map

Figure 3 – Vapor Intrusion Assessment Sample Location Map

Table 1 – Sub Slab Soil Gas Analytical Results

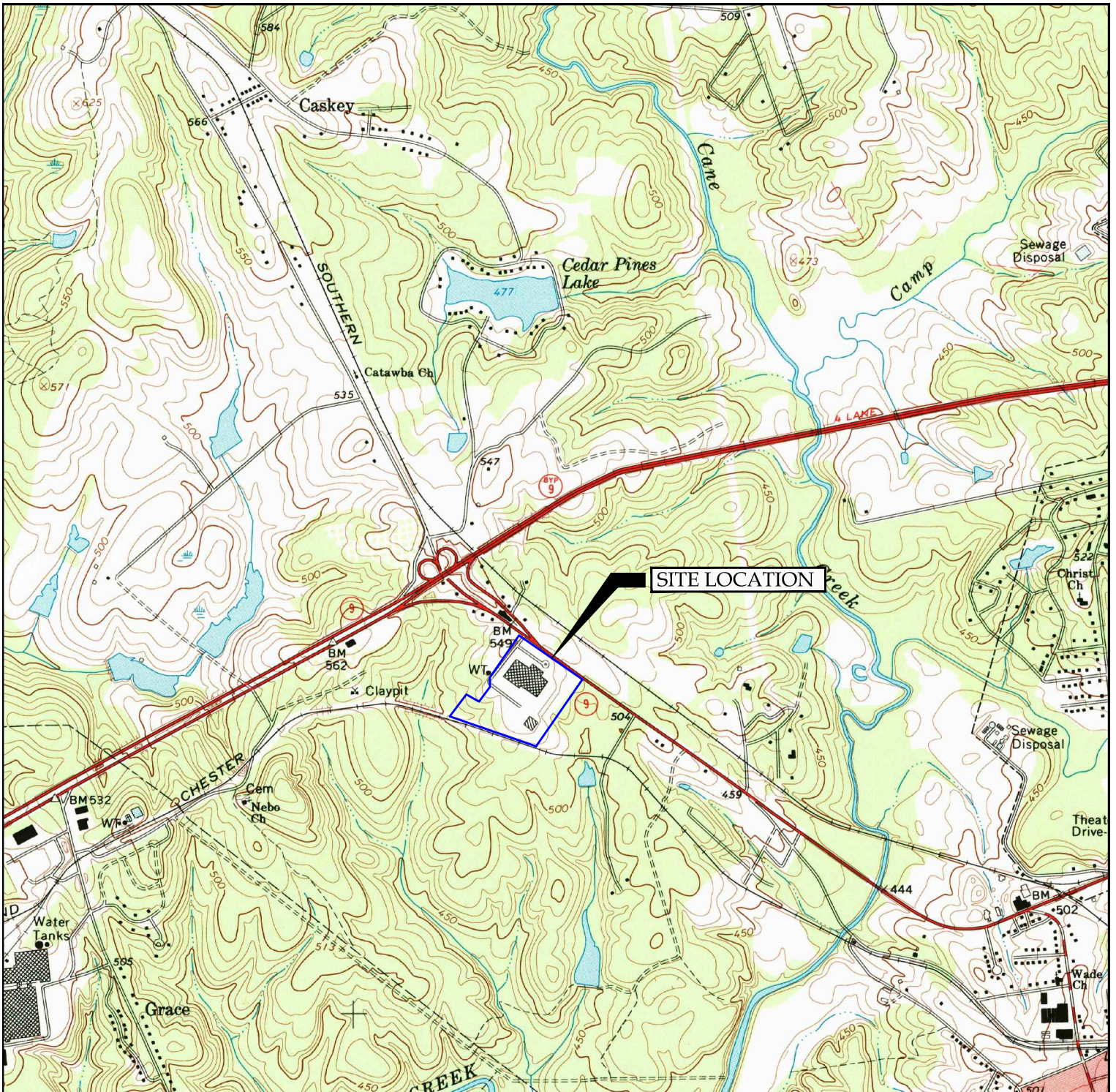
Table 2 – Indoor Air Analytical Results

Appendix A – Building Survey Form

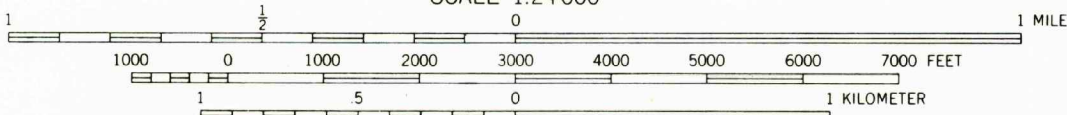
Appendix B – Field Sample Forms

Appendix C – Laboratory Analytical Data Sheets

Figures



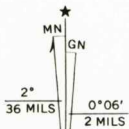
SCALE 1:24 000



QUADRANGLE LOCATION

CONTOUR INTERVAL 10 FEET
 DATUM IS MEAN SEA LEVEL
 ROAD CLASSIFICATION

- Primary highway, all weather, hard surface
- Secondary highway, all weather, hard surface
- Light-duty road, all weather, improved surface
- Unimproved road, fair or dry weather
- U. S. Route
- State Route



UTM GRID AND 1969 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

LANCASTER, S. C.
 N3437.5—W8045/7.5

1969

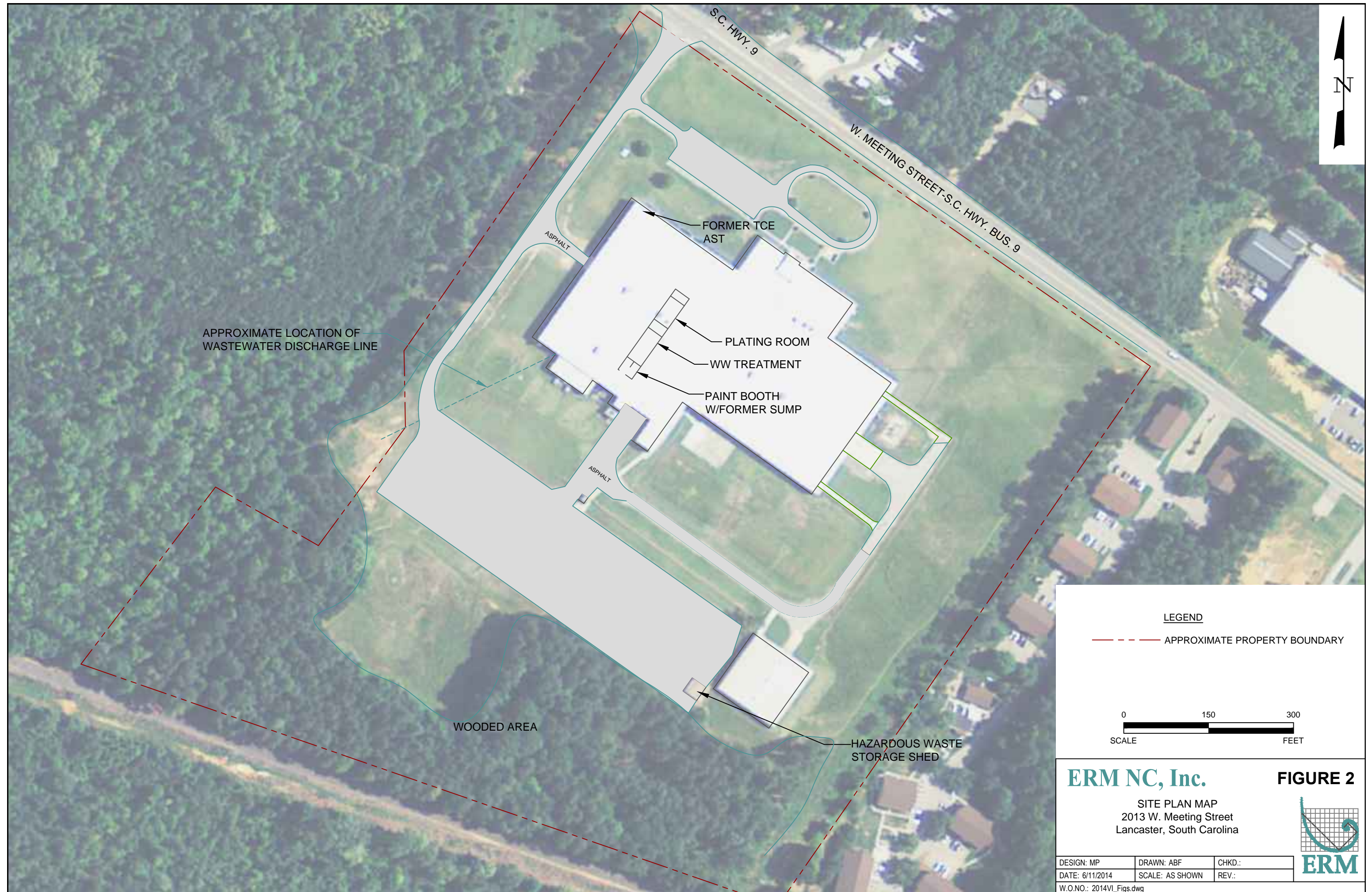
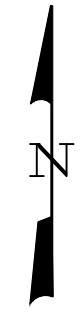
ERM NC, Inc.

FIGURE 1

SITE LOCATION PLAN
 2013 W. Meeting Street
 Lancaster, South Carolina



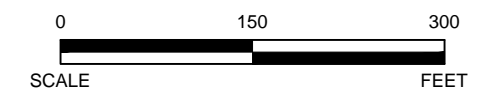
DESIGN: MP	DRAWN: ABF	CHKD.:
DATE: 6/11/2014	SCALE: AS SHOWN	REV.:
W.O.NO.: 2014VI_Figs.dwg		



APPROXIMATE LOCATION OF WASTEWATER DISCHARGE LINE

LEGEND

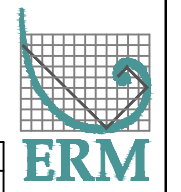
--- APPROXIMATE PROPERTY BOUNDARY



ERM NC, Inc.

FIGURE 2

SITE PLAN MAP
2013 W. Meeting Street
Lancaster, South Carolina



DESIGN: MP	DRAWN: ABF	CHKD.:
DATE: 6/11/2014	SCALE: AS SHOWN	REV.:
W.O.NO.: 2014VI_Figs.dwg		



LEGEND


- APPROXIMATE PROPERTY BOUNDARY
- CO-LOCATED SOIL GAS & INDOOR AIR SAMPLE
- ⊕ AIR SAMPLE ONLY

0 60 120
 SCALE FEET

ERM NC, Inc. **FIGURE 3**

VAPOR INTRUSION ASSESSMENT
 SAMPLE LOCATION MAP
 2013 W. Meeting Street
 Lancaster, South Carolina

DESIGN: MP	DRAWN: ABF	CHKD.:
DATE: 6/11/2014	SCALE: AS SHOWN	REV.:
W.O.NO.: 2014Workplan_Figs.dwg		



Tables

TABLE 1
SUB SLAB SOIL GAS ANALYTICAL RESULTS
JOSLYN CLARK FACILITY
LANCASTER, SOUTH CAROLINA

Sample ID	Date	VOCs in Air by EPA Method TO-15 (µg/m ³)															
		Acetone	Chloroform	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Ethanol	4-Ethyltoluene	2-Propanol	Hexane	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m,p-Xylene	o-Xylene
SS-1	5/9/2014	<110	16 J	3.1 J	69	<18	<34	<22	<45	<16	79	<25	6,400	<22	<22	<20	<20
SS-2	5/9/2014	<530	97 J	17 J	660	170	<170	<110	<220	<79	490	<120	28,000	<110	<110	<97	<97
SS-3	5/9/2014	67 J	240	97	94	<18	<34	62	35 J	<16	110	250	6,700	100	32	25	340
SS-4	5/9/2014	64	14	19	28	<7.2	36	<9.0	91	<6.4	38	<10	2,400	<9.0	<9.0	<7.9	<7.9
SS-5	5/9/2014	22	1.8 J	<3.6	<3.5	<3.5	8.5	<4.4	24	<3.2	6.1	<4.9	100	1.0 J	<4.4	1.4 J	<3.9
SS-6	5/9/2014	18 J	<4.4	<3.6	<3.5	<3.5	6.0 J	<4.4	6.8 J	<3.2	14	<4.9	6.4	0.75 J	<4.4	1.5 J	<3.9
Target Subslab Soil Gas Level for Industrial Air (µg/m ³) @ TCR = 1E-06 or HI=1		1,400,000	5.3	7.7	8,800	NE	NE	NE	310,000*	31,000	470	220,000	30	310	NE	4,400	4,400

Notes:

BOLD values indicate an exceedance of a published regulatory threshold

EPA VISL Calculator, VISL Tab, May 2014

µg/m³ = micrograms per cubic meter

< = Not Detected above laboratory detection limit; NE = Not Established

* = Value obtained using indoor air RSL with attenuation factor of 10

**TABLE 2
INDOOR AIR ANALYTICAL RESULTS
JOSLYN CLARK FACILITY
LANCASTER, SOUTH CAROLINA**

Sample ID	Date	VOCs in Air by EPA Method TO-15 (µg/m ³)															
		Acetone	Chloroform	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Ethanol	4-Ethyltoluene	2-Propanol	Hexane	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m,p-Xylene	o-Xylene
OA-1	5/9/2014	14 J	<4.6	<3.8	<3.7	<3.7	4.4 J	<4.6	<9.2	1.7 J	<6.3	<5.1	<5.0	<4.6	<4.6	<4.1	<4.1
AA-1	5/9/2014	20 J	<4.5	<3.7	<3.6	<3.6	6.5 J	<4.5	<9.0	1.8 J	<6.2	<5.0	3.5 J	0.74 J	<4.5	<4.0	<4.0
AA-2	5/9/2014	11 J	<4.4	<3.6	<3.5	<3.5	<6.7	<4.4	<8.8	1.2 J	<6.1	<4.9	3.3 J	<4.4	<4.4	<3.9	<3.9
AA-3	5/9/2014	15 J	<4.6	<3.8	<3.7	<3.7	<7.0	<4.6	<9.2	1.2 J	<6.3	<5.1	2.3 J	<4.6	<4.6	<4.1	<4.1
AA-4	5/9/2014	18 J	<4.5	<3.7	<3.6	<3.6	<6.9	<4.5	<9.0	0.84 J	<6.2	<5.0	2.2 J	<4.5	<4.5	<4.0	<4.0
AA-5	5/9/2014	19 J	<4.5	<3.7	<3.6	<3.6	4.0 J	<4.5	<9.0	4.5	<6.2	<5.0	1.4 J	<4.5	<4.5	<4.0	<4.0
AA-6	5/9/2014	17 J	<4.5	<3.7	<3.6	<3.6	<6.9	<4.5	2.8 J	0.69 J	<6.2	<5.0	1.7 J	<4.5	<4.5	<4.0	<4.0
AA-7	5/9/2014	17 J	<4.4	<3.6	<3.5	<3.5	3.7 J	<4.4	<8.8	0.83 J	<6.1	<4.9	<4.8	<4.4	<4.4	<3.9	<3.9
Regional Screening Level (RSL) for Industrial Air (µg/m ³) @ TCR = 1E-06 or HI=1		140,000	0.53	7.7	880	NE	NE	NE	31,000	3,100	47	22,000	3	31	NE	440	440

Notes:

BOLD values indicate an exceedance of a published regulatory threshold

EPA Regional Screening Levels for Chemical Contaminants at Superfund Sites, May 2014

µg/m³ = micrograms per cubic meter

< = Not Detected above laboratory detection limit; NE = Not Established

Attachment A
Building Survey

**FORM A-2
BUILDING INFORMATION FORM**

Date: 5/9/14 Time: 0905 Inspector: T. Fisher

Pictures Allowed: Yes No

Sample No. _____

Address: 2013 W. Meeting Street, Lancaster, SC

Contact Name: Vacant site

Years at this Address: NA

BUILDING TYPE: One story: Multi-story _____ Brick Siding _____ Stucco _____

WEATHER SEALS: General Condition: Good _____ Fair Poor (roof leaks)

BASEMENT: None finished Unfinished Depth below grade
Partial _____ _____
Full _____ _____
Crawl space na na _____

Foundation construction: Poured concrete Cinder block

Condition at floor/wall joint (if visible) Good

Floor drains, sump Good

Vents, fans, windows Good

Floor condition (type, cracks, drains) Good

Wall openings, utility pipe penetrations Few

Moisture Condition (dry, damp, wet) Dry

FURNACE: Location: _____
Type: gas Forced air
oil hot water
electric other _____

Blower capacity (if applicable) _____

Does furnace have outside combustion air vent? _____

Winter temperature setting: day NA night _____

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

(If yes, which rooms and capacities? NA _____

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

Floor drain/sump vent? No _____

Other ventilation? _____

Pictures Taken:

1.

NA

2.

3.

4.

5.

6.

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8.

9.

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20.

**FORM A-3
TENANT QUESTIONNAIRE**

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

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

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

0 to 5 days ago

6 to 10 days ago

More than 10 days ago

2. When was the carpet installed?

In the last six months

More than six months ago

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

In the last six months

More than six months ago

4. Are there any spot removers in the building?

Yes

No

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

Yes

No

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

Yes

No

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

latex caulk

latex paint

vinyl cove molding

linoleum tile

Large diameter telephone cable

Small diameter telephone cable

black rubber molding

vinyl edge molding

polystyrene foam insulation

cement block

treated metal roofing

8. Are there any pesticides in the building?

Yes No Unsure

9. Are there any spray insecticides in the building?

Yes No Unsure

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

Yes No

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

Yes No

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

enamel

Vinyl

Latex

Other

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

Garage

Basement

storage shed

Other *Pesticides applied by outside contractor*

These are not stored in the building.

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

Yes No

If yes, what type? _____

If yes, number _____

Attachment B
Field Sample Forms



Project #: 240887
 Project Name: Danaher, J Clark
 Location: Lancaster, Sc
 Project Manager: Michael Pressley

Sample Location:	Joslyn Clark	Collector(s):	Thomas Fisher
Address:	2013 W Meeting Street, Lancaster, SC		
PID Meter Used: (Model, Serial #)		Date:	5/9/2014

Sample ID: AA-1

Duplicate Sample? (Y/N) NA Duplicate Sample ID: NA

Type of sample (circle one): **INDOOR AIR** AMBIENT AIR SOIL GAS

Photograph description:

Summa® Information - Sampling Duration: 4 hour

Canister Serial Number: 25266	Flow Controller Number: 25266
Start Date/Time: 5/9/14/ 936	Stop Date/Time: 5/9/14/ 1340
Start Pressure: (inches Hg) 30.5	Stop Pressure: (inches Hg) 8"

Other Sampling Information:

Story/Level	First	Ground Surface (pavement, flooring)	Concrete	Depth of Vapor Probe (if applicable)	NA
Room	Production	Slab thickness (if applicable)	6"	Distance to building (if applicable)	NA
Air Temp (°C)	75 F	Potential Vapor Pathways Observed?	None	Intake Tubing used?	No
Intake Height Above Ground Level (m)	5'	PID Reading (ppm)?	NA	Distance to nearest Roadway (m)	
Noticeable Odor?	No	Barometric Pressure ("Hg or mb)		Other	

Interim Monitoring - Check pressure periodically during sampling event and record below:

Initial Sample Purge (soil gas only):	Time:	PID Reading (ppm):	Noticeable Odor? (Y/N)	Summa Pressure (inches Hg):
Reading #1:	1033	NA	N	24.5
Reading #2:	1137	NA	N	17.5
Reading #3:	1226	NA		13
Reading #4:				
Reading #5:				

Sketch of Sample Location:

See Map

Comments: Canister Leak Check Date: 5/7/14 Lab: Eurofins - Air Toxics

Signature: _____



Project #: 240887
 Project Name: Danaher, J Clark
 Location: Lancaster, Sc
 Project Manager: Michael Pressley

Sample Location:	Joslyn Clark	Collector(s):	Thomas Fisher
Address:	2013 W Meeting Street, Lancaster, SC		
PID Meter Used: (Model, Serial #)		Date:	5/9/2014

Sample ID: AA-2
 Duplicate Sample? (Y/N) N Duplicate Sample ID: N
 Type of sample (circle one): **INDOOR AIR** AMBIENT AIR SOIL GAS

Photograph description:

Summa® Information - Sampling Duration: 4 hr	
Canister Serial Number: 23921	Flow Controller Number: 23921
Start Date/Time: 5/9/14/ 943	Stop Date/Time: 5/9/14/ 1347
Start Pressure: (inches Hg) 30	Stop Pressure: (inches Hg) 7.5

Other Sampling Information:					
Story/Level	First	Ground Surface (pavement, flooring)	concrete	Depth of Vapor Probe (if applicable)	NA
Room	Plating	Slab thickness (if applicable)	6"	Distance to building (if applicable)	NA
Air Temp (°C)	75 F	Potential Vapor Pathways Observed?	None	Intake Tubing used?	No
Intake Height Above Ground Level (m)	5'	PID Reading (ppm)?	NA	Distance to nearest Roadway (m)	
Noticeable Odor?	No	Barometric Pressure (°Hg or mb)		Other	

Interim Monitoring - Check pressure periodically during sampling event and record below:

Initial Sample Purge (soil gas only):	Time:	PID Reading (ppm):	Noticeable Odor? (Y/N)	Summa Pressure (inches Hg):
Reading #1:	1033	NA	N	25
Reading #2:	1137	NA	N	17.5
Reading #3:				
Reading #4:				
Reading #5:				

Sketch of Sample Location:

See map

Comments: Canister Leak Check Date: 5/7/14 Lab: Eurofins - Air Toxics

Signature: _____



Project #: 240887
 Project Name: Danaher, J Clark
 Location: Lancaster, Sc
 Project Manager: Michael Pressley

Sample Location:	Joslyn Clark	Collector(s):	Thomas Fisher
Address:	2013 W Meeting Street, Lancaster, SC		
PID Meter Used: (Model, Serial #)		Date:	5/9/2014

Sample ID: AA-3
 Duplicate Sample? (Y/N) N Duplicate Sample ID: N
 Type of sample (circle one): INDOOR AIR AMBIENT AIR SOIL GAS

Photograph description:

Summa® Information - Sampling Duration:	4 hr
Canister Serial Number: 944	Flow Controller Number: 944
Start Date/Time: 5/9/14/ 950	Stop Date/Time: 5/9/14/ 1359
Start Pressure: (inches Hg) 30	Stop Pressure: (inches Hg) 8

Other Sampling Information:					
Story/Level	First	Ground Surface (pavement, flooring)	concrete	Depth of Vapor Probe (if applicable)	NA
Room	Storage	Slab thickness (if applicable)	6"	Distance to building (if applicable)	NA
Air Temp (°C)	75 F	Potential Vapor Pathways Observed?	None	Intake Tubing used?	No
Intake Height Above Ground Level (m)	5'	PID Reading (ppm)?	NA	Distance to nearest Roadway (m)	
Noticeable Odor?	no	Barometric Pressure (°Hg or mb)		Other	

Interim Monitoring - Check pressure periodically during sampling event and record below:

Initial Sample Purge (soil gas only):	Time:	PID Reading (ppm):	Noticeable Odor? (Y/N)	Summa Pressure (inches Hg):
Reading #1:	1033	NA	N	25.5
Reading #2:	1137	NA	N	19
Reading #3:	1246	NA	N	13
Reading #4:				
Reading #5:				

Sketch of Sample Location:

See map

Comments: Canister Leak Check Date: 5/7/14 Lab: Eurofins - Air Toxics

Signature: _____



Project #: 240887
 Project Name: Danaher, J Clark
 Location: Lancaster, Sc
 Project Manager: Michael Pressley

Sample Location:	Joslyn Clark	Collector(s):	Thomas Fisher
Address:	2013 W Meeting Street, Lancaster, SC		
PID Meter Used: (Model, Serial #)		Date:	5/9/2014

Sample ID: AA-4

Duplicate Sample? (Y/N) Duplicate Sample ID: N

Type of sample (circle one): **INDOOR AIR** AMBIENT AIR SOIL GAS

Photograph description:

Summa® Information - Sampling Duration: 4 hr

Canister Serial Number: 5763	Flow Controller Number: 5763
Start Date/Time: 5/9/14/ 1000	Stop Date/Time: 5/9/14/ 1407
Start Pressure: (inches Hg) 30	Stop Pressure: (inches Hg) 8

Other Sampling Information:

Story/Level	First	Ground Surface (pavement, flooring)	concrete	Depth of Vapor Probe (if applicable)	NA
Room	Production	Slab thickness (if applicable)	6"	Distance to building (if applicable)	NA
Air Temp (°C)	75 F	Potential Vapor Pathways Observed?	None	Intake Tubing used?	No
Intake Height Above Ground Level (m)	5'	PID Reading (ppm)?	NA	Distance to nearest Roadway (m)	
Noticeable Odor?		Barometric Pressure ("Hg or mb)		Other	

Interim Monitoring - Check pressure periodically during sampling event and record below:

Initial Sample Purge (soil gas only):	Time:	PID Reading (ppm):	Noticeable Odor? (Y/N)	Summa Pressure (inches Hg):
Reading #1:	1033	NA	N	26.5
Reading #2:	1137	NA	N	19.5
Reading #3:	1250	NA	N	13
Reading #4:				
Reading #5:				

Sketch of Sample Location:



Comments: Canister Leak Check Date: 5/7/14 Lab: Eurofins - Air Toxics

Signature: _____



Project #: 240887
 Project Name: Danaher, J Clark
 Location: Lancaster, Sc
 Project Manager: Michael Pressley

Sample Location:	Joslyn Clark	Collector(s):	Thomas Fisher
Address:	2013 W Meeting Street, Lancaster, SC		
PID Meter Used: (Model, Serial #)		Date:	5/9/2014

Sample ID: AA-5
 Duplicate Sample? (Y/N) N Duplicate Sample ID: N
 Type of sample (circle one): INDOOR AIR AMBIENT AIR SOIL GAS

Photograph description:

Summa® Information - Sampling Duration: 4 hr

Canister Serial Number: 12700 Flow Controller Number: 12700

Start Date/Time: 5/9/14/ 1008 Stop Date/Time: 5/9/14/ 1413

Start Pressure: (inches Hg) 30.5 Stop Pressure: (inches Hg) 8

Other Sampling Information:

Story/Level	First	Ground Surface (pavement, flooring)	concrete	Depth of Vapor Probe (if applicable)	NA
Room	Production	Slab thickness (if applicable)	6"	Distance to building (if applicable)	NA
Air Temp (°C)	75 F	Potential Vapor Pathways Observed?	None	Intake Tubing used?	No
Intake Height Above Ground Level (m)	5'	PID Reading (ppm)?	NA	Distance to nearest Roadway (m)	
Noticeable Odor?	No	Barometric Pressure (°Hg or mb)		Other	

Interim Monitoring - Check pressure periodically during sampling event and record below:

Initial Sample Purge (soil gas only):	Time:	PID Reading (ppm):	Noticeable Odor? (Y/N)	Summa Pressure (inches Hg):
Reading #1:	1033	NA	N	27.5
Reading #2:	1137	NA	N	20.5
Reading #3:	1255	NA	N	13
Reading #4:				
Reading #5:				

Sketch of Sample Location:

See map

Comments: Canister Leak Check Date: 5/7/14 Lab: Eurofins - Air Toxics

Signature: _____



Project #: 240887
 Project Name: Danaher, J Clark
 Location: Lancaster, Sc
 Project Manager: Michael Pressley

Sample Location:	Joslyn Clark	Collector(s):	Thomas Fisher
Address:	2013 W Meeting Street, Lancaster, SC		
PID Meter Used: (Model, Serial #)		Date:	5/9/2014

Sample ID: AA-6
 Duplicate Sample? (Y/N) N Duplicate Sample ID: N
 Type of sample (circle one): **INDOOR AIR** AMBIENT AIR SOIL GAS

Photograph description:

Summa® Information - Sampling Duration: 4 hr

Canister Serial Number: 4179 Flow Controller Number: 4179

Start Date/Time: 5/9/14/ 1013 Stop Date/Time: 5/9/14/ 1422

Start Pressure: (inches Hg) 30 Stop Pressure: (inches Hg) 8

Other Sampling Information:

Story/Level	First	Ground Surface (pavement, flooring)	concrete	Depth of Vapor Probe (if applicable)	NA
Room	Production	Slab thickness (if applicable)	6"	Distance to building (if applicable)	NA
Air Temp (°C)	75 F	Potential Vapor Pathways Observed?	None	Intake Tubing used?	No
Intake Height Above Ground Level (m)	5'	PID Reading (ppm)?	NA	Distance to nearest Roadway (m)	
Noticeable Odor?	No	Barometric Pressure (°Hg or mb)		Other	

Interim Monitoring - Check pressure periodically during sampling event and record below:

Initial Sample Purge (soil gas only):	Time:	PID Reading (ppm):	Noticeable Odor? (Y/N)	Summa Pressure (inches Hg):
Reading #1:	1033	NA	N	28
Reading #2:	1137	NA	N	21
Reading #3:	1302	NA	N	13.5
Reading #4:				
Reading #5:				

Sketch of Sample Location:

See map

Comments: Canister Leak Check Date: 5/7/14 Lab: Eurofins - Air Toxics

Signature: _____



Project #: 240887
 Project Name: Danaher, J Clark
 Location: Lancaster, Sc
 Project Manager: Michael Pressley

Sample Location:	Joslyn Clark	Collector(s):	Thomas Fisher
Address:	2013 W Meeting Street, Lancaster, SC		
PID Meter Used: (Model, Serial #)		Date:	5/9/2014

Sample ID: AA-7
 Duplicate Sample? (Y/N) N Duplicate Sample ID: N
 Type of sample (circle one): **INDOOR AIR** AMBIENT AIR SOIL GAS

Photograph description:

Summa® Information - Sampling Duration:	4 hr		
Canister Serial Number:	3747	Flow Controller Number:	3747
Start Date/Time:	5/9/14/ 1021	Stop Date/Time:	5/9/14/ 1430
Start Pressure: (inches Hg)	31	Stop Pressure: (inches Hg)	8.5

Other Sampling Information:					
Story/Level	First	Ground Surface (pavement, flooring)	Tile, concrete	Depth of Vapor Probe (if applicable)	NA
Room	Office	Slab thickness (if applicable)	6"	Distance to building (if applicable)	NA
Air Temp (°C)	75 F	Potential Vapor Pathways Observed?	None	Intake Tubing used?	No
Intake Height Above Ground Level (m)	4.5'	PID Reading (ppm)?	NA	Distance to nearest Roadway (m)	
Noticeable Odor?	No	Barometric Pressure (°Hg or mb)		Other	

Interim Monitoring - Check pressure periodically during sampling event and record below:

Initial Sample Purge (soil gas only):	Time:	PID Reading (ppm):	Noticeable Odor? (Y/N)	Summa Pressure (inches Hg):
Reading #1:	1137	NA	N	22
Reading #2:	1307	NA	N	14
Reading #3:				
Reading #4:				
Reading #5:				

Sketch of Sample Location:

See map

Comments: Canister Leak Check Date: 5/7/14 Lab: Eurofins - Air Toxics

Signature: _____



Project #: 240887
 Project Name: Danaher, J Clark
 Location: Lancaster, Sc
 Project Manager: Michael Pressley

Sample Location:	Joslyn Clark	Collector(s):	Thomas Fisher
Address:	2013 W Meeting Street, Lancaster, SC		
PID Meter Used: (Model, Serial #)		Date:	5/9/2014

Sample ID: OA-1

Duplicate Sample? (Y/N) Duplicate Sample ID: N

Type of sample (circle one): INDOOR AIR **AMBIENT AIR** SOIL GAS

Photograph description:

Summa® Information - Sampling Duration: 4 hr

Canister Serial Number: 9576	Flow Controller Number: 9576
Start Date/Time: 5/9/14/ 1025	Stop Date/Time: 5/9/14/ 1439
Start Pressure: (inches Hg) 31	Stop Pressure: (inches Hg) 8.5

Other Sampling Information:

Story/Level	outside	Ground Surface (pavement, flooring)	Grass	Depth of Vapor Probe (if applicable)	NA
Room	NA	Slab thickness (if applicable)	NA	Distance to building (if applicable)	
Air Temp (°C)	78-80 F	Potential Vapor Pathways Observed?	No	Intake Tubing used?	No
Intake Height Above Ground Level (m)	5'	PID Reading (ppm)?	NA	Distance to nearest Roadway (m)	
Noticeable Odor?	No	Barometric Pressure (°Hg or mb)		Other	

Interim Monitoring - Check pressure periodically during sampling event and record below:

Initial Sample Purge (soil gas only):	Time:	PID Reading (ppm):	Noticeable Odor? (Y/N)	Summa Pressure (inches Hg):
Reading #1:	1137	NA	N	22
Reading #2:	1312	NA	N	14
Reading #3:				
Reading #4:				
Reading #5:				

Sketch of Sample Location:

See Map

Comments: Canister Leak Check Date: 5/7/14 Lab: Eurofins - Air Toxics

Signature: _____



Project #: 240887
 Project Name: Danaher, J Clark
 Location: Lancaster, Sc
 Project Manager: Michael Pressley

Sample Location:	Joslyn Clark	Collector(s):	Thomas Fisher
Address:	2013 W Meeting Street, Lancaster, SC		
PID Meter Used: (Model, Serial #)		Date:	5/9/2014

Sample ID: SS-1

Duplicate Sample? (Y/N) Duplicate Sample ID: N

Type of sample (circle one): INDOOR AIR AMBIENT AIR **SOIL GAS**

Photograph description:

Summa® Information - Sampling Duration: 4 hr

Canister Serial Number: 14112	Flow Controller Number: 14112
Start Date/Time: 5/9/14/ 940	Stop Date/Time: 5/9/14/ 1341
Start Pressure: (inches Hg) 30.5	Stop Pressure: (inches Hg) 8.5

Other Sampling Information:

Story/Level	First	Ground Surface (pavement, flooring)	concrete	Depth of Vapor Probe (if applicable)	1 foot
Room	Production	Slab thickness (if applicable)	6"	Distance to building (if applicable)	NA
Air Temp (°C)	75 F	Potential Vapor Pathways Observed?	None	Intake Tubing used?	Yes - Teflon
Intake Height Above Ground Level (m)	sub-slab	PID Reading (ppm)?	NA	Distance to nearest Roadway (m)	
Noticeable Odor?	No	Barometric Pressure ("Hg or mb)		Other	

Interim Monitoring - Check pressure periodically during sampling event and record below:

Initial Sample Purge (soil gas only):	Time:	PID Reading (ppm):	Noticeable Odor? (Y/N)	Summa Pressure (inches Hg):
Reading #1:	1033	NA	N	25
Reading #2:	1137	NA	N	18
Reading #3:	1227	NA	N	14
Reading #4:				
Reading #5:				

Sketch of Sample Location:

See Map

Comments: Canister Leak Check Date: 5/7/14 Lab: Eurofins - Air Toxics

Signature: _____



Project #: 240887
 Project Name: Danaher, J Clark
 Location: Lancaster, Sc
 Project Manager: Michael Pressley

Sample Location:	Joslyn Clark	Collector(s):	Thomas Fisher
Address:	2013 W Meeting Street, Lancaster, SC		
PID Meter Used: (Model, Serial #)		Date:	5/9/2014

Sample ID: SS-2

Duplicate Sample? (Y/N) N Duplicate Sample ID: N

Type of sample (circle one): INDOOR AIR AMBIENT AIR **SOIL GAS**

Photograph description:

Summa® Information - Sampling Duration: 4 hr

Canister Serial Number: 13661 Flow Controller Number: 13661

Start Date/Time: 5/9/14/ 946 Stop Date/Time: 5/9/14/ 1348

Start Pressure: (inches Hg) 29 Stop Pressure: (inches Hg) 8

Other Sampling Information:

Story/Level	First	Ground Surface (pavement, flooring)	concrete	Depth of Vapor Probe (if applicable)	1 foot
Room	Plating	Slab thickness (if applicable)	~6"	Distance to building (if applicable)	NA
Air Temp (°C)	75 F	Potential Vapor Pathways Observed?	None	Intake Tubing used?	Yes Teflon
Intake Height Above Ground Level (m)	sub slab	PID Reading (ppm)?	NA	Distance to nearest Roadway (m)	
Noticeable Odor?	No	Barometric Pressure ("Hg or mb)		Other	

Interim Monitoring - Check pressure periodically during sampling event and record below:

Initial Sample Purge (soil gas only):	Time:	PID Reading (ppm):	Noticeable Odor? (Y/N)	Summa Pressure (inches Hg):
Reading #1:	1033	NA	N	24
Reading #2:	1137	NA	N	17.5
Reading #3:				
Reading #4:				
Reading #5:				

Sketch of Sample Location:

See Map

Comments: Canister Leak Check Date: 5/7/14 Lab: Eurofins - Air Toxics

Signature: _____



Project #: 240887
 Project Name: Danaher, J Clark
 Location: Lancaster, Sc
 Project Manager: Michael Pressley

Sample Location:	Joslyn Clark	Collector(s):	Thomas Fisher
Address:	2013 W Meeting Street, Lancaster, SC		
PID Meter Used: (Model, Serial #)		Date:	5/9/2014

Sample ID: SS-3
 Duplicate Sample? (Y/N) N Duplicate Sample ID: N
 Type of sample (circle one): INDOOR AIR AMBIENT AIR **SOIL GAS**

Photograph description:

Summa® Information - Sampling Duration: 4 hr

Canister Serial Number: 5585 Flow Controller Number: 5585

Start Date/Time: 5/9/14/ 958 Stop Date/Time: 5/9/14/ 1401

Start Pressure: (inches Hg) 31 Stop Pressure: (inches Hg) 8.5

Other Sampling Information:

Story/Level	First	Ground Surface (pavement, flooring)	concrete	Depth of Vapor Probe (if applicable)	1 foot
Room	Storage	Slab thickness (if applicable)	6"	Distance to building (if applicable)	NA
Air Temp (°C)	75 F	Potential Vapor Pathways Observed?	None	Intake Tubing used?	Yes Teflon
Intake Height Above Ground Level (m)	sub slab	PID Reading (ppm)?	NA	Distance to nearest Roadway (m)	
Noticeable Odor?	No	Barometric Pressure (°Hg or mb)		Other	

Interim Monitoring - Check pressure periodically during sampling event and record below:

Initial Sample Purge (soil gas only):	Time:	PID Reading (ppm):	Noticeable Odor? (Y/N)	Summa Pressure (inches Hg):
Reading #1:	1033	NA	N	27
Reading #2:	1137	NA	N	20
Reading #3:	1245	NA	N	14
Reading #4:				
Reading #5:				

Sketch of Sample Location:

See map

Comments: Canister Leak Check Date: 5/7/14 Lab: Eurofins - Air Toxics

Signature: _____



Project #: 240887
 Project Name: Danaher, J Clark
 Location: Lancaster, Sc
 Project Manager: Michael Pressley

Sample Location:	Joslyn Clark	Collector(s):	Thomas Fisher
Address:	2013 W Meeting Street, Lancaster, SC		
PID Meter Used: (Model, Serial #)		Date:	5/9/2014

Sample ID: SS-4

Duplicate Sample? (Y/N) N Duplicate Sample ID: N

Type of sample (circle one): INDOOR AIR AMBIENT AIR **SOIL GAS**

Photograph description:

Summa® Information - Sampling Duration: 4 hr

Canister Serial Number: 422 Flow Controller Number: 422

Start Date/Time: 5/9/14/ 1003 Stop Date/Time: 5/9/14/ 1410

Start Pressure: (inches Hg) 30 Stop Pressure: (inches Hg) 8.5

Other Sampling Information:

Story/Level	First	Ground Surface (pavement, flooring)	concrete	Depth of Vapor Probe (if applicable)	1 foot
Room	Production	Slab thickness (if applicable)	6"	Distance to building (if applicable)	NA
Air Temp (°C)	75 F	Potential Vapor Pathways Observed?	None	Intake Tubing used?	Yes Teflon
Intake Height Above Ground Level (m)	sub slab	PID Reading (ppm)?	NA	Distance to nearest Roadway (m)	
Noticeable Odor?	No	Barometric Pressure (°Hg or mb)		Other	

Interim Monitoring - Check pressure periodically during sampling event and record below:

Initial Sample Purge (soil gas only):	Time:	PID Reading (ppm):	Noticeable Odor? (Y/N)	Summa Pressure (inches Hg):
Reading #1:	1033	NA	N	26.5
Reading #2:	1137	NA	N	20
Reading #3:	1250	NA	N	14
Reading #4:				
Reading #5:				

Sketch of Sample Location:

See map

Comments: Canister Leak Check Date: 5/7/14 Lab: Eurofins - Air Toxics

Signature: _____



Project #: 240887
 Project Name: Danaher, J Clark
 Location: Lancaster, Sc
 Project Manager: Michael Pressley

Sample Location:	Joslyn Clark	Collector(s):	Thomas Fisher
Address:	2013 W Meeting Street, Lancaster, SC		
PID Meter Used: (Model, Serial #)		Date:	5/9/2014

Sample ID: SS-5

Duplicate Sample? (Y/N) N Duplicate Sample ID: N

Type of sample (circle one): INDOOR AIR AMBIENT AIR **SOIL GAS**

Photograph description:

Summa® Information - Sampling Duration: 4 hr

Canister Serial Number: 96114 Flow Controller Number: 96114

Start Date/Time: 5/9/14/ 1011 Stop Date/Time: 5/9/14/ 1415

Start Pressure: (inches Hg) 30 Stop Pressure: (inches Hg) 8

Other Sampling Information:

Story/Level	First	Ground Surface (pavement, flooring)	concrete	Depth of Vapor Probe (if applicable)	1 foot
Room	Production	Slab thickness (if applicable)	6"	Distance to building (if applicable)	NA
Air Temp (°C)	75 F	Potential Vapor Pathways Observed?	None	Intake Tubing used?	Yes Teflon
Intake Height Above Ground Level (m)	sub slab	PID Reading (ppm)?	NA	Distance to nearest Roadway (m)	
Noticeable Odor?	No	Barometric Pressure ("Hg or mb)		Other	

Interim Monitoring - Check pressure periodically during sampling event and record below:

Initial Sample Purge (soil gas only):	Time:	PID Reading (ppm):	Noticeable Odor? (Y/N)	Summa Pressure (inches Hg):
Reading #1:	1033	NA	N	27.5
Reading #2:	1137	NA	N	20.5
Reading #3:	1300	NA	N	12.5
Reading #4:				
Reading #5:				

Sketch of Sample Location:

See map

Comments: Canister Leak Check Date: 5/7/14 Lab: Eurofins - Air Toxics

Signature: _____



Project #: 240887
 Project Name: Danaher, J Clark
 Location: Lancaster, Sc
 Project Manager: Michael Pressley

Sample Location:	Joslyn Clark	Collector(s):	Thomas Fisher
Address:	2013 W Meeting Street, Lancaster, SC		
PID Meter Used: (Model, Serial #)		Date:	5/9/2014

Sample ID: SS-6

Duplicate Sample? (Y/N) N Duplicate Sample ID: N

Type of sample (circle one): INDOOR AIR AMBIENT AIR **SOIL GAS**

Photograph description:

Summa® Information - Sampling Duration: 4 hr

Canister Serial Number: 34197	Flow Controller Number: 34197
Start Date/Time: 5/9/14/ 1019	Stop Date/Time: 5/9/14/ 1419
Start Pressure: (inches Hg) 28.5	Stop Pressure: (inches Hg) 6.5

Other Sampling Information:

Story/Level	First	Ground Surface (pavement, flooring)	concrete	Depth of Vapor Probe (if applicable)	1 foot
Room	Production	Slab thickness (if applicable)	6"	Distance to building (if applicable)	NA
Air Temp (°C)	75 F	Potential Vapor Pathways Observed?	None	Intake Tubing used?	Yes Teflon
Intake Height Above Ground Level (m)	sub slab	PID Reading (ppm)?	NA	Distance to nearest Roadway (m)	
Noticeable Odor?	No	Barometric Pressure (°Hg or mb)		Other	

Interim Monitoring - Check pressure periodically during sampling event and record below:

Initial Sample Purge (soil gas only):	Time:	PID Reading (ppm):	Noticeable Odor? (Y/N)	Summa Pressure (inches Hg):
Reading #1:	1033	NA	N	26.5
Reading #2:	1137	NA	N	20
Reading #3:	1304	NA	N	11.5
Reading #4:				
Reading #5:				

Sketch of Sample Location:

See map

Comments: Canister Leak Check Date: 5/7/14 Lab: Eurofins - Air Toxics

Signature: _____

Attachment C
Laboratory Analytical Data
Sheets

6/27/2014

Mr. Michael Pressley
ERM-Southeast
15720 Brixham Hill Avenue
Suite 120
Charlotte NC 28277

Project Name: Joslyn Clark
Project #: 240887
Workorder #: 1405216R1

Dear Mr. Michael Pressley

The following report includes the data for the above referenced project for sample(s) received on 5/12/2014 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Ausha Scott
Project Manager

WORK ORDER #: 1405216R1

Work Order Summary

CLIENT:	Mr. Michael Pressley ERM-Southeast 15720 Brixham Hill Avenue Suite 120 Charlotte, NC 28277	BILL TO:	Accounts Payable-Raleigh ERM-Southeast 1130 Situs Court Suite 250 Raleigh, NC 27606
PHONE:	704-541-8345	P.O. #	
FAX:	704-541-8416	PROJECT #	240887 Joslyn Clark
DATE RECEIVED:	05/12/2014	CONTACT:	Ausha Scott
DATE COMPLETED:	05/27/2014		
DATE REISSUED:	06/27/2014		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	AA-1	TO-15	8.0 "Hg	5 psi
02A	SS-1	TO-15	8.0 "Hg	5 psi
03A	AA-2	TO-15	7.5 "Hg	5 psi
04A	SS-2	TO-15	7.5 "Hg	5 psi
05A	AA-3	TO-15	8.5 "Hg	5 psi
06A	SS-3	TO-15	8.0 "Hg	5 psi
07A	AA-4	TO-15	8.0 "Hg	5 psi
08A	SS-4	TO-15	8.0 "Hg	5 psi
09A	AA-5	TO-15	8.0 "Hg	5 psi
10A	SS-5	TO-15	7.5 "Hg	5 psi
11A	SS-6	TO-15	7.5 "Hg	5 psi
12A	AA-6	TO-15	8.0 "Hg	5 psi
13A	AA-7	TO-15	7.5 "Hg	5 psi
14A	OA-1	TO-15	8.5 "Hg	5 psi
15A	Lab Blank	TO-15	NA	NA
15B	Lab Blank	TO-15	NA	NA
16A	CCV	TO-15	NA	NA
16B	CCV	TO-15	NA	NA
17A	LCS	TO-15	NA	NA
17AA	LCSD	TO-15	NA	NA
17B	LCS	TO-15	NA	NA
17BB	LCSD	TO-15	NA	NA

CERTIFIED BY: 

DATE: 06/27/14

Technical Director

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-13-6, UT NELAP CA009332013-4, VA NELAP - 460197, WA NELAP - C935
 Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2013, Expiration date: 10/17/2014.

Eurofins Air Toxics Inc. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
EPA Method TO-15
ERM-Southeast
Workorder# 1405216R1**

Fourteen 6 Liter Summa Canister samples were received on May 12, 2014. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

The Chain of Custody (COC) was not relinquished properly. A signature was not provided by the field sampler on page 2 of 2.

Analytical Notes

Dilution was performed on samples SS-1, SS-2, SS-3 and SS-4 due to the presence of high level target species.

THE WORKORDER WAS REISSUED ON 06/27/2014 TO REPORT ESTIMATED VALUES FOR TARGET COMPOUND HITS THAT ARE BELOW THE REPORTING LIMIT BUT GREATER THAN THE METHOD DETECTION LIMIT. CONCENTRATIONS THAT ARE BELOW THE LEVEL AT WHICH THE CANISTER WAS CERTIFIED (0.2 PPBV FOR COMPOUNDS REPORTED AT 0.5 PPBV AND 0.8 PPBV FOR COMPOUNDS REPORTED AT 2.0 PPBV) MAY BE FALSE POSITIVES.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-1	Date/Time Analyzed:	5/22/14 03:13 PM
Lab ID:	1405216R1-01A	Dilution Factor:	1.83
Date/Time Collecte	5/9/14 01:40 PM	Instrument/Filename:	msd2.i / 2052208r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.78	3.0	5.0	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.74	3.8	6.3	Not Detected
1,1,2-Trichloroethane	79-00-5	1.2	3.0	5.0	Not Detected
1,1-Dichloroethane	75-34-3	0.47	2.2	3.7	Not Detected
1,1-Dichloroethene	75-35-4	1.4	2.2	3.6	Not Detected
1,2,4-Trichlorobenzene	120-82-1	5.7	14	27	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.70	2.7	4.5	0.74 J
1,2-Dibromoethane (EDB)	106-93-4	0.98	4.2	7.0	Not Detected
1,2-Dichlorobenzene	95-50-1	0.56	3.3	5.5	Not Detected
1,2-Dichloroethane	107-06-2	0.52	2.2	3.7	3.3 J
1,2-Dichloropropane	78-87-5	1.3	2.5	4.2	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.4	2.7	4.5	Not Detected
1,3-Butadiene	106-99-0	0.74	1.2	2.0	Not Detected
1,3-Dichlorobenzene	541-73-1	2.0	3.3	5.5	Not Detected
1,4-Dichlorobenzene	106-46-7	2.2	3.3	5.5	Not Detected
1,4-Dioxane	123-91-1	3.7	6.6	13	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.96	2.6	4.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	4.2	5.4	11	Not Detected
2-Hexanone	591-78-6	3.2	7.5	15	Not Detected
2-Propanol	67-63-0	2.7	4.5	9.0	Not Detected
3-Chloropropene	107-05-1	3.1	5.7	11	Not Detected
4-Ethyltoluene	622-96-8	1.0	2.7	4.5	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-1	Date/Time Analyzed:	5/22/14 03:13 PM
Lab ID:	1405216R1-01A	Dilution Factor:	1.83
Date/Time Collecte	5/9/14 01:40 PM	Instrument/File name:	msd2.i / 2052208r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
4-Methyl-2-pentanone	108-10-1	0.56	2.2	3.7	Not Detected
Acetone	67-64-1	4.6	4.3	22	20 J
alpha-Chlorotoluene	100-44-7	1.0	2.8	4.7	Not Detected
Benzene	71-43-2	0.50	1.8	2.9	1.1 J
Bromodichloromethane	75-27-4	0.81	3.7	6.1	Not Detected
Bromoform	75-25-2	1.3	5.7	9.4	Not Detected
Bromomethane	74-83-9	4.0	7.1	36	Not Detected
Carbon Disulfide	75-15-0	5.1	5.7	11	Not Detected
Carbon Tetrachloride	56-23-5	0.86	3.4	5.8	Not Detected
Chlorobenzene	108-90-7	0.46	2.5	4.2	Not Detected
Chloroethane	75-00-3	3.6	4.8	9.6	Not Detected
Chloroform	67-66-3	0.72	2.7	4.5	Not Detected
Chloromethane	74-87-3	2.8	3.8	19	Not Detected
cis-1,2-Dichloroethene	156-59-2	1.4	2.2	3.6	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.49	2.5	4.2	Not Detected
Cumene	98-82-8	0.97	2.7	4.5	Not Detected
Cyclohexane	110-82-7	0.67	1.9	3.1	Not Detected
Dibromochloromethane	124-48-1	1.3	4.7	7.8	Not Detected
Ethanol	64-17-5	3.7	5.8	6.9	6.5 J
Ethyl Benzene	100-41-4	0.79	2.4	4.0	Not Detected
Freon 11	75-69-4	0.64	3.1	5.1	Not Detected
Freon 113	76-13-1	1.8	4.2	7.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-1	Date/Time Analyzed:	5/22/14 03:13 PM
Lab ID:	1405216R1-01A	Dilution Factor:	1.83
Date/Time Collecte	5/9/14 01:40 PM	Instrument/Filename:	msd2.i / 2052208r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 114	76-14-2	1.2	3.8	6.4	Not Detected
Freon 12	75-71-8	0.49	2.7	4.5	2.6 J
Heptane	142-82-5	0.64	2.2	3.7	Not Detected
Hexachlorobutadiene	87-68-3	9.4	20	39	Not Detected
Hexane	110-54-3	0.65	1.9	3.2	1.8 J
m,p-Xylene	108-38-3	1.3	2.4	4.0	Not Detected
Methyl tert-butyl ether	1634-04-4	0.33	2.0	3.3	Not Detected
Methylene Chloride	75-09-2	3.1	6.4	32	Not Detected
o-Xylene	95-47-6	0.66	2.4	4.0	Not Detected
Propylbenzene	103-65-1	0.67	2.7	4.5	Not Detected
Styrene	100-42-5	0.49	2.3	3.9	Not Detected
Tetrachloroethene	127-18-4	1.2	3.7	6.2	Not Detected
Tetrahydrofuran	109-99-9	0.86	1.6	2.7	Not Detected
Toluene	108-88-3	0.52	2.1	3.4	1.1 J
trans-1,2-Dichloroethene	156-60-5	0.98	2.2	3.6	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.94	2.5	4.2	Not Detected
Trichloroethene	79-01-6	0.93	3.0	4.9	3.5 J
Vinyl Chloride	75-01-4	0.53	1.4	2.3	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-1	Date/Time Analyzed:	5/22/14 03:13 PM
Lab ID:	1405216R1-01A	Dilution Factor:	1.83
Date/Time Collecte	5/9/14 01:40 PM	Instrument/Filename:	msd2.i / 2052208r1
Media:	6 Liter Summa Canister		

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	93
4-Bromofluorobenzene	460-00-4	70-130	102
Toluene-d8	2037-26-5	70-130	98

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-1	Date/Time Analyzed:	5/22/14 08:47 PM
Lab ID:	1405216R1-02A	Dilution Factor:	9.15
Date/Time Collecte	5/9/14 01:41 PM	Instrument/Filename:	msd2.i / 2052215r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	3.9	15	25	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	3.7	19	31	Not Detected
1,1,2-Trichloroethane	79-00-5	6.2	15	25	Not Detected
1,1-Dichloroethane	75-34-3	2.4	11	18	3.1 J
1,1-Dichloroethene	75-35-4	7.2	11	18	69
1,2,4-Trichlorobenzene	120-82-1	28	68	140	Not Detected
1,2,4-Trimethylbenzene	95-63-6	3.5	13	22	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	4.9	21	35	Not Detected
1,2-Dichlorobenzene	95-50-1	2.8	16	28	Not Detected
1,2-Dichloroethane	107-06-2	2.6	11	18	Not Detected
1,2-Dichloropropane	78-87-5	6.4	13	21	Not Detected
1,3,5-Trimethylbenzene	108-67-8	7.0	13	22	Not Detected
1,3-Butadiene	106-99-0	3.7	6.1	10	Not Detected
1,3-Dichlorobenzene	541-73-1	9.8	16	28	Not Detected
1,4-Dichlorobenzene	106-46-7	11	16	28	Not Detected
1,4-Dioxane	123-91-1	18	33	66	Not Detected
2,2,4-Trimethylpentane	540-84-1	4.8	13	21	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	21	27	54	Not Detected
2-Hexanone	591-78-6	16	37	75	Not Detected
2-Propanol	67-63-0	14	22	45	Not Detected
3-Chloropropene	107-05-1	16	29	57	Not Detected
4-Ethyltoluene	622-96-8	5.0	13	22	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-1	Date/Time Analyzed:	5/22/14 08:47 PM
Lab ID:	1405216R1-02A	Dilution Factor:	9.15
Date/Time Collecte	5/9/14 01:41 PM	Instrument/Filename:	msd2.i / 2052215r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
4-Methyl-2-pentanone	108-10-1	2.8	11	19	2.8 J
Acetone	67-64-1	23	22	110	Not Detected
alpha-Chlorotoluene	100-44-7	5.0	14	24	Not Detected
Benzene	71-43-2	2.5	8.8	15	Not Detected
Bromodichloromethane	75-27-4	4.0	18	31	Not Detected
Bromoform	75-25-2	6.5	28	47	Not Detected
Bromomethane	74-83-9	20	36	180	Not Detected
Carbon Disulfide	75-15-0	25	28	57	Not Detected
Carbon Tetrachloride	56-23-5	4.3	17	29	Not Detected
Chlorobenzene	108-90-7	2.3	13	21	Not Detected
Chloroethane	75-00-3	18	24	48	Not Detected
Chloroform	67-66-3	3.6	13	22	16 J
Chloromethane	74-87-3	14	19	94	Not Detected
cis-1,2-Dichloroethene	156-59-2	6.9	11	18	Not Detected
cis-1,3-Dichloropropene	10061-01-5	2.4	12	21	Not Detected
Cumene	98-82-8	4.8	13	22	Not Detected
Cyclohexane	110-82-7	3.3	9.4	16	Not Detected
Dibromochloromethane	124-48-1	6.6	23	39	Not Detected
Ethanol	64-17-5	19	29	34	Not Detected
Ethyl Benzene	100-41-4	3.9	12	20	Not Detected
Freon 11	75-69-4	3.2	15	26	Not Detected
Freon 113	76-13-1	9.3	21	35	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-1	Date/Time Analyzed:	5/22/14 08:47 PM
Lab ID:	1405216R1-02A	Dilution Factor:	9.15
Date/Time Collecte	5/9/14 01:41 PM	Instrument/Filename:	msd2.i / 2052215r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 114	76-14-2	5.8	19	32	Not Detected
Freon 12	75-71-8	2.4	14	23	Not Detected
Heptane	142-82-5	3.2	11	19	Not Detected
Hexachlorobutadiene	87-68-3	47	98	200	Not Detected
Hexane	110-54-3	3.2	9.7	16	Not Detected
m,p-Xylene	108-38-3	6.6	12	20	Not Detected
Methyl tert-butyl ether	1634-04-4	1.6	9.9	16	Not Detected
Methylene Chloride	75-09-2	16	32	160	Not Detected
o-Xylene	95-47-6	3.3	12	20	Not Detected
Propylbenzene	103-65-1	3.4	13	22	Not Detected
Styrene	100-42-5	2.4	12	19	Not Detected
Tetrachloroethene	127-18-4	6.2	19	31	79
Tetrahydrofuran	109-99-9	4.3	8.1	13	Not Detected
Toluene	108-88-3	2.6	10	17	Not Detected
trans-1,2-Dichloroethene	156-60-5	4.9	11	18	Not Detected
trans-1,3-Dichloropropene	10061-02-6	4.7	12	21	Not Detected
Trichloroethene	79-01-6	4.6	15	24	6400
Vinyl Chloride	75-01-4	2.6	7.0	12	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-1	Date/Time Analyzed:	5/22/14 08:47 PM
Lab ID:	1405216R1-02A	Dilution Factor:	9.15
Date/Time Collecte	5/9/14 01:41 PM	Instrument/Filename:	msd2.i / 2052215r1
Media:	6 Liter Summa Canister		

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	97
4-Bromofluorobenzene	460-00-4	70-130	100
Toluene-d8	2037-26-5	70-130	98

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-2	Date/Time Analyzed:	5/22/14 03:53 PM
Lab ID:	1405216R1-03A	Dilution Factor:	1.79
Date/Time Collecte	5/9/14 01:47 PM	Instrument/Filename:	msd2.i / 2052209r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.77	2.9	4.9	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.72	3.7	6.1	Not Detected
1,1,2-Trichloroethane	79-00-5	1.2	2.9	4.9	Not Detected
1,1-Dichloroethane	75-34-3	0.46	2.2	3.6	Not Detected
1,1-Dichloroethene	75-35-4	1.4	2.1	3.5	Not Detected
1,2,4-Trichlorobenzene	120-82-1	5.6	13	26	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.68	2.6	4.4	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.96	4.1	6.9	Not Detected
1,2-Dichlorobenzene	95-50-1	0.55	3.2	5.4	Not Detected
1,2-Dichloroethane	107-06-2	0.51	2.2	3.6	2.8 J
1,2-Dichloropropane	78-87-5	1.2	2.5	4.1	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.4	2.6	4.4	Not Detected
1,3-Butadiene	106-99-0	0.72	1.2	2.0	Not Detected
1,3-Dichlorobenzene	541-73-1	1.9	3.2	5.4	Not Detected
1,4-Dichlorobenzene	106-46-7	2.2	3.2	5.4	Not Detected
1,4-Dioxane	123-91-1	3.6	6.4	13	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.94	2.5	4.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	4.1	5.3	10	Not Detected
2-Hexanone	591-78-6	3.2	7.3	15	Not Detected
2-Propanol	67-63-0	2.7	4.4	8.8	Not Detected
3-Chloropropene	107-05-1	3.0	5.6	11	Not Detected
4-Ethyltoluene	622-96-8	0.98	2.6	4.4	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-2	Date/Time Analyzed:	5/22/14 03:53 PM
Lab ID:	1405216R1-03A	Dilution Factor:	1.79
Date/Time Collecte	5/9/14 01:47 PM	Instrument/File Name:	msd2.i / 2052209r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
4-Methyl-2-pentanone	108-10-1	0.55	2.2	3.7	Not Detected
Acetone	67-64-1	4.5	4.2	21	11 J
alpha-Chlorotoluene	100-44-7	0.98	2.8	4.6	Not Detected
Benzene	71-43-2	0.48	1.7	2.8	0.85 J
Bromodichloromethane	75-27-4	0.79	3.6	6.0	Not Detected
Bromoform	75-25-2	1.3	5.6	9.2	Not Detected
Bromomethane	74-83-9	3.9	7.0	35	Not Detected
Carbon Disulfide	75-15-0	5.0	5.6	11	Not Detected
Carbon Tetrachloride	56-23-5	0.84	3.4	5.6	Not Detected
Chlorobenzene	108-90-7	0.44	2.5	4.1	Not Detected
Chloroethane	75-00-3	3.5	4.7	9.4	Not Detected
Chloroform	67-66-3	0.71	2.6	4.4	Not Detected
Chloromethane	74-87-3	2.8	3.7	18	Not Detected
cis-1,2-Dichloroethene	156-59-2	1.3	2.1	3.5	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.48	2.4	4.1	Not Detected
Cumene	98-82-8	0.94	2.6	4.4	Not Detected
Cyclohexane	110-82-7	0.65	1.8	3.1	Not Detected
Dibromochloromethane	124-48-1	1.3	4.6	7.6	Not Detected
Ethanol	64-17-5	3.6	5.7	6.7	Not Detected
Ethyl Benzene	100-41-4	0.77	2.3	3.9	Not Detected
Freon 11	75-69-4	0.63	3.0	5.0	Not Detected
Freon 113	76-13-1	1.8	4.1	6.8	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-2	Date/Time Analyzed:	5/22/14 03:53 PM
Lab ID:	1405216R1-03A	Dilution Factor:	1.79
Date/Time Collecte	5/9/14 01:47 PM	Instrument/Filename:	msd2.i / 2052209r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 114	76-14-2	1.1	3.8	6.2	Not Detected
Freon 12	75-71-8	0.48	2.6	4.4	2.8 J
Heptane	142-82-5	0.62	2.2	3.7	Not Detected
Hexachlorobutadiene	87-68-3	9.2	19	38	Not Detected
Hexane	110-54-3	0.64	1.9	3.2	1.2 J
m,p-Xylene	108-38-3	1.3	2.3	3.9	Not Detected
Methyl tert-butyl ether	1634-04-4	0.32	1.9	3.2	Not Detected
Methylene Chloride	75-09-2	3.1	6.2	31	Not Detected
o-Xylene	95-47-6	0.64	2.3	3.9	Not Detected
Propylbenzene	103-65-1	0.66	2.6	4.4	Not Detected
Styrene	100-42-5	0.48	2.3	3.8	Not Detected
Tetrachloroethene	127-18-4	1.2	3.6	6.1	Not Detected
Tetrahydrofuran	109-99-9	0.84	1.6	2.6	Not Detected
Toluene	108-88-3	0.51	2.0	3.4	0.68 J
trans-1,2-Dichloroethene	156-60-5	0.96	2.1	3.5	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.92	2.4	4.1	Not Detected
Trichloroethene	79-01-6	0.91	2.9	4.8	3.3 J
Vinyl Chloride	75-01-4	0.52	1.4	2.3	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-2	Date/Time Analyzed:	5/22/14 03:53 PM
Lab ID:	1405216R1-03A	Dilution Factor:	1.79
Date/Time Collecte	5/9/14 01:47 PM	Instrument/Filename:	msd2.i / 2052209r1
Media:	6 Liter Summa Canister		

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	93
4-Bromofluorobenzene	460-00-4	70-130	97
Toluene-d8	2037-26-5	70-130	96

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-2	Date/Time Analyzed:	5/23/14 08:00 AM
Lab ID:	1405216R1-04A	Dilution Factor:	44.8
Date/Time Collecte	5/9/14 01:48 PM	Instrument/Filename:	msd2.i / 2052219r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	19	73	120	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	18	92	150	Not Detected
1,1,2-Trichloroethane	79-00-5	30	73	120	35 J
1,1-Dichloroethane	75-34-3	12	54	91	17 J
1,1-Dichloroethene	75-35-4	35	53	89	660
1,2,4-Trichlorobenzene	120-82-1	140	330	660	Not Detected
1,2,4-Trimethylbenzene	95-63-6	17	66	110	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	24	100	170	Not Detected
1,2-Dichlorobenzene	95-50-1	14	81	130	Not Detected
1,2-Dichloroethane	107-06-2	13	54	91	44 J
1,2-Dichloropropane	78-87-5	31	62	100	Not Detected
1,3,5-Trimethylbenzene	108-67-8	34	66	110	Not Detected
1,3-Butadiene	106-99-0	18	30	50	Not Detected
1,3-Dichlorobenzene	541-73-1	48	81	130	Not Detected
1,4-Dichlorobenzene	106-46-7	54	81	130	Not Detected
1,4-Dioxane	123-91-1	90	160	320	Not Detected
2,2,4-Trimethylpentane	540-84-1	24	63	100	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	100	130	260	Not Detected
2-Hexanone	591-78-6	79	180	370	Not Detected
2-Propanol	67-63-0	67	110	220	Not Detected
3-Chloropropene	107-05-1	76	140	280	Not Detected
4-Ethyltoluene	622-96-8	25	66	110	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-2	Date/Time Analyzed:	5/23/14 08:00 AM
Lab ID:	1405216R1-04A	Dilution Factor:	44.8
Date/Time Collecte	5/9/14 01:48 PM	Instrument/Filename:	msd2.i / 2052219r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
4-Methyl-2-pentanone	108-10-1	14	55	92	Not Detected
Acetone	67-64-1	110	110	530	Not Detected
alpha-Chlorotoluene	100-44-7	25	70	120	Not Detected
Benzene	71-43-2	12	43	72	Not Detected
Bromodichloromethane	75-27-4	20	90	150	Not Detected
Bromoform	75-25-2	32	140	230	Not Detected
Bromomethane	74-83-9	97	170	870	Not Detected
Carbon Disulfide	75-15-0	120	140	280	Not Detected
Carbon Tetrachloride	56-23-5	21	84	140	Not Detected
Chlorobenzene	108-90-7	11	62	100	Not Detected
Chloroethane	75-00-3	87	120	240	Not Detected
Chloroform	67-66-3	18	66	110	97 J
Chloromethane	74-87-3	70	92	460	Not Detected
cis-1,2-Dichloroethene	156-59-2	34	53	89	170
cis-1,3-Dichloropropene	10061-01-5	12	61	100	Not Detected
Cumene	98-82-8	24	66	110	Not Detected
Cyclohexane	110-82-7	16	46	77	Not Detected
Dibromochloromethane	124-48-1	32	110	190	Not Detected
Ethanol	64-17-5	91	140	170	Not Detected
Ethyl Benzene	100-41-4	19	58	97	Not Detected
Freon 11	75-69-4	16	76	120	Not Detected
Freon 113	76-13-1	45	100	170	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-2	Date/Time Analyzed:	5/23/14 08:00 AM
Lab ID:	1405216R1-04A	Dilution Factor:	44.8
Date/Time Collecte	5/9/14 01:48 PM	Instrument/Filename:	msd2.i / 2052219r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 114	76-14-2	28	94	160	Not Detected
Freon 12	75-71-8	12	66	110	Not Detected
Heptane	142-82-5	16	55	92	Not Detected
Hexachlorobutadiene	87-68-3	230	480	960	Not Detected
Hexane	110-54-3	16	47	79	Not Detected
m,p-Xylene	108-38-3	32	58	97	Not Detected
Methyl tert-butyl ether	1634-04-4	8.1	48	81	Not Detected
Methylene Chloride	75-09-2	77	160	780	Not Detected
o-Xylene	95-47-6	16	58	97	Not Detected
Propylbenzene	103-65-1	16	66	110	Not Detected
Styrene	100-42-5	12	57	95	Not Detected
Tetrachloroethene	127-18-4	30	91	150	490
Tetrahydrofuran	109-99-9	21	40	66	Not Detected
Toluene	108-88-3	13	51	84	Not Detected
trans-1,2-Dichloroethene	156-60-5	24	53	89	40 J
trans-1,3-Dichloropropene	10061-02-6	23	61	100	Not Detected
Trichloroethene	79-01-6	23	72	120	28000
Vinyl Chloride	75-01-4	13	34	57	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-2	Date/Time Analyzed:	5/23/14 08:00 AM
Lab ID:	1405216R1-04A	Dilution Factor:	44.8
Date/Time Collecte	5/9/14 01:48 PM	Instrument/Filename:	msd2.i / 2052219r1
Media:	6 Liter Summa Canister		

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	98
4-Bromofluorobenzene	460-00-4	70-130	99
Toluene-d8	2037-26-5	70-130	99

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-3	Date/Time Analyzed:	5/22/14 04:39 PM
Lab ID:	1405216R1-05A	Dilution Factor:	1.87
Date/Time Collecte	5/9/14 01:59 PM	Instrument/File Name:	msd2.i / 2052210r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.80	3.1	5.1	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.75	3.8	6.4	Not Detected
1,1,2-Trichloroethane	79-00-5	1.3	3.1	5.1	Not Detected
1,1-Dichloroethane	75-34-3	0.48	2.3	3.8	Not Detected
1,1-Dichloroethene	75-35-4	1.5	2.2	3.7	Not Detected
1,2,4-Trichlorobenzene	120-82-1	5.8	14	28	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.71	2.8	4.6	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	1.0	4.3	7.2	Not Detected
1,2-Dichlorobenzene	95-50-1	0.58	3.4	5.6	Not Detected
1,2-Dichloroethane	107-06-2	0.53	2.3	3.8	2.9 J
1,2-Dichloropropane	78-87-5	1.3	2.6	4.3	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.4	2.8	4.6	Not Detected
1,3-Butadiene	106-99-0	0.75	1.2	2.1	Not Detected
1,3-Dichlorobenzene	541-73-1	2.0	3.4	5.6	Not Detected
1,4-Dichlorobenzene	106-46-7	2.2	3.4	5.6	Not Detected
1,4-Dioxane	123-91-1	3.8	6.7	13	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.98	2.6	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	4.3	5.5	11	Not Detected
2-Hexanone	591-78-6	3.3	7.7	15	Not Detected
2-Propanol	67-63-0	2.8	4.6	9.2	Not Detected
3-Chloropropene	107-05-1	3.2	5.8	12	Not Detected
4-Ethyltoluene	622-96-8	1.0	2.8	4.6	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-3	Date/Time Analyzed:	5/22/14 04:39 PM
Lab ID:	1405216R1-05A	Dilution Factor:	1.87
Date/Time Collecte	5/9/14 01:59 PM	Instrument/Filename:	msd2.i / 2052210r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
4-Methyl-2-pentanone	108-10-1	0.57	2.3	3.8	Not Detected
Acetone	67-64-1	4.7	4.4	22	15 J
alpha-Chlorotoluene	100-44-7	1.0	2.9	4.8	Not Detected
Benzene	71-43-2	0.51	1.8	3.0	0.74 J
Bromodichloromethane	75-27-4	0.83	3.8	6.3	Not Detected
Bromoform	75-25-2	1.3	5.8	9.7	Not Detected
Bromomethane	74-83-9	4.0	7.3	36	Not Detected
Carbon Disulfide	75-15-0	5.2	5.8	12	Not Detected
Carbon Tetrachloride	56-23-5	0.88	3.5	5.9	Not Detected
Chlorobenzene	108-90-7	0.46	2.6	4.3	Not Detected
Chloroethane	75-00-3	3.6	4.9	9.9	Not Detected
Chloroform	67-66-3	0.74	2.7	4.6	Not Detected
Chloromethane	74-87-3	2.9	3.9	19	Not Detected
cis-1,2-Dichloroethene	156-59-2	1.4	2.2	3.7	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.50	2.5	4.2	Not Detected
Cumene	98-82-8	0.99	2.8	4.6	Not Detected
Cyclohexane	110-82-7	0.68	1.9	3.2	Not Detected
Dibromochloromethane	124-48-1	1.3	4.8	8.0	Not Detected
Ethanol	64-17-5	3.8	5.9	7.0	Not Detected
Ethyl Benzene	100-41-4	0.81	2.4	4.0	Not Detected
Freon 11	75-69-4	0.66	3.2	5.2	Not Detected
Freon 113	76-13-1	1.9	4.3	7.2	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-3	Date/Time Analyzed:	5/22/14 04:39 PM
Lab ID:	1405216R1-05A	Dilution Factor:	1.87
Date/Time Collecte	5/9/14 01:59 PM	Instrument/Filename:	msd2.i / 2052210r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 114	76-14-2	1.2	3.9	6.5	Not Detected
Freon 12	75-71-8	0.50	2.8	4.6	2.5 J
Heptane	142-82-5	0.65	2.3	3.8	Not Detected
Hexachlorobutadiene	87-68-3	9.6	20	40	Not Detected
Hexane	110-54-3	0.66	2.0	3.3	1.2 J
m,p-Xylene	108-38-3	1.3	2.4	4.1	Not Detected
Methyl tert-butyl ether	1634-04-4	0.34	2.0	3.4	Not Detected
Methylene Chloride	75-09-2	3.2	6.5	32	Not Detected
o-Xylene	95-47-6	0.67	2.4	4.1	Not Detected
Propylbenzene	103-65-1	0.69	2.8	4.6	Not Detected
Styrene	100-42-5	0.50	2.4	4.0	Not Detected
Tetrachloroethene	127-18-4	1.2	3.8	6.3	Not Detected
Tetrahydrofuran	109-99-9	0.88	1.6	2.8	Not Detected
Toluene	108-88-3	0.53	2.1	3.5	0.82 J
trans-1,2-Dichloroethene	156-60-5	1.0	2.2	3.7	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.96	2.5	4.2	Not Detected
Trichloroethene	79-01-6	0.95	3.0	5.0	2.3 J
Vinyl Chloride	75-01-4	0.54	1.4	2.4	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-3	Date/Time Analyzed:	5/22/14 04:39 PM
Lab ID:	1405216R1-05A	Dilution Factor:	1.87
Date/Time Collecte	5/9/14 01:59 PM	Instrument/Filename:	msd2.i / 2052210r1
Media:	6 Liter Summa Canister		

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	96
4-Bromofluorobenzene	460-00-4	70-130	98
Toluene-d8	2037-26-5	70-130	97

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-3	Date/Time Analyzed:	5/22/14 10:13 PM
Lab ID:	1405216R1-06A	Dilution Factor:	9.15
Date/Time Collecte	5/9/14 02:01 PM	Instrument/Filename:	msd2.i / 2052217r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	3.9	15	25	250
1,1,2,2-Tetrachloroethane	79-34-5	3.7	19	31	Not Detected
1,1,2-Trichloroethane	79-00-5	6.2	15	25	Not Detected
1,1-Dichloroethane	75-34-3	2.4	11	18	97
1,1-Dichloroethene	75-35-4	7.2	11	18	94
1,2,4-Trichlorobenzene	120-82-1	28	68	140	Not Detected
1,2,4-Trimethylbenzene	95-63-6	3.5	13	22	100
1,2-Dibromoethane (EDB)	106-93-4	4.9	21	35	Not Detected
1,2-Dichlorobenzene	95-50-1	2.8	16	28	Not Detected
1,2-Dichloroethane	107-06-2	2.6	11	18	4.7 J
1,2-Dichloropropane	78-87-5	6.4	13	21	Not Detected
1,3,5-Trimethylbenzene	108-67-8	7.0	13	22	32
1,3-Butadiene	106-99-0	3.7	6.1	10	Not Detected
1,3-Dichlorobenzene	541-73-1	9.8	16	28	Not Detected
1,4-Dichlorobenzene	106-46-7	11	16	28	Not Detected
1,4-Dioxane	123-91-1	18	33	66	Not Detected
2,2,4-Trimethylpentane	540-84-1	4.8	13	21	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	21	27	54	Not Detected
2-Hexanone	591-78-6	16	37	75	Not Detected
2-Propanol	67-63-0	14	22	45	35 J
3-Chloropropene	107-05-1	16	29	57	Not Detected
4-Ethyltoluene	622-96-8	5.0	13	22	62

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-3	Date/Time Analyzed:	5/22/14 10:13 PM
Lab ID:	1405216R1-06A	Dilution Factor:	9.15
Date/Time Collecte	5/9/14 02:01 PM	Instrument/Filename:	msd2.i / 2052217r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
4-Methyl-2-pentanone	108-10-1	2.8	11	19	Not Detected
Acetone	67-64-1	23	22	110	67 J
alpha-Chlorotoluene	100-44-7	5.0	14	24	Not Detected
Benzene	71-43-2	2.5	8.8	15	Not Detected
Bromodichloromethane	75-27-4	4.0	18	31	Not Detected
Bromoform	75-25-2	6.5	28	47	Not Detected
Bromomethane	74-83-9	20	36	180	Not Detected
Carbon Disulfide	75-15-0	25	28	57	Not Detected
Carbon Tetrachloride	56-23-5	4.3	17	29	Not Detected
Chlorobenzene	108-90-7	2.3	13	21	Not Detected
Chloroethane	75-00-3	18	24	48	Not Detected
Chloroform	67-66-3	3.6	13	22	240
Chloromethane	74-87-3	14	19	94	Not Detected
cis-1,2-Dichloroethene	156-59-2	6.9	11	18	Not Detected
cis-1,3-Dichloropropene	10061-01-5	2.4	12	21	Not Detected
Cumene	98-82-8	4.8	13	22	12 J
Cyclohexane	110-82-7	3.3	9.4	16	Not Detected
Dibromochloromethane	124-48-1	6.6	23	39	Not Detected
Ethanol	64-17-5	19	29	34	Not Detected
Ethyl Benzene	100-41-4	3.9	12	20	Not Detected
Freon 11	75-69-4	3.2	15	26	Not Detected
Freon 113	76-13-1	9.3	21	35	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-3	Date/Time Analyzed:	5/22/14 10:13 PM
Lab ID:	1405216R1-06A	Dilution Factor:	9.15
Date/Time Collecte	5/9/14 02:01 PM	Instrument/Filename:	msd2.i / 2052217r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 114	76-14-2	5.8	19	32	Not Detected
Freon 12	75-71-8	2.4	14	23	Not Detected
Heptane	142-82-5	3.2	11	19	Not Detected
Hexachlorobutadiene	87-68-3	47	98	200	Not Detected
Hexane	110-54-3	3.2	9.7	16	Not Detected
m,p-Xylene	108-38-3	6.6	12	20	25
Methyl tert-butyl ether	1634-04-4	1.6	9.9	16	Not Detected
Methylene Chloride	75-09-2	16	32	160	Not Detected
o-Xylene	95-47-6	3.3	12	20	340
Propylbenzene	103-65-1	3.4	13	22	18 J
Styrene	100-42-5	2.4	12	19	Not Detected
Tetrachloroethene	127-18-4	6.2	19	31	110
Tetrahydrofuran	109-99-9	4.3	8.1	13	Not Detected
Toluene	108-88-3	2.6	10	17	Not Detected
trans-1,2-Dichloroethene	156-60-5	4.9	11	18	16 J
trans-1,3-Dichloropropene	10061-02-6	4.7	12	21	Not Detected
Trichloroethene	79-01-6	4.6	15	24	6700
Vinyl Chloride	75-01-4	2.6	7.0	12	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-3	Date/Time Analyzed:	5/22/14 10:13 PM
Lab ID:	1405216R1-06A	Dilution Factor:	9.15
Date/Time Collecte	5/9/14 02:01 PM	Instrument/Filename:	msd2.i / 2052217r1
Media:	6 Liter Summa Canister		

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	94
4-Bromofluorobenzene	460-00-4	70-130	101
Toluene-d8	2037-26-5	70-130	97

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-4	Date/Time Analyzed:	5/22/14 05:15 PM
Lab ID:	1405216R1-07A	Dilution Factor:	1.83
Date/Time Collecte	5/9/14 02:07 PM	Instrument/Filename:	msd2.i / 2052211r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.78	3.0	5.0	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.74	3.8	6.3	Not Detected
1,1,2-Trichloroethane	79-00-5	1.2	3.0	5.0	Not Detected
1,1-Dichloroethane	75-34-3	0.47	2.2	3.7	Not Detected
1,1-Dichloroethene	75-35-4	1.4	2.2	3.6	Not Detected
1,2,4-Trichlorobenzene	120-82-1	5.7	14	27	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.70	2.7	4.5	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.98	4.2	7.0	Not Detected
1,2-Dichlorobenzene	95-50-1	0.56	3.3	5.5	Not Detected
1,2-Dichloroethane	107-06-2	0.52	2.2	3.7	2.9 J
1,2-Dichloropropane	78-87-5	1.3	2.5	4.2	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.4	2.7	4.5	Not Detected
1,3-Butadiene	106-99-0	0.74	1.2	2.0	Not Detected
1,3-Dichlorobenzene	541-73-1	2.0	3.3	5.5	Not Detected
1,4-Dichlorobenzene	106-46-7	2.2	3.3	5.5	Not Detected
1,4-Dioxane	123-91-1	3.7	6.6	13	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.96	2.6	4.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	4.2	5.4	11	Not Detected
2-Hexanone	591-78-6	3.2	7.5	15	Not Detected
2-Propanol	67-63-0	2.7	4.5	9.0	Not Detected
3-Chloropropene	107-05-1	3.1	5.7	11	Not Detected
4-Ethyltoluene	622-96-8	1.0	2.7	4.5	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-4	Date/Time Analyzed:	5/22/14 05:15 PM
Lab ID:	1405216R1-07A	Dilution Factor:	1.83
Date/Time Collecte	5/9/14 02:07 PM	Instrument/Filename:	msd2.i / 2052211r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
4-Methyl-2-pentanone	108-10-1	0.56	2.2	3.7	Not Detected
Acetone	67-64-1	4.6	4.3	22	18 J
alpha-Chlorotoluene	100-44-7	1.0	2.8	4.7	Not Detected
Benzene	71-43-2	0.50	1.8	2.9	0.66 J
Bromodichloromethane	75-27-4	0.81	3.7	6.1	Not Detected
Bromoform	75-25-2	1.3	5.7	9.4	Not Detected
Bromomethane	74-83-9	4.0	7.1	36	Not Detected
Carbon Disulfide	75-15-0	5.1	5.7	11	Not Detected
Carbon Tetrachloride	56-23-5	0.86	3.4	5.8	Not Detected
Chlorobenzene	108-90-7	0.46	2.5	4.2	Not Detected
Chloroethane	75-00-3	3.6	4.8	9.6	Not Detected
Chloroform	67-66-3	0.72	2.7	4.5	Not Detected
Chloromethane	74-87-3	2.8	3.8	19	Not Detected
cis-1,2-Dichloroethene	156-59-2	1.4	2.2	3.6	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.49	2.5	4.2	Not Detected
Cumene	98-82-8	0.97	2.7	4.5	Not Detected
Cyclohexane	110-82-7	0.67	1.9	3.1	Not Detected
Dibromochloromethane	124-48-1	1.3	4.7	7.8	Not Detected
Ethanol	64-17-5	3.7	5.8	6.9	Not Detected
Ethyl Benzene	100-41-4	0.79	2.4	4.0	Not Detected
Freon 11	75-69-4	0.64	3.1	5.1	Not Detected
Freon 113	76-13-1	1.8	4.2	7.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-4	Date/Time Analyzed:	5/22/14 05:15 PM
Lab ID:	1405216R1-07A	Dilution Factor:	1.83
Date/Time Collecte	5/9/14 02:07 PM	Instrument/Filename:	msd2.i / 2052211r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 114	76-14-2	1.2	3.8	6.4	Not Detected
Freon 12	75-71-8	0.49	2.7	4.5	2.4 J
Heptane	142-82-5	0.64	2.2	3.7	Not Detected
Hexachlorobutadiene	87-68-3	9.4	20	39	Not Detected
Hexane	110-54-3	0.65	1.9	3.2	0.84 J
m,p-Xylene	108-38-3	1.3	2.4	4.0	Not Detected
Methyl tert-butyl ether	1634-04-4	0.33	2.0	3.3	Not Detected
Methylene Chloride	75-09-2	3.1	6.4	32	Not Detected
o-Xylene	95-47-6	0.66	2.4	4.0	Not Detected
Propylbenzene	103-65-1	0.67	2.7	4.5	Not Detected
Styrene	100-42-5	0.49	2.3	3.9	Not Detected
Tetrachloroethene	127-18-4	1.2	3.7	6.2	Not Detected
Tetrahydrofuran	109-99-9	0.86	1.6	2.7	Not Detected
Toluene	108-88-3	0.52	2.1	3.4	0.76 J
trans-1,2-Dichloroethene	156-60-5	0.98	2.2	3.6	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.94	2.5	4.2	Not Detected
Trichloroethene	79-01-6	0.93	3.0	4.9	2.2 J
Vinyl Chloride	75-01-4	0.53	1.4	2.3	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-4	Date/Time Analyzed:	5/22/14 05:15 PM
Lab ID:	1405216R1-07A	Dilution Factor:	1.83
Date/Time Collecte	5/9/14 02:07 PM	Instrument/Filename:	msd2.i / 2052211r1
Media:	6 Liter Summa Canister		

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	99
4-Bromofluorobenzene	460-00-4	70-130	99
Toluene-d8	2037-26-5	70-130	97

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-4	Date/Time Analyzed:	5/23/14 08:41 AM
Lab ID:	1405216R1-08A	Dilution Factor:	3.66
Date/Time Collecte	5/9/14 02:10 PM	Instrument/File Name:	msd2.i / 2052220r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	1.6	6.0	10	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	1.5	7.5	12	Not Detected
1,1,2-Trichloroethane	79-00-5	2.5	6.0	10	4.1 J
1,1-Dichloroethane	75-34-3	0.94	4.4	7.4	19
1,1-Dichloroethene	75-35-4	2.9	4.4	7.2	28
1,2,4-Trichlorobenzene	120-82-1	11	27	54	Not Detected
1,2,4-Trimethylbenzene	95-63-6	1.4	5.4	9.0	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	2.0	8.4	14	Not Detected
1,2-Dichlorobenzene	95-50-1	1.1	6.6	11	Not Detected
1,2-Dichloroethane	107-06-2	1.0	4.4	7.4	Not Detected
1,2-Dichloropropane	78-87-5	2.6	5.1	8.4	Not Detected
1,3,5-Trimethylbenzene	108-67-8	2.8	5.4	9.0	Not Detected
1,3-Butadiene	106-99-0	1.5	2.4	4.0	Not Detected
1,3-Dichlorobenzene	541-73-1	3.9	6.6	11	Not Detected
1,4-Dichlorobenzene	106-46-7	4.4	6.6	11	Not Detected
1,4-Dioxane	123-91-1	7.3	13	26	Not Detected
2,2,4-Trimethylpentane	540-84-1	1.9	5.1	8.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	8.4	11	22	14 J
2-Hexanone	591-78-6	6.5	15	30	Not Detected
2-Propanol	67-63-0	5.5	9.0	18	91
3-Chloropropene	107-05-1	6.2	11	23	Not Detected
4-Ethyltoluene	622-96-8	2.0	5.4	9.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-4	Date/Time Analyzed:	5/23/14 08:41 AM
Lab ID:	1405216R1-08A	Dilution Factor:	3.66
Date/Time Collecte	5/9/14 02:10 PM	Instrument/File Name:	msd2.i / 2052220r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
4-Methyl-2-pentanone	108-10-1	1.1	4.5	7.5	4.5 J
Acetone	67-64-1	9.2	8.7	43	64
alpha-Chlorotoluene	100-44-7	2.0	5.7	9.5	Not Detected
Benzene	71-43-2	0.99	3.5	5.8	1.1 J
Bromodichloromethane	75-27-4	1.6	7.4	12	Not Detected
Bromoform	75-25-2	2.6	11	19	Not Detected
Bromomethane	74-83-9	7.9	14	71	Not Detected
Carbon Disulfide	75-15-0	10	11	23	Not Detected
Carbon Tetrachloride	56-23-5	1.7	6.9	12	Not Detected
Chlorobenzene	108-90-7	0.91	5.0	8.4	Not Detected
Chloroethane	75-00-3	7.1	9.6	19	Not Detected
Chloroform	67-66-3	1.4	5.4	8.9	14
Chloromethane	74-87-3	5.7	7.6	38	Not Detected
cis-1,2-Dichloroethene	156-59-2	2.7	4.4	7.2	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.98	5.0	8.3	Not Detected
Cumene	98-82-8	1.9	5.4	9.0	Not Detected
Cyclohexane	110-82-7	1.3	3.8	6.3	Not Detected
Dibromochloromethane	124-48-1	2.6	9.4	16	Not Detected
Ethanol	64-17-5	7.4	12	14	36
Ethyl Benzene	100-41-4	1.6	4.8	7.9	Not Detected
Freon 11	75-69-4	1.3	6.2	10	Not Detected
Freon 113	76-13-1	3.7	8.4	14	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-4	Date/Time Analyzed:	5/23/14 08:41 AM
Lab ID:	1405216R1-08A	Dilution Factor:	3.66
Date/Time Collecte	5/9/14 02:10 PM	Instrument/File Name:	msd2.i / 2052220r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 114	76-14-2	2.3	7.7	13	Not Detected
Freon 12	75-71-8	0.98	5.4	9.0	2.2 J
Heptane	142-82-5	1.3	4.5	7.5	Not Detected
Hexachlorobutadiene	87-68-3	19	39	78	Not Detected
Hexane	110-54-3	1.3	3.9	6.4	Not Detected
m,p-Xylene	108-38-3	2.6	4.8	7.9	Not Detected
Methyl tert-butyl ether	1634-04-4	0.66	4.0	6.6	Not Detected
Methylene Chloride	75-09-2	6.3	13	64	Not Detected
o-Xylene	95-47-6	1.3	4.8	7.9	Not Detected
Propylbenzene	103-65-1	1.3	5.4	9.0	Not Detected
Styrene	100-42-5	0.98	4.7	7.8	Not Detected
Tetrachloroethene	127-18-4	2.5	7.4	12	38
Tetrahydrofuran	109-99-9	1.7	3.2	5.4	Not Detected
Toluene	108-88-3	1.0	4.1	6.9	Not Detected
trans-1,2-Dichloroethene	156-60-5	2.0	4.4	7.2	Not Detected
trans-1,3-Dichloropropene	10061-02-6	1.9	5.0	8.3	Not Detected
Trichloroethene	79-01-6	1.9	5.9	9.8	2400
Vinyl Chloride	75-01-4	1.1	2.8	4.7	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-4	Date/Time Analyzed:	5/23/14 08:41 AM
Lab ID:	1405216R1-08A	Dilution Factor:	3.66
Date/Time Collecte	5/9/14 02:10 PM	Instrument/Filename:	msd2.i / 2052220r1
Media:	6 Liter Summa Canister		

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	99
4-Bromofluorobenzene	460-00-4	70-130	100
Toluene-d8	2037-26-5	70-130	96

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-5	Date/Time Analyzed:	5/22/14 06:17 PM
Lab ID:	1405216R1-09A	Dilution Factor:	1.83
Date/Time Collecte	5/9/14 02:13 PM	Instrument/Filename:	msd2.i / 2052212r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.78	3.0	5.0	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.74	3.8	6.3	Not Detected
1,1,2-Trichloroethane	79-00-5	1.2	3.0	5.0	Not Detected
1,1-Dichloroethane	75-34-3	0.47	2.2	3.7	Not Detected
1,1-Dichloroethene	75-35-4	1.4	2.2	3.6	Not Detected
1,2,4-Trichlorobenzene	120-82-1	5.7	14	27	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.70	2.7	4.5	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.98	4.2	7.0	Not Detected
1,2-Dichlorobenzene	95-50-1	0.56	3.3	5.5	Not Detected
1,2-Dichloroethane	107-06-2	0.52	2.2	3.7	2.9 J
1,2-Dichloropropane	78-87-5	1.3	2.5	4.2	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.4	2.7	4.5	Not Detected
1,3-Butadiene	106-99-0	0.74	1.2	2.0	Not Detected
1,3-Dichlorobenzene	541-73-1	2.0	3.3	5.5	Not Detected
1,4-Dichlorobenzene	106-46-7	2.2	3.3	5.5	Not Detected
1,4-Dioxane	123-91-1	3.7	6.6	13	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.96	2.6	4.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	4.2	5.4	11	Not Detected
2-Hexanone	591-78-6	3.2	7.5	15	Not Detected
2-Propanol	67-63-0	2.7	4.5	9.0	Not Detected
3-Chloropropene	107-05-1	3.1	5.7	11	Not Detected
4-Ethyltoluene	622-96-8	1.0	2.7	4.5	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-5	Date/Time Analyzed:	5/22/14 06:17 PM
Lab ID:	1405216R1-09A	Dilution Factor:	1.83
Date/Time Collecte	5/9/14 02:13 PM	Instrument/Filename:	msd2.i / 2052212r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
4-Methyl-2-pentanone	108-10-1	0.56	2.2	3.7	Not Detected
Acetone	67-64-1	4.6	4.3	22	19 J
alpha-Chlorotoluene	100-44-7	1.0	2.8	4.7	Not Detected
Benzene	71-43-2	0.50	1.8	2.9	0.67 J
Bromodichloromethane	75-27-4	0.81	3.7	6.1	Not Detected
Bromoform	75-25-2	1.3	5.7	9.4	Not Detected
Bromomethane	74-83-9	4.0	7.1	36	Not Detected
Carbon Disulfide	75-15-0	5.1	5.7	11	Not Detected
Carbon Tetrachloride	56-23-5	0.86	3.4	5.8	Not Detected
Chlorobenzene	108-90-7	0.46	2.5	4.2	Not Detected
Chloroethane	75-00-3	3.6	4.8	9.6	Not Detected
Chloroform	67-66-3	0.72	2.7	4.5	Not Detected
Chloromethane	74-87-3	2.8	3.8	19	Not Detected
cis-1,2-Dichloroethene	156-59-2	1.4	2.2	3.6	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.49	2.5	4.2	Not Detected
Cumene	98-82-8	0.97	2.7	4.5	Not Detected
Cyclohexane	110-82-7	0.67	1.9	3.1	Not Detected
Dibromochloromethane	124-48-1	1.3	4.7	7.8	Not Detected
Ethanol	64-17-5	3.7	5.8	6.9	4.0 J
Ethyl Benzene	100-41-4	0.79	2.4	4.0	Not Detected
Freon 11	75-69-4	0.64	3.1	5.1	Not Detected
Freon 113	76-13-1	1.8	4.2	7.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-5	Date/Time Analyzed:	5/22/14 06:17 PM
Lab ID:	1405216R1-09A	Dilution Factor:	1.83
Date/Time Collecte	5/9/14 02:13 PM	Instrument/Filename:	msd2.i / 2052212r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 114	76-14-2	1.2	3.8	6.4	Not Detected
Freon 12	75-71-8	0.49	2.7	4.5	2.7 J
Heptane	142-82-5	0.64	2.2	3.7	Not Detected
Hexachlorobutadiene	87-68-3	9.4	20	39	Not Detected
Hexane	110-54-3	0.65	1.9	3.2	4.5
m,p-Xylene	108-38-3	1.3	2.4	4.0	Not Detected
Methyl tert-butyl ether	1634-04-4	0.33	2.0	3.3	Not Detected
Methylene Chloride	75-09-2	3.1	6.4	32	Not Detected
o-Xylene	95-47-6	0.66	2.4	4.0	Not Detected
Propylbenzene	103-65-1	0.67	2.7	4.5	Not Detected
Styrene	100-42-5	0.49	2.3	3.9	Not Detected
Tetrachloroethene	127-18-4	1.2	3.7	6.2	Not Detected
Tetrahydrofuran	109-99-9	0.86	1.6	2.7	Not Detected
Toluene	108-88-3	0.52	2.1	3.4	0.62 J
trans-1,2-Dichloroethene	156-60-5	0.98	2.2	3.6	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.94	2.5	4.2	Not Detected
Trichloroethene	79-01-6	0.93	3.0	4.9	1.4 J
Vinyl Chloride	75-01-4	0.53	1.4	2.3	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-5	Date/Time Analyzed:	5/22/14 06:17 PM
Lab ID:	1405216R1-09A	Dilution Factor:	1.83
Date/Time Collecte	5/9/14 02:13 PM	Instrument/Filename:	msd2.i / 2052212r1
Media:	6 Liter Summa Canister		

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	97
4-Bromofluorobenzene	460-00-4	70-130	96
Toluene-d8	2037-26-5	70-130	98

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-5	Date/Time Analyzed:	5/22/14 07:06 PM
Lab ID:	1405216R1-10A	Dilution Factor:	1.79
Date/Time Collecte	5/9/14 02:15 PM	Instrument/Filename:	msd2.i / 2052213r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.77	2.9	4.9	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.72	3.7	6.1	Not Detected
1,1,2-Trichloroethane	79-00-5	1.2	2.9	4.9	Not Detected
1,1-Dichloroethane	75-34-3	0.46	2.2	3.6	Not Detected
1,1-Dichloroethene	75-35-4	1.4	2.1	3.5	Not Detected
1,2,4-Trichlorobenzene	120-82-1	5.6	13	26	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.68	2.6	4.4	1.0 J
1,2-Dibromoethane (EDB)	106-93-4	0.96	4.1	6.9	Not Detected
1,2-Dichlorobenzene	95-50-1	0.55	3.2	5.4	Not Detected
1,2-Dichloroethane	107-06-2	0.51	2.2	3.6	0.68 J
1,2-Dichloropropane	78-87-5	1.2	2.5	4.1	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.4	2.6	4.4	Not Detected
1,3-Butadiene	106-99-0	0.72	1.2	2.0	Not Detected
1,3-Dichlorobenzene	541-73-1	1.9	3.2	5.4	Not Detected
1,4-Dichlorobenzene	106-46-7	2.2	3.2	5.4	Not Detected
1,4-Dioxane	123-91-1	3.6	6.4	13	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.94	2.5	4.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	4.1	5.3	10	5.2 J
2-Hexanone	591-78-6	3.2	7.3	15	Not Detected
2-Propanol	67-63-0	2.7	4.4	8.8	24
3-Chloropropene	107-05-1	3.0	5.6	11	Not Detected
4-Ethyltoluene	622-96-8	0.98	2.6	4.4	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-5	Date/Time Analyzed:	5/22/14 07:06 PM
Lab ID:	1405216R1-10A	Dilution Factor:	1.79
Date/Time Collecte	5/9/14 02:15 PM	Instrument/File Name:	msd2.i / 2052213r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
4-Methyl-2-pentanone	108-10-1	0.55	2.2	3.7	0.82 J
Acetone	67-64-1	4.5	4.2	21	22
alpha-Chlorotoluene	100-44-7	0.98	2.8	4.6	Not Detected
Benzene	71-43-2	0.48	1.7	2.8	0.51 J
Bromodichloromethane	75-27-4	0.79	3.6	6.0	Not Detected
Bromoform	75-25-2	1.3	5.6	9.2	Not Detected
Bromomethane	74-83-9	3.9	7.0	35	Not Detected
Carbon Disulfide	75-15-0	5.0	5.6	11	Not Detected
Carbon Tetrachloride	56-23-5	0.84	3.4	5.6	Not Detected
Chlorobenzene	108-90-7	0.44	2.5	4.1	Not Detected
Chloroethane	75-00-3	3.5	4.7	9.4	Not Detected
Chloroform	67-66-3	0.71	2.6	4.4	1.8 J
Chloromethane	74-87-3	2.8	3.7	18	Not Detected
cis-1,2-Dichloroethene	156-59-2	1.3	2.1	3.5	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.48	2.4	4.1	Not Detected
Cumene	98-82-8	0.94	2.6	4.4	Not Detected
Cyclohexane	110-82-7	0.65	1.8	3.1	Not Detected
Dibromochloromethane	124-48-1	1.3	4.6	7.6	Not Detected
Ethanol	64-17-5	3.6	5.7	6.7	8.5
Ethyl Benzene	100-41-4	0.77	2.3	3.9	Not Detected
Freon 11	75-69-4	0.63	3.0	5.0	Not Detected
Freon 113	76-13-1	1.8	4.1	6.8	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-5	Date/Time Analyzed:	5/22/14 07:06 PM
Lab ID:	1405216R1-10A	Dilution Factor:	1.79
Date/Time Collecte	5/9/14 02:15 PM	Instrument/Filename:	msd2.i / 2052213r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 114	76-14-2	1.1	3.8	6.2	Not Detected
Freon 12	75-71-8	0.48	2.6	4.4	2.7 J
Heptane	142-82-5	0.62	2.2	3.7	Not Detected
Hexachlorobutadiene	87-68-3	9.2	19	38	Not Detected
Hexane	110-54-3	0.64	1.9	3.2	Not Detected
m,p-Xylene	108-38-3	1.3	2.3	3.9	1.4 J
Methyl tert-butyl ether	1634-04-4	0.32	1.9	3.2	Not Detected
Methylene Chloride	75-09-2	3.1	6.2	31	Not Detected
o-Xylene	95-47-6	0.64	2.3	3.9	Not Detected
Propylbenzene	103-65-1	0.66	2.6	4.4	Not Detected
Styrene	100-42-5	0.48	2.3	3.8	Not Detected
Tetrachloroethene	127-18-4	1.2	3.6	6.1	6.1
Tetrahydrofuran	109-99-9	0.84	1.6	2.6	Not Detected
Toluene	108-88-3	0.51	2.0	3.4	1.1 J
trans-1,2-Dichloroethene	156-60-5	0.96	2.1	3.5	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.92	2.4	4.1	Not Detected
Trichloroethene	79-01-6	0.91	2.9	4.8	100
Vinyl Chloride	75-01-4	0.52	1.4	2.3	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-5	Date/Time Analyzed:	5/22/14 07:06 PM
Lab ID:	1405216R1-10A	Dilution Factor:	1.79
Date/Time Collecte	5/9/14 02:15 PM	Instrument/Filename:	msd2.i / 2052213r1
Media:	6 Liter Summa Canister		

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	99
4-Bromofluorobenzene	460-00-4	70-130	98
Toluene-d8	2037-26-5	70-130	98

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-6	Date/Time Analyzed:	5/23/14 02:38 PM
Lab ID:	1405216R1-11A	Dilution Factor:	1.79
Date/Time Collecte	5/9/14 02:19 PM	Instrument/Filename:	msd2.i / 2052308r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.77	2.9	4.9	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.72	3.7	6.1	Not Detected
1,1,2-Trichloroethane	79-00-5	1.2	2.9	4.9	Not Detected
1,1-Dichloroethane	75-34-3	0.46	2.2	3.6	Not Detected
1,1-Dichloroethene	75-35-4	1.4	2.1	3.5	Not Detected
1,2,4-Trichlorobenzene	120-82-1	5.6	13	26	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.68	2.6	4.4	0.75 J
1,2-Dibromoethane (EDB)	106-93-4	0.96	4.1	6.9	Not Detected
1,2-Dichlorobenzene	95-50-1	0.55	3.2	5.4	Not Detected
1,2-Dichloroethane	107-06-2	0.51	2.2	3.6	Not Detected
1,2-Dichloropropane	78-87-5	1.2	2.5	4.1	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.4	2.6	4.4	Not Detected
1,3-Butadiene	106-99-0	0.72	1.2	2.0	Not Detected
1,3-Dichlorobenzene	541-73-1	1.9	3.2	5.4	Not Detected
1,4-Dichlorobenzene	106-46-7	2.2	3.2	5.4	Not Detected
1,4-Dioxane	123-91-1	3.6	6.4	13	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.94	2.5	4.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	4.1	5.3	10	Not Detected
2-Hexanone	591-78-6	3.2	7.3	15	Not Detected
2-Propanol	67-63-0	2.7	4.4	8.8	6.8 J
3-Chloropropene	107-05-1	3.0	5.6	11	Not Detected
4-Ethyltoluene	622-96-8	0.98	2.6	4.4	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-6	Date/Time Analyzed:	5/23/14 02:38 PM
Lab ID:	1405216R1-11A	Dilution Factor:	1.79
Date/Time Collecte	5/9/14 02:19 PM	Instrument/Filename:	msd2.i / 2052308r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
4-Methyl-2-pentanone	108-10-1	0.55	2.2	3.7	Not Detected
Acetone	67-64-1	4.5	4.2	21	18 J
alpha-Chlorotoluene	100-44-7	0.98	2.8	4.6	Not Detected
Benzene	71-43-2	0.48	1.7	2.8	Not Detected
Bromodichloromethane	75-27-4	0.79	3.6	6.0	Not Detected
Bromoform	75-25-2	1.3	5.6	9.2	Not Detected
Bromomethane	74-83-9	3.9	7.0	35	Not Detected
Carbon Disulfide	75-15-0	5.0	5.6	11	Not Detected
Carbon Tetrachloride	56-23-5	0.84	3.4	5.6	Not Detected
Chlorobenzene	108-90-7	0.44	2.5	4.1	Not Detected
Chloroethane	75-00-3	3.5	4.7	9.4	Not Detected
Chloroform	67-66-3	0.71	2.6	4.4	Not Detected
Chloromethane	74-87-3	2.8	3.7	18	Not Detected
cis-1,2-Dichloroethene	156-59-2	1.3	2.1	3.5	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.48	2.4	4.1	Not Detected
Cumene	98-82-8	0.94	2.6	4.4	Not Detected
Cyclohexane	110-82-7	0.65	1.8	3.1	Not Detected
Dibromochloromethane	124-48-1	1.3	4.6	7.6	Not Detected
Ethanol	64-17-5	3.6	5.7	6.7	6.0 J
Ethyl Benzene	100-41-4	0.77	2.3	3.9	Not Detected
Freon 11	75-69-4	0.63	3.0	5.0	Not Detected
Freon 113	76-13-1	1.8	4.1	6.8	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-6	Date/Time Analyzed:	5/23/14 02:38 PM
Lab ID:	1405216R1-11A	Dilution Factor:	1.79
Date/Time Collecte	5/9/14 02:19 PM	Instrument/Filename:	msd2.i / 2052308r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 114	76-14-2	1.1	3.8	6.2	Not Detected
Freon 12	75-71-8	0.48	2.6	4.4	2.5 J
Heptane	142-82-5	0.62	2.2	3.7	Not Detected
Hexachlorobutadiene	87-68-3	9.2	19	38	Not Detected
Hexane	110-54-3	0.64	1.9	3.2	Not Detected
m,p-Xylene	108-38-3	1.3	2.3	3.9	1.5 J
Methyl tert-butyl ether	1634-04-4	0.32	1.9	3.2	Not Detected
Methylene Chloride	75-09-2	3.1	6.2	31	Not Detected
o-Xylene	95-47-6	0.64	2.3	3.9	Not Detected
Propylbenzene	103-65-1	0.66	2.6	4.4	Not Detected
Styrene	100-42-5	0.48	2.3	3.8	Not Detected
Tetrachloroethene	127-18-4	1.2	3.6	6.1	14
Tetrahydrofuran	109-99-9	0.84	1.6	2.6	Not Detected
Toluene	108-88-3	0.51	2.0	3.4	2.0 J
trans-1,2-Dichloroethene	156-60-5	0.96	2.1	3.5	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.92	2.4	4.1	Not Detected
Trichloroethene	79-01-6	0.91	2.9	4.8	6.4
Vinyl Chloride	75-01-4	0.52	1.4	2.3	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	SS-6	Date/Time Analyzed:	5/23/14 02:38 PM
Lab ID:	1405216R1-11A	Dilution Factor:	1.79
Date/Time Collecte	5/9/14 02:19 PM	Instrument/Filename:	msd2.i / 2052308r1
Media:	6 Liter Summa Canister		

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	101
4-Bromofluorobenzene	460-00-4	70-130	100
Toluene-d8	2037-26-5	70-130	96

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-6	Date/Time Analyzed:	5/23/14 03:23 PM
Lab ID:	1405216R1-12A	Dilution Factor:	1.83
Date/Time Collecte	5/9/14 02:22 PM	Instrument/Filename:	msd2.i / 2052309r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.78	3.0	5.0	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.74	3.8	6.3	Not Detected
1,1,2-Trichloroethane	79-00-5	1.2	3.0	5.0	Not Detected
1,1-Dichloroethane	75-34-3	0.47	2.2	3.7	Not Detected
1,1-Dichloroethene	75-35-4	1.4	2.2	3.6	Not Detected
1,2,4-Trichlorobenzene	120-82-1	5.7	14	27	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.70	2.7	4.5	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.98	4.2	7.0	Not Detected
1,2-Dichlorobenzene	95-50-1	0.56	3.3	5.5	Not Detected
1,2-Dichloroethane	107-06-2	0.52	2.2	3.7	3.0 J
1,2-Dichloropropane	78-87-5	1.3	2.5	4.2	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.4	2.7	4.5	Not Detected
1,3-Butadiene	106-99-0	0.74	1.2	2.0	Not Detected
1,3-Dichlorobenzene	541-73-1	2.0	3.3	5.5	Not Detected
1,4-Dichlorobenzene	106-46-7	2.2	3.3	5.5	Not Detected
1,4-Dioxane	123-91-1	3.7	6.6	13	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.96	2.6	4.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	4.2	5.4	11	Not Detected
2-Hexanone	591-78-6	3.2	7.5	15	Not Detected
2-Propanol	67-63-0	2.7	4.5	9.0	2.8 J
3-Chloropropene	107-05-1	3.1	5.7	11	Not Detected
4-Ethyltoluene	622-96-8	1.0	2.7	4.5	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-6	Date/Time Analyzed:	5/23/14 03:23 PM
Lab ID:	1405216R1-12A	Dilution Factor:	1.83
Date/Time Collecte	5/9/14 02:22 PM	Instrument/Filename:	msd2.i / 2052309r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
4-Methyl-2-pentanone	108-10-1	0.56	2.2	3.7	Not Detected
Acetone	67-64-1	4.6	4.3	22	17 J
alpha-Chlorotoluene	100-44-7	1.0	2.8	4.7	Not Detected
Benzene	71-43-2	0.50	1.8	2.9	0.56 J
Bromodichloromethane	75-27-4	0.81	3.7	6.1	Not Detected
Bromoform	75-25-2	1.3	5.7	9.4	Not Detected
Bromomethane	74-83-9	4.0	7.1	36	Not Detected
Carbon Disulfide	75-15-0	5.1	5.7	11	Not Detected
Carbon Tetrachloride	56-23-5	0.86	3.4	5.8	Not Detected
Chlorobenzene	108-90-7	0.46	2.5	4.2	Not Detected
Chloroethane	75-00-3	3.6	4.8	9.6	Not Detected
Chloroform	67-66-3	0.72	2.7	4.5	Not Detected
Chloromethane	74-87-3	2.8	3.8	19	Not Detected
cis-1,2-Dichloroethene	156-59-2	1.4	2.2	3.6	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.49	2.5	4.2	Not Detected
Cumene	98-82-8	0.97	2.7	4.5	Not Detected
Cyclohexane	110-82-7	0.67	1.9	3.1	Not Detected
Dibromochloromethane	124-48-1	1.3	4.7	7.8	Not Detected
Ethanol	64-17-5	3.7	5.8	6.9	Not Detected
Ethyl Benzene	100-41-4	0.79	2.4	4.0	Not Detected
Freon 11	75-69-4	0.64	3.1	5.1	Not Detected
Freon 113	76-13-1	1.8	4.2	7.0	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-6	Date/Time Analyzed:	5/23/14 03:23 PM
Lab ID:	1405216R1-12A	Dilution Factor:	1.83
Date/Time Collecte	5/9/14 02:22 PM	Instrument/Filename:	msd2.i / 2052309r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 114	76-14-2	1.2	3.8	6.4	Not Detected
Freon 12	75-71-8	0.49	2.7	4.5	2.2 J
Heptane	142-82-5	0.64	2.2	3.7	0.86 J
Hexachlorobutadiene	87-68-3	9.4	20	39	Not Detected
Hexane	110-54-3	0.65	1.9	3.2	0.69 J
m,p-Xylene	108-38-3	1.3	2.4	4.0	Not Detected
Methyl tert-butyl ether	1634-04-4	0.33	2.0	3.3	Not Detected
Methylene Chloride	75-09-2	3.1	6.4	32	Not Detected
o-Xylene	95-47-6	0.66	2.4	4.0	Not Detected
Propylbenzene	103-65-1	0.67	2.7	4.5	Not Detected
Styrene	100-42-5	0.49	2.3	3.9	Not Detected
Tetrachloroethene	127-18-4	1.2	3.7	6.2	Not Detected
Tetrahydrofuran	109-99-9	0.86	1.6	2.7	Not Detected
Toluene	108-88-3	0.52	2.1	3.4	1.5 J
trans-1,2-Dichloroethene	156-60-5	0.98	2.2	3.6	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.94	2.5	4.2	Not Detected
Trichloroethene	79-01-6	0.93	3.0	4.9	1.7 J
Vinyl Chloride	75-01-4	0.53	1.4	2.3	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-6	Date/Time Analyzed:	5/23/14 03:23 PM
Lab ID:	1405216R1-12A	Dilution Factor:	1.83
Date/Time Collecte	5/9/14 02:22 PM	Instrument/Filename:	msd2.i / 2052309r1
Media:	6 Liter Summa Canister		

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	98
4-Bromofluorobenzene	460-00-4	70-130	96
Toluene-d8	2037-26-5	70-130	98

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-7	Date/Time Analyzed:	5/23/14 04:16 PM
Lab ID:	1405216R1-13A	Dilution Factor:	1.79
Date/Time Collecte	5/9/14 02:30 PM	Instrument/Filename:	msd2.i / 2052310r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.77	2.9	4.9	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.72	3.7	6.1	Not Detected
1,1,2-Trichloroethane	79-00-5	1.2	2.9	4.9	Not Detected
1,1-Dichloroethane	75-34-3	0.46	2.2	3.6	Not Detected
1,1-Dichloroethene	75-35-4	1.4	2.1	3.5	Not Detected
1,2,4-Trichlorobenzene	120-82-1	5.6	13	26	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.68	2.6	4.4	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.96	4.1	6.9	Not Detected
1,2-Dichlorobenzene	95-50-1	0.55	3.2	5.4	Not Detected
1,2-Dichloroethane	107-06-2	0.51	2.2	3.6	0.75 J
1,2-Dichloropropane	78-87-5	1.2	2.5	4.1	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.4	2.6	4.4	Not Detected
1,3-Butadiene	106-99-0	0.72	1.2	2.0	Not Detected
1,3-Dichlorobenzene	541-73-1	1.9	3.2	5.4	Not Detected
1,4-Dichlorobenzene	106-46-7	2.2	3.2	5.4	Not Detected
1,4-Dioxane	123-91-1	3.6	6.4	13	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.94	2.5	4.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	4.1	5.3	10	Not Detected
2-Hexanone	591-78-6	3.2	7.3	15	Not Detected
2-Propanol	67-63-0	2.7	4.4	8.8	Not Detected
3-Chloropropene	107-05-1	3.0	5.6	11	Not Detected
4-Ethyltoluene	622-96-8	0.98	2.6	4.4	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-7	Date/Time Analyzed:	5/23/14 04:16 PM
Lab ID:	1405216R1-13A	Dilution Factor:	1.79
Date/Time Collecte	5/9/14 02:30 PM	Instrument/Filename:	msd2.i / 2052310r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
4-Methyl-2-pentanone	108-10-1	0.55	2.2	3.7	Not Detected
Acetone	67-64-1	4.5	4.2	21	17 J
alpha-Chlorotoluene	100-44-7	0.98	2.8	4.6	Not Detected
Benzene	71-43-2	0.48	1.7	2.8	Not Detected
Bromodichloromethane	75-27-4	0.79	3.6	6.0	Not Detected
Bromoform	75-25-2	1.3	5.6	9.2	Not Detected
Bromomethane	74-83-9	3.9	7.0	35	Not Detected
Carbon Disulfide	75-15-0	5.0	5.6	11	Not Detected
Carbon Tetrachloride	56-23-5	0.84	3.4	5.6	Not Detected
Chlorobenzene	108-90-7	0.44	2.5	4.1	Not Detected
Chloroethane	75-00-3	3.5	4.7	9.4	Not Detected
Chloroform	67-66-3	0.71	2.6	4.4	Not Detected
Chloromethane	74-87-3	2.8	3.7	18	Not Detected
cis-1,2-Dichloroethene	156-59-2	1.3	2.1	3.5	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.48	2.4	4.1	Not Detected
Cumene	98-82-8	0.94	2.6	4.4	Not Detected
Cyclohexane	110-82-7	0.65	1.8	3.1	Not Detected
Dibromochloromethane	124-48-1	1.3	4.6	7.6	Not Detected
Ethanol	64-17-5	3.6	5.7	6.7	3.7 J
Ethyl Benzene	100-41-4	0.77	2.3	3.9	Not Detected
Freon 11	75-69-4	0.63	3.0	5.0	Not Detected
Freon 113	76-13-1	1.8	4.1	6.8	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-7	Date/Time Analyzed:	5/23/14 04:16 PM
Lab ID:	1405216R1-13A	Dilution Factor:	1.79
Date/Time Collecte	5/9/14 02:30 PM	Instrument/Filename:	msd2.i / 2052310r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 114	76-14-2	1.1	3.8	6.2	Not Detected
Freon 12	75-71-8	0.48	2.6	4.4	2.5 J
Heptane	142-82-5	0.62	2.2	3.7	Not Detected
Hexachlorobutadiene	87-68-3	9.2	19	38	Not Detected
Hexane	110-54-3	0.64	1.9	3.2	0.83 J
m,p-Xylene	108-38-3	1.3	2.3	3.9	Not Detected
Methyl tert-butyl ether	1634-04-4	0.32	1.9	3.2	Not Detected
Methylene Chloride	75-09-2	3.1	6.2	31	Not Detected
o-Xylene	95-47-6	0.64	2.3	3.9	Not Detected
Propylbenzene	103-65-1	0.66	2.6	4.4	Not Detected
Styrene	100-42-5	0.48	2.3	3.8	Not Detected
Tetrachloroethene	127-18-4	1.2	3.6	6.1	Not Detected
Tetrahydrofuran	109-99-9	0.84	1.6	2.6	Not Detected
Toluene	108-88-3	0.51	2.0	3.4	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.96	2.1	3.5	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.92	2.4	4.1	Not Detected
Trichloroethene	79-01-6	0.91	2.9	4.8	Not Detected
Vinyl Chloride	75-01-4	0.52	1.4	2.3	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	AA-7	Date/Time Analyzed:	5/23/14 04:16 PM
Lab ID:	1405216R1-13A	Dilution Factor:	1.79
Date/Time Collecte	5/9/14 02:30 PM	Instrument/Filename:	msd2.i / 2052310r1
Media:	6 Liter Summa Canister		

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	97
4-Bromofluorobenzene	460-00-4	70-130	99
Toluene-d8	2037-26-5	70-130	97

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	OA-1	Date/Time Analyzed:	5/23/14 05:07 PM
Lab ID:	1405216R1-14A	Dilution Factor:	1.87
Date/Time Collecte	5/9/14 02:39 PM	Instrument/File Name:	msd2.i / 2052311r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.80	3.1	5.1	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.75	3.8	6.4	Not Detected
1,1,2-Trichloroethane	79-00-5	1.3	3.1	5.1	Not Detected
1,1-Dichloroethane	75-34-3	0.48	2.3	3.8	Not Detected
1,1-Dichloroethene	75-35-4	1.5	2.2	3.7	Not Detected
1,2,4-Trichlorobenzene	120-82-1	5.8	14	28	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.71	2.8	4.6	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	1.0	4.3	7.2	Not Detected
1,2-Dichlorobenzene	95-50-1	0.58	3.4	5.6	Not Detected
1,2-Dichloroethane	107-06-2	0.53	2.3	3.8	Not Detected
1,2-Dichloropropane	78-87-5	1.3	2.6	4.3	Not Detected
1,3,5-Trimethylbenzene	108-67-8	1.4	2.8	4.6	Not Detected
1,3-Butadiene	106-99-0	0.75	1.2	2.1	Not Detected
1,3-Dichlorobenzene	541-73-1	2.0	3.4	5.6	Not Detected
1,4-Dichlorobenzene	106-46-7	2.2	3.4	5.6	Not Detected
1,4-Dioxane	123-91-1	3.8	6.7	13	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.98	2.6	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	4.3	5.5	11	Not Detected
2-Hexanone	591-78-6	3.3	7.7	15	Not Detected
2-Propanol	67-63-0	2.8	4.6	9.2	Not Detected
3-Chloropropene	107-05-1	3.2	5.8	12	Not Detected
4-Ethyltoluene	622-96-8	1.0	2.8	4.6	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	OA-1	Date/Time Analyzed:	5/23/14 05:07 PM
Lab ID:	1405216R1-14A	Dilution Factor:	1.87
Date/Time Collecte	5/9/14 02:39 PM	Instrument/Filename:	msd2.i / 2052311r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
4-Methyl-2-pentanone	108-10-1	0.57	2.3	3.8	Not Detected
Acetone	67-64-1	4.7	4.4	22	14 J
alpha-Chlorotoluene	100-44-7	1.0	2.9	4.8	Not Detected
Benzene	71-43-2	0.51	1.8	3.0	Not Detected
Bromodichloromethane	75-27-4	0.83	3.8	6.3	Not Detected
Bromoform	75-25-2	1.3	5.8	9.7	Not Detected
Bromomethane	74-83-9	4.0	7.3	36	Not Detected
Carbon Disulfide	75-15-0	5.2	5.8	12	Not Detected
Carbon Tetrachloride	56-23-5	0.88	3.5	5.9	Not Detected
Chlorobenzene	108-90-7	0.46	2.6	4.3	Not Detected
Chloroethane	75-00-3	3.6	4.9	9.9	Not Detected
Chloroform	67-66-3	0.74	2.7	4.6	Not Detected
Chloromethane	74-87-3	2.9	3.9	19	Not Detected
cis-1,2-Dichloroethene	156-59-2	1.4	2.2	3.7	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.50	2.5	4.2	Not Detected
Cumene	98-82-8	0.99	2.8	4.6	Not Detected
Cyclohexane	110-82-7	0.68	1.9	3.2	Not Detected
Dibromochloromethane	124-48-1	1.3	4.8	8.0	Not Detected
Ethanol	64-17-5	3.8	5.9	7.0	4.4 J
Ethyl Benzene	100-41-4	0.81	2.4	4.0	Not Detected
Freon 11	75-69-4	0.66	3.2	5.2	Not Detected
Freon 113	76-13-1	1.9	4.3	7.2	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	OA-1	Date/Time Analyzed:	5/23/14 05:07 PM
Lab ID:	1405216R1-14A	Dilution Factor:	1.87
Date/Time Collecte	5/9/14 02:39 PM	Instrument/Filename:	msd2.i / 2052311r1
Media:	6 Liter Summa Canister		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 114	76-14-2	1.2	3.9	6.5	Not Detected
Freon 12	75-71-8	0.50	2.8	4.6	2.5 J
Heptane	142-82-5	0.65	2.3	3.8	Not Detected
Hexachlorobutadiene	87-68-3	9.6	20	40	Not Detected
Hexane	110-54-3	0.66	2.0	3.3	1.7 J
m,p-Xylene	108-38-3	1.3	2.4	4.1	Not Detected
Methyl tert-butyl ether	1634-04-4	0.34	2.0	3.4	Not Detected
Methylene Chloride	75-09-2	3.2	6.5	32	Not Detected
o-Xylene	95-47-6	0.67	2.4	4.1	Not Detected
Propylbenzene	103-65-1	0.69	2.8	4.6	Not Detected
Styrene	100-42-5	0.50	2.4	4.0	Not Detected
Tetrachloroethene	127-18-4	1.2	3.8	6.3	Not Detected
Tetrahydrofuran	109-99-9	0.88	1.6	2.8	Not Detected
Toluene	108-88-3	0.53	2.1	3.5	Not Detected
trans-1,2-Dichloroethene	156-60-5	1.0	2.2	3.7	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.96	2.5	4.2	Not Detected
Trichloroethene	79-01-6	0.95	3.0	5.0	Not Detected
Vinyl Chloride	75-01-4	0.54	1.4	2.4	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	OA-1	Date/Time Analyzed:	5/23/14 05:07 PM
Lab ID:	1405216R1-14A	Dilution Factor:	1.87
Date/Time Collecte	5/9/14 02:39 PM	Instrument/Filename:	msd2.i / 2052311r1
Media:	6 Liter Summa Canister		

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	99
4-Bromofluorobenzene	460-00-4	70-130	97
Toluene-d8	2037-26-5	70-130	98

EPA METHOD TO-15 GC/MS FULL SCAN
 Joslyn Clark

Client ID:	Lab Blank	Date/Time Analyzed:	5/22/14 01:07 PM
Lab ID:	1405216R1-15A	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052206r1
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.43	1.6	2.7	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.40	2.0	3.4	Not Detected
1,1,2-Trichloroethane	79-00-5	0.68	1.6	2.7	Not Detected
1,1-Dichloroethane	75-34-3	0.26	1.2	2.0	Not Detected
1,1-Dichloroethene	75-35-4	0.78	1.2	2.0	Not Detected
1,2,4-Trichlorobenzene	120-82-1	3.1	7.4	15	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.38	1.5	2.4	0.50 J
1,2-Dibromoethane (EDB)	106-93-4	0.54	2.3	3.8	Not Detected
1,2-Dichlorobenzene	95-50-1	0.31	1.8	3.0	0.43 J
1,2-Dichloroethane	107-06-2	0.28	1.2	2.0	Not Detected
1,2-Dichloropropane	78-87-5	0.70	1.4	2.3	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.76	1.5	2.4	Not Detected
1,3-Butadiene	106-99-0	0.40	0.66	1.1	Not Detected
1,3-Dichlorobenzene	541-73-1	1.1	1.8	3.0	Not Detected
1,4-Dichlorobenzene	106-46-7	1.2	1.8	3.0	Not Detected
1,4-Dioxane	123-91-1	2.0	3.6	7.2	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.52	1.4	2.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	2.3	2.9	5.9	Not Detected
2-Hexanone	591-78-6	1.8	4.1	8.2	Not Detected
2-Propanol	67-63-0	1.5	2.4	4.9	Not Detected
3-Chloropropene	107-05-1	1.7	3.1	6.3	Not Detected
4-Ethyltoluene	622-96-8	0.55	1.5	2.4	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	Lab Blank	Date/Time Analyzed:	5/22/14 01:07 PM
Lab ID:	1405216R1-15A	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052206r1
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
4-Methyl-2-pentanone	108-10-1	0.31	1.2	2.0	Not Detected
Acetone	67-64-1	2.5	2.4	12	Not Detected
alpha-Chlorotoluene	100-44-7	0.55	1.6	2.6	Not Detected
Benzene	71-43-2	0.27	0.96	1.6	Not Detected
Bromodichloromethane	75-27-4	0.44	2.0	3.4	Not Detected
Bromoform	75-25-2	0.71	3.1	5.2	Not Detected
Bromomethane	74-83-9	2.2	3.9	19	Not Detected
Carbon Disulfide	75-15-0	2.8	3.1	6.2	Not Detected
Carbon Tetrachloride	56-23-5	0.47	1.9	3.1	Not Detected
Chlorobenzene	108-90-7	0.25	1.4	2.3	Not Detected
Chloroethane	75-00-3	2.0	2.6	5.3	Not Detected
Chloroform	67-66-3	0.40	1.5	2.4	Not Detected
Chloromethane	74-87-3	1.6	2.1	10	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.75	1.2	2.0	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.27	1.4	2.3	Not Detected
Cumene	98-82-8	0.53	1.5	2.4	Not Detected
Cyclohexane	110-82-7	0.36	1.0	1.7	Not Detected
Dibromochloromethane	124-48-1	0.72	2.6	4.2	Not Detected
Ethanol	64-17-5	2.0	3.2	3.8	Not Detected
Ethyl Benzene	100-41-4	0.43	1.3	2.2	Not Detected
Freon 11	75-69-4	0.35	1.7	2.8	Not Detected
Freon 113	76-13-1	1.0	2.3	3.8	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	Lab Blank	Date/Time Analyzed:	5/22/14 01:07 PM
Lab ID:	1405216R1-15A	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052206r1
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 114	76-14-2	0.63	2.1	3.5	Not Detected
Freon 12	75-71-8	0.27	1.5	2.5	Not Detected
Heptane	142-82-5	0.35	1.2	2.0	Not Detected
Hexachlorobutadiene	87-68-3	5.1	11	21	Not Detected
Hexane	110-54-3	0.36	1.0	1.8	Not Detected
m,p-Xylene	108-38-3	0.72	1.3	2.2	Not Detected
Methyl tert-butyl ether	1634-04-4	0.18	1.1	1.8	Not Detected
Methylene Chloride	75-09-2	1.7	3.5	17	Not Detected
o-Xylene	95-47-6	0.36	1.3	2.2	Not Detected
Propylbenzene	103-65-1	0.37	1.5	2.4	Not Detected
Styrene	100-42-5	0.27	1.3	2.1	Not Detected
Tetrachloroethene	127-18-4	0.67	2.0	3.4	Not Detected
Tetrahydrofuran	109-99-9	0.47	0.88	1.5	Not Detected
Toluene	108-88-3	0.28	1.1	1.9	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.54	1.2	2.0	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.51	1.4	2.3	Not Detected
Trichloroethene	79-01-6	0.51	1.6	2.7	Not Detected
Vinyl Chloride	75-01-4	0.29	0.77	1.3	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	Lab Blank	Date/Time Analyzed:	5/22/14 01:07 PM
Lab ID:	1405216R1-15A	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052206r1
Media:	NA - Not Applicable		

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	95
4-Bromofluorobenzene	460-00-4	70-130	99
Toluene-d8	2037-26-5	70-130	98

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	Lab Blank	Date/Time Analyzed:	5/23/14 01:13 PM
Lab ID:	1405216R1-15B	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052306r1
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.43	1.6	2.7	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.40	2.0	3.4	Not Detected
1,1,2-Trichloroethane	79-00-5	0.68	1.6	2.7	Not Detected
1,1-Dichloroethane	75-34-3	0.26	1.2	2.0	Not Detected
1,1-Dichloroethene	75-35-4	0.78	1.2	2.0	Not Detected
1,2,4-Trichlorobenzene	120-82-1	3.1	7.4	15	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.38	1.5	2.4	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.54	2.3	3.8	Not Detected
1,2-Dichlorobenzene	95-50-1	0.31	1.8	3.0	0.48 J
1,2-Dichloroethane	107-06-2	0.28	1.2	2.0	Not Detected
1,2-Dichloropropane	78-87-5	0.70	1.4	2.3	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.76	1.5	2.4	Not Detected
1,3-Butadiene	106-99-0	0.40	0.66	1.1	Not Detected
1,3-Dichlorobenzene	541-73-1	1.1	1.8	3.0	Not Detected
1,4-Dichlorobenzene	106-46-7	1.2	1.8	3.0	Not Detected
1,4-Dioxane	123-91-1	2.0	3.6	7.2	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.52	1.4	2.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	2.3	2.9	5.9	Not Detected
2-Hexanone	591-78-6	1.8	4.1	8.2	Not Detected
2-Propanol	67-63-0	1.5	2.4	4.9	Not Detected
3-Chloropropene	107-05-1	1.7	3.1	6.3	Not Detected
4-Ethyltoluene	622-96-8	0.55	1.5	2.4	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	Lab Blank	Date/Time Analyzed:	5/23/14 01:13 PM
Lab ID:	1405216R1-15B	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052306r1
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
4-Methyl-2-pentanone	108-10-1	0.31	1.2	2.0	Not Detected
Acetone	67-64-1	2.5	2.4	12	Not Detected
alpha-Chlorotoluene	100-44-7	0.55	1.6	2.6	Not Detected
Benzene	71-43-2	0.27	0.96	1.6	Not Detected
Bromodichloromethane	75-27-4	0.44	2.0	3.4	Not Detected
Bromoform	75-25-2	0.71	3.1	5.2	Not Detected
Bromomethane	74-83-9	2.2	3.9	19	Not Detected
Carbon Disulfide	75-15-0	2.8	3.1	6.2	Not Detected
Carbon Tetrachloride	56-23-5	0.47	1.9	3.1	Not Detected
Chlorobenzene	108-90-7	0.25	1.4	2.3	Not Detected
Chloroethane	75-00-3	2.0	2.6	5.3	Not Detected
Chloroform	67-66-3	0.40	1.5	2.4	Not Detected
Chloromethane	74-87-3	1.6	2.1	10	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.75	1.2	2.0	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.27	1.4	2.3	Not Detected
Cumene	98-82-8	0.53	1.5	2.4	Not Detected
Cyclohexane	110-82-7	0.36	1.0	1.7	Not Detected
Dibromochloromethane	124-48-1	0.72	2.6	4.2	Not Detected
Ethanol	64-17-5	2.0	3.2	3.8	Not Detected
Ethyl Benzene	100-41-4	0.43	1.3	2.2	Not Detected
Freon 11	75-69-4	0.35	1.7	2.8	Not Detected
Freon 113	76-13-1	1.0	2.3	3.8	Not Detected

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	Lab Blank	Date/Time Analyzed:	5/23/14 01:13 PM
Lab ID:	1405216R1-15B	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052306r1
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 114	76-14-2	0.63	2.1	3.5	Not Detected
Freon 12	75-71-8	0.27	1.5	2.5	Not Detected
Heptane	142-82-5	0.35	1.2	2.0	Not Detected
Hexachlorobutadiene	87-68-3	5.1	11	21	Not Detected
Hexane	110-54-3	0.36	1.0	1.8	Not Detected
m,p-Xylene	108-38-3	0.72	1.3	2.2	Not Detected
Methyl tert-butyl ether	1634-04-4	0.18	1.1	1.8	Not Detected
Methylene Chloride	75-09-2	1.7	3.5	17	Not Detected
o-Xylene	95-47-6	0.36	1.3	2.2	Not Detected
Propylbenzene	103-65-1	0.37	1.5	2.4	Not Detected
Styrene	100-42-5	0.27	1.3	2.1	Not Detected
Tetrachloroethene	127-18-4	0.67	2.0	3.4	Not Detected
Tetrahydrofuran	109-99-9	0.47	0.88	1.5	Not Detected
Toluene	108-88-3	0.28	1.1	1.9	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.54	1.2	2.0	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.51	1.4	2.3	Not Detected
Trichloroethene	79-01-6	0.51	1.6	2.7	Not Detected
Vinyl Chloride	75-01-4	0.29	0.77	1.3	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	Lab Blank	Date/Time Analyzed:	5/23/14 01:13 PM
Lab ID:	1405216R1-15B	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052306r1
Media:	NA - Not Applicable		

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	98
4-Bromofluorobenzene	460-00-4	70-130	98
Toluene-d8	2037-26-5	70-130	96

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	CCV	Date/Time Analyzed:	5/22/14 10:00 AM
Lab ID:	1405216R1-16A	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052202
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	96
1,1,2,2-Tetrachloroethane	79-34-5	90
1,1,2-Trichloroethane	79-00-5	96
1,1-Dichloroethane	75-34-3	88
1,1-Dichloroethene	75-35-4	97
1,2,4-Trichlorobenzene	120-82-1	92
1,2,4-Trimethylbenzene	95-63-6	102
1,2-Dibromoethane (EDB)	106-93-4	97
1,2-Dichlorobenzene	95-50-1	99
1,2-Dichloroethane	107-06-2	94
1,2-Dichloropropane	78-87-5	92
1,3,5-Trimethylbenzene	108-67-8	116
1,3-Butadiene	106-99-0	90
1,3-Dichlorobenzene	541-73-1	101
1,4-Dichlorobenzene	106-46-7	102
1,4-Dioxane	123-91-1	94
2,2,4-Trimethylpentane	540-84-1	86
2-Butanone (Methyl Ethyl Ketone)	78-93-3	94
2-Hexanone	591-78-6	100
2-Propanol	67-63-0	87
3-Chloropropene	107-05-1	86
4-Ethyltoluene	622-96-8	90

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	CCV	Date/Time Analyzed:	5/22/14 10:00 AM
Lab ID:	1405216R1-16A	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052202
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
4-Methyl-2-pentanone	108-10-1	89
Acetone	67-64-1	87
alpha-Chlorotoluene	100-44-7	112
Benzene	71-43-2	95
Bromodichloromethane	75-27-4	96
Bromoform	75-25-2	99
Bromomethane	74-83-9	104
Carbon Disulfide	75-15-0	87
Carbon Tetrachloride	56-23-5	96
Chlorobenzene	108-90-7	96
Chloroethane	75-00-3	95
Chloroform	67-66-3	93
Chloromethane	74-87-3	88
cis-1,2-Dichloroethene	156-59-2	97
cis-1,3-Dichloropropene	10061-01-5	98
Cumene	98-82-8	100
Cyclohexane	110-82-7	97
Dibromochloromethane	124-48-1	100
Ethanol	64-17-5	93
Ethyl Benzene	100-41-4	101
Freon 11	75-69-4	93
Freon 113	76-13-1	97

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	CCV	Date/Time Analyzed:	5/22/14 10:00 AM
Lab ID:	1405216R1-16A	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052202
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Freon 114	76-14-2	104
Freon 12	75-71-8	98
Heptane	142-82-5	88
Hexachlorobutadiene	87-68-3	95
Hexane	110-54-3	89
m,p-Xylene	108-38-3	105
Methyl tert-butyl ether	1634-04-4	95
Methylene Chloride	75-09-2	90
o-Xylene	95-47-6	99
Propylbenzene	103-65-1	99
Styrene	100-42-5	104
Tetrachloroethene	127-18-4	99
Tetrahydrofuran	109-99-9	84
Toluene	108-88-3	96
trans-1,2-Dichloroethene	156-60-5	98
trans-1,3-Dichloropropene	10061-02-6	98
Trichloroethene	79-01-6	102
Vinyl Chloride	75-01-4	98

D: Analyte not within the DoD scope of accreditation.

EPA METHOD TO-15 GC/MS FULL SCAN
 Joslyn Clark

Client ID:	CCV	Date/Time Analyzed:	5/22/14 10:00 AM
Lab ID:	1405216R1-16A	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052202
Media:	NA - Not Applicable		

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	93
4-Bromofluorobenzene	460-00-4	70-130	108
Toluene-d8	2037-26-5	70-130	98

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	CCV	Date/Time Analyzed:	5/23/14 10:32 AM
Lab ID:	1405216R1-16B	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052302
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	96
1,1,2,2-Tetrachloroethane	79-34-5	91
1,1,2-Trichloroethane	79-00-5	96
1,1-Dichloroethane	75-34-3	88
1,1-Dichloroethene	75-35-4	100
1,2,4-Trichlorobenzene	120-82-1	96
1,2,4-Trimethylbenzene	95-63-6	109
1,2-Dibromoethane (EDB)	106-93-4	97
1,2-Dichlorobenzene	95-50-1	105
1,2-Dichloroethane	107-06-2	94
1,2-Dichloropropane	78-87-5	90
1,3,5-Trimethylbenzene	108-67-8	123
1,3-Butadiene	106-99-0	95
1,3-Dichlorobenzene	541-73-1	106
1,4-Dichlorobenzene	106-46-7	107
1,4-Dioxane	123-91-1	93
2,2,4-Trimethylpentane	540-84-1	86
2-Butanone (Methyl Ethyl Ketone)	78-93-3	90
2-Hexanone	591-78-6	98
2-Propanol	67-63-0	82
3-Chloropropene	107-05-1	84
4-Ethyltoluene	622-96-8	95

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	CCV	Date/Time Analyzed:	5/23/14 10:32 AM
Lab ID:	1405216R1-16B	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052302
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
4-Methyl-2-pentanone	108-10-1	88
Acetone	67-64-1	86
alpha-Chlorotoluene	100-44-7	115
Benzene	71-43-2	92
Bromodichloromethane	75-27-4	95
Bromoform	75-25-2	102
Bromomethane	74-83-9	106
Carbon Disulfide	75-15-0	89
Carbon Tetrachloride	56-23-5	99
Chlorobenzene	108-90-7	97
Chloroethane	75-00-3	94
Chloroform	67-66-3	94
Chloromethane	74-87-3	86
cis-1,2-Dichloroethene	156-59-2	98
cis-1,3-Dichloropropene	10061-01-5	97
Cumene	98-82-8	104
Cyclohexane	110-82-7	95
Dibromochloromethane	124-48-1	101
Ethanol	64-17-5	73
Ethyl Benzene	100-41-4	101
Freon 11	75-69-4	94
Freon 113	76-13-1	97

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	CCV	Date/Time Analyzed:	5/23/14 10:32 AM
Lab ID:	1405216R1-16B	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052302
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Freon 114	76-14-2	105
Freon 12	75-71-8	100
Heptane	142-82-5	86
Hexachlorobutadiene	87-68-3	100
Hexane	110-54-3	87
m,p-Xylene	108-38-3	108
Methyl tert-butyl ether	1634-04-4	94
Methylene Chloride	75-09-2	93
o-Xylene	95-47-6	104
Propylbenzene	103-65-1	104
Styrene	100-42-5	108
Tetrachloroethene	127-18-4	99
Tetrahydrofuran	109-99-9	83
Toluene	108-88-3	94
trans-1,2-Dichloroethene	156-60-5	95
trans-1,3-Dichloropropene	10061-02-6	100
Trichloroethene	79-01-6	101
Vinyl Chloride	75-01-4	97

D: Analyte not within the DoD scope of accreditation.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	CCV	Date/Time Analyzed:	5/23/14 10:32 AM
Lab ID:	1405216R1-16B	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052302
Media:	NA - Not Applicable		

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	95
4-Bromofluorobenzene	460-00-4	70-130	111
Toluene-d8	2037-26-5	70-130	96

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	LCS	Date/Time Analyzed:	5/22/14 10:41 AM
Lab ID:	1405216R1-17A	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052203
Media:	NA - Not Applicable		

Compound	CAS#	Amt Added (ug/m3)	Amt Recovered (ug/m3)	%Recovery
1,1,1-Trichloroethane	71-55-6	270	260	95
1,1,2,2-Tetrachloroethane	79-34-5	340	300	86
1,1,2-Trichloroethane	79-00-5	270	250	93
1,1-Dichloroethane	75-34-3	200	180	91
1,1-Dichloroethene	75-35-4	200	220	110
1,2,4-Trichlorobenzene	120-82-1	370	320	87
1,2,4-Trimethylbenzene	95-63-6	240	240	99
1,2-Dibromoethane (EDB)	106-93-4	380	360	94
1,2-Dichlorobenzene	95-50-1	300	290	96
1,2-Dichloroethane	107-06-2	200	190	94
1,2-Dichloropropane	78-87-5	230	210	89
1,3,5-Trimethylbenzene	108-67-8	240	240	98
1,3-Butadiene	106-99-0	110	95	86
1,3-Dichlorobenzene	541-73-1	300	290	96
1,4-Dichlorobenzene	106-46-7	300	290	97
1,4-Dioxane	123-91-1	180	170	95
2,2,4-Trimethylpentane	540-84-1	230	210	88
2-Butanone (Methyl Ethyl Ketone)	78-93-3	150	140	93
2-Hexanone	591-78-6	200	200	100
2-Propanol	67-63-0	120	100	86
3-Chloropropene	107-05-1	160	130	84
4-Ethyltoluene	622-96-8	240	250	102

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	LCS	Date/Time Analyzed:	5/22/14 10:41 AM
Lab ID:	1405216R1-17A	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052203
Media:	NA - Not Applicable		

Compound	CAS#	Amt Added (ug/m3)	Amt Recovered (ug/m3)	%Recovery
4-Methyl-2-pentanone	108-10-1	200	180	89
Acetone	67-64-1	120	100	88
alpha-Chlorotoluene	100-44-7	260	310	120
Benzene	71-43-2	160	150	94
Bromodichloromethane	75-27-4	340	330	97
Bromoform	75-25-2	520	520	101
Bromomethane	74-83-9	190	200	103
Carbon Disulfide	75-15-0	160	120	78
Carbon Tetrachloride	56-23-5	310	300	96
Chlorobenzene	108-90-7	230	210	92
Chloroethane	75-00-3	130	120	91
Chloroform	67-66-3	240	230	93
Chloromethane	74-87-3	100	88	85
cis-1,2-Dichloroethene	156-59-2	200	220	110
cis-1,3-Dichloropropene	10061-01-5	230	230	103
Cumene	98-82-8	240	240	100
Cyclohexane	110-82-7	170	170	99
Dibromochloromethane	124-48-1	420	430	101
Ethanol	64-17-5	94	87	92
Ethyl Benzene	100-41-4	220	210	96
Freon 11	75-69-4	280	260	92
Freon 113	76-13-1	380	410	108

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	LCS	Date/Time Analyzed:	5/22/14 10:41 AM
Lab ID:	1405216R1-17A	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052203
Media:	NA - Not Applicable		

Compound	CAS#	Amt Added (ug/m3)	Amt Recovered (ug/m3)	%Recovery
Freon 114	76-14-2	350	360	102
Freon 12	75-71-8	250	240	95
Heptane	142-82-5	200	180	90
Hexachlorobutadiene	87-68-3	530	480	89
Hexane	110-54-3	180	150	86
m,p-Xylene	108-38-3	220	220	101
Methyl tert-butyl ether	1634-04-4	180	170	95
Methylene Chloride	75-09-2	170	170	101
o-Xylene	95-47-6	220	210	96
Propylbenzene	103-65-1	240	240	100
Styrene	100-42-5	210	220	102
Tetrachloroethene	127-18-4	340	330	96
Tetrahydrofuran	109-99-9	150	120	82
Toluene	108-88-3	190	170	93
trans-1,2-Dichloroethene	156-60-5	200	160	81
trans-1,3-Dichloropropene	10061-02-6	230	210	93
Trichloroethene	79-01-6	270	270	100
Vinyl Chloride	75-01-4	130	120	95

D: Analyte not within the DoD scope of accreditation.

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	LCS	Date/Time Analyzed:	5/22/14 10:41 AM
Lab ID:	1405216R1-17A	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052203
Media:	NA - Not Applicable		

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	92
4-Bromofluorobenzene	460-00-4	70-130	110
Toluene-d8	2037-26-5	70-130	98

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
 Joslyn Clark

Client ID:	LCSD	Date/Time Analyzed:	5/22/14 11:21 AM
Lab ID:	1405216R1-17AA	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052204
Media:	NA - Not Applicable		

Compound	CAS#	Amt Added (ug/m3)	Amt Recovered (ug/m3)	%Recovery
1,1,1-Trichloroethane	71-55-6	270	260	95
1,1,2,2-Tetrachloroethane	79-34-5	340	300	88
1,1,2-Trichloroethane	79-00-5	270	260	94
1,1-Dichloroethane	75-34-3	200	180	90
1,1-Dichloroethene	75-35-4	200	210	106
1,2,4-Trichlorobenzene	120-82-1	370	320	87
1,2,4-Trimethylbenzene	95-63-6	240	230	93
1,2-Dibromoethane (EDB)	106-93-4	380	370	96
1,2-Dichlorobenzene	95-50-1	300	280	92
1,2-Dichloroethane	107-06-2	200	180	90
1,2-Dichloropropane	78-87-5	230	200	88
1,3,5-Trimethylbenzene	108-67-8	240	260	105
1,3-Butadiene	106-99-0	110	100	91
1,3-Dichlorobenzene	541-73-1	300	280	92
1,4-Dichlorobenzene	106-46-7	300	280	92
1,4-Dioxane	123-91-1	180	170	94
2,2,4-Trimethylpentane	540-84-1	230	200	86
2-Butanone (Methyl Ethyl Ketone)	78-93-3	150	130	90
2-Hexanone	591-78-6	200	210	102
2-Propanol	67-63-0	120	100	86
3-Chloropropene	107-05-1	160	130	82
4-Ethyltoluene	622-96-8	240	200	84

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
 Joslyn Clark

Client ID:	LCSD	Date/Time Analyzed:	5/22/14 11:21 AM
Lab ID:	1405216R1-17AA	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052204
Media:	NA - Not Applicable		

Compound	CAS#	Amt Added (ug/m3)	Amt Recovered (ug/m3)	%Recovery
4-Methyl-2-pentanone	108-10-1	200	180	88
Acetone	67-64-1	120	100	86
alpha-Chlorotoluene	100-44-7	260	300	117
Benzene	71-43-2	160	150	92
Bromodichloromethane	75-27-4	340	310	94
Bromoform	75-25-2	520	540	104
Bromomethane	74-83-9	190	200	102
Carbon Disulfide	75-15-0	160	120	78
Carbon Tetrachloride	56-23-5	310	300	97
Chlorobenzene	108-90-7	230	220	94
Chloroethane	75-00-3	130	120	90
Chloroform	67-66-3	240	220	92
Chloromethane	74-87-3	100	88	86
cis-1,2-Dichloroethene	156-59-2	200	220	111
cis-1,3-Dichloropropene	10061-01-5	230	230	100
Cumene	98-82-8	240	230	95
Cyclohexane	110-82-7	170	170	99
Dibromochloromethane	124-48-1	420	440	102
Ethanol	64-17-5	94	71	75
Ethyl Benzene	100-41-4	220	210	96
Freon 11	75-69-4	280	260	91
Freon 113	76-13-1	380	410	108

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	LCSD	Date/Time Analyzed:	5/22/14 11:21 AM
Lab ID:	1405216R1-17AA	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052204
Media:	NA - Not Applicable		

Compound	CAS#	Amt Added (ug/m3)	Amt Recovered (ug/m3)	%Recovery
Freon 114	76-14-2	350	360	103
Freon 12	75-71-8	250	240	96
Heptane	142-82-5	200	180	88
Hexachlorobutadiene	87-68-3	530	470	89
Hexane	110-54-3	180	150	88
m,p-Xylene	108-38-3	220	210	96
Methyl tert-butyl ether	1634-04-4	180	170	96
Methylene Chloride	75-09-2	170	170	98
o-Xylene	95-47-6	220	200	90
Propylbenzene	103-65-1	240	230	93
Styrene	100-42-5	210	200	96
Tetrachloroethene	127-18-4	340	330	97
Tetrahydrofuran	109-99-9	150	120	84
Toluene	108-88-3	190	170	92
trans-1,2-Dichloroethene	156-60-5	200	160	81
trans-1,3-Dichloropropene	10061-02-6	230	210	94
Trichloroethene	79-01-6	270	260	98
Vinyl Chloride	75-01-4	130	120	96

D: Analyte not within the DoD scope of accreditation.

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	LCSD	Date/Time Analyzed:	5/22/14 11:21 AM
Lab ID:	1405216R1-17AA	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052204
Media:	NA - Not Applicable		

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	93
4-Bromofluorobenzene	460-00-4	70-130	105
Toluene-d8	2037-26-5	70-130	96

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	LCS	Date/Time Analyzed:	5/23/14 11:08 AM
Lab ID:	1405216R1-17B	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052303
Media:	NA - Not Applicable		

Compound	CAS#	Amt Added (ug/m3)	Amt Recovered (ug/m3)	%Recovery
1,1,1-Trichloroethane	71-55-6	270	260	95
1,1,2,2-Tetrachloroethane	79-34-5	340	290	86
1,1,2-Trichloroethane	79-00-5	270	250	92
1,1-Dichloroethane	75-34-3	200	180	89
1,1-Dichloroethene	75-35-4	200	220	108
1,2,4-Trichlorobenzene	120-82-1	370	340	91
1,2,4-Trimethylbenzene	95-63-6	240	240	98
1,2-Dibromoethane (EDB)	106-93-4	380	360	95
1,2-Dichlorobenzene	95-50-1	300	290	98
1,2-Dichloroethane	107-06-2	200	180	90
1,2-Dichloropropane	78-87-5	230	200	86
1,3,5-Trimethylbenzene	108-67-8	240	280	113
1,3-Butadiene	106-99-0	110	98	89
1,3-Dichlorobenzene	541-73-1	300	290	98
1,4-Dichlorobenzene	106-46-7	300	300	99
1,4-Dioxane	123-91-1	180	170	95
2,2,4-Trimethylpentane	540-84-1	230	200	86
2-Butanone (Methyl Ethyl Ketone)	78-93-3	150	130	90
2-Hexanone	591-78-6	200	200	99
2-Propanol	67-63-0	120	100	81
3-Chloropropene	107-05-1	160	130	81
4-Ethyltoluene	622-96-8	240	220	90

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
 Joslyn Clark

Client ID:	LCS	Date/Time Analyzed:	5/23/14 11:08 AM
Lab ID:	1405216R1-17B	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052303
Media:	NA - Not Applicable		

Compound	CAS#	Amt Added (ug/m3)	Amt Recovered (ug/m3)	%Recovery
4-Methyl-2-pentanone	108-10-1	200	180	86
Acetone	67-64-1	120	100	85
alpha-Chlorotoluene	100-44-7	260	310	120
Benzene	71-43-2	160	150	92
Bromodichloromethane	75-27-4	340	320	94
Bromoform	75-25-2	520	540	104
Bromomethane	74-83-9	190	200	100
Carbon Disulfide	75-15-0	160	120	77
Carbon Tetrachloride	56-23-5	310	300	95
Chlorobenzene	108-90-7	230	210	93
Chloroethane	75-00-3	130	120	88
Chloroform	67-66-3	240	230	92
Chloromethane	74-87-3	100	86	84
cis-1,2-Dichloroethene	156-59-2	200	210	108
cis-1,3-Dichloropropene	10061-01-5	230	220	98
Cumene	98-82-8	240	250	101
Cyclohexane	110-82-7	170	170	96
Dibromochloromethane	124-48-1	420	430	102
Ethanol	64-17-5	94	85	90
Ethyl Benzene	100-41-4	220	210	97
Freon 11	75-69-4	280	260	92
Freon 113	76-13-1	380	410	107

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	LCS	Date/Time Analyzed:	5/23/14 11:08 AM
Lab ID:	1405216R1-17B	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052303
Media:	NA - Not Applicable		

Compound	CAS#	Amt Added (ug/m3)	Amt Recovered (ug/m3)	%Recovery
Freon 114	76-14-2	350	360	102
Freon 12	75-71-8	250	230	95
Heptane	142-82-5	200	180	86
Hexachlorobutadiene	87-68-3	530	490	92
Hexane	110-54-3	180	150	86
m,p-Xylene	108-38-3	220	220	103
Methyl tert-butyl ether	1634-04-4	180	170	94
Methylene Chloride	75-09-2	170	170	100
o-Xylene	95-47-6	220	210	97
Propylbenzene	103-65-1	240	240	100
Styrene	100-42-5	210	220	102
Tetrachloroethene	127-18-4	340	330	98
Tetrahydrofuran	109-99-9	150	120	80
Toluene	108-88-3	190	170	91
trans-1,2-Dichloroethene	156-60-5	200	160	80
trans-1,3-Dichloropropene	10061-02-6	230	210	92
Trichloroethene	79-01-6	270	260	97
Vinyl Chloride	75-01-4	130	120	90

D: Analyte not within the DoD scope of accreditation.

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	LCS	Date/Time Analyzed:	5/23/14 11:08 AM
Lab ID:	1405216R1-17B	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052303
Media:	NA - Not Applicable		

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	93
4-Bromofluorobenzene	460-00-4	70-130	108
Toluene-d8	2037-26-5	70-130	97

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
 Joslyn Clark

Client ID:	LCSD	Date/Time Analyzed:	5/23/14 11:45 AM
Lab ID:	1405216R1-17BB	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052304
Media:	NA - Not Applicable		

Compound	CAS#	Amt Added (ug/m3)	Amt Recovered (ug/m3)	%Recovery
1,1,1-Trichloroethane	71-55-6	270	260	96
1,1,2,2-Tetrachloroethane	79-34-5	340	300	87
1,1,2-Trichloroethane	79-00-5	270	250	92
1,1-Dichloroethane	75-34-3	200	180	91
1,1-Dichloroethene	75-35-4	200	220	109
1,2,4-Trichlorobenzene	120-82-1	370	370	101
1,2,4-Trimethylbenzene	95-63-6	240	260	105
1,2-Dibromoethane (EDB)	106-93-4	380	360	95
1,2-Dichlorobenzene	95-50-1	300	310	104
1,2-Dichloroethane	107-06-2	200	180	91
1,2-Dichloropropane	78-87-5	230	200	85
1,3,5-Trimethylbenzene	108-67-8	240	240	96
1,3-Butadiene	106-99-0	110	96	87
1,3-Dichlorobenzene	541-73-1	300	300	101
1,4-Dichlorobenzene	106-46-7	300	310	104
1,4-Dioxane	123-91-1	180	170	96
2,2,4-Trimethylpentane	540-84-1	230	200	87
2-Butanone (Methyl Ethyl Ketone)	78-93-3	150	140	92
2-Hexanone	591-78-6	200	200	100
2-Propanol	67-63-0	120	100	84
3-Chloropropene	107-05-1	160	130	82
4-Ethyltoluene	622-96-8	240	240	99

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
 Joslyn Clark

Client ID:	LCSD	Date/Time Analyzed:	5/23/14 11:45 AM
Lab ID:	1405216R1-17BB	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052304
Media:	NA - Not Applicable		

Compound	CAS#	Amt Added (ug/m3)	Amt Recovered (ug/m3)	%Recovery
4-Methyl-2-pentanone	108-10-1	200	180	86
Acetone	67-64-1	120	100	87
alpha-Chlorotoluene	100-44-7	260	330	128
Benzene	71-43-2	160	150	92
Bromodichloromethane	75-27-4	340	320	95
Bromoform	75-25-2	520	540	104
Bromomethane	74-83-9	190	200	103
Carbon Disulfide	75-15-0	160	120	79
Carbon Tetrachloride	56-23-5	310	310	98
Chlorobenzene	108-90-7	230	210	93
Chloroethane	75-00-3	130	120	89
Chloroform	67-66-3	240	230	93
Chloromethane	74-87-3	100	89	86
cis-1,2-Dichloroethene	156-59-2	200	220	111
cis-1,3-Dichloropropene	10061-01-5	230	220	98
Cumene	98-82-8	240	240	99
Cyclohexane	110-82-7	170	170	99
Dibromochloromethane	124-48-1	420	440	102
Ethanol	64-17-5	94	87	93
Ethyl Benzene	100-41-4	220	210	98
Freon 11	75-69-4	280	260	93
Freon 113	76-13-1	380	420	108

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	LCSD	Date/Time Analyzed:	5/23/14 11:45 AM
Lab ID:	1405216R1-17BB	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052304
Media:	NA - Not Applicable		

Compound	CAS#	Amt Added (ug/m3)	Amt Recovered (ug/m3)	%Recovery
Freon 114	76-14-2	350	360	104
Freon 12	75-71-8	250	240	96
Heptane	142-82-5	200	180	87
Hexachlorobutadiene	87-68-3	530	530	100
Hexane	110-54-3	180	150	86
m,p-Xylene	108-38-3	220	220	101
Methyl tert-butyl ether	1634-04-4	180	170	95
Methylene Chloride	75-09-2	170	180	102
o-Xylene	95-47-6	220	200	95
Propylbenzene	103-65-1	240	240	97
Styrene	100-42-5	210	220	102
Tetrachloroethene	127-18-4	340	330	98
Tetrahydrofuran	109-99-9	150	120	82
Toluene	108-88-3	190	170	91
trans-1,2-Dichloroethene	156-60-5	200	160	81
trans-1,3-Dichloropropene	10061-02-6	230	210	92
Trichloroethene	79-01-6	270	260	98
Vinyl Chloride	75-01-4	130	120	92

D: Analyte not within the DoD scope of accreditation.

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN

Joslyn Clark

Client ID:	LCSD	Date/Time Analyzed:	5/23/14 11:45 AM
Lab ID:	1405216R1-17BB	Dilution Factor:	1.00
Date/Time Collecte	NA - Not Applicable	Instrument/Filename:	msd2.i / 2052304
Media:	NA - Not Applicable		

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	93
4-Bromofluorobenzene	460-00-4	70-130	107
Toluene-d8	2037-26-5	70-130	96

* % Recovery is calculated using unrounded analytical results.



Air Toxics

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**180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020**

Page L of 2

Project Manager Michael Pressley
 Collected by: (Print and Sign) Thomas Fisher/Thomas Fisher
 Company ERM NC, Inc Email Michael.Pressley@erm.com
 Address 15720 John Delaney Dr City Charlotte State NC Zip 28277
 Phone 704-541-8345 Fax _____

Project Info:
 P.O. # _____
 Project # 240887
 Project Name Jaslyn Clark

Turn Around Time:
 Normal
 Rush
specify _____

Lab Use Only
 Pressurized by: _____
 Date: _____
 Pressurization Gas: _____
 N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final (psi)
01A	AA-1	25266	5/9/14	1340	TO-15	30.5	8
02A	SS-1	14112	5/9/14	1341	TO-75	30.5	8.5
03A	AA-2	23921	5/9/14	1347	TO-15	30	7.5
04A	SS-2	13661	5/9/14	1348	TO-15	29	8
05A	AA-3	944	5/9/14	1359	TO-15	30	8
06A	SS-3	5585	5/9/14	1401	TO-15	31	8.5
07A	AA-4	5763	5/9/14	1407	TO-15	30	8
08A	SS-4	422	5/9/14	1410	TO-15	30	8.5
09A	AA-5	12700	5/9/14	1413	TO-15	30.5	8
10A	SS-5	96114	5/9/14	1415	TO-15	30	8

Notes:

Received by: (signature) _____ Date/Time _____
my EAT 05/12/14 10:00

Relinquished by: (signature) Thomas Fisher Date/Time 5/9/14/1630

Received by: (signature) _____ Date/Time _____

Relinquished by: (signature) _____ Date/Time _____

Shipper Name FedEx Air Bill # _____

Temp (°C) 20.9 Condition Good Custody Seals Intact? Yes No None Work Order # 1405216

Received by: (signature) _____ Date/Time _____



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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 2 of 2

Project Manager Michael Pressley
 Collected by: (Print and Sign) Thomas Fisher / Thom-FH
 Company ERM NC, Inc Email Michael.Pressley@erm.com
 Address 15720 John J. Delaney Dr City Charlotte State NC Zip 28277
 Phone 704-541-8345 Fax _____

Project Info:

P.O. # _____
 Project # 240887
 Project Name Joslyn Clark

Turn Around Time:
 Normal
 Rush
 specify _____

Lab Use Only
 Pressurized by: _____
 Date: _____
 Pressurization Gas: N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final (psf)
1A	SS-6	34197	5/9/14	1419	TO-15	28.5	6.5
2A	AA-6	4179	5/9/14	1422	TO-15	30	8
3A	AA-7	3747	5/9/14	1430	TO-15	31	8.5
4A	OA-1	9576	5/9/14	1439	TO-15	31	8.5

Notes:

Received by: (signature) my EAT 05/12/14 10:00 Date/Time
 Received by: (signature) _____ Date/Time
 Received by: (signature) _____ Date/Time

Relinquished by: (signature) Thomas Fisher 1630 Date/Time
 Relinquished by: (signature) _____ Date/Time
 Relinquished by: (signature) _____ Date/Time

Shipper Name Fisher Air Bill # _____ Temp (°C) NA Condition Good Custody Seals Intact? Yes No None Work Order # 1405216